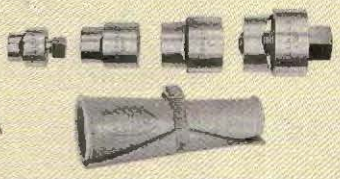
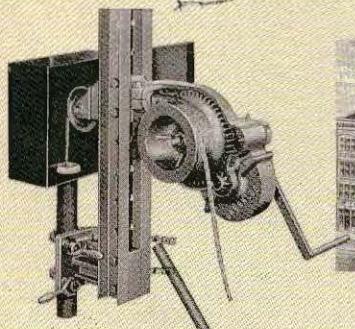


GREENLEE®

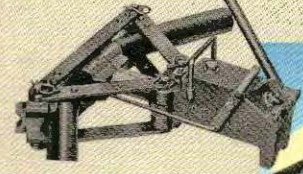
125 Years of Excellence





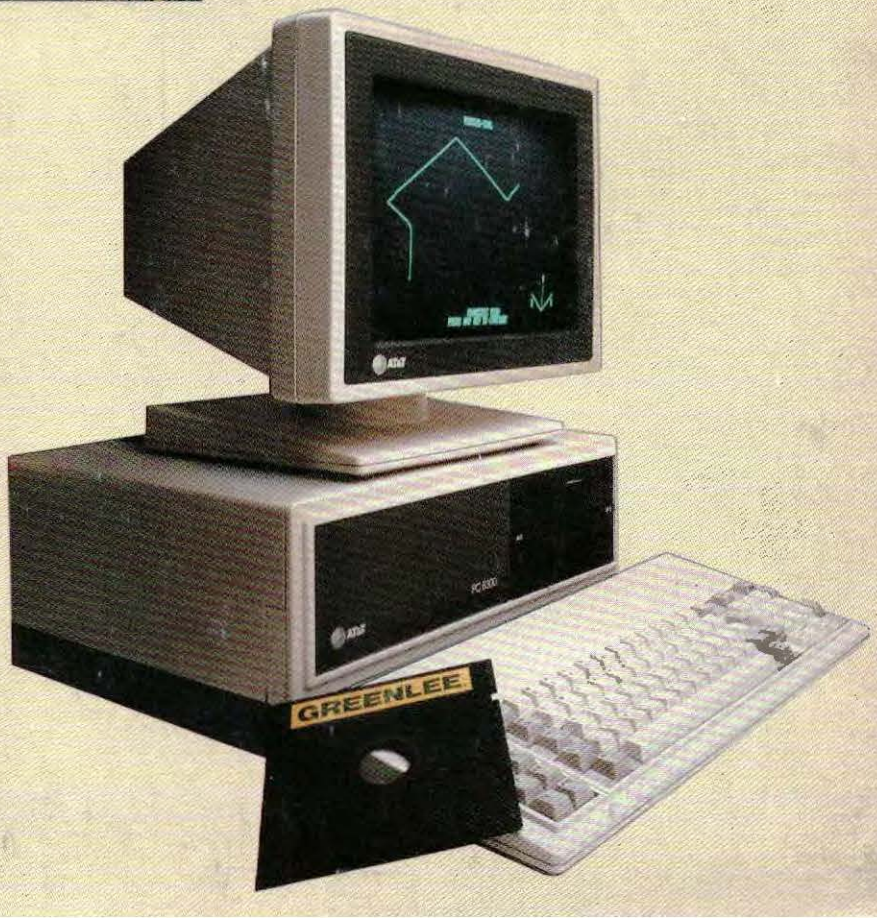













ELECTRONIC CONNECTOR PUNCHES
PAGE 106
ANCHORS and FASTENERS
PAGES 76-80
VARIABLE PITCH HOLE SAWS
PAGE 86
NEW FROM GREENLEE®
CABLE RUN DESIGNER
Cable Pulling Software
PAGE 37
975, 980 HYDRAULIC PUMPS
PAGES 108, 109
CABLE RUN DESIGNER
GREENLEE
RACEWAY DATA
CABLE DATA FORM
Variable Speed — Controlled Force
CABLE PULLER
PAGE 46

DIELESS CRIMPER AND CONNECTORS

PAGES 66-75



1304 VARIABLE SPEED PORTABLE BAND SAW

PAGE 26

MIGHTY MOUSER™

POWER FISHING SYSTEMS

PAGES 32-34







NEW Easy to handle . . . HANDLE FISH TAPES

PAGE 36

© 1987 TEXTRON

GREENLEE®

All products, assortments and other information in this catalog is accurate, to our knowledge, at the time of printing. Greenlee reserves the right to make changes in products and assortments without prior notice.

Tools shown in this catalog are designed for their intended use only by trained users/operators. Before using any Greenlee tool, make sure you have read and that you understand the complete Safety, Operating and Maintenance instructions for that tool. Greenlee will furnish reasonable quantities of instruction manuals at no charge. Call or write with product catalog number and serial number for replacements or additional copies.

To insure that your Greenlee products continue to operate as they were designed, insist on genuine Greenlee replacement parts.

CAT. NO.	DESCRIPTION	PAGE NO.
ACL-2ACL	CONNECTORS	68-75
BBG1-3	BUS BAR BEND ATCH	19
RS232	25 PIN PANEL PUNCH	106
S2613	PISTON SET - 1/2 - 2"	34
TUG1-2	TUBE BENDING ATCH	17
18	UNISPUR BIT	83
33 A-L	ZIP BIT	84
45	UNISPUR BIT	83
48 PT	BELL HANGER BIT	84
61-62 PTS	NAIL EATER BITS	82
64	SHIP AUGER BIT	84
66 PT	NAIL EATER BIT	82
71-76 BB	1/2-2" BB KO PUNCHES	93, 100
80	WIRE PULLING LUBE	54
149	MULTI-SPUR MACH BIT	85
149 G	E-Z BORE BIT	83
159 W7-W10	IMPACT WRENCH BIT	83
229-238	ELECTRONIC PUNCH	106
300-305	HACK SAW W/BLADE	29
306	COMPASS SAW HANDLE	29
306 A-C	BLADES - BAND SAW	31
307	FLEX SAW W/BLADE	29
308 A-C	BLADES - BAND SAW	31
310-312	BLADES - COMPASS SAW	29-30
314	CUT-OFF SAW BLADES	30
318 A-C	BLADES - BAND SAW	31
333	HACK SAW W/BLADE	29
350 to 399-24	BLADES, BAND SAW	30-31
405	REEL STAND	35, 56
406	ROPE STAND	56
408 to 429	POLYPRO ROPE	58
430, 431	POLY LINE	35, 57
434, 435	MEAS TAPE/DSPNSR	35, 57
436 Series	NYLON FISH TAPE	36
438 Series	1/8" STEEL FISH TAPE	36
R438B	SWIVEL HEAD BALL	36
439 Series	FLEXIBLE FISH TAPE	36
439-1	FLEX FISH TAPE LEADER	36
440	PORTA-THRED	28
441	FEEDING SHEAVE	48
444-446	CABLE PORTA-PULLER	45
455	CABLE RUN DESIGNER	37
462, 463	THREADING OIL	28
466	VISE TRI-STAND	28
480 to 485	MULTIPLEX PULL ROPE	56
488	CABLE PROTECTORS	48
503	SWIVEL CASTER SET	110
504	CABLE GRIP	54
508 to 516	1/2-1" RIGID HICKEY	22
538-R538	1/4" STEEL FISH TAPE	36
539	FLEX FISH TAPE	36
541	FEEDING SHEAVE SET	48
555SB	ELEC SPEED BENDER	8-9
555,E,I,R	ELECTRIC BENDER	8-9
578, 579	ROPE CLEVIS	54
591	PORT BLOWER SYST	33
592	MIGHTY MOUSER BLOW GUN KIT	32
595	NYLON FISH LINE	34, 57
597 to 599	PULLING GRIP KITS	50
603	CASTER SET	110
604 to 607	FISH LINE	34, 57
608-619	PISTONS/FISH ACC	34
620	ROPE/PAY-OUT REEL	35, 57
621-623	PISTONS/FISH ACC	34
624	WIRE GRIP KIT	54
626, 628	STEEL STORAGE BOX	111
629	WIRE GRIP KIT	54
630	FISH LINE CANNISTER	34, 57
631 to 638	CONVEYOR SHEAVE	47
639	TWIN YOKE SHEAVE	47
640, 642	CABLE PULLER	43
644	ROPE REEL STAND	56
647	SPINDLE - 62"	59
649	PIPE ADAPTER SHEAVE	43
650 to 653	CABLE SHEAVES	47
656	TELESCOP REEL STAND	59
657	SPINDLE - 100"	59
658, 659	TRAY-TYPE SHEAVES	48
663 to 665	STEEL STORAGE BOX	111
666	CASTER SET	110
667	STEEL STORAGE BOX	111
668	PIPE RACK	111
669 S	UTILITY CABINET	111
670	CABLE PULLER PKG	43
671	MANHOLE SHEAVE	48
678	ROPE CLEVIS	54
679	PIANO BOX	111
680	POLYPRO ROPE	58
682	EXTENSION BOOM KIT	43
683	TELESCOP REEL STAND	59
684	SPINDLE, 76"	59
685	FLEX PIPE ADAPTOR	43
686	CABLE PULLER PKG	43
687	TELESCOP REEL STAND	59
688	POLYPRO ROPE	58
689	LARGE PIANO BOX	111
690	FISH TAPE SYSTEM	33
692	FISH TAPE ACC KIT	34
693	WELDERS BOX	111
695	CASTER SET	110
696 S	MOBILE WORK BOX	111
699	ROPE STAND	56
700 ISO	ROUND PUNCH SET	100-102
704-708	CABLE CUTTER	62-63
709-710	METAL STUD PUNCH	99
711 to 715 M	STUD BUSHING	99
718	CABLE CUTTER	62
720	KEYWAY PUNCH	105
727	CABLE CUTTER	62
730 Series	ROUND PUNCH	100-102
730 K	KEYWAY PUNCH	105
731 Series	SQ & REC PUNCH	103-104
732-734	SPEC SHAPE PUNCHES	104-105
735, 735 BB	1/2 - 1-1/4" KO PUNCH	92
736	STEP DRILL	85, 93
737-739 BB	KO & BB KO PNCH SETS	92-93
740	SLUG SPLITTER PUNCH	91
741-743 BB	BB KO PUNCH SET	93
744	SLUG SPLIT PUNCH SET	91
745	SLUG SPLITTER PUNCH	91
746	HYDRAULIC RAM	64, 97
749	ACSR/STEEL WIRE CUTTER	63
750 Series	CABLE CUTTER	64
755	HAND PUMP	108
766	WIRE PULLER	45
767	HAND PUMP	108
777	CABLE BENDER	15
781, 783	BOLT CUTTERS	63
782	TUBING BENDER	17
796, 800	CABLE BENDERS	64
805	CONTROLLED FORCE PULLER	46
822-837	HOLE SAWS/ARBORS	86-87
840 to 843	HAND BENDERS	22
844 to 846	BENDER HANDLE	22
847 to 850	PVC HEATER	24-25
852	TRIETHYLENE GLYCOL	25
856 2-5	PVC PLUGS	25
857	PVC ROLLER SUPPORT	25
858, 859	PVC PLUG SET	25
860	PVC HEATING BLANKET	24
863	PVC CUTTER	24
866-870	SCREW ANCH EXPAND	79
880	HYDRAULIC BENDER	14
881, 881CT	CAM-TRACK BENDER	12-13
881A	CONVERSION SET	12-13
882	HYDRAULIC BENDER	10-11
884, 885	HYDRAULIC BENDER	16
901-904	BIT EXTENSIONS	82
905-906	WIRE CADDIES	60
909, 910	WIRE DISPENSER	61
911	WIRE CART	61
914	WIRE REEL SUPPORT	60
915 PS	HYD POWER PUMP	109
916	CABLE REEL TRANS	60
980 SAPS	HYD POWER PUMP	109
975	HYD POWER PUMP	109
980	HYD POWER PUMP	109
1218 G1-1232 G2	SAW BLADES - 12"	29-30
1304	PORTABLE BAND SAW	26
1314	CUT-OFF SAW	28
1357, 1399	CONTR BAND SAW	27

CAT. NO.	DESCRIPTION	PAGE NO.
1440G	PIPE BIT SET	83
1614SS	3/8" S.S. DRAW STUD	97
1725	HYD FOOT PUMP	108
1726	HYD HAND PUMP	108
1731, 1732	C-FRAME KO PNCH DRV	98
1800, 1801	MECHANICAL BENDER	20
1802	PIPE BENDING TABLE	18
1804	RATCHET KO DRIVER	95
1805	BENDING PROTRACTOR	19
1806	RATCHET KO DRIVER	95
1807	BEND DEGREE INDICAT	19
1810, 1811	HAND BENDERS	22
1813	BENDING TABLE	18
1818,R,T	MECHANICAL BENDER	21
1880	BENDING TABLE	14
1904	RATCHET KO DRIVER	95
1905	CABLE STRIPPER	65
1906	RATCHET KO DRIVER	95
1910	MAKE UP KIT	65
1913-1922	WIRE CUTTERS, STRIPPERS, CRIMPERS	65
1990	DIELESS CRIMPER	66-67
2001, 2005	EASY TUGGER PULLER	44-45
2018R-2036S	CABLE ROLLERS	48
2042, 2070, 2086	EASY TUG PULLING SYS	44
3010B-3124C	BLADES - BAND SAW	30
3548GB	QUICK COUPLER - 3/8"	107
4016, 4017 GB	HYDRAULIC OIL	107
6000, 6001	CABLE PULLER	42
6005	MULTIPLEX ROPE	56
6006	CABLE PULLER	42
6012	HOOK SHEAVE	47
6015	MULTIPLEX ROPE	56
6018, 6024	HOOK SHEAVE	47
6025	MULTIPLEX ROPE	56
6036	TRIPLE SHEAVE GUIDE	47
6048	MANHOLE SHEAVE	48
6049	PIPE ADAPTOR SHEAVE	42
6072	MANHOLE SHEAVE	48
6082	EXTENSION BOOM KIT	42
6085	FLEXIBLE PIPE ADAPTER	42
7211	SLGBSTR KO PNCH SETS	89-90
7212-7214	SLGBSTR PNCH SETS	90
7216-7237 BB	SLGBSTR PNCH SETS	89
7304	KO PUNCH SET	96-97
7306	KO PUNCH DRIVER SET	96-97
7307	SLUG SPLIT PUNCH SET	91
7310	KO PUNCH DRIVER SET	96-97
7360, 7361	KO PARTS ASSORTMENT	98
7506	SLUG SPLIT HYD PNCH	91, 97
7606-7646	HYD PUNCH DRVR SETS	96
7804-7806SB	HYD PUNCH DRIVER	94
11289	HOSE UNIT, 3/8" x 6'	107
15627	HOSE UNIT, 1/4" x 3'	107
15688	QUICK COUPLER - 1/4"	107
17707	HOSE UNIT, 1/4" x 10'	107
18877-79	VACUUM TOOLS	34
20483-23954	HOSE UNIT, 1/4"	107
28338	FILTER CART CONV	34
28496	PULLER ROPE	56
29205	BUS BAR ATTACHMENT	19
30758	PULLING GRIP KIT	50
30438 to 31032	PULLING GRIPS	51-53
32853-32868	RECIPROCATING SAW BLADES	31
32924-25	OXIDE INHIBITOR	75
34121-34124	MULTIPLEX ROPE	56
52326	HOSE ASSY, 10'	25
52341	RUBBER GLOVES	25
84003-84487	ANCHORS & FASTENERS	76-80
84520-84600	MASONRY BITS	80, 85

TABLE OF CONTENTS

BENDING 6-23
- Selection Guide 6, 7
- Power Benders 8-20
- Mechanical Benders 20, 21
- Hand Benders 22

PVC TOOLS 24, 25

SAWING AND THREADING 26-31
- Power Saws 26-28
- Threader 28
- Hack Saws 29
- Saw Blades 30, 31

FISHING 32-36
- Power Fishing Systems 32-34
- Fish Line 35
- Hand Fish Tapes 36

PULLING 37-54
- Cable Pulling Software 37
- Setup Illustrations 38, 39
- Puller Selection Guide 40, 41
- Pullers and Systems 42-46
- Accessories 47, 48
- Pulling Grips 49-54

ROPE 55-58

WIRE AND CABLE HANDLING 59-61
- Wire Carts and Stands

CUTTING AND TERMINATING TOOLS 62-67
- Cable Cutters 62-64
- Cable Stripper and Benders 64, 65
- Dieless Crimper 66, 67

CONNECTORS, LUGS 68-75

ANCHORS AND FASTENERS 76-80

BITS 81-85

HOLE SAWS 86, 87

HOLE PUNCHING 88-106
- Conduit Size Punches 88-93
- Punch Drivers 94-98
- Stud Punch 99
- Industrial Round Punches 100-102
- Square, 'D', 'DD' and Key Punches 103-105
- Electronic Connector Punches 106

HYDRAULIC PUMPS 107-109

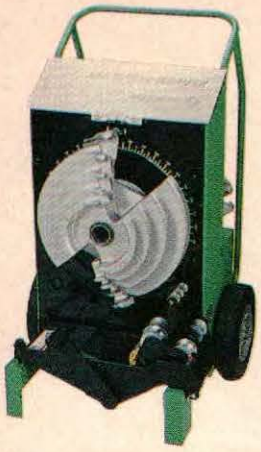
JOB-SITE BOXES 110, 111

SERVICE STATIONS 112, 113

GLOSSARY, METRIC CONVERSIONS 114

SALES OFFICES 115

COMBINATION BENDERS FOR EMT, IMC AND RIGID



½"-2"
EMT, IMC and Rigid

The bender with a memory!

555SBC
Electric
Speed Bender

Pages 8 & 9

½"-2"
EMT, IMC and Rigid

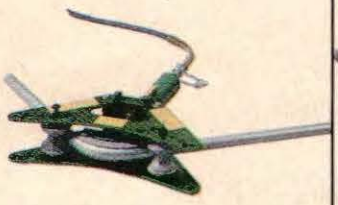
555
Electric
Bender

Page 9



BENDERS FOR RIGID

1"-2"
Rigid



880
Hydraulic Bender

Page 14

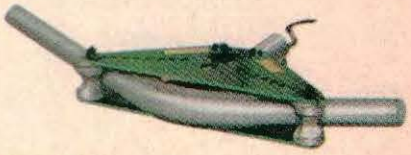
1¼"-4"
Rigid



777
Hydraulic Bender

Page 15

1¼"-5"
Rigid



884 & 885
Hydraulic Benders

Page 16

MECHANICAL BENDERS

½"-1"
IMC and Rigid



1800

Page 20

1¼"-1½"
IMC and Rigid



1801

Page 20

¾"-2" EMT
½"-1¼" IMC
½"-1½" Rigid
½"-2" Aluminum Rigid



1818

Page 21

COMBINATION BENDERS FOR EMT, IMC AND RIGID

1¼"-2"
EMT, IMC and Rigid



882CB
Hydraulic Bender
Pages 10 & 11

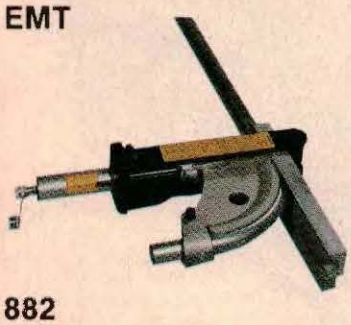
2½"-4"
EMT, IMC and Rigid



881 & 881CT
Hydraulic Benders
Pages 12 and 13

EMT BENDER

1¼"-2"
EMT



882
Hydraulic Bender
Pages 10 & 11

TUBING BENDER

¾"-2⅛"
O.D. Tubing

½"-2"
Schedule 40 Pipe



782
Hydraulic
Bender
Page 17

ACCESSORIES



Bending Tables
Page 18

Bus Bar Bender



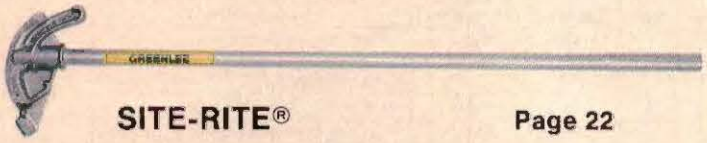
Page 19



Ductile Iron Shoes
for schedule 40 thru double X
Page 19

HAND BENDERS

½"-1¼" EMT
½"-1" Rigid



SITE-RITE®
Page 22

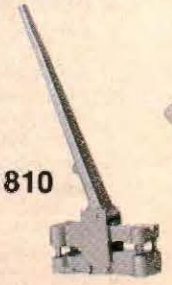
½"-1" Rigid



Hickeys
Page 22

OFFSET BENDERS

½" EMT
¾" EMT



1810



1811

Page 22

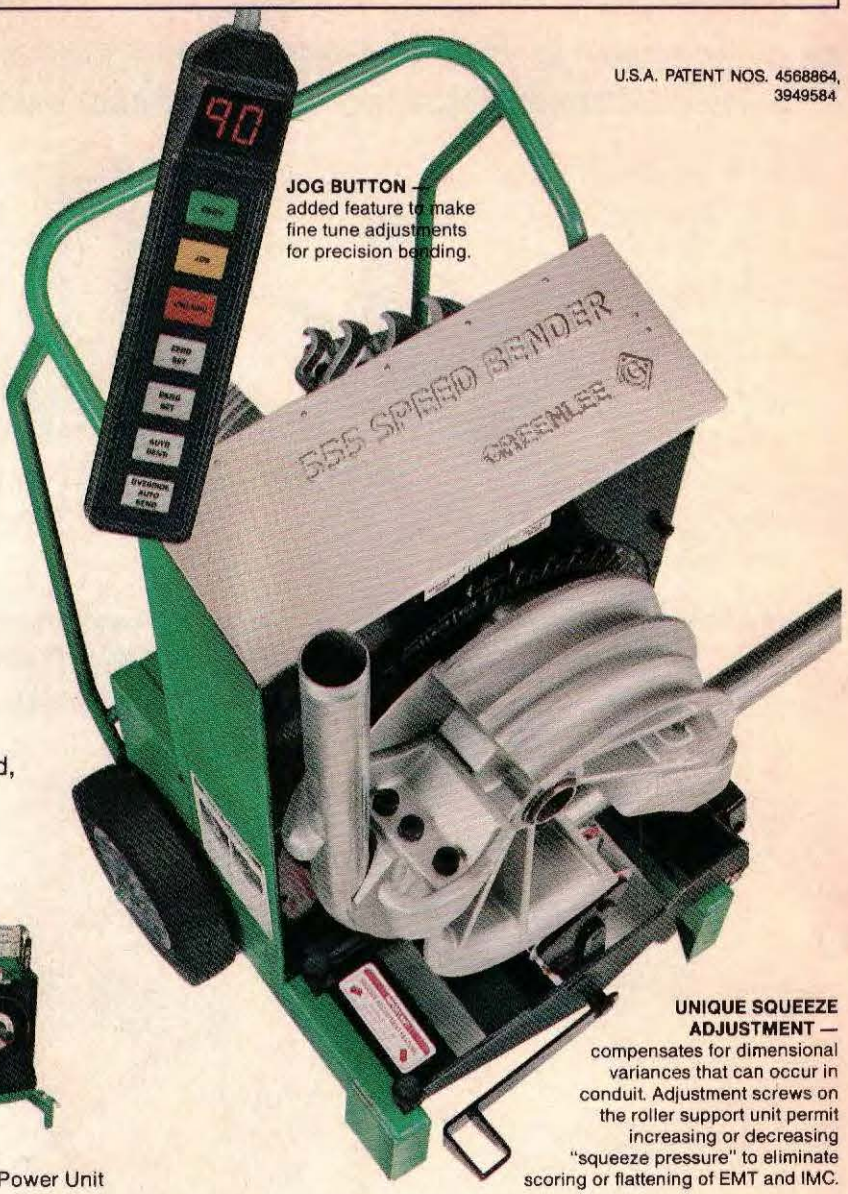
555SB SPEED BENDER®

for ½" - 2" EMT, IMC and Rigid Conduit.

ACCURATE ELECTRONICALLY CONTROLLED BENDING

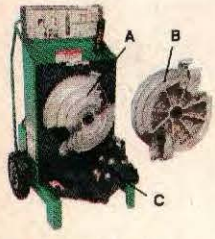
- **DIGITAL DISPLAY**
  Complete electronic accuracy at your finger tips.
  Protective sun screen allows easy reading of digital display in all lighting conditions.
- **MEMORY BENDING FUNCTION**
  Quick repeat bending . . . with each bend *identical* . . . even offsets!
- **SELF-CONTAINED UNIT**
  Contains all accessories for ½" thru 2" Rigid, IMC and EMT *on the unit.*
  Simple two-shoe and one roller support system speeds set-up.

U.S.A. PATENT NOS. 4568864, 3949584

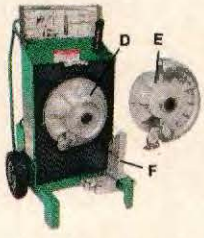


JOG BUTTON — added feature to make fine tune adjustments for precision bending.

UNIQUE SQUEEZE ADJUSTMENT — compensates for dimensional variances that can occur in conduit. Adjustment screws on the roller support unit permit increasing or decreasing "squeeze pressure" to eliminate scoring or flattening of EMT and IMC.



555SBC for ½"-2" EMT, IMC and Rigid



555SBR for ½"-2" Rigid



555SB Power Unit

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
555SBC	10113	**Speed Bender Power Unit, Digital Control, Shoe Group and Roller Support for bending ½" thru 2" EMT, IMC and Rigid.**	559
555SBR*	10117	**Speed Bender Power Unit, Digital Control, Rigid Shoe Group and Roller Support for bending ½" thru 2" Rigid steel and aluminum conduit.**	447
555SB	10112	**Speed Bender Power Unit and Digital Control. (Does not include shoes or roller support).**	368

CENTERLINE RADIUS

	Conduit Size					
	1/2"	3/4"	1"	1-1/4	1-1/2"	2"
555SBC EMT	4-5/16"	5-1/2"	7"	8-13/16"	8-3/8"	9-1/4"
555SBC IMC/Rigid	4-1/4"	5-7/16"	6-15/16"	8-3/4"	8-1/4"	9-3/16"
555SBR Rigid Only	4-3/8"	4-1/2"	5-3/4"	7-1/4"	8-1/4"	9-1/2"

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	555SBC	555SBR
	555SB	10112	Power Unit, Digital Control	1	1
	32377	32377	½" thru 2" Rigid, EMT, IMC Shoe Group (includes Keys A, B, C)	1	
A	**33495**	33495	½" and 1-¼" Shoe Complete		
B	**33414**	33414	1-½" and 2" Shoe Complete		
C	**33415**	33415	Roller Support Unit		
	32378	32378	½" thru 2" Rigid Shoe Group (includes Keys D, E, F)		1
D	**17935**	13670	½" thru 1-¼" Rigid Only Shoe		
E	**17937**	13672	1-½" and 2" Rigid Only Shoe		
F	**32106**	32106	Rigid Only Roller Support Unit		
	53389	53389	Replacement Hinge Pin for 555SBR and 555SBC	2	2

*Since the rigid only shoes and roller support are not compatible with the integrated combination shoes and roller support, upgrading from 555SBR to 555SBC requires the addition of Cat. No. 32377, ½ thru 2" Rigid, EMT, IMC Shoe Group complete.

OTHER 555SBC FEATURES



MEMORY BENDING FUNCTION — speeds repeat bending. Easily handles offsets or saddles with each bend IDENTICAL and fast.



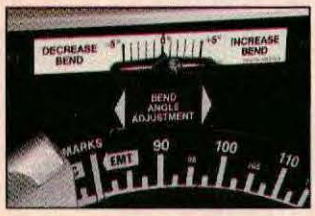
OPERATING INSTRUCTIONS AND BENDING DATA — permanently attached to the tool for fast, easy reference by operator.



COLOR CODING — visual color matching to assure proper type conduit is placed in correct shoe sleeve and roller support.



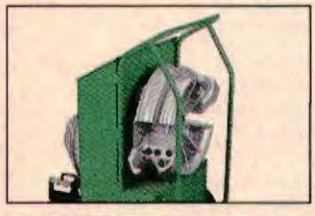
SIMPLIFIED ZEROING — zeroing quickly accomplished with alignment marks raised on frame and shoes.



BENDING SCALE ADJUSTER — to help compensate for variations in conduit.



OPERATES HORIZONTALLY OR VERTICALLY — Horizontal operation makes it easy to bend large offsets and saddles.



CONVENIENT SHOE STORAGE — only two shoes handle ALL conduit, sizes ½" through 2", including Rigid, IMC, and EMT. Shoe not currently in use is stored conveniently on back of bender.



EASILY MOBILE TOOL — removable shoes and roller assembly for easy moving and lifting along with rugged handles, wheels and axle designed to fit through any 30" opening.

555 Electric Bender for ½"-2"



- Makes 90° bends in 2" conduit or pipe in 16 seconds, ½" to 1" in 10 seconds.
- Simple set up and easy operation for correct bends every time.
- Squeeze adjustment on roller support accommodates variations in conduit.
- Easily portable . . . fits thru a 30" opening.
- Skid type handles permit horizontal bending for larger offsets and saddles.
- Makes 180° bends in one setting on ½ thru 2" rigid conduit.



For ½ - 2" RIGID | For ½ - 2" EMT | For 1-½ - 2" IMC | 555 Power Unit

The 555 Bender can be purchased with the shoe group or groups needed now, with additional shoe groups being purchased when needed.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
555R	10106	**Electric Bender with shoe groups for ½" thru 2" Rigid Conduit and Pipe (includes the following)**	393
555	10105	**Electric Bender**	321
2 8007	28007	**Shoe Group for Rigid Steel and Aluminum Conduit**	72
555E	10107	**Electric Bender with shoe group for ½ thru 2" EMT Conduit (includes the following)**	476
555	10105	**Electric Bender**	321
2 3802	08322	**Shoe Group for EMT Conduit with Storage Box**	155
555I	10108	**Electric Bender with shoe group for 1-½ and 2" IMC Conduit (includes the following)**	456
555	10105	**Electric Bender**	321
2 6330	26330	**Shoe Group for IMC Conduit with Storage Box**	135
555	10105	**Electric Bender Power Unit Only**	321

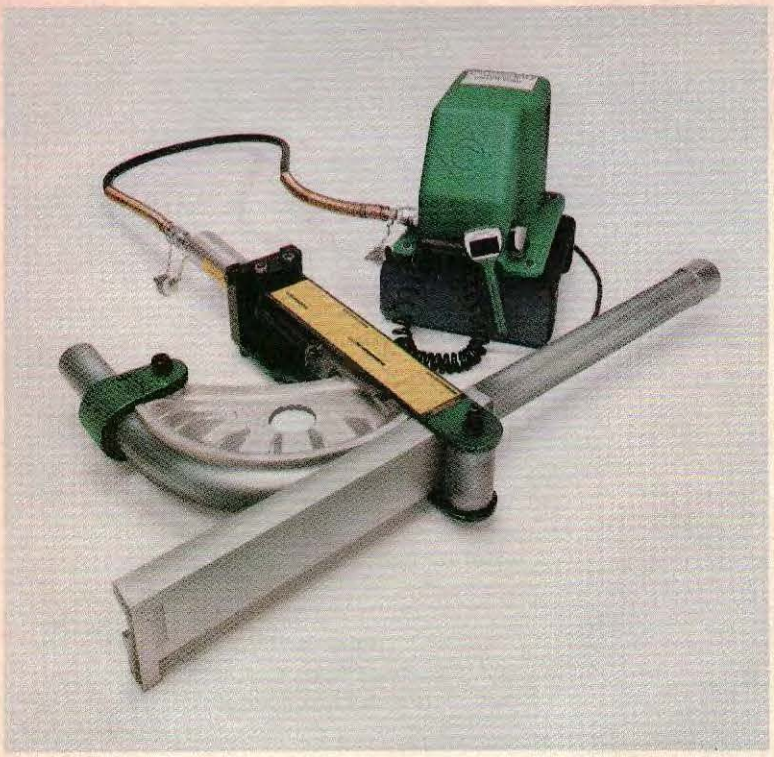
Key	Cat. No.	NAED/DCI No. 78-3310-	Description	555R	555E	555I	28007	23802	23816	26330
	555	10105	Power Unit Only	1	1	1				
	23818	23818	Storage Box (not shown)		1	1		1	1	1
	52397	52397	Hinge Pin (2)	2	2	2				
			½"-2" RIGID BENDING ACCESSORIES							
A	**17935**	13670	½" thru 1-¼" Rigid Bending Shoe	1			1			
B	**17979**	13674	Roller Support Unit for ½" thru 1-¼"	1			1			
C	**17937**	13672	1-½" and 2" Rigid Bending Shoe	1			1			
D	**17984**	13676	Roller Support Unit for 1-½" & 2"	1			1			
			½"-2" EMT BENDING ACCESSORIES							
E	**17944**	12005	½" thru 1-¼" (EMT) Bending Shoe		1			1		
F	**17986**	12305	Roller Support Unit for ½" thru 1-¼"		1			1		
G	**23499**	05010	1-½" (EMT) Bending Shoe		1			1	1	
H	**23505**	05011	2" (EMT) Bending Shoe		1			1	1	
I	**23541**	05012	Roller Support Unit for 1-½" & 2"		1			1	1	
			1-½" and 2" IMC BENDING ACCESSORIES							
J	**25263**	25263	1-½" IMC Bending Shoe			1				1
K	**25268**	25268	2" IMC Bending Shoe			1				1
L	**25273**	25273	Roller Support Unit for 1-½" and 2"			1				1

CENTERLINE RADIUS

	Conduit Size					
	1/2"	3/4"	1"	1-1/4	1-1/2"	2"
EMT	4-1/4"	5-3/8"	6-3/4"	8-3/4"	8-9/32"	9-3/16"
RIGID	4-3/8"	4-1/2"	5-3/4"	7-1/4	8-1/4"	9-1/2"
IMC	—	—	—	—	8-9/32"	9-3/16"

U.S.A. PATENT NOS. 4568864, 3949584, 3949584

GREENLEE® Benders for EMT, IMC and Rigid



882CB Combi® Bender
for 1-¼, 1-½ & 2" EMT, IMC & Rigid

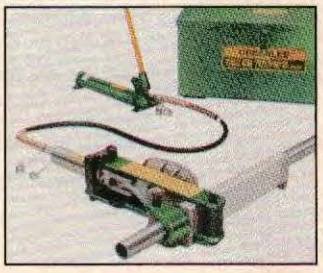
882 Flip Top® Bender
for 1-¼, 1-½ & 2" EMT

- Simple, accurate and easy to operate.
- Flip-Top® hinged side for fast, easy loading and unloading.
- Buy the 882CB Combi® for EMT, IMC and Rigid complete . . . or buy the 882 Flip-Top® for EMT only and add the IMC/Rigid Shoe Group when needed.
- Hydraulic power with choice of 755 Hand Pump, 915 Power Pump or new 975 Power Pump.

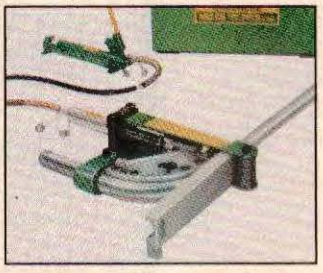
Easy to operate 882 Series Benders



1. Load — Hinged top on frame swings out of the way for fast loading of conduit.



2. Close — Close and latch the hinged top before starting bend.



3. Bend — Connect the hand or power pump and bend conduit to desired angle.



4. Unload — Flip up the hinged top so bent conduit can be unloaded quickly.

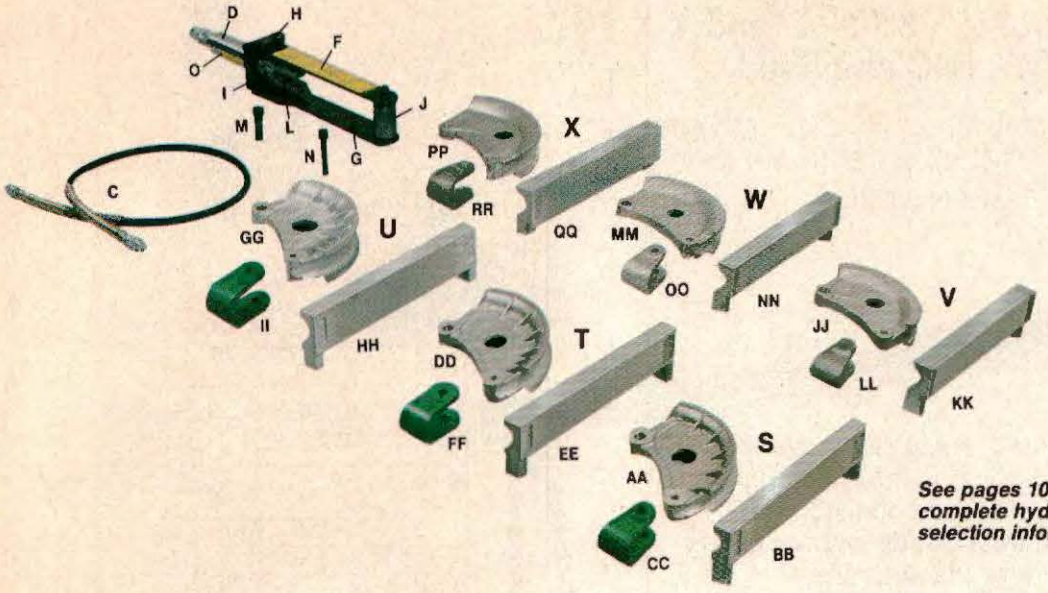
882CB Combi® Benders

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
882CB (without pump)	10219	**COMBI Bender for 1-¼, 1-½ and 2" EMT, IMC and Rigid Conduit,** without pump.	205
882CB-H755 (with pump)	10227	**COMBI Bender for 1-¼, 1-½ and 2" EMT, IMC and Rigid Conduit,** with 755 Hydraulic Hand Pump.	217
882CB-E915 (with pump)	10229	**COMBI Bender for 1-¼, 1-½ and 2" EMT, IMC and Rigid Conduit,** with 915 PS Hydraulic Power Pump.	235
882CB-E975 (with pump)	34202	**COMBI Bender for 1-¼, 1-½ and 2" EMT, IMC and Rigid Conduit,** with the new 975 Hydraulic Power Pump.	264

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
882 (without pump)	22220	**FLIP-TOP® Bender for 1-¼, 1-½ and 2" EMT Conduit,** without pump.	141
882-H755 (with pump)	10220	**FLIP-TOP® Bender for 1-¼, 1-½ and 2" EMT Conduit,** with 755 Hydraulic Hand Pump.	161
882-E915 (with pump)	10225	**FLIP-TOP® Bender for 1-¼, 1-½ and 2" EMT Conduit,** with 915 PS Hydraulic Power Pump.	166
882-E975 (with pump)	34201	**FLIP-TOP® Bender for 1-¼, 1-½ and 2" EMT Conduit,** with the new 975 Hydraulic Power Pump.	195
882RI-G1	11816	**Conversion Attachment Set 1-¼, 1-½ and 2" IMC and Rigid Conduit.** Converts 882 EMT Bender* into a new COMBI 882CB Bender.	63

To convert old style 882 EMT Benders with serial numbers FT 266660 or lower, you must also order 2 4726 Roller Pin Unit in addition to 882RI-G1 Conversion Attachment Set.

882CB Combi® and 882 Flip-Top® Benders



Combine 882 or 882CB with the hydraulic pump suited to your needs.



See pages 107 and 109 for complete hydraulic pump selection information.

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	882CB	882	882RI-G1
A	755	12805	755 Hydraulic Hand Pump with 4018GB female quick coupler	882CB-H755	882-H755	—
B	915PS	12825	915PS Hydraulic Power Pump with 4018GB female quick coupler	882CB-E915	882-E915	—
B1	975	33516	975 Hydraulic Power Pump with 4018GB female quick coupler	882CB-E975	882-E975	—
C	1 1289	12905	⅜" x 6' High Pressure Hose with two 4033GB male quick couplers	1	1	—
D	1738	31084	12-ton Hydraulic Ram with 4018GB female quick coupler	1	1	—
E	1 6563	16563	Frame Unit (includes Keys F thru J)	1	1	—
F	1 5136	15136	Upper Connecting Plate Unit	1	1	—
G	1 5135	15135	Lower Connecting Plate Unit	1	1	—
H	1 5150	13530	Hinge Pin	1	1	—
I	5 0283	50283	Retaining Ring	2	2	—
J	2 4726	24726	Roller Unit	1	1	—
L	1 5145	15145	Yoke	1	1	—
M	794AV	32080	Yoke Pin	1	1	—
N	2 9937	32085	Saddle Pin	1	1	1
	5 0848	50848	Scale Jam Nut	1	1	—
	5 2867	52867	Scale O-Ring	1	1	—
O	2 1954	21954	Scale Piston	1	1	—
P	667	11165	Steel Storage Box (not shown)	1	1	—
S	RI-G20	29946	**1-¼" IMC and Rigid Shoe Group - 7-¼" Centerline Radius** (consists of AA, BB and CC)			
AA	2 9474	29474	1-¼" IMC and Rigid Shoe	1	—	1
BB	2 9477	29477	1-¼" IMC and Rigid Follow Bar	1	—	1
CC	2 9465	29465	1-¼" IMC and Rigid Saddle	1	—	1
T	RI-G24	29949	**1-½" IMC and Rigid Shoe Group - 8-¼" Centerline Radius** (consists of DD, EE and FF)			
DD	2 9470	29470	1-½" IMC and Rigid Shoe	1	—	1
EE	2 9472	29472	1-½" IMC and Rigid Follow Bar	1	—	1
FF	2 9464	29464	1-½" IMC and Rigid Saddle	1	—	1
U	RI-G32	29950	**2" IMC and Rigid Shoe Group - 8-⅞" Centerline Radius** (consists of GG, HH and II)			
GG	2 9466	29466	2" IMC and Rigid Shoe	1	—	1
HH	2 9468	29468	2" IMC and Rigid Follow Bar	1	—	1
II	2 9463	29463	2" IMC and Rigid Saddle	1	—	1
V	T-G7	06280	**1¼" EMT Shoe Group - 7-7/32" Centerline Radius** (consists of JJ, KK and LL)			
JJ	1 1146	13446	1-¼" EMT Shoe	1	1	—
KK	1 1126	13430	1-¼" EMT Follow Bar	1	1	—
LL	1 1075	13370	1-¼" EMT Saddle	1	1	—
W	T-G8	06282	**1-½" EMT Shoe Group - 8-1/16" Centerline Radius** (consists of MM, NN and OO)			
MM	1 4287	13456	1—½" EMT Shoe	1	1	—
NN	1 1107	13405	1—½" EMT Follow Bar	1	1	—
OO	1 1072	13360	1—½" EMT Saddle	1	1	—
X	T-G9	06284	**2" EMT Shoe Group - 9-5/16" Centerline Radius** (consists of PP, QQ and RR)			
PP	1 1132	13438	2" EMT Shoe	1	1	—
QQ	1 1089	13395	2" EMT Follow Bar	1	1	—
RR	1 4279	13365	2" EMT Saddle	1	1	—

GREENLEE® Benders for EMT, IMC and Rigid



Shown is 881CT with 4" one shot shoe on optional 1813 Bending Table (see page 18).

881 Benders

for 2-½", 3", 3-½" and 4" EMT, IMC and Rigid

- Bend 2-½"-4" EMT, IMC and Rigid up to 90° in one shot.
- Fast, easy setup.
- Simple to use ram travel scale and bending information decals help assure consistently accurate bends without guess-work or trial and error.
- Flexible, buy to suit your bending needs.

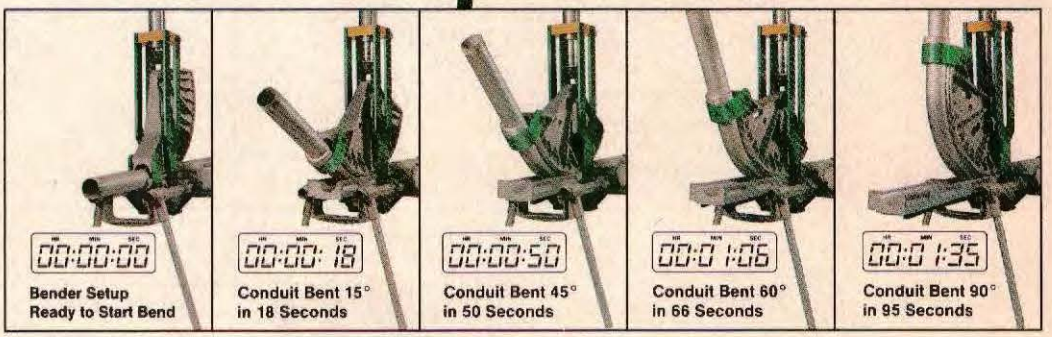


881 SERIES BENDERS CAPACITY CHART

Bender No.	One Shot 90° Shoes				45° Shoes 2 Shot 90°	
	2-½"	3"	3-½"	4"	3-½"	4"
881CT	X	X	X	X	—	—
881	X	X	—	—	X	X
881D	X	X	—	—	—	X
881G	X	X	—	—	—	—

Bend 4" conduit 90° in half the time . . . in one shot

881 CAM TRACK® Bender shown in use on optional 1813 Bending Table bending 4" rigid conduit.

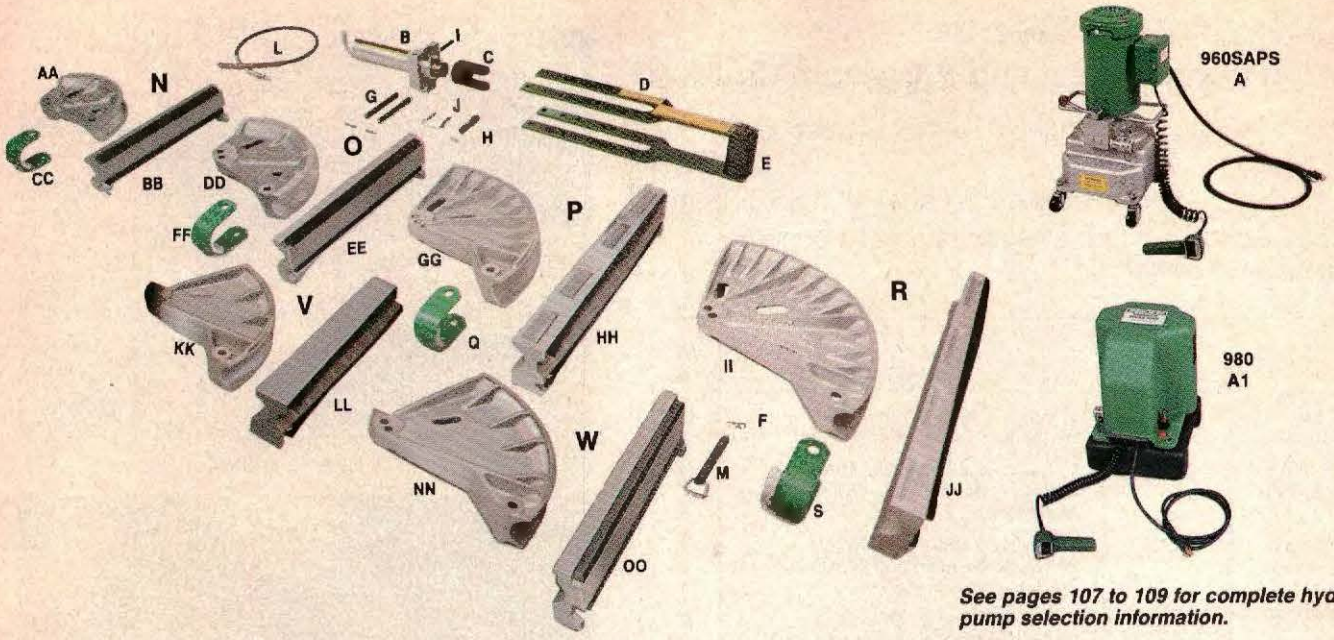


Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
881CT (without pump)	10365	**Cam Track® Hydraulic Bender for One Shot 90° Bends** in 2-½", 3", 3-½", and 4" EMT, IMC and Rigid Conduit, without pump.	921
881CTE960 (with pump)	10370	**Cam Track® Hydraulic Bender for One Shot 90° Bends** in 2-½", 3", 3-½", and 4" EMT, IMC and Rigid Conduit, with 960 Hydraulic Power Pump.	1013
881CTE980 (with pump)	34208	**Cam Track® Hydraulic Bender for One Shot 90° Bends** in 2-½", 3", 3-½", and 4" EMT, IMC and Rigid Conduit, with new 980 Hydraulic Power Pump.	999
881 (without pump)	10350	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 3-½" and 4" EMT, IMC and Rigid Conduit, without pump.	856
881E960 (with pump)	10216	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 3-½" and 4" EMT, IMC and Rigid Conduit, with 960 Hydraulic Power Pump.	948
881E980 (with pump)	34205	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 3-½" and 4" EMT, IMC and Rigid Conduit, with new 980 Hydraulic Power Pump.	934
881D (without pump)	10354	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 4" EMT, IMC and Rigid Conduit, without pump.	725
881DE960 (with pump)	10217	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 4" EMT, IMC and Rigid Conduit, with 960 Hydraulic Power Pump.	817

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
881DE980 (with pump)	34207	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3", **Two Shot 90° Bends** in 4" EMT, IMC and Rigid Conduit, with new 980 Hydraulic Power Pump.	803
881G (without pump)	31660	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3" EMT, IMC and Rigid Conduit, without pump.	571
881GE960 (with pump)	31661	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3" EMT, IMC and Rigid Conduit, with 960 Hydraulic Power Pump.	663
881GE980 (with pump)	34206	**Hydraulic Bender for One Shot 90° Bends** in 2-½" and 3" EMT, IMC and Rigid Conduit, with new 980 Hydraulic Power Pump.	649
3 1289*	31289	**Cam Track® One Shot 90° Shoes and Follow Bars** for 3-½" and 4" EMT, IMC and Rigid Conduit, includes 628 Storage Box.	504
3 1281*	31281	**Cam Track® One Shot 90° Shoe and Follow Bar** for 3-½" EMT, IMC and Rigid Conduit.	172
3 1274*	31274	**Cam Track® One Shot 90° Shoe and Follow Bar** for 4" EMT, IMC and Rigid Conduit.	183
881A	10358	**Conversion Set. Converts 884, 885, 885T and 885T IMC Benders to Bend One Shot 90°** in 2-½" and 3", **Two Shot 90°** in 3-½" and 4" EMT, IMC and Rigid Conduit.	789

***NOTE:** Cam Track shoe groups do not include saddles. Use existing saddles or order the following: 3-½" Saddle - Cat. No. 26588; 4" Saddle - Cat. No. 26594

U.S.A. PATENT NO. 4537052



See pages 107 to 109 for complete hydraulic pump selection information.

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	881CT	881	881D	881G	31289	881A
A	960SAPS	12840	960SAPS Hydraulic Power Pump with 4018GB female quick-coupler	881CTE 960	881E 960	881DE 960	881GE 960	—	—
A1	980	33515	980 Hydraulic Power Pump with 4018GB female quick coupler	881CTE 980	881E 980	881DE 980	881GE 980	—	—
B	2 7416	27416	40-Ton Ram with 4018GB female quick-coupler. The ram includes Key G, two clips from Key F, and Key I.	1	1	1	1	—	—
C	3 0309	30309	Yoke	1	1	1	1	—	1
D	2 6309	26309	Connecting Bar Unit	2	2	2	2	—	2
E	2 7364	27364	Roller Unit - The roller unit includes two clips from Key F	1	1	1	1	—	1
F	2725AA	50302	Hitch Pin Clips	6	6	6	6	—	5
G	2 7381	27381	Cylinder Block Pin Unit	2	2	2	2	—	2
H	2 6306	26306	Yoke Pin	1	1	1	1	—	1
I	2 7417	27417	Cylinder Block	—	1	1	—	—	1
J	2 6349	26349	Spring Clip (Secures Yoke Unit to Ram)	1	1	1	1	—	1
L	1 1289	12905	⅛" x 6' High-Pressure Hose with two 4033GB male quick-couplers	1	1	1	1	—	—
M	2 6624	26624	Saddle Pin Unit - includes 1 clip from Key F	1	1	1	1	—	1
N	2 7554	27554	**2-½" Shoe Group - 13-½" Centerline Bending Radius** (Consists of Keys AA, BB and CC.)						
AA	2 6297	26297	2-½" Shoe	1	1	1	1	—	1
BB	2 6366	26366	2-½" Follow Bar	1	1	1	1	—	1
CC	2 6580	26580	2-½" Saddle	1	1	1	1	—	1
O	2 7555	27555	**3" Shoe Group - 16" Centerline Bending Radius** (Consists of Keys DD, EE and FF.)						
DD	2 6300	26300	3" Shoe	1	1	1	1	—	1
EE	2 6376	26376	3" Follow Bar	1	1	1	1	—	1
FF	2 6584	26584	3" Saddle	1	1	1	1	—	1
P	3 1281	31281	**3-½" One Shot Shoe Group - 18-⅝" Centerline Bending Radius** (Consists of Keys GG and HH.) Order saddle (Key Q) separately						
GG	3 1882	31882	3-½" Shoe	1	—	—	—	1	—
HH	3 1881	31881	3-½" Follow Bar	1	—	—	—	1	—
Q	2 6588	26588	3-½" Saddle	1	—	—	—	—	—
R	3 1274	31274	**4" One Shot Shoe Group - 20-⅞" Centerline Bending Radius** (Consists of Keys II and JJ.) Order saddle (Key S) separately						
II	3 1884	31884	4" Shoe	1	—	—	—	1	—
JJ	3 1883	31883	4" Follow Bar	1	—	—	—	1	—
S	2 6594	26594	4" Saddle	1	—	—	—	—	—
V	2 7556	27556	**3-½" Shoe Group - 18-⅝" Centerline Bending Radius** (Consists of Keys KK, LL and Q.)						
KK	2 6302	26302	3-½" Shoe	—	1	—	—	—	1
LL	2 6389	26389	3-½" Follow Bar	—	1	—	—	—	1
Q	2 6588	26588	3-½" Saddle	—	1	—	—	—	1
W	2 7557	27557	**4" Shoe Group - 21" Centerline Bending Radius** (Consists of Keys NN, OO, and S.)						
NN	2 6305	26305	4" Shoe	—	1	1	—	—	1
OO	3 1292	31292	4" Follow Bar	—	1	1	—	—	1
S	2 6594	26594	4" Saddle	—	1	1	—	—	1
	628	11152	Steel Storage Box (not shown)	1	1	1	1	1	1
	695	10818	Caster Set (not shown)	1	1	1	1	—	1

880 Hydraulic Bender

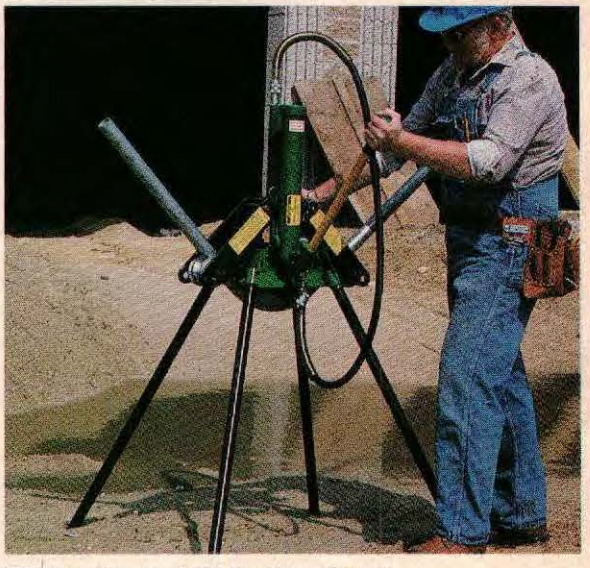
For 1" - 2" Rigid Steel and Aluminum Conduit

- Lightweight . . . only 36 lbs. (without shoes and pump).
- Optional shoe available for ½" and ¾" rigid conduit.
- 1880 Bending Stand available to make bending faster and easier.

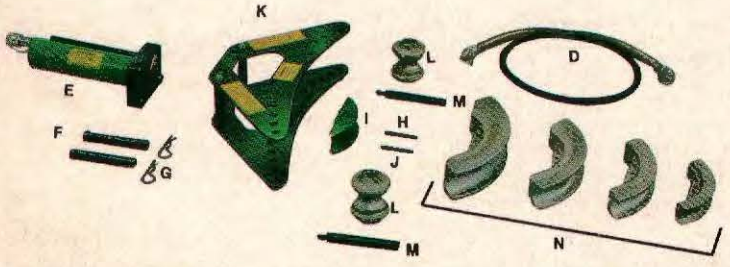
Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
880 (without pump)	31055	**1, 1-¼, 1-½ and 2" One-Shot Hydraulic Bender,** without pump.	113
880H755 (with pump)	10200	**1, 1-¼, 1-½ and 2" One-Shot Hydraulic Bender,** with 755 Hydraulic Hand Pump.	129
880E915 (with pump)	10205	**1, 1-¼, 1-½ and 2" One-Shot Hydraulic Bender,** with 915PS Hydraulic Power Pump.	143
880E975 (with pump)	34200	**1, 1-¼, 1-½ and 2" One-Shot Hydraulic Bender,** with the new 975 Hydraulic Power Pump.	172
880E960 (with pump)	10215	**1, 1-¼, 1-½ and 2" One-Shot Hydraulic Bender,** with 960SAPS Hydraulic Power Pump.	205
1880	10310	**Bending Stand for 880.** Includes 2 side plates. 1" rigid legs not included.	8



880 Bender with 975 Hydraulic Power Pump



880 Bender on 1880 Bending Stand

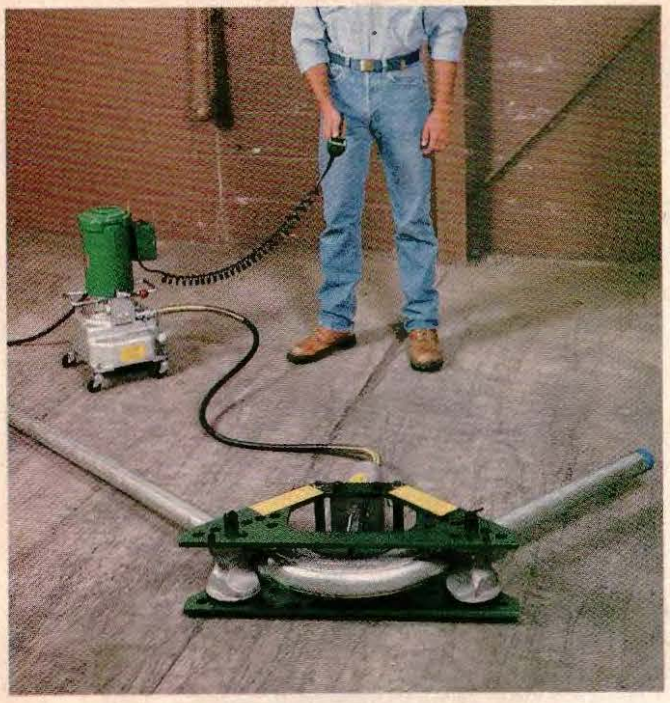


Key	Cat. No.	NAED/DCI No. 78-3310-	Description	880
A	755	12805	755 Hydraulic Hand Pump with 4018GB female quick coupler	880H 755
B	915PS	12825	915PS Hydraulic Power Pump with 4018GB female quick coupler	880E 915
B1	975	33516	975 Hydraulic Power Pump with 4018GB female quick coupler	880E 975
C	960SAPS	12840	960SAPS Hydraulic Power Pump with 4018GB female quick coupler	880E 960
D	1 1289	12905	⅜" x 6' High Pressure Hose with two 4033GB male quick couplers	1
E	747	10321	15-Ton Ram with 4018GB female quick coupler, includes Keys F thru H	1
F	1 5829	15829	Cylinder head pin unit with spring clip 2725AA (Key G)	2
G	2725AA	50302	Spring clips	2
H	1 0826	13302	Ram pin	1
I	1 0939	13310	Small shoe support (½" thru 2")	1
J	1 0826	13302	Shoe pin	1
K	2345AA	03396	Frame unit	1
L	2349AA	31230	Pipe supports	2
M	1 3679	13514	Pipe support pin	2
N			90° Aluminum Bending Shoes	
	1 0917	12205	½" Shoe — 4" centerline radius (optional)	—
	1 0918	12210	¾" Shoe — 4-½" centerline radius (optional)	—
	1 0919	12215	1" Shoe — 5-¾" centerline radius	1
	1 0920	12220	1-¼" Shoe — 7-¼" centerline radius	1
	1 0921	12225	1-½" Shoe — 8-¼" centerline radius	1
	1 0922	12230	2" Shoe — 9-½" centerline radius	1
O	1 4909	14909	Steel Storage Box (Not Shown)	1

Choice of Hydraulic Pumps:



See pages 107 to 109 for complete hydraulic pump selection information.

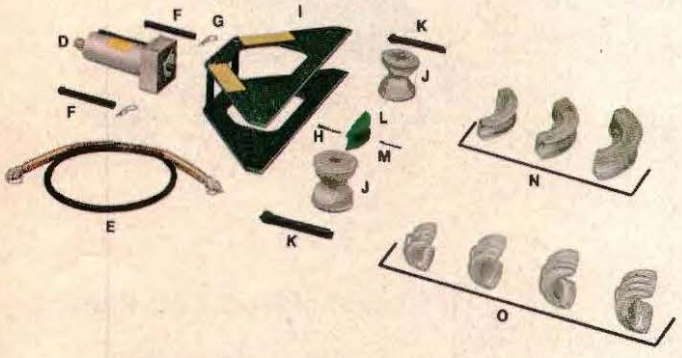


777 Hydraulic Bender

For 1-¼-4" Rigid Steel & Aluminum Conduit

- One shot bends 1-¼" - 2".
- Segment bends 2-½" - 4".
- Lightweight . . . only 65 lbs. (without shoes).
- Universal pipe support indexes to fit all sizes.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
777 (without pump)	10145	**1-¼" thru 2" One-Shot and Segment 2-½ thru 4" Hydraulic Bender** without pump.	164
777HC755 (with pump)	10125	**1-¼ thru 2" One-Shot and Segment 2-½ thru 4" Hydraulic Bender** with 755 Hydraulic Hand Pump.	182
777EC915 (with pump)	10130	**1-¼ thru 2" One-Shot and Segment 2-½ thru 4" Hydraulic Bender** with 915 PS Hydraulic Power Pump.	194
777EC975 (with pump)	34198	**1-¼ thru 2" One-Shot and Segment 2-½ thru 4" Hydraulic Bender** with the new 975 Hydraulic Power Pump.	223
777EC960 (with pump)	10140	**1-¼ thru 2" One-Shot and Segment 2-½ thru 4" Hydraulic Bender** with 960SAPS Hydraulic Power Pump.	256



Key	Cat. No.	NAED/DCI No. 78-3310-	Description	777
A	755	12805	755 Hydraulic Hand Pump with 4018GB female quick coupler	777HC 755
B	915PS	12825	915PS Hydraulic Power Pump with 4018GB female quick coupler	777EC 915PS
B1	975	33516	975 Hydraulic Power Pump with 4018GB female quick coupler	777E 975
C	960SAPS	12840	960SAPS Hydraulic Power Pump with 4018GB female quick coupler	777EC 960
D	1736	13251	27-Ton Ram with 4018GB female quick coupler, includes Keys F thru H	1
E	1 1289	12905	⅜" x 6' High Pressure Hose with two 4033GB male quick couplers	1
F	1 3252	13504	Cylinder head pin unit with spring clip 2725AA (Key G)	2
G	2725AA	50302	Spring clip	2
H	1 0826	13302	Ram pin	1
I	1 3232	13232	Frame unit	1
J	1 3193	13496	Pipe support	2
K	1 4496	13500	Pipe support pin	2
L	1 0939	13310	Small shoe support (½" thru 2")	1
M	1 0826	13302	Shoe pin	1
N			**90° Aluminum Bending Shoe**	
	1 0920	12220	1-¼" Shoe — 7-¼" centerline radius	1
	1 0921	12225	1-½" Shoe — 8-¼" centerline radius	1
	1 0922	12230	2" Shoe — 9-½" centerline radius	1
O			**Aluminum Segment Bending Shoe**	
	1 3208	12070	2-½" Shoe — 11-7/16" centerline radius	1
	1 3209	12075	3" Shoe — 13-¾" centerline radius	1
	1 3210	12080	3-½" Shoe — 16" centerline radius	1
	1 3211	12085	4" Shoe — 18-¼" centerline radius	1
P	1 3382	13382	Steel Storage Box (Not Shown)	1

Choice of Hydraulic Pumps:



See pages 107 to 109 for complete hydraulic pump selection information.

884 Hydraulic Bender

For 1-¼ thru 4" Rigid Steel & Aluminum Conduit

One Shot Bends 1-¼ thru 4"

885 Hydraulic Bender

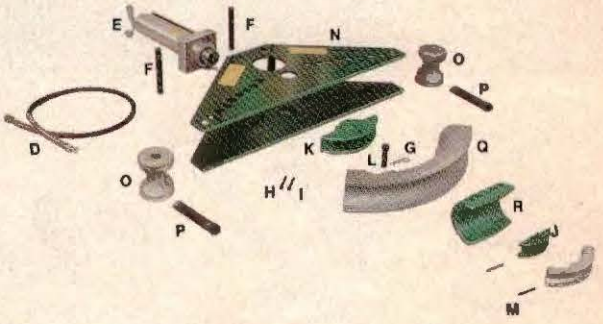
For 1¼ thru 5" Rigid Steel & Aluminum Conduit

One Shot Bends 1-¼ thru 4" — Segment Bends 5".

- Quickly bends rigid steel and aluminum conduit. Optional ductile iron 90° bending shoes bend 1 thru 4" sizes of Schedules 80 and 120 pipe, 1 thru 3" Schedule 160 and Double X.
- Makes economical elbows, "kicks" and offsets that cannot be purchased.



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
884 (without pump)	10274	**1-¼ thru 4" One-Shot Hydraulic Bender,** without pump.	416
884E960 (with pump)	10275	**1-¼ thru 4" One-Shot Hydraulic Bender,** with 960SAPS Hydraulic Power Pump.	508
884E980 (with pump)	34209	**1-¼ thru 4" One-Shot Hydraulic Bender,** with the new 980 Hydraulic Power Pump.	494
884H1726 (with pump)	10285	**1-¼ thru 4" One-Shot Hydraulic Bender,** with 1726 Hydraulic Hand Pump.	448
885 (without pump)	10300	**1-¼ thru 4" One-Shot and 5" Segment Hydraulic Bender** without pump.	449
884E960 (with pump)	10305	**1-¼ thru 4" One-Shot and 5" Segment Hydraulic Bender** with the 960SAPS Hydraulic Pump.	541
885E980 (with pump)	34210	**1-¼ thru 4" One-Shot and 5" Segment Hydraulic Bender** with the new 980 Hydraulic Pump	527
885H1726 (with pump)	10315	**1-¼ thru 4" One-Shot and 5" Segment Hydraulic Bender** with 1726 Hydraulic Hand Pump.	497



Key	Cat. No.	NAED/DCI No. 78-3310-	Description	884	885
A	960SAPS	12840	960SAPS Hydraulic Power Pump with 4018GB female quick coupler	884E 960	885E 960
B	980	33515	980 Hydraulic Power Pump with 4018GB female quick coupler	884E 980	885E 980
C	1726	12815	1726 Hydraulic Hand Pump with 4018GB female quick coupler	884H 1726	885H 1726
D	1 1289	12905	⅜" x 6' High Pressure Hose with two 4033GB male quick couplers	1	1
E	1737	31082	40-Ton Ram with 4018GB female quick coupler, includes Keys F through I	1	1
F	1 6753	13578	Cylinder head pin unit with spring clip 2725AA	2	2
G	2725AA	50302	Spring clip	2	2
H	1 0826	13302	Ram pin	1	1
I	1 0946	13320	Large ram pin	2	2
J	1 0939	13310	Small shoe support (½" thru 2")	1	1
K	1 6741	13570	Large shoe support (2-½" thru 4")	1	1
L	1 0963	13325	Large shoe pin	1	1
M	1 0826	13302	Small shoe pin	1	1
N	1 6754	16754	Frame unit	1	1
O	1 5671	15671	Pipe support	2	2
P	1 6747	16747	Pipe support pin	2	2
Q			**90° Aluminum Bending Shoe**		
	1 0920	12220	1-¼" Shoe - 7-¼" centerline radius	1	1
	1 0921	12225	1-½" Shoe - 8-¼" centerline radius	1	1
	1 0922	12230	2" Shoe - 9-½" centerline radius	1	1
	1 0923	12235	2-½" Shoe - 12-½" centerline radius	1	1
	1 0924	12240	3" Shoe - 15" centerline radius	1	1
	1 0925	12245	3-½" Shoe - 17-½" centerline radius	1	1
	1 4265	12250	4" Shoe - 20" centerline radius	1	1
			Segment Bending Shoe		
R	1 5669	12090	5" Shoe - 25" centerline radius (optional on 884)	—	1
S	1 9811	19811	Steel Storage Box (not shown)	1	1

Choice of Hydraulic Pumps:







See pages 107 to 109 for complete hydraulic pump selection information.

782 Hydraulic Tubing Bender

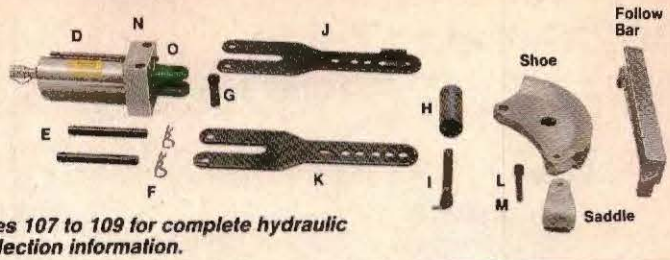






- Bends ¾" thru 2-⅛" O.D. Tubing — ½" thru 2" Pipe (Not for EMT).
- Makes accurate, smooth bends, without kinking, wrinkling or crushing.
- One full stroke of the ram makes a 90° bend.
- Bender and shoe groups available individually only... Buy only what you need.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
782 (without pump)	35125	**½ thru 2" Hydraulic Pipe/ Tubing Bender** without pump. (Shoes, follow bars, and saddles not included).	124
782H755 (with pump)	35140	**½ thru 2" Hydraulic Pipe/ Tubing Bender** complete with 755 Hydraulic Hand Pump. (Shoes, follow bars, and saddles not included).	143
782E915 (with pump)	35130	**½ thru 2" Hydraulic Pipe/ Tubing Bender** same as above except with 915PS Hydraulic Power Pump. (Shoes, follow bars, and saddles not included).	162
782E975 (with pump)	34199	**½ thru 2" Hydraulic Pipe/ Tubing Bender** same as above except with 975 Hydraulic Power Pump. (Shoes, follow bars, and saddles not included).	191
TUG1	06286	**Bending Attachment Set** converts 880 Bender to a 782 Pipe/Tubing Bender. (Shoes, follow bars, and saddles not included).	33
TUG2	06288	**Bending Attachment Set** converts 777 or 883 Bender to a 782 Pipe/Tubing Bender. (Shoes, follow bars, and saddles not included).	34



See pages 107 to 109 for complete hydraulic pump selection information.

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	782	TUG1	TUG2
A	755	12805	755 Hydraulic Hand Pump with 4018GB female quick coupler.	782H755	—	—
B	915PS	12825	915PS Hydraulic Power Pump with 4018GB female quick coupler.	782E915	—	—
B1	975	33516	975 Hydraulic Power Pump with 4018GB female quick coupler.	782E975	—	—
C	1 1289	12905	⅜" x 6' High-pressure hose with two 4033GB male quick couplers.	1	—	—
D	1736	13251	27 Ton Ram with 4018GB female quick coupler includes Keys E thru G	1	—	—
E	1 3252	13504	Cylinder pin unit (includes Key F)	2	—	—
F	2725AA	50302	Spring clip	1	—	—
G	1 0826	13302	Ram pin	1	—	—
H	1 4094	13520	Roller	1	—	1
I	1 4496	13500	Roller pin	1	—	—
J	973AA	13718	Upper connecting bar	1	1	1
K	1870AA	11083	Lower connecting bar	1	1	1
L	955AA	13722	Saddle pin for 1½ and 2"	1	—	—
M	2 9937	32085	Saddle pin for ½ thru 1-¼"	1	1	1
N	794AV	32080	Yoke pin	1	1	1
O	801AV	32090	Yoke	1	1	1
	667	11165	Steel storage box (not shown)	—	—	—
	1 1163	02928	Roller	—	1	—
	1 0944	13316	Roller Pin	—	1	—
	1 3230	13500	Roller Pin	—	—	1

SHOES, FOLLOW BARS AND SADDLES

TUBING **For brass, copper, and aluminum tubing with 1/16" minimum wall thickness. (Not for use with chrome moly tubing or pipe.)**

Also ¾" thru 1-½" O.D. bendable stainless steel tubing with wall thickness from .065 to .150"

COMPLETE UNIT Shoe, Follow Bar and Saddle				INDIVIDUAL PARTS		
Tubing O.D. Size	Shoe Radius	Cat. No.	NAED/ DCI No. 78-3310-	Shoe Cat. No.	Follow Bar Cat. No.	Saddle Cat. No.
3/4"	3-27/64"	TU G3	06290	1 1151	1 4280	1 6444
7/8"	3-27/64"	TU G4	06292	1 1150	1 1086	1 6445
1"	4-5/16"	TU G5	06294	1 1142	1 1117	1 6403
1-1/8"	4-5/16"	TU G6	06296	1 1144	1 1119	1 6413
1-1/4"	5-5/8"	TU G7	06298	1 1160	1 1124	1 6414
1-3/8"	5-5/8"	TU G8	06300	1 1159	1 1131	1 6415
1-1/2"	7-3/16"	TU G9	06302	1 1149	1 1129	1 6416
1-5/8"	7-3/16"	TU G10	06304	1 1148	1 1128	1 1080
1-3/4"	8-1/32"	TU G11	06306	2 0525	2 0526	1 6417
1-7/8"	8-1/32"	TU G12	06308	1 1156	1 1111	1 6443
2"	8-1/32"	TU G13	06310	1 1155	1 1109	1 1071
2-1/8"	9-17/64"	TU G14	06312	1 1133	1 1104	1 1070

PIPE **For ½ thru 2" Schedule 40 pipe, Schedule 40S stainless, Schedule 10S bendable stainless, and ½ thru 1-¼" Schedule 5S bendable stainless.**

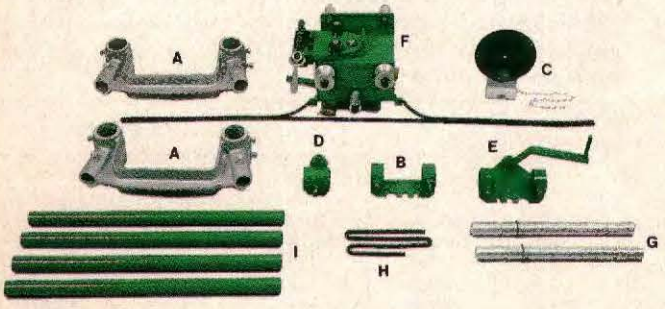
COMPLETE UNIT Shoe, Follow Bar and Saddle				INDIVIDUAL PARTS		
1/2 and 3/4" shoes are aluminum. 1 thru 2" are ductile iron.						
Pipe Size	Shoe Radius	Cat. No.	NAED/ DCI No. 78-3310-	Shoe Cat. No.	Follow Bar Cat. No.	Saddle Cat. No.
1/2"	3-7/8"	782R G2	10148	1 3742	1 3743	1 1078
3/4"	4-9/32"	782R G3	10152	930AA	931AA	932AA
1"	4-7/8"	782R G4	10156	933AA	934AA	935AA
1-1/4"	5-5/8"	782R G5	10159	1283AA	965AA	958AA
1-1/2"	8-3/16"	782R G6	10160	964AA	966AA	959AA
2"	9-7/16"	782R G7	10166	950AA	967AA	962AA

1802 Bending Table

For 777, 880, 883, 884 and 885 Benders



- Makes concentric, offset, large radius and one-shot bends
- Handles one-shot bends thru 4", segment bends thru 5" conduit.
- Compact, Easy to Move, Easy to Store. With legs removed, parts of the Bending Table are stored in the all-steel storage box . . . 14" high, 18" deep, and 31" long. You furnish the two 10' lengths of 2" conduit for the bed of the machine.
- No Wows or Dog Legs. Pipe vise holds conduit and pipe securely for accurate bends . . . prevents conduit from twisting or turning. Crank and chain feed mechanism advances pipe in bender to correct layout mark. No more leveling of conduit or pipe after each bend.
- Bending Degree Protractor. Face of protractor rotates to compensate for any surface that is not level. Protractor dial is graduated in quadrants of 18, 20, 21, and 22 shots.

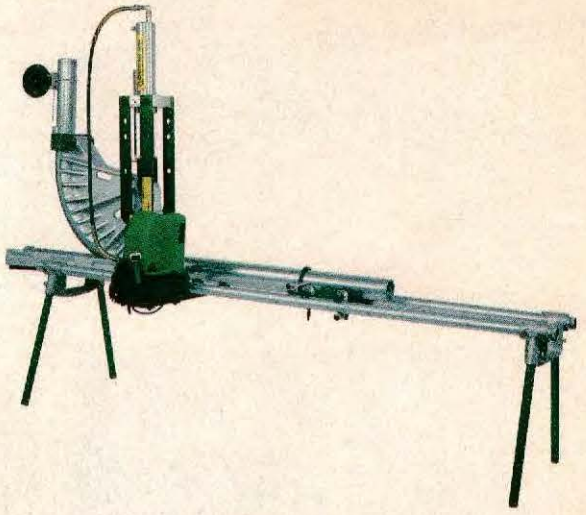


NOTE: Conduit for bed not furnished. Use two 10' lengths of 2" rigid conduit for bed.

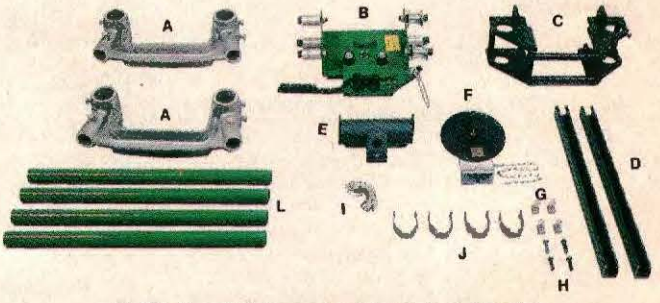
Key	Cat. No.	NAED/ DCI No. 78-3310-	Description	Qty.	Wt./ Lbs.
	1802	12700	**Bending Table Complete** (Includes items A thru J)		160
A	**2 1541**	21541	Leg Support Unit	2	
B	**2 1545**	21545	Bender Bracket Unit	1	
C	**1805**	12710	Bending Degree Protractor	1	
D	**2 1542**	21542	Chain Idler Unit	1	
E	**2 1543**	21543	Crank Bracket Unit	1	
F	**2 1544**	21544	Pipe Vise Unit	1	
G	**2 1360**	21360	Pipe Support Pin — 1-½" for 884 & 885 Bender	2	
H	**2 1413**	21413	Chain Extension Kit	1	
I	**2 1346**	21346	Legs	4	
J	**667**	11165	Storage Box	1	
	2 1359	21359	Pipe Support Pin — 1" for 777, 883 and 883-4 Bender (Optional) (Not shown)	2	
	2 1357	21357	Pipe Support Pin — 3/4" for 880 Bender (Optional) (Not shown)	2	

1813 Bending Table

for 881 Benders



- Reduces Time and Effort. Converts your Greenlee 881 Bender into a comfortable, bench-high machine . . . reduces operator fatigue . . . makes loading faster, easier.
- Offset and one-shot bends in all four types of conduit are made quickly and easily with consistent accuracy.
- No Wows or Dog Legs. Pipe vise holds conduit and pipe securely for accurate bends . . . prevents conduit from twisting or turning during bend.
- Easy to move and store. Parts are stored in compact 31" x 18" x 14" metal storage box.

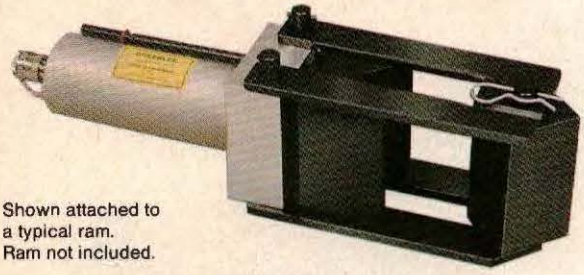


NOTE: Conduit for bed not furnished. Use two 10' lengths of 2" rigid conduit for bed.

Key	Cat. No.	NAED/ DCI No. 78-3310-	Description	Qty.	Wt./ Lbs.
	1813	35090	**Bending Table Complete** (Includes the items listed below)		186
A	**2 1541**	21541	Leg Support Unit	2	
B	**2 8900**	28900	Carriage Unit w/vise	1	
C	**2 8885**	28885	Bender Mounting Unit	1	
D	**2 9004**	29004	Pump Table Support	2	
E	**2 9022**	29022	Ram Positioner	1	
F	**1805**	12710	Bending Degree Protractor	1	
G	**5 3013**	53013	Spring Nut	4	
H	**5 0533**	50533	Pump Mounting Screw	4	
I	**2 9014**	29014	90° Coupling Unit	1	
J	**5 3014**	53014	Steel Conduit Clamp	4	
L	**2 1346**	21346	Legs	4	
	667	11165	Storage Box (Not shown)	1	

Bus Bar Bending Attachments

Make offsets, 90° and "U" bends in up to 1" x 6" copper bus bar



Shown attached to a typical ram. Ram not included.

Bus Bar Bending Attachments

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
BBG1	12405	**¾" x 4" Bus Bar Bending Attachments** for 777 and 883-4 Benders; also 883 with letters LF in serial number.	53
BBG3	12420	**¾" x 4" Bus Bar Bending Attachments** for 880 Benders and 883 Benders with letters GX or AF in serial number.	43
BBG2	12415	**1" x 6" Bus Bar Bending Attachments** for 884 Benders with BA or GW serial numbers.	100
2 9205	29205	**1" x 6" Bus Bar Bending Attachments** for 885 and 884 Benders with HH in serial numbers.	103

Ductile Iron Shoes

for bending Schedule 40 up through Double X pipe with 777, 785, 880, 883, 883-4 884, and 885 benders

Bend up to 90° in one shot.



Bending capacity with Greenlee Ductile Iron Shoes

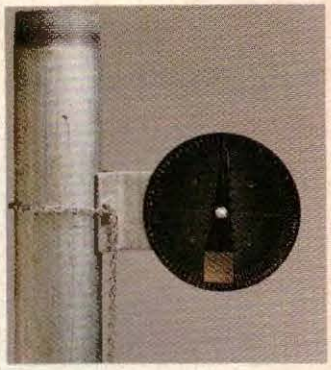
Pipe Schedule	880	883	883-4	777	884	885	785
40 pipe	1—2"	1—2"	1—2"	1—2"	1—4"	1—4"	1—6"
80 pipe	1—2"	1—2"	1—2"	1—2"	1—4"	1—4"	1—4"
120 pipe	—	—	—	1—2"	1—4"	1—4"	1—4"
160 pipe	—	—	—	1—2"	1—3"	1—3"	1—4"
Double X	—	—	—	1—1-1/2"	1—3"	1—3"	1—4"

Ductile Iron 90° Bending Shoes

Cat. No.	NAED/DCI No. 78-3310-	Size	Centerline Radius
1 8764	1 8764	1"	5-3/4"
1 8743	1 8743	1-1/4"	7-1/4"
1 8745	1 8745	1-1/2"	8-1/4"
1 8747	1 8747	2"	9-1/2"
1 9504	1 9504	2-1/2"	12-1/2"
1 9506	1 9506	3"	15"
1 9508	1 9508	4"	20"

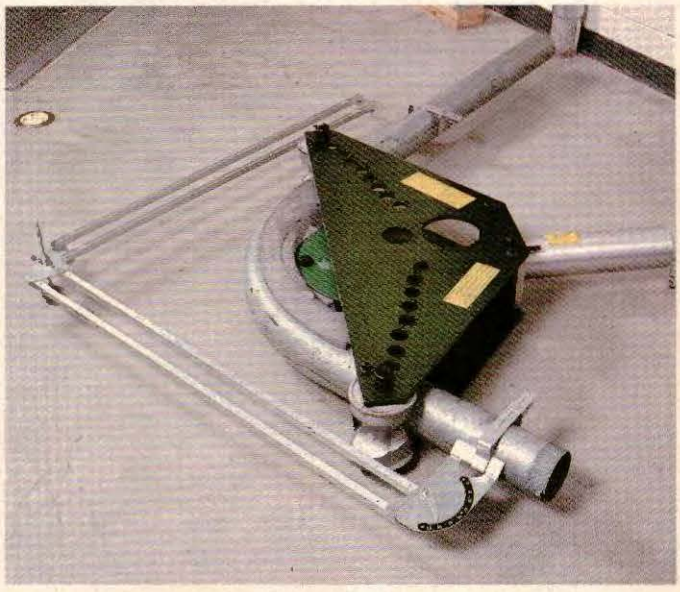
1805 Bending Degree Protractor

- Ideal when bending concentric, offset or large-radius bends.
- Bender must be mounted in a bending table . . . and pipe bent in a vertical position.
- Quick-adjusting chain-type clamp for easy mounting to all conduit and pipe sizes.
- Protractor face is graduated in quadrants of 18, 20, 21 and 22 shots.
- Face of protractor rotates to compensate for any surface that is not level.



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
1805	12710	**Bending Protractor**	2

1807 Bending Degree Indicator



- Accurate way to measure degree of bend on 1/2" thru 6" conduit.
- Indicator can be used with all horizontal-type benders — one-shot or segment.
- Large scale is calibrated in degrees from 0° to 90° and is easy to read.
- Quick-adjusting clamps for easy mounting on 1/2" thru 4" pipe or conduit.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
1807	12715	**Pipe Bending Degree Indicator** Complete for 1/2 thru 4" conduit and pipe.	15
1807G3	12725	**Attachment for 5 and 6" conduit and pipe** includes the following items:	
1 2734	12734	5" Clamp (2 req.)	
1 2735	12735	6" Clamp (2 req.)	
1 5127	15127	36" Extension (4 req.)	

1800 Mechanical Bender

Bends ½, ¾ and 1" IMC and Rigid Conduit





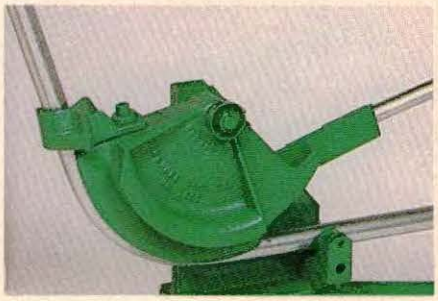
- Ratchet action for increased leverage.
- Direct handle position for faster bending of small pipe or conduit.
- Built-in 0°-90° bending gauge.
- Wheels for easy movement.
- Heavy-duty welded frame positions tool at a stable working height.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1800	10405	**Mechanical Bender** complete for 1/2, 3/4, 1" pipe. Overall size 39" long, 8-5/8" wide.	77
1800 G1	10420	**Mechanical Bending Head** only for bench or truck bed mounting (not shown).	48

Size of conduit	Centerline radius
1/2"	2-5/8"
3/4"	4-5/8"
1"	5-7/8"

1801 Mechanical Bender

Bends 1-¼ and 1-½" IMC and Rigid Conduit





- Ratchet action for increased leverage.
- Built-in 0°-90° bending gauge.
- Wheels for easy movement.
- Heavy-duty welded frame positions tool at a stable working height.
- Roller support relieves friction, makes bending larger sizes easier.
- Easy to reach ratchet release.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1801	10410	**Mechanical Bender** complete for 1-1/4, 1-1/2" pipe. Overall size 36" long, 10" wide.	100
1801 G1	10422	**Mechanical Bending Head** only for bench or truck bed mounting (not shown).	75
3 2416	32416	**Undercarriage Unit**	33

Size of conduit	Centerline radius
1-1/4"	8-1/16"
1-1/2"	9-11/16"

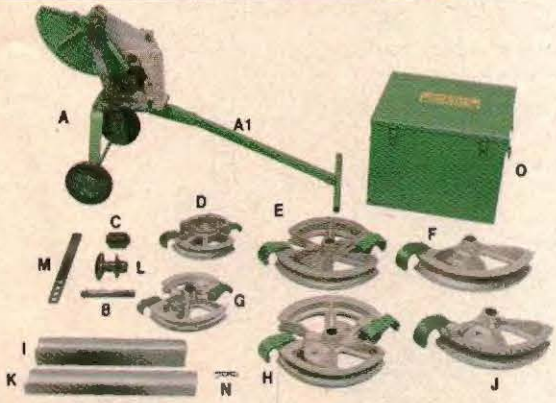


1818 Mechanical Bender

Capacity: EMT ¾" — 2"
IMC ½" — 1-¼"
RIGID ½" — 1-½"
ALUMINUM ½" — 2"

- 7 to 1 mechanical advantage with built-in ratchet mechanism.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1818	10415	**Mechanical Bender** complete with attachments for bending ½ thru 1-½" rigid steel and aluminum conduit, ¾ thru 2" EMT conduit and ½ thru 1-¼" IMC conduit. **Includes 1818G1 and 1818G2.**	250
1818R	10432	**Mechanical Rigid Bender** complete with attachments for bending ½ thru 1-½" rigid steel and aluminum conduit and ½ thru 1-¼" IMC conduit. **Includes 1818G1 and 1818G3.**	185
1818T	10434	**Mechanical EMT Bender** complete with attachments for bending ¾ thru 2" (EMT) conduit. **Includes 1818G1 and 1818G4.**	217
1818G1	10424	**Frame and Undercarriage Unit.**	93
1818G2	10426	**Rigid, IMC and EMT Shoes and Bending Accessories.**	153
1818G3	10428	**Rigid/IMC Shoes and Bending Accessories.**	88
1818G4	10430	**EMT Shoes and Bending Accessories.**	120





Speed-bends EMT—Bypass ratchet for fast, direct EMT bending on smaller sizes.



Automatic ejection of bent pipe—releasing ratchet lock ejects the bent pipe . . . saves time on every bend.



"Swing-away" clamp—Each shoe has its own permanently mounted clamp to lock the pipe in place. Eliminates time lost hammering clamps on and off.

Positive shoe lock—makes loading easier because shoe cannot swing free as conduit is inserted.



Bending degree indicator—lets you compensate for variations in "spring-back" due to differences in pipe size and material.

Heavy-Duty Frame—resists deflection during bending. Two-wheeled undercarriage makes moving easy.



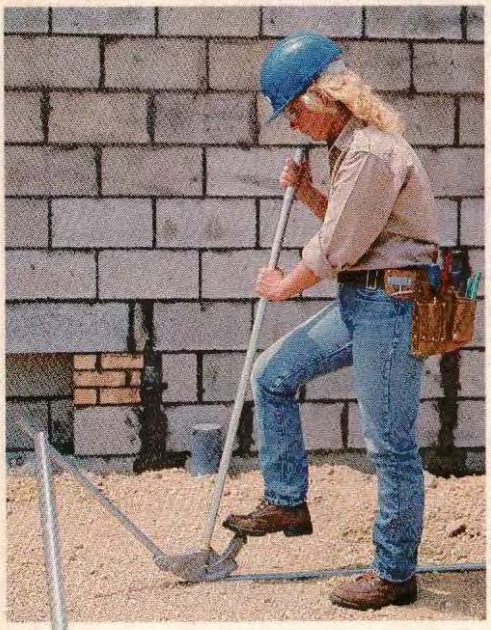
Separate ratchet mechanism—ductile iron ratchet mechanism is independent of bending shoes.

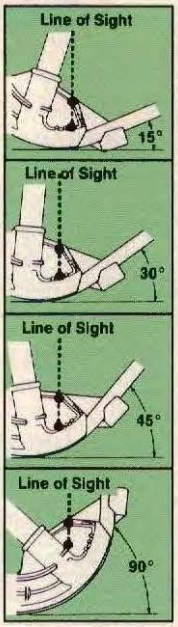
Key	Cat. No.	NAED/DCI No. 78-3310-	Description	1818	1818R	1818T	1818G1	1818G2	1818G3	1818G4
A	2 2205		Frame Unit	1	1	1	1	—	—	—
A1	3 2416	32416	Undercarriage Unit	1	1	1	1	—	—	—
B	1 8626	18626	Roller Pin Unit	1	1	1	—	1	1	1
C	1 8681	18681	Cushioned Roller Unit	1	1	1	—	1	1	1
D	1 8827	18827	½, ¾ & 1" Rigid/IMC Shoe Unit	1	1	—	—	1	1	—
E	1 8828	18828	1-¼" Rigid/IMC & 1-½" Rigid Shoe Unit	1	1	—	—	1	1	—
G	1 8830	18830	¾ & 1" EMT Shoe Unit	1	—	1	—	1	—	1
H	1 8831	18831	1-¼ & 1-½" EMT Shoe Unit	1	—	1	—	1	—	1
I	1 8642	18642	1-¼ & 1-½" EMT Follow Bar	1	—	1	—	1	—	1
J	1 8832	18832	2" EMT Shoe Unit	1	—	1	—	1	—	1
K	1 8636	18636	2" EMT Follow Bar	1	—	1	—	1	—	1
L	3 3950	33950	Roller Follow Bar Guide	1	—	1	—	1	—	1
M	1 8674	18674	Tie Bar	1	1	1	—	1	1	1
N	1 8772	18772	Retainer Clip	1	1	1	—	1	1	1
O	2 3818	23818	Steel Storage Box	1	1	1	—	1	1	1
F	1 8829	18829	2" Rigid Aluminum Shoe Unit	OPTIONAL						

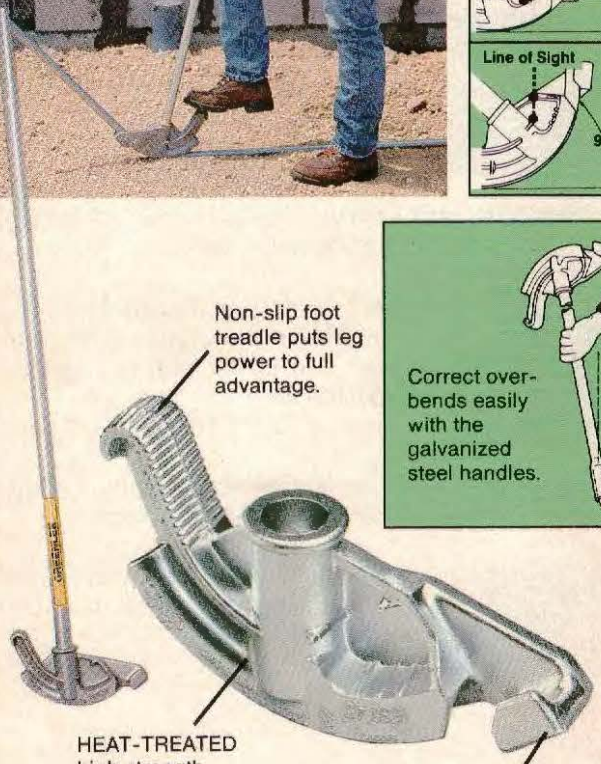
SHOE SIZE	CENTERLINE RADIUS
½" Rigid/IMC	2-21/32"
¾" Rigid/IMC	4-5/8"
1" Rigid/IMC	5-7/8"
1-¼" Rigid/IMC	7-3/8"
1-½" Rigid	9"
2" Aluminum	10-15/32"
¾" EMT	5-3/32"
1" EMT	6-13/32"
1-¼" EMT	8-9/32"
1-½" EMT	8-9/32"
2" EMT	9-3/16"

SITE-RITE® Hand Benders and Handles

Bending is simple with the Site Rite Indicator as shown below.







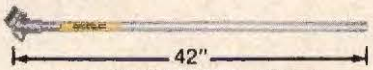


EMT SIZE	1/2"	3/4"	1"	1-1/4"
RIGIDE SIZE	—	1/2"	3/4"	1"
CENTERLINE RADIUS	4-3/16"	5-1/8"	6-1/2"	11"
BENDER WITHOUT HANDLE - Cat. No.	**840**	**841**	**842**	**843**
NAED/DCI NO. 78-3310-	02072	02074	02076	02078
BENDER WITH HANDLE - Cat. No.	**840H**	**841H**	**842H**	—
NAED/DCI NO. 78-3310-	02073	02075	02077	—
HANDLE ONLY Cat. No.	**844**	**845**	**846**	Use 1-¼" Pipe
NAED/DCI NO. 78-3310-	02034	02036	02038	

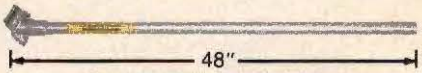
Hickeys with Welded Handles

for 1/2", 3/4" and 1" RIGID CONDUIT

- Heavy-duty cast steel head
- Bends short radii. Ideal for tight stub-ups.



No. 508 1/2" Rigid Hickey



No. 512 3/4" Rigid Hickey
(also bends 1/2" rigid conduit)

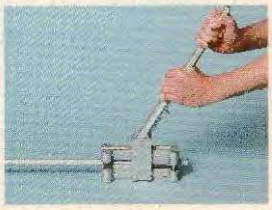


No. 516 1" Rigid Hickey

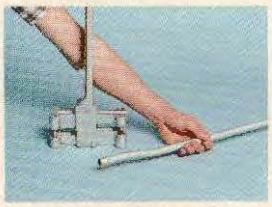
SIZE	½"	¾"	1"
CAT. NO.	**508**	**512**	**516**
NAED/DCI NO. 78-3310-	02050	02060	02070
WT./LBS.	39	44	41

1810, 1811 Little Kicker™ Offset Bender

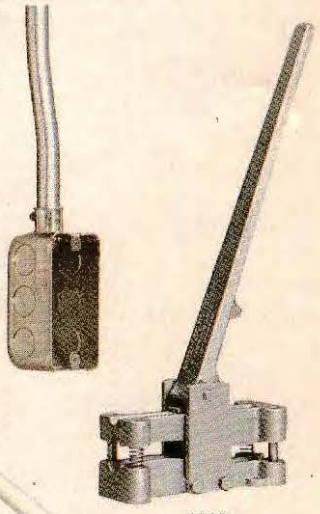
- Little Kicker® Offset Bender bends perfect offsets in 2 seconds.
- Every bend is identical.
- #1810 for ½" EMT, #1811 for ¾" EMT



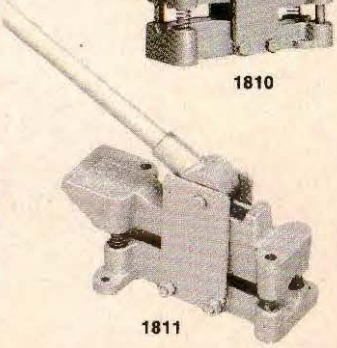
Insert conduit and bend in one easy stroke.



Remove another perfect offset.

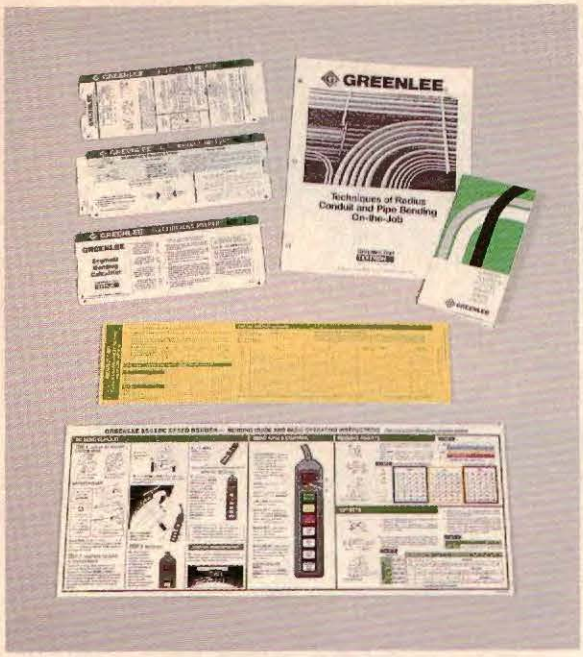


1810



1811

Cat. No.	NAED/DCI No. 78-3310-	Description	Ship Wt./Lbs.
1810	02080	Offset Bender for ½" EMT	5.5
1811	02090	Offset Bender for ¾" EMT	10



Greenlee Tool supplies Instruction Manuals with all bending equipment. In addition, convenient bending charts are printed on vinyl, pressure sensitive decals and affixed to the bender frame. If you need another copy of the Instruction Manual or replacement decals we will furnish at no charge. Make sure you have the model and serial number when ordering.

OTHER BENDING AIDS —

Pocket size slide rule calculators with all the information needed to figure bends, stub-ups and offsets.

ELECTRICIANS HELPER NO. 1
For 881 and 882 Series Benders order IM967 (no charge).

ELECTRICIANS HELPER NO. 2
For 777, 880, 883, 884 and 885 Series Benders order IM810 (no charge).

ELECTRICIANS HELPER NO. 3
For complete data on segment bending. Order IM954 (no charge).

TECHNIQUES OF CONDUIT BENDING
Booklet explaining concentric bending in practice and theory. Order IM763 (no charge).

HANDBOOK FOR BENDING
Pocket manual containing information on all phases of bending. Order IM787 (no charge).

METRIC CONVERSION CHART

Inch x 25.4 = mm (Millimeter)
Feet x .3048 = m (Meters)
FPM (feet per minute) x .3048 = meters per minute
Lbs. (pounds) x .4536 = Kg (Kilograms)
PSI (pounds per square inch) x .0689 = Bars

CONDUIT SIZE CHART

	EMT ELECTRICAL METALLIC TUBING						IMC INTERMEDIATE CONDUIT						RIGID CONDUIT STEEL OR ALUMINUM					
	Outside Dia.		Inside Dia.		Wall Thickness		Outside Dia.		Inside Dia.		Wall Thickness		Outside Dia.		Inside Dia.		Wall Thickness	
Size	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM
½"	.706	17.9	.622	15.8	.042	1.1	.815	20.7	.675	17.1	.070	1.8	.840	21.3	.632	16.1	.104	2.6
¾"	.922	23.4	.824	20.9	.049	1.3	1.029	26.1	.879	22.3	.075	1.9	1.050	26.7	.836	21.2	.107	2.7
1"	1.163	29.5	1.049	26.6	.057	1.5	1.290	32.8	1.120	28.4	.085	2.2	1.315	33.4	1.060	27.0	.126	3.2
1-¼"	1.510	38.4	1.380	35.1	.065	1.7	1.638	41.6	1.468	37.3	.085	2.2	1.660	42.2	1.394	35.4	.133	3.4
1-½"	1.740	44.2	1.610	40.9	.065	1.7	1.883	47.8	1.703	43.3	.090	2.3	1.900	48.3	1.624	41.2	.138	3.5
2"	2.197	55.8	2.067	52.5	.065	1.7	2.360	59.9	2.170	55.1	.095	2.4	2.375	60.3	2.083	52.9	.146	3.7
2-½"	2.875	73.0	2.731	69.4	.072	1.8	2.857	72.6	2.597	66.0	.130	3.3	2.875	73.0	2.489	63.2	.193	4.9
3"	3.500	88.9	3.356	85.2	.072	1.9	3.476	88.3	3.216	81.7	.130	3.3	3.500	88.9	3.090	78.5	.205	5.2
3-½"	4.000	101.6	3.834	97.4	.083	2.1	3.971	100.9	3.711	94.3	.130	3.3	4.000	101.6	3.570	90.7	.215	5.5
4"	4.500	114.3	4.334	110.1	.083	2.1	4.466	113.4	4.206	106.8	.130	3.3	4.500	114.3	4.050	102.9	.225	5.7
5"	—	—	—	—	—	—	—	—	—	—	—	—	5.563	141.3	5.073	128.9	.245	6.2
6"	—	—	—	—	—	—	—	—	—	—	—	—	6.625	168.3	6.093	154.8	.266	6.8

860 GREEN HEAT™ PVC Heating Blankets

For 1/2" thru 4" — All Schedules



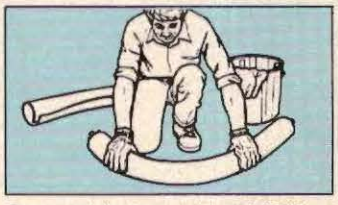
Most durable and rugged blanket on the market

- Thermostatically controlled, even heating for uniform bending.
- Tough cord grip/thermostat housing is designed to withstand rugged use.
- Velcro strap to hold blanket in heating position.
- Longitudinal stiffeners to insure positive contact with PVC.

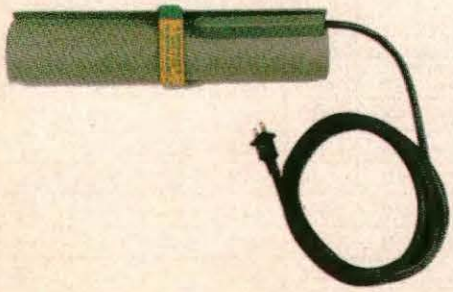
EFFECTIVE, ECONOMICAL, EASY TO OPERATE



Wrap heating blanket around PVC and heat.



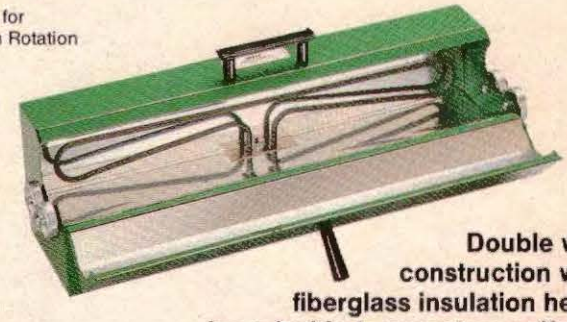
Remove blanket and bend PVC.



Cat. No.	NAED/DCI 78-3310-	Blanket Size	Conduit Sizes	Volts
860-1½	10110	13"x8¼"	Up to 1½"	115
860-3	10115	30"x13¼"	2" - 3"	115
860-4	10120	38"x16¼"	3½" & 4"	115

849 PVC Heater





Double wall construction with fiberglass insulation helps keep inside temperature uniform.



Plug in 115 V. outlet and preheat 10 minutes. Insert PVC and rotate for 1 to 2 minutes.

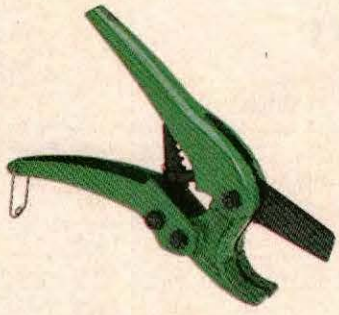


Remove PVC and form bend.

Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
849	02865	Electric Heater for 1/2" to 2" PVC	15
27811	27811	Calrod Heating Element	

863 PVC Cutter

For up to 1-1/4" PVC

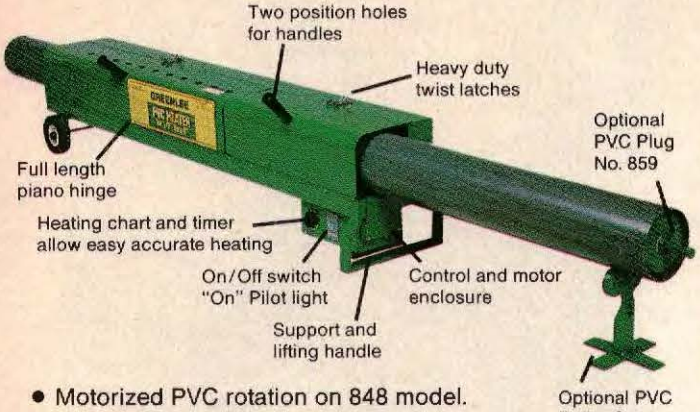


- Ratchet action for fast, easy cutting.
- Heat-treated, replaceable steel blade for long cutting life.
- Rugged metal alloy frame for durability.

Cat. No.	NAED/DCI 78-3310-	Description
863	10138	PVC Cutter
32000	32000	Replacement Blade

847/848 Electric PVC Heater

Heats 1/2" thru 6" PVC — All Schedules



- Motorized PVC rotation on 848 model.
- Heavy gauge steel covers with rolled edge construction increases durability.
- Highly polished reflector surfaces for even radiant heating.
- Efficient replaceable calrod heating element. Unit draws 30 amps, 230 volts.
- Double covers allow easy heating of short lengths.
- Length 71", width 15", height to cover 14¾", to top of handle 19½".

Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
847	02040	1/2"-6" PVC Heater	78
848	02042	1/2"-6" PVC Heater with motorized PVC rotation	80
30908	30908	Calrod Heating Element	

857 PVC Roller Support



Provides support to unheated end of conduit during heating.

Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
857	02900	PVC Roller Support. Use with 847/848 PVC Heater.	4



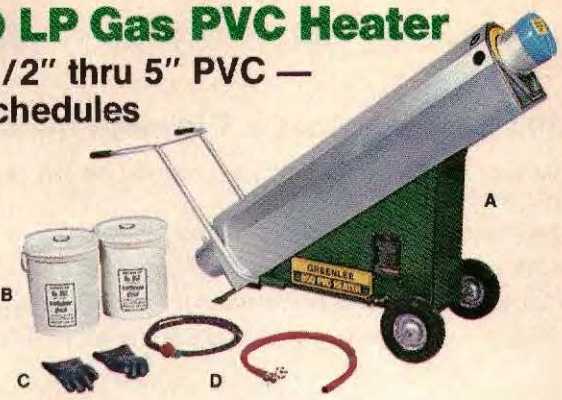
859 PVC Plug Set

For use with 847/848 PVC Heater or 860 PVC Heating Blankets on Schedule 40 and 80 PVC Pipe

Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
859	08590	PVC Plug Set for 2" thru 6" PVC includes carrying case and 2 each of the following:	12
30976	30976	2" Plug Unit (1 plug)	
30977	30977	2-1/2" Plug Unit (1 plug)	
30978	30978	3" Plug Unit (1 plug) (also fits 3-1/2")	
30979	30979	4" Plug Unit (1 plug)	
30980	30980	5" Plug Unit (1 plug)	
30981	30981	6" Plug Unit (1 plug)	
31228	31228	Plastic Carrying Case	

850 LP Gas PVC Heater

For 1/2" thru 5" PVC — All Schedules



- Heated with LP gas . . . no electrical power required.
- Thermostat keeps liquid at proper temperature. For use with Triethylene Glycol only.
- Large 10" tires for portability.
- Heavy-duty construction.
- When bending Schedule 20, EB or DB conduit, use Greenlee 858 PVC Plug Set described below.

Three Simple, Fast Steps to Form any Desired Bend



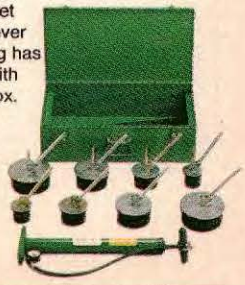
1. **Heat.** Submerse PVC in heated liquid.
2. **Bend.** Remove PVC and shape.
3. **Cool.** Apply cool water to bend with a sponge or rag.

Key	Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
A	850	31045	**PVC Heater, complete.** For 1/2" thru 5". Includes one 10' hose assembly, one pressure regulator, ten gallons of Triethylene Glycol, one pair rubber gloves and one sponge.	353
B	852	31050	**Triethylene Glycol, 5 gallon pail**	48
C	5 2341	52341	**Rubber Gloves (pair)**	.9
D	5 2326	52326	**Hose Ass'y.** 10 ft.	2
	2 4721	24721	**Pressure Control Regulator**	2

858 Plug Set

For use with 850 PVC Heater on Thin Wall PVC Pipe Schedule 20, EB and DB Conduit

Cat. No.	NAED/DCI 78-3310-	Description	Wt./ Lbs.
858	02905	**Complete PVC Plug Set** for bending 2, 3, 4, and 5" thin wall PVC pipe. Set includes two each, 2, 3, 4, and 5" lever locking plugs (one of each size plug has built-in pressure valve); air pump with gauge and hose, in steel storage box.	38
856 2	02892	**2" lever-locking plug set** (2 plugs)	
856 3	02894	**3" lever-locking plug set** (2 plugs)	
856 4	02896	**4" lever-locking plug set** (2 plugs)	
856 5	02898	**5" lever-locking plug set** (2 plugs)	
856 P	02901	**Air pump** includes built-in pressure gauge and hose.	
26285	26285	Metal Carrying Case	



1304 Variable Speed, Portable Band Saw

- Dial lock on variable speed trigger gives you the exact speed you need from 0-275 S.F.M.
- 5-3/4" wide cutting capacity to take on the big jobs.
- 4-3/4" cutting depth for one-pass cutting of 4" conduit.
- Cutting guide straddles both sides of the blade for easy accurate cutting.
- Blade tensioning mechanism also absorbs shock to the front of the saw.





PATENT PENDING

Specifications:

Power ..... 115 VAC 6. amp
Speed ..... Variable up to 275 SFM
Capacity ..... Rectangular 5-3/4" x 4-3/4"
Round 4-3/4" (4" conduit)
Blade Size ..... 1/2" x 53-3/4"
Drive ..... Worm gear
Bearings ..... Ball Bearing

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1304	33364	Variable Speed, Portable Band Saw includes Blade and Tube of Gear Lube (no case)	19
1304C	33813	Variable Speed, Portable Band Saw includes Metal Carrying Case, Blade and Tube of Gear Lube	40
33814	33814	Metal Carrying Case for 1304 Band Saw	21



For Blades, see page 30.

1357 Band Saw



- Cuts up to 4″ conduit and 7-1/4″ duct.
- Only 22″ wide.
- Converts to vertical in seconds.
- Automatic shut-off after cut is complete.
- Heavy-duty vise for accurate angles and 90º cuts.





Capacity:

Rectangular @ 90º	5″ x 7″
Round @ 90º	5″ Dia. or 4″ Conduit
Rectangular @ 45º thru	3-1/4″ x 3-1/2″
Round @ 45º thru	3-1/2″ Dia.

Vertical Capacity:

Work Table	4″ x 6″
Throat Height	8-3/4″
Throat Depth	4-5/8″

Specifications:

Speeds, f.p.m.	54, 100, 190
Blade Size	1/2″ x .025″ x 64″
Motor	1/2 H.P., 115 V.
Drive	V-belt
Dimensions of Bed	6-1/2″ x 24″
Floor to Top of Bed	24″
Floor Space	19″ x 40″
Height (Frame Vertical)	53-1/2″
Height (Frame Horizontal)	34-1/2″

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1357	16930	5″ x 7″ Band Saw	176

1399 Band Saw



- Cuts up to 8″ pipe, and 9-1/2″ x 11″ tray or duct.
- Choose from 3 speeds for fast, efficient cutting.
- Heavy-duty, adjustable hydraulic feed.
- Heavy-duty cast iron bed with welded steel legs.
- Converts to vertical in seconds.
- Only 27″ wide.
- Automatic shut-off after cut is complete.
- Optional wet cutting system available.







Capacity:

Rectangular	9-1/2″ x 11″
Round	9-1/2″ Dia. or 8″ Pipe
45º Angle	5-1/2″ x 5-1/2″

Vertical Capacity:

Work Table	7-5/8″ x 10″
Throat Height	9-1/2″
Throat Depth	6-1/4″

Specifications:

Speeds, f.p.m.	76, 141, 268
Blade Size	1/2″ x .025″ x 93″
Motor	1/2 H.P., 115 V.
Width of Bed	8-1/2″
Floor to Top of Bed	22-1/4″
Floor Space	19″ x 47″
Height (Frame Vertical)	52″
Height (Frame Horizontal)	39″

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1399	16935	9-1/2″ x 11″ Band Saw	346
32322	32322	Wet Cutting System	36
32237	32237	Vertical Work Table	8.2

Also available in 220V, call for details.

For Saw Blades, see pages 30 and 31.

1314 Cut-Off Saw



High-Speed, Rugged Workhorse

- 14" blade for cutting up through 4" pipe or conduit.
- Heavy-duty vise for secure clamping.
- 3800 RPM high-speed motor for fast cutting.
- Thumb actuated safety switch.
- Pivoting fence for miter cuts.
- Saw includes 14" abrasive wheel and removal wrench.

Specifications

Cat. No.	Amps (AC Only)	RPM	Arbor Dia. (in.)	Depth (in.)	Width (in.)	Height Chained (in.)	Height Unchained (in.)
1314	14.2	3800	1	21-1/2	10-1/2	16-1/2	23-1/2

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1314	32668	Cut-Off Saw	38
314-12	53578	12" Cut-Off Blade	9
314-14	53577	14" Cut-Off Blade	11

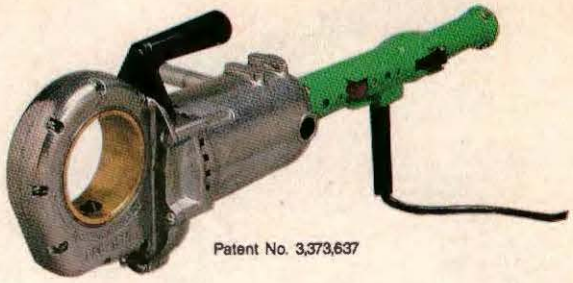
462 Threading Oil



- Premium quality, high lubricity for easier cutting and long tool life.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
		DARK THREADING OIL	
462Q	82739	1 Quart Squeeze Bottle	2.3
462 1	82737	1 Gallon Bottle	8.7
462 5	82738	5 Gallon Can	40
462 55	82740	55 Gallon Drum	438
		LIGHT THREADING OIL	
463 Q	82741	1 Quart Squeeze Bottle	2.3
463 1	82742	1 Gallon Bottle	8.7
463 5	82743	5 Gallon Can	40
463 55	82744	55 Gallon Drum	438

440 Porta-Thred® Power Drive/ Portable Threader



Patent No. 3,373,637

- 1/8" through 2" pipe or conduit capacity.
- 2-1/2" through 4" pipe or conduit capacity with adapters and geared threaders.
- 115 VAC with 300 ft. lbs. of torque in either direction.
- Reversible motor.
- Accepts Ridgid 12R, Armstrong 22 series and Nye N12 dies with no adapter needed.
- Dead man on-off switch.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
440	10100	Power Drive	26
		Adapters	
22478	22478	Central C and Rigid 111-R	
22483	08280	Toledo 12	
22484	05013	Toledo 11	
22485	08284	7/8" Square Shaft	
22486	08286	1" Square Shaft	
22487	22487	1-1/4" Square Shaft	

466 Man-Saver® Tri-Stand Pipe Vise





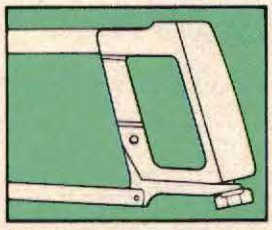
- Vise chain adjusts easily for 1/8" to 5" pipe or conduit.
- Pipe rest aligns pipe or conduit with vise jaws.
- Handy fold down tray locks legs in position.
- 3-sided vise jaws, two sides have gripping teeth, third side is smooth for plastic coated pipe.
- Built-in carrying handle.
- 1/2" and 3/4" built-in benders with both 2-1/2" and 3-1/2" centerline radii.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
466	02790	**Tri-Stand Pipe Vise**	50
29003	29003	Replacement Vise Jaws	
24971	24971	Replacement Vise Chain	
26430	26430	Replacement Vise Chain Pin	

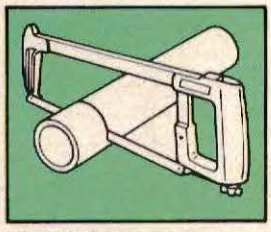
333 Hack Saw



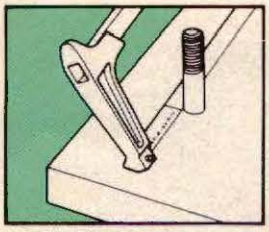
Features to make sawing easier. . .



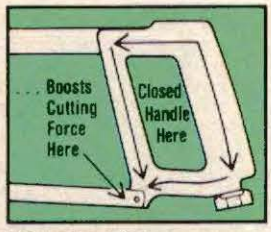
Leverage multiplier blade tensioner



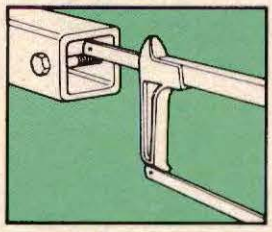
Big 4-1/2" throat



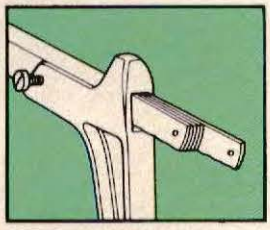
Angled blade position for flush sawing



Power booster handle



Jab saw feature



Built-in blade storage

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
333	20030	Hack Saw with 12"Blade	1.4

12" Hack Saw Blades

Teeth Per Inch	High-Speed Steel		Carbon	
	Cat. No.	NAED/DCI No. 78-3310-	Cat. No.	NAED/DCI No. 78-3310-
18	1218G1	20120	1218G2	20121
24	1224G1	20125	1224G2	20126
32	1232G1	20130	1232G2	20131

300 Hack Saw



Non-adjustable - for 12" blades only.

Positive blade holding and tension control. Die-cast frame with man-size hand grip. Cuts sideways flush with surface. Removable pin speeds blade changing. Extra blades can be stored in frame for on-the-spot changes. **Supplied with blade.**

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
300	20005	Hack Saw with 12"Blade	1.4

305 Hack Saw

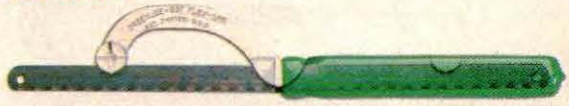


Adjustable - for 10" and 12" blades.

Front grip and handle are die-cast aluminum. **Supplied with blade.**

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
305	20010	10" or 12" Hack Saw with 12"Blade	1.3

307 Flex Saw



Compact saw for close-quarter jobs. Unique clamping feature holds blade firmly at best cutting length. Uses standard hack saw blades. **Supplied with blade.**

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
307	20020	Flex Saw with 12" Blade	.4

306 Compass Saw



306 Handle
A comfortable oversized handle for two-hand sawing. Handle is die-cast aluminum and accommodates blades with hook slots. **Supplied without blade.**

Blades for 306 Compass Saw
High quality carbon steel blades have hook-slot for use with 306 Compass Saw Handle.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
306	20015	Compass Saw Handle	.6
310	20150	10" Compass Saw Blade. 10 teeth/inch.	.4
312	20155	12" Compass Saw Blade. 8 teeth/inch.	.4

For Hole Saws see pages 86-87.

CARBON - Economical saw blade for general purpose job site work. Hard edge, flexible back. Cuts cleanly and accurately. Top quality at an economical price.

ALLOY - Tempered back with tough heat resistant cutting edge for superior blade life. Resists abrasion and shock.

HIGH-SPEED STEEL - Lasts up to 3 times longer than ordinary carbon blades on medium and tough sawing jobs, including cut-off work on structurals as well as vertical contour sawing. Cuts tough, hard materials fast. Gives low cost per cut.

BI-METAL BLADES - Combines the advantages of two special metals into one. The cutting edge is made of high-speed steel for long cutting life, welded to a carbon steel backing for flexibility.

Hack Saw Blades

For Models 300, 305, 333 and 307



For 300, 305, 333 Hack Saw Frames & 307 Flex Saw				
12" Blade Teeth per inch	Carbon Flexible		High-Speed Steel Flexible	
	Cat. No.	NAED/DCI No. 78-3310-	Cat. No.	NAED/DCI No. 78-3310-
18	1218G2	20121	1218G1	20120
24	1224G2	20126	1224G1	20125
32	1232G2	20131	1232G1	20130

Compass Saw Blades

For Model 306

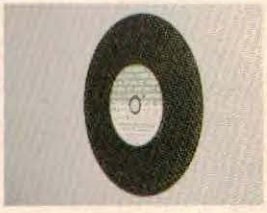


Blades for No. 306 Compass Saw			
		Carbon	
Length	Teeth per inch	Cat. No.	NAED/DCI No. 78-3310-
10"	10	310	20150
12"	8	312	20155

Cut-Off Saw Blades

For Model 1314





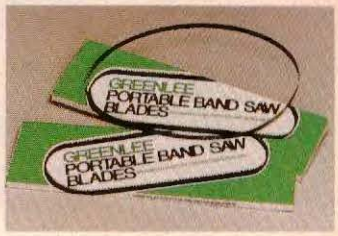
1" arbor hole size.

Cat. No.	NAED/DCI No. 78-3310-	Description
314-14	53577	14" replacement metal-cutting abrasive blade
314-12	53578	12" replacement metal-cutting abrasive blade

Portable Band Saw Blades

For Models 530, 531 and 1304





Teeth Per Inch	Carbon		Bi-Metal	
	Cat. No.	NAED/DCI No. 78-3310-	Cat. No.	NAED/DCI No. 78-3310-
Model 530* (1/2" x 44-7/8")				
10	3010C	19036	3010B	33851
14	3014C	19040	3014B	33852
18	3018C	19044	3018B	33853
24	3024C	19048	3024B	33854
Models 1304 & 531 (1/2" x 53-3/4")				
10	3110C	19052	3110B	33860
14	3114C	19056	3114B	33861
18	3118C	19060	3118B	33862
24	3124C	19064	3124B	33863

*530 and 531 Portable Band Saws have been replaced by Model 1304.

Band Saw Blades

For Models 1357 and 1399

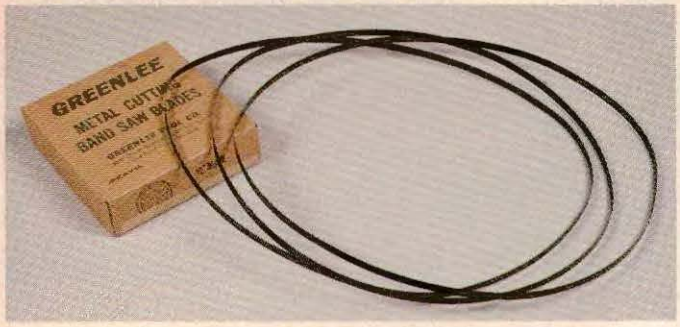




Teeth Per Inch	Carbon		Alloy	
	Cat. No.	NAED/DCI No. 78-3310-	Cat. No.	NAED/DCI No. 78-3310-
Model 1357 (1/2" x .025" x 64")				
10	357-10C	30102	357-10A	30100
14	357-14C	30106	357-14A	30104
18	357-18C	30110	357-18A	30108
24	357-24C	30114	357-24A	30112
Model 1399 (1/2" x .025" x 93")				
10	399-10C	30122	399-10A	30120
14	399-14C	30126	399-14A	30124
18	399-18C	30130	399-18A	30128
24	399-24C	30134	399-24A	30132

Band Saw Blades

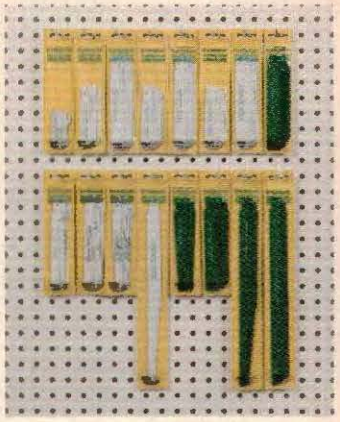
For Models 346, 348, 1346, 1348 and 1395



Teeth Per Inch	Carbon		Alloy	
	Cat. No.	NAED/DCI No. 78-3310-	Cat. No.	NAED/DCI No. 78-3310-
346 (1/2" x 81")				
6	306C	30028	306A	30026
8	308C	30032	308A	30030
10	350C	30044	350A	30042
14	354C	30048	354A	30046
18	358C	30052	358A	30050
24	364C	30056	364A	30054
348 (5/8" x 106")				
6	—	—	—	—
8	318C	30036	318A	30034
10	370C	30060	370A	30058
14	374C	30064	374A	30062
18	378C	30068	378A	30066
24	—	—	—	—
1346 (1/2" x 81")				
6	—	—	—	—
8	—	—	—	—
10	350C	30044	350A	30042
14	354C	30048	354A	30046
18	358C	30052	358A	30050
24	364C	30056	364A	30054
1348 (5/8" x 96")				
6	—	—	—	—
8	—	—	—	—
10	380C	30072	380A	30070
14	384C	30076	384A	30074
18	388C	30080	388A	30078
24	—	—	—	—
1395 (1/2" x 122")				
6	—	—	—	—
8	395 8C	30208	395 8A	30206
10	395 10C	30212	395 10A	30210
14	395 14C	30216	395 14A	30214
18	395 18C	30220	395 18A	30218
24	395 24C	30226	395 24A	30224

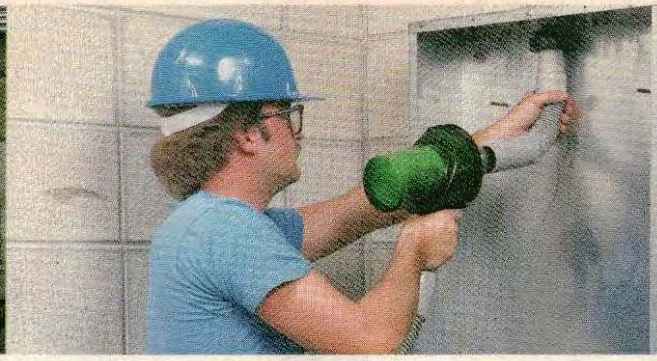
Reciprocating Saw Blades

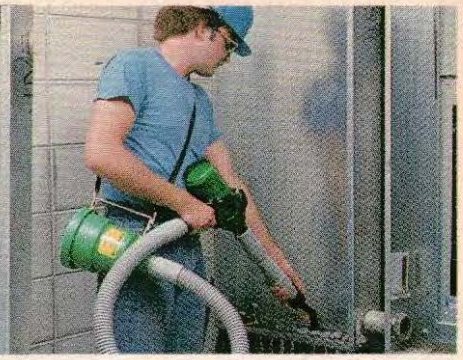


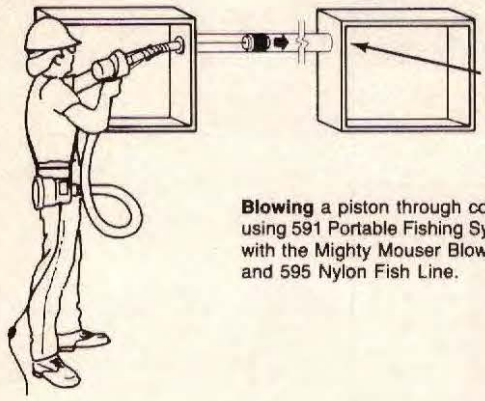


	Teeth Per Inch	Length	Type	Cat No.	NAED/DCI No. 78-3310-
METAL CUTTING					
Scroll cutting metal lighter than 18 gauge.	24	2-1/2"	Bi-Metal	**32861**	32861
Sheet steel lighter than 18 gauge, galvanized pipe, tubing lighter than 18 gauge.	24	4"	Bi-Metal	**32864**	32864
Sheet steel lighter than 18 gauge, galvanized pipe, tubing lighter than 18 gauge.	24	6"	Bi-Metal	**32867**	32867
Heavy gauge nonferrous metals, bar, angle iron, galvanized pipe, tubing heavier than 18 gauge.	18	4"	Bi-Metal	**32863**	32863
Heavy gauge nonferrous metals, bar, angle iron, galvanized pipe, tubing heavier than 18 gauge.	18	6"	Bi-Metal	**32866**	32866
Heavy gauge nonferrous metals, bar, angle iron, cast iron, sheet steel heavier than 18 gauge.	14	4"	Bi-Metal	**32862**	32862
Heavy gauge nonferrous metals, bar, angle iron, cast iron, sheet steel heavier than 18 gauge.	14	6"	Bi-Metal	**32865**	32865
PLASTER CUTTING					
Plaster board cutting, plaster with metal lath.	6	6"	Carbon	**32868**	32868
WOOD CUTTING					
Flexible blade. General wood roughing including nail embedded woods.	10	6"	Carbon	**32859**	32859
Flexible blade cutting nail embedded wood in hard-to-reach areas.	10	12"	Carbon	**32860**	32860
For nail embedded wood.	5/7	6"	Bi-Metal	**32853**	32853
For roughing and nail embedded wood.	5/7	12"	Bi-Metal	**32855**	32855
For nail embedded hard woods.	4/6	6"	Bi-Metal	**32854**	32854
General wood roughing.	6	6"	Carbon	**32856**	32856
General wood roughing.	6	6"	Bi-Metal	**32858**	32858
General wood roughing.	6	12"	Carbon	**32857**	32857

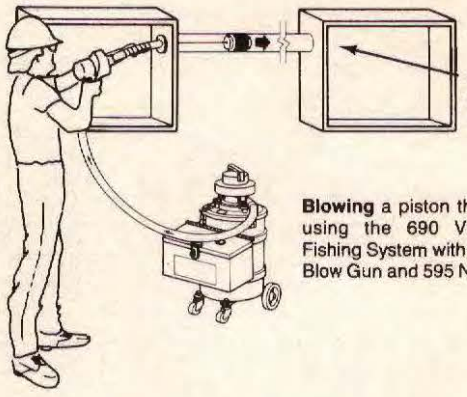




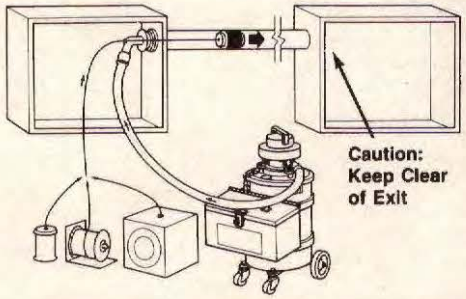




Blowing a piston through conduit using 591 Portable Fishing System with the Mighty Mouser Blow Gun and 595 Nylon Fish Line.

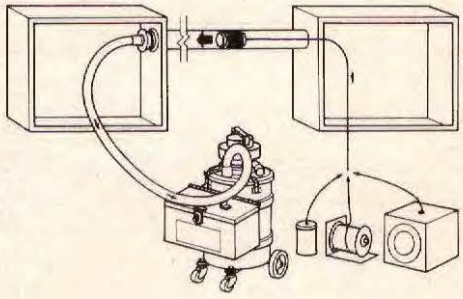


Blowing a piston through conduit using the 690 Vacuum/Blower Fishing System with Mighty Mouser Blow Gun and 595 Nylon Fish Line.



Blowing a piston through conduit using 690 Vacuum Blower Fishing System with 23360 Blow Gun. Can be used with fish line, poly line or measuring tape.

Blows — 604 Fish Line, 435 Measuring Tape and 430 or 431 Poly Line



Vacuuming a piston through conduit using 690 Blower Fishing System.

Vacuums — 604 Fish Line, 435 Measuring Tape and 430 or 431 Poly Line

MIGHTY MOUSER™ 592 Blow Gun Kit

PATENT PENDING

The fast, efficient way to fish long conduit runs.

- Compact self-contained unit leaves one hand free for more efficient operation.
- Full range of adapters and pistons enables your system to send line through any size conduit, from 1/2″ - 4″ . . . through 6″ with optional accessories.
- Job site tough Lexan® thermoplastic construction.
- Transparent line housing enables the operator to monitor line payout.
- All accessories store in durable steel carrying case.





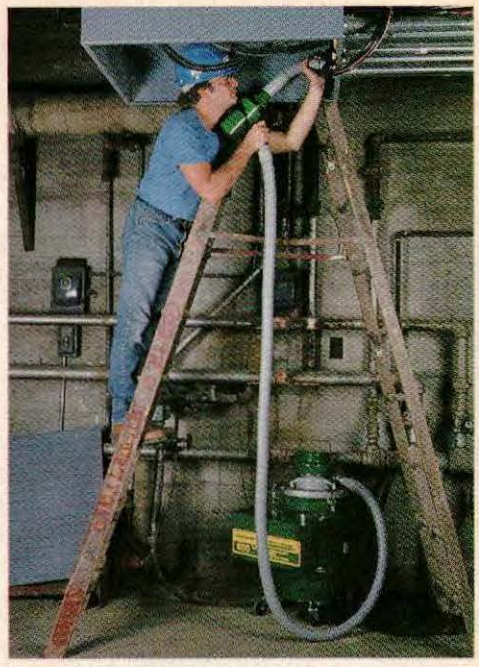
Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
592	10504	**Blow Gun Kit - complete as shown***	20
691	10510	Blow Gun Only	1.7
595	10602	85 Lb. Test Fish Line	1.2

*Requires a power system like 590. See page 33.

NOTE: To order pistons, fish line or filters, refer to page 34.



POWER FISHING SYSTEMS



690 Vacuum Blower System

Includes the Mighty Mouser Blow Gun.

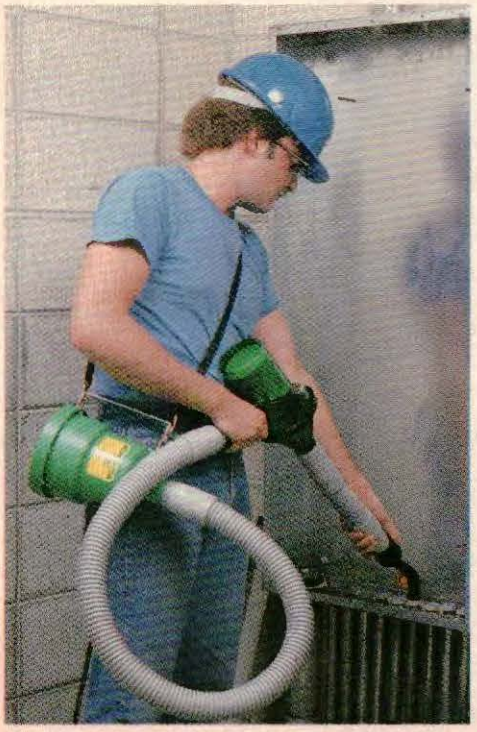
- Powerful . . . run line through all sizes of conduit through 6″ with optional 5″ and 6″ pistons.
- Contains all accessories needed to blow or vacuum line through all rigid conduit sizes, from 1/2″ thru 4″.
- As an industrial vacuum cleaner it clears water and debris . . . large 13 gallon tank.
- All accessories store in convenient removable storage box.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
690	10505	Vacuum/Blower Power Fish Tape System	63

Also available in 220 volt - call for details.

NOTE: To order pistons, fish line or filters, refer to page 34.





591 Portable Blower System

A complete power fishing system featuring total portability for more efficient operation. Powerful blower sends line through any size conduit through 4″.



- Includes the new Mighty Mouser Blow Gun for improved efficiency.
- Lightweight, compact 590 Blower with handy shoulder strap frees both hands to do the work.
- Contains all accessories needed to blow line through all rigid conduit sizes from 1/2″ thru 4″.
- Blower housing is tough impact resistant reinforced plastic.
- Blower and all accessories store in a durable steel carrying case.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
591	10502	Portable Blower Power Fish Tape System	34

NOTE: To order pistons, fish line or filters, refer to page 34.



Power Fish Tape System Parts List

Key	Qty. Included in Kit No. 591	592	690	692	Cat. No.	NAED/DCI No. 78-3310-	Description
A	1	1	1	1	691	10510	Mighty Mouser Blow Gun
B	1	1	1	1	595	10602	85 lb. Tensile Strength Nylon Fish Line
C	2	2	2	2	608	10620	Piston for 1/2" Conduit
D	2	2	2	2	609	10625	Piston for 3/4" Conduit
E	2	2	2	2	610	10630	Piston for 1" Conduit
F	2	2	2	2	611	10635	Piston for 1-1/4" Conduit
G	2	2	2	2	612	10640	Piston for 1-1/2" Conduit
H	2	2	2	2	613	10645	Piston for 2" Conduit
I	1	1	1	1	614	10650	Piston for 2-1/2" Conduit
J	1	1	1	1	615	10655	Piston for 3" Conduit
K	1	1	1	1	616	10660	Piston for 3-1/2" Conduit
L	1	1	1	1	617	10665	Piston for 4" Conduit
M	1	1	1	1	25646	06244	Adapter Cone 1/2" - 1"
N	1	1	1	1	25644	06240	Adapter Cone 1-1/4" - 2-1/2"
O	1	1	1	1	25645	06242	Adapter Cone 3" - 4"
P			1	1	16646	10685	Adapter Washer 1-1/2" - 6"
Q	1		1	1	23360	23360	Blow Gun for Tape and Line
R			1	1	30301	30301	Storage Box
S	1	1			32662	32662	Storage Box
T			1		16521	05527	Flexible Hose 1-1/2" dia. x 10 ft.
U	1				32431	32431	Flexible Hose 1-1/2" dia. x 4 ft.
U_1	1				33339	33339	Hose Clamp (to secure 32431 Hose to 590 Blower)
V	1	1	1	1	32104	32104	Flexible Hose 1-1/2" dia. x 1 ft.
V_1	1	1	1	1	33339	33339	Hose Clamp (to secure 32104 Hose to 691 Blow Gun)
W	1				590	10500	Portable Blower
X			1		32114	32114	13 Gal. Tank with Casters*
Y			1		32116	32116	Blower and Vacuum Power Unit*
Z			1		31315	31315	Outer Filter Bag*
AA			1		31314	31314	Inner Filter Bag*

*For units with VM Serial Code only.

Power Fishing Accessories

Pistons

- Foam cylinders that form a flexible, air tight seal inside conduit.
- Quick, easy vacuuming or blowing.



Conduit Size	Rigid, IMC and EMT Cat. No.	NAED/DCI No. 78-3310-	Rigid and IMC Cat. No.	NAED/DCI No. 78-3310-	EMT Only Cat. No.	NAED/DCI No. 78-3310-
1/2"	608	10620				
3/4"	609	10625				
1"	610	10630				
1-1/4"	611	10635				
1-1/2"	612	10640				
2"	613	10645				
2-1/2"			614	10650	621	10686
3"			615	10655	622	10687
3-1/2"			616	10660	646	10689
4"			617	10665	623	10688
5"			618	10670		
6"			619	10680		

Piston Set for 1/2" - 2" Conduit

Includes 1 each 608, 609, 610, 611, 612, 613

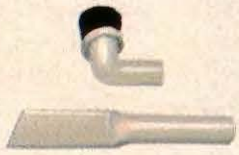
Cat. No.	NAED/DCI No. 78-3310-	Description
S2 613	90065	1/2" - 2" Piston Set

Nylon Fish Line

Cat. No.	NAED/DCI No. 78-3310-	Strength	Length
595	10602	85 lb.	2150'
604	10604	85 lb.	2200'
605	10605	45 lb.	2750'
606	10610	72 lb.	1700'
607	10615	90 lb.	1350'
630	10698	Cannister	



NOTE: Only 595 fits Mighty Mouser Cannister.

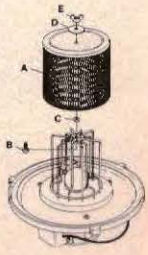


Vacuum Tools

Cat. No.	NAED/DCI No. 78-3310-	Description
18877	05559	Crevice Tool
18879	05560	Dust Brush

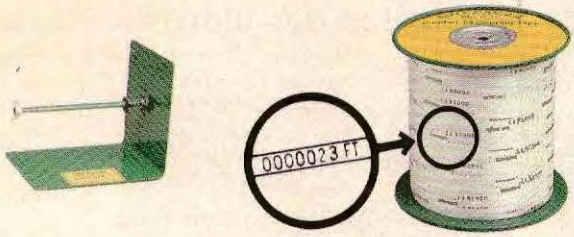
Filter Cartridge Conversion

Key	Cat. No.	NAED/ DCI No. 78-3310-	Description	Qty.
	2 8338	06170	Conversion Kit (Includes Key A thru E)	
A	2 8341	28341	Filter Cartridge	1
B	5 0521	50521	5/16" x 3/4" Hex Head Bolt	1
C	5 2997	52997	5/16" Hex Head Nut	1
D	5 2999	5 2999	1-1/2" Washer	1
E	5 2998	5 2998	Wing Nut	1



NOTE: For units with Serial Code "PB" and VM23549 and below.

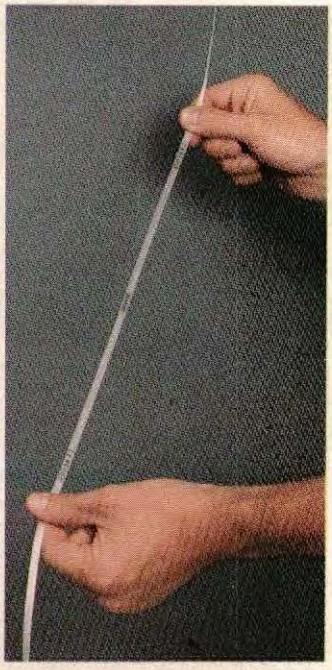
435 Conduit Measuring Tape





- Positive and accurate system to measure the length of conduit runs.
- Strong waterproof polyester. 130 lbs. tensile strength.
- Permanently printed measurements at every foot from zero to 3,000 feet.
- Also available 435M Metric Measuring tape. 850 meters marked every 1/2 meter.
- Optional pay-out dispenser with built-in cutter, no-skid pads, and handle. One piece steel frame.





Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
435	22210	Measuring Tape, 3,000 Ft.	18.4
435M	22205	Metric Measuring Tape, 850 meters	16.0
434	22215	Tape Dispenser	3.5

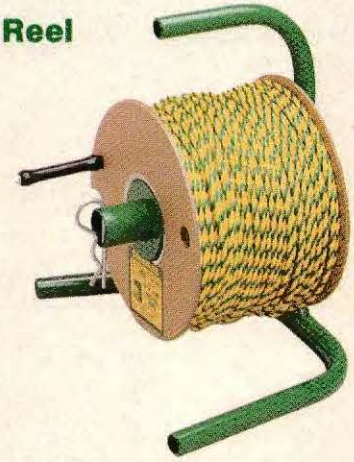
430, 431 Poly Line



- Resists tangling when dispensing.
- Will not rot or mildew.
- Use with power fish tape systems.
- Use to pull pulling rope through conduit.
- Not for pulling wire or cable.

Cat. No.	NAED/DCI No. 78-3310-	Description	Tensile Strength Lbs.	Wt./Lbs.
430	10802	1 ply x 6500'	210	11
431	10803	2 ply x 5200'	240	12

Rope and Pay-Out Reel



- 3/16" x 600' polypro rope with reel stand.
- Rope light enough to blow or vacuum with 800 lbs. tensile strength.
- Use for hand pulling cable, wire or pulling rope.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
620	10690	Pay-Out Reel with Rope includes 405 and 409	10
405	10783	Reel Stand	5.2
409	10786	Polypro Rope 3/16" x 600'	5

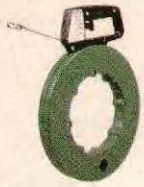
New! Easy to Handle . . . Handle



Tired of a small handle?

PATENT PENDING

438, 538 Series Steel Fish Tapes



- NEW . . . Oversized locking handle and heavy-duty winder case to provide hefty grip for needed power.
- High quality spring steel . . . resists bending, kinking and corrosion.
- Available in 1/8" or 1/4" widths.

See selection guide below.

439, 539 Series Flex-O-Twist® Flexible Fish Tapes



- NEW . . . Heavy-duty locking handle and winder case.
- Flexible . . . slips through lateral and vertical bends in the same run.
- Made of wound multi-strand cable for strength and flexibility.

See selection guide below.

436 Series Nylon Non-Conductive Fish Tapes



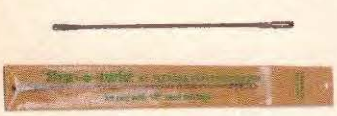
- NEW . . . Heavy-duty winder case and hefty handle.
- NEW . . . Curl resistant nylon fish tape. Lightweight and strong, 300 pound rated pulling strength.
- Non-conductive tape, however the tip and leader are made of metal and could be grounded against conduit.

See selection guide below.

FISH TAPE SELECTION GUIDE

DO NOT USE NEAR OR IN LIVE CIRCUITS

LENGTH	Steel Fish Tapes 1/8" x .060 With Winder Case	Wt./ Lbs.	Without Winder Case	Wt./ Lbs.	Steel Fish Tapes 1/4" x .060 With Winder Case	Wt./ Lbs.	Without Winder Case	Wt./ Lbs.	Flex-O-Twist Flexible Fish Tapes 3/16" With Winder Case	Wt./ Lbs.	Without Winder Case	Wt./ Lbs.	Nylon Fish Tapes 3/16" With Winder Case	Wt./ Lbs.
25′	—		—		—		—		**539-25** 78-3310-01616	3	**439-25** 78-3310-10825	3	—	
50′	**438-5** 78-3310-10826	3	**R438-5** 78-3310-90050	2	—		—		**539-50** 78-3310-01624	6	**439-50** 78-3310-10836	4	**436-5** 78-3310-10822	2
100′	**438-10** 78-3310-10828	5	**R438-10** 78-3310-90055	3	**538-10** 78-3310-53800	8	**R538-10** 78-3310-53810	6	**539-100** 78-3310-34002	6	**439-100** 78-3310-10837	6	**436-10** 78-3310-10824	3
200′	**438-20** 78-3310-10830	7	**R438-20** 78-3310-90060	6	—		**R538-20** 78-3310-53820	11	—		—		—	



439-1 Flex-O-Twist 12" Flexible Fish Tape Leader

- Helps guide steel fish tapes through sharp bends.

Cat. No.	NAED/DCI No.	Description
439-1	78-3310-43910	Tape Leader



Swivel Ball Head

For use with 1/8" steel fish tapes.

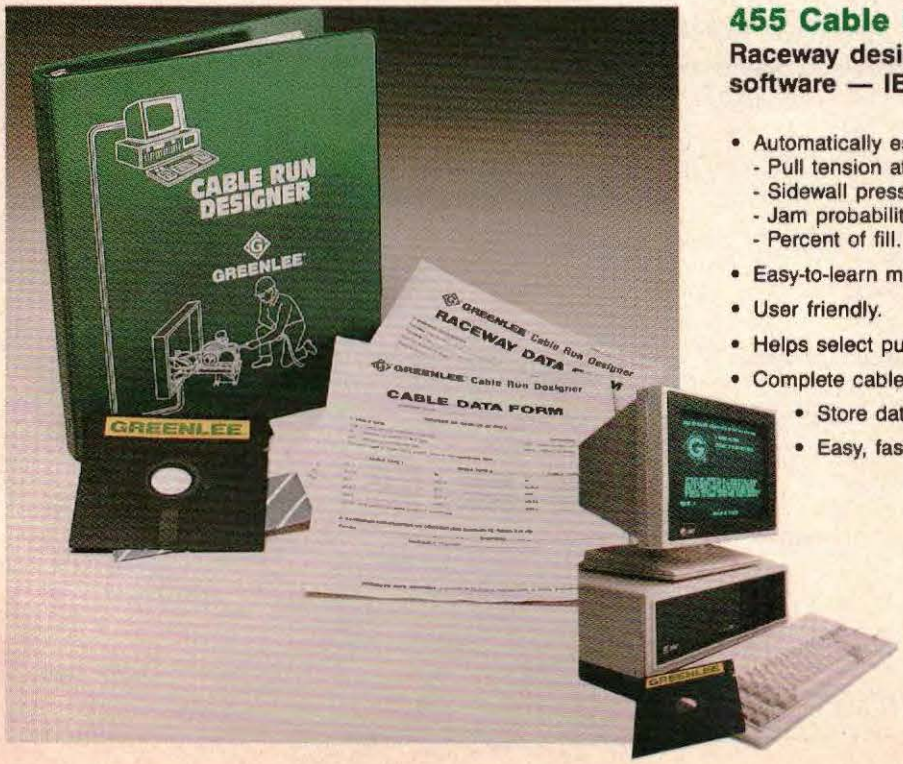
Cat. No.	NAED/DCI No.	Description
438 B	78-3310-29367	Swivel Ball Head

FISH TAPE REPLACEMENT PARTS

Cat. No.	Tape	Reel	Winder Handle Kit	Ball Tip
436-5	—	33933	34222	—
436-10	—	33933	34223	—
438-5	R438-5	33931	33926	—
438-10	R438-10	33933	33930	R438B
438-20	R438-20	33933	34089	R438B
538-10	R538-10	33933	34090	—
539-25	34022	33931	33932	—
539-50	34033	33933	33934	—
539-100	34024	33933	34088	—

GREENLEE . . . ***the contractors choice in cable pulling systems and accessories.***



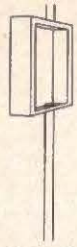


455 Cable Run Designer

Raceway design and cable pulling analysis software — IBM compatible

- Automatically estimates
  - Pull tension at bends and manholes.
  - Sidewall pressure at each bend.
  - Jam probability.
  - Percent of fill.
- Easy-to-learn menu-driven format.
- User friendly.
- Helps select pulling tools.
- Complete cable/conduit specifications.
  - Store data for future reference.
  - Easy, fast revision and error corrections.

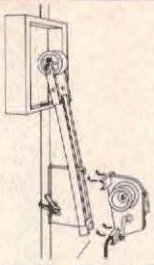
2001 Easy Tugger™ Cable Puller



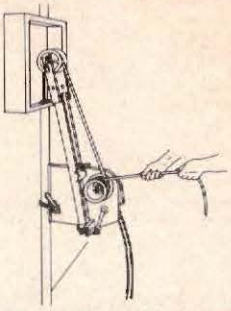
Up pull through exposed conduit with 2001 Easy Tugger Puller.



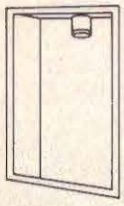
Attach 2049 Pipe Adapter Sheave to conduit.



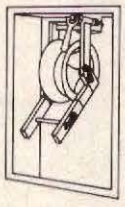
Attach 2001 Easy Tugger Puller to 2049 Pipe Adapter Sheave.



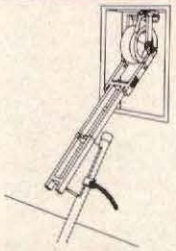
Pull.



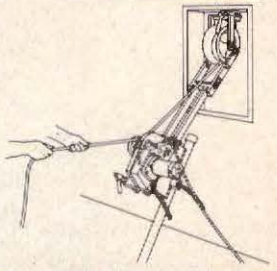
Down pull through concealed conduit with 2001 Easy Tugger Pulling System.



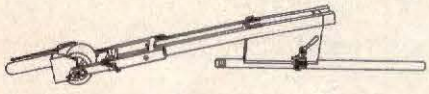
Attach 685 Flexible Pipe Adapter Sheave.



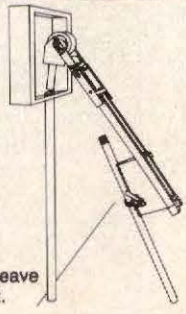
Attach 2049 Pipe Adapter Sheave with 1-1/2" rigid conduit added for length.



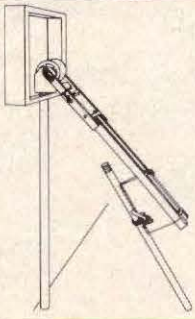
Attach 2001 Easy Tugger Puller. Pull!

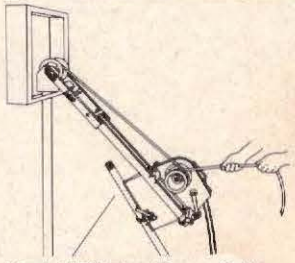


Up pulls with 2001 Easy Tugger Puller. Attach 441 Feeding Sheave to 2049 Pipe Adapter Sheave and 1-1/2" rigid conduit.



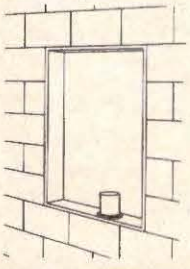
Drop 441 Feeding Sheave into conduit.



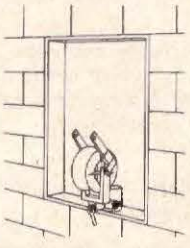


Attach 2001 Easy Tugger Puller. Pull.

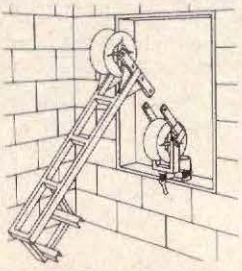
640 Tugger™ Cable Puller



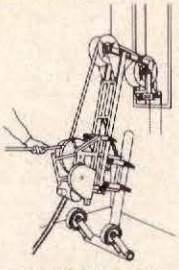
Up pull through concealed conduit with 640 Tugger Pulling System.



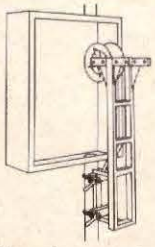
Attach 685 Flexible Pipe Adapter and Extension Bushing.



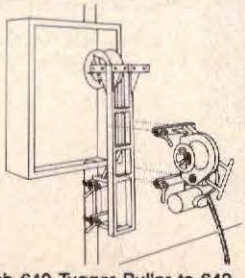
Attach 649 Pipe Adapter Sheave to 685 Flexible Pipe Adapter.



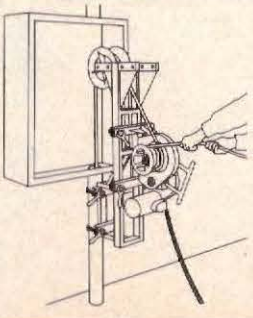
Add 6080 Mobile 'T' Boom and 640 Tugger Puller.



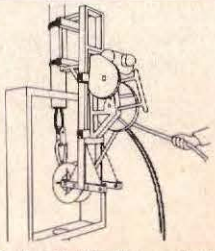
Up pull through exposed conduit with 640 Tugger Puller. Attach 649 Pipe Adapter Sheave.



Attach 640 Tugger Puller to 649 Pipe Adapter Sheave.

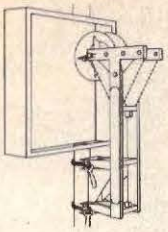


Pull.

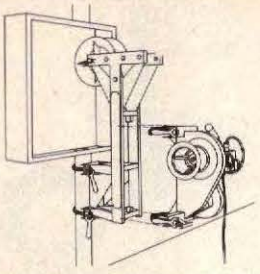


Down Pull with 640 Tugger Puller and 649 Pipe Adapter Sheave through exposed conduit.

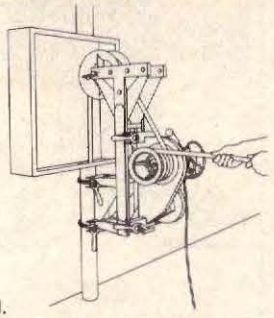
6000 Super Tugger™ Cable Puller



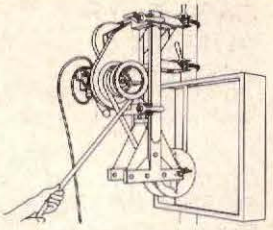
Up pull through exposed conduit with 6001 Super Tugger Puller. Attach 6049 Pipe Adapter Sheave to conduit.



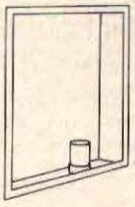
Attach 6001 Super Tugger Puller to 6049 Pipe Adapter Sheave.



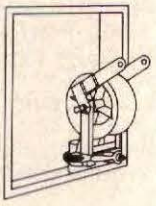
Pull.



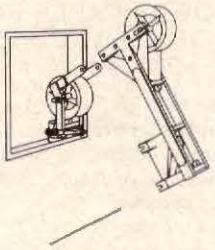
Down Pull through exposed conduit with 6001 Super Tugger Puller and 6049 Pipe Adapter Sheave.



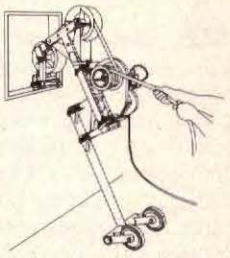
Up pull through concealed conduit with 6001 Super Tugger Pulling System.



Attach 6085 Flexible Pipe Adapter Sheave and Extension Bushing.

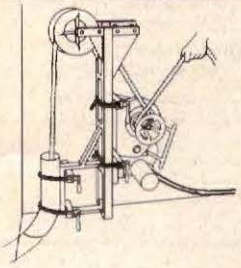


Attach 6049 Pipe Adapter Sheave to 6085 Flexible Pipe Adapter.

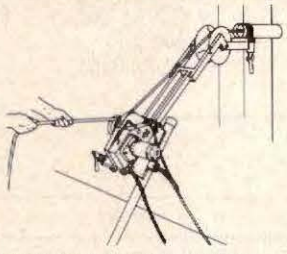


Attach 6080 Mobile 'T' Boom and 6001 Super Tugger Puller.

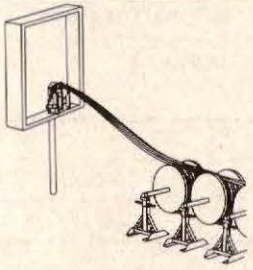
Other Set-Ups



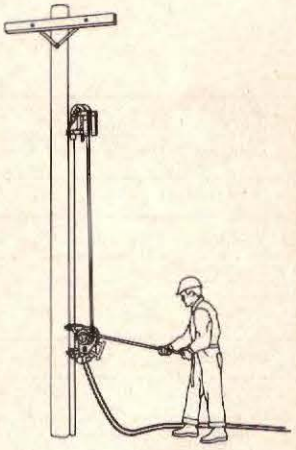
"Up" Pull using Pipe Adapter Sheave.



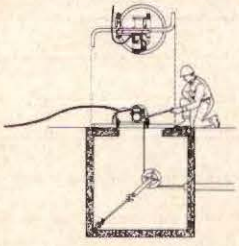
Horizontal pull with 2001 Easy Tugger Puller and 2049 Pipe Adapter Sheave.



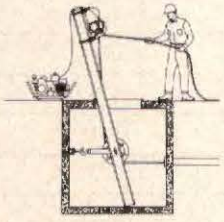
Feeding cable using Flexible Pipe Adapter or Feeding Sheave.



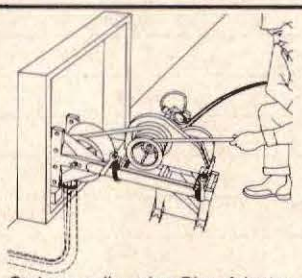
Pulling to Utility Pole.



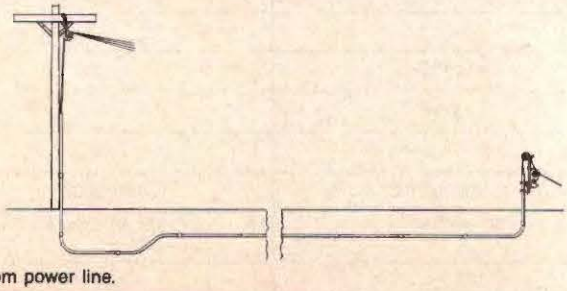
Manhole pull using Hook Sheave and bent rigid conduit.



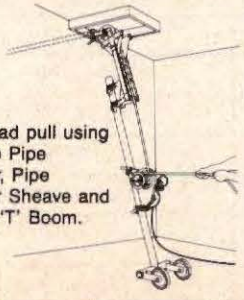
Manhole pull using Manhole Sheave.



Stub-up pulls using Pipe Adapter Sheave.



Pull from power line.



Overhead pull using Flexible Pipe Adapter, Pipe Adapter Sheave and Mobile 'T' Boom.

CAUTION:
Illustrated are typical pulling setups. Actual applications may require variations from these examples. Always make sure all components of the pulling system have adequate load rating.

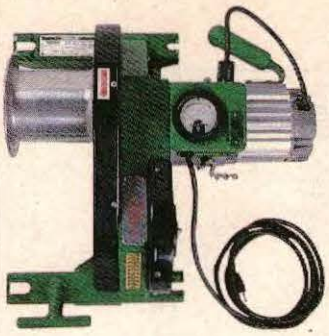
PULLING

CABLE PULLER SELECTION GUIDE

Choose the GREENLEE Cable Pulling System that fits your needs.

Safety First

Make sure all pulling accessories have the proper load rating for the puller and pull. Read and understand both operating and safety instructions before pulling cable. See pages 55-58 for information on pulling rope selection.

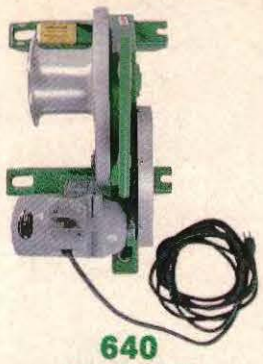


6001 Super Tugger®

POWER CABLE PULLER 6500 POUND PULLING FORCE

The 6001 Super Tugger Puller is the premium high-force puller. The Super Tugger is available individually or in two complete pulling systems.

Tool	Cat. No.
Puller and Chains	6001
Complete Pulling System for Exposed and Concealed Pulling	6000
Complete Pulling System for Long Distance Exposed or Concealed Pulling	6006



640 Tugger™

POWER CABLE PULLER 4000 POUND PULLING FORCE

The 640 Tugger is the "standard of the industry" puller. The Tugger is available individually or in three pulling systems as follows:

Tool	Cat. No.
Puller and Chains	640
Basic Pulling System for Exposed Pulling	642
Complete Pulling System for Exposed Pulling	670
Complete Pulling System for Exposed and Concealed Pulling	686



2001 Easy Tugger™

POWER CABLE PULLER 2000 POUND PULLING FORCE

The Easy Tugger Puller is available individually or in three complete pulling system as follows:

Tool	Cat. No.
Puller and Chains	2001
Basic Pulling System for Exposed Pulling	2042
Complete Pulling System for Exposed and Concealed Pulling	2070
Deluxe Pulling System for Exposed and Concealed Pulling	2086

PULLING FORCE			
CONTINUOUS	4500 LBS.	2500 LBS.	1400 LBS.
MAXIMUM	6500 LBS.	4000 LBS.	2000 LBS.
WEIGHT			
PULLER	87 LBS.	68 LBS.	52 LBS.
CHAINS	8 LBS.	8 LBS.	6 LBS.
DIMENSIONS			
LENGTH	20-3/4"	22"	15"
WIDTH	22-1/2"	14-1/4"	19"
HEIGHT	12"	17-3/4"	9-1/2"
SPEED (FEET PER MINUTE)			
NO LOAD	16.5 FPM	17 FPM	22 FPM
500 LBS.	—	—	—
800 LBS.	—	—	—
1200 LBS.	—	—	—
2000 LBS.	11 FPM	13.5 FPM	11 FPM
4000 LBS.	7.5 FPM	9 FPM	—
6000 LBS.	6 FPM	—	—
POWER	1-1/2 HP ELECTRIC	1 HP ELECTRIC	1/2 HP ELECTRIC
ROPE	7/8" NYSTRON	7/8" MULTIPLEX	5/8" MULTIPLEX
COMPLETE DETAILS	PAGE 42	PAGE 43	PAGE 44

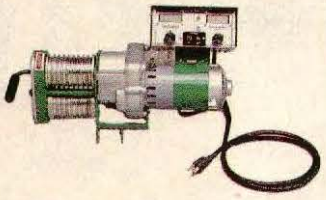


2005 Hydraulic Easy Tugger™ Cable Puller

2000 POUND PULLING FORCE

HYDRAULIC POWER SOURCE: Low pressure 2000 p.s.i. hydraulic system delivering 6 gallons per minute is required for maximum puller force output. No electricity required.

Tool	Cat. No.
Hydraulic Cable Puller includes foot control, hoses and hold down chains	2005

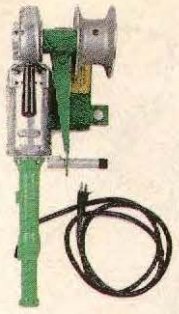


805 Variable Speed Controlled Force Puller

800 POUND PULLING FORCE

The 805 Variable Speed Puller is designed to meet the unique pulling requirements of fiber optic or any other type of communication cable by providing direct operator control over both pulling speed and pulling force.

Tool	Cat. No.
Variable Speed Controlled Force Cable Puller	805



446 Porta-Puller®

POWER CABLE PULLER 1200 POUND PULLING FORCE

The Porta-Puller® Cable Puller uses the 440 Porta-Thred® for power. Available with or without Porta-Thred® power unit.

Tool	Cat. No.
Porta-Puller Package without 440 Power Drive	444
Complete Porta-Puller Package with 440 Power Drive	446



766 Manual

WIRE PULLER 1500 POUND PULLING FORCE

Ratchet-action, two-speed puller will pull 1500 lbs. with 30 lbs. handle pressure. Comes with 200 ft. of aircraft-type steel swaged cable.

Tool	Cat. No.
Manual Wire Puller	766

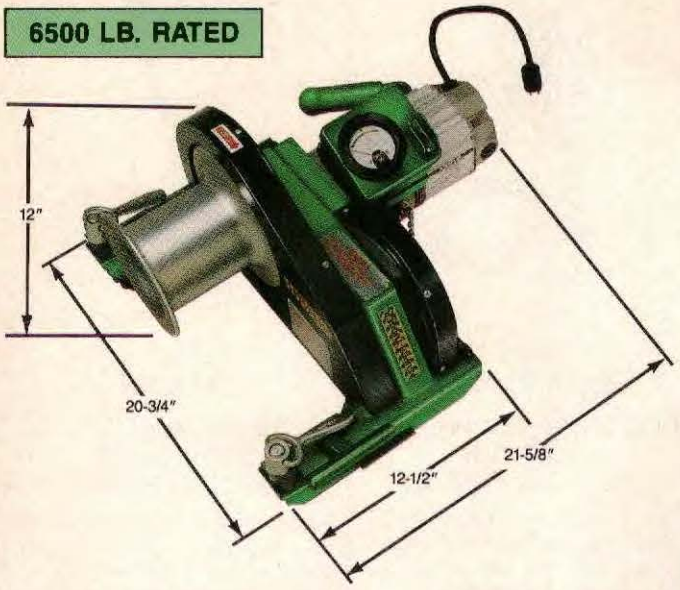
PULLING

1300 LBS.	600 LBS.	500 LBS.	—
2000 LBS.	800 LBS.	1200 LBS.	1500 LBS.
63 LBS.	33 LBS.	44 LBS.	35 LBS.
3 LBS.	6 LBS.	3 LBS.	—
15″	8″	28″	52″
15″	18″	12″	18″
9-1/2″	11-1/4″	12″	10″
UP TO 125 FPM	UP TO 75 FPM	—	—
—	—	20.9 FPM	—
—	UP TO 35 FPM	—	—
—	—	15.7 FPM	—
UP TO 120 FPM	—	—	—
—	—	—	—
—	—	—	—
HYDRAULIC MOTOR	1/2 HP ELECTRIC	1/3 HP ELECTRIC	—
5/8″ MULTIPLEX	3/8″ MULTIPLEX	1/2″ MULTIPLEX	(COMES WITH 200 FT. OF AIRCRAFT-TYPE STEEL CABLE)
PAGE 45	PAGE 46	PAGE 45	PAGE 45

PULLING

Super Tugger® 6001 Cable Puller

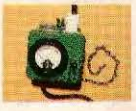
6500 LB. RATED



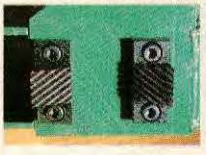




- Pulls at up to 16 ft. per minute.
- Powerful . . . 1-1/2 horsepower, 115 volt.*
- Removable force gauge . . . helps you monitor the pull.



- Force limiting circuit protection . . . automatically shuts down in overload situations. Helps protect the run and equipment turns back on with a flick of the switch.
- Anti-reversing clutch . . . helps hold the pull if power fails during operation.
- Handle and rope cleat.
- Serrated mounting grids . . . helps keep unit secure throughout the pull.
- Vise chain mounting clamps.



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
*6001	60010	Super Tugger Cable Puller with Force Gauge and Vise Chains	108
31645	31645	Replacement Force Gauge	4.1
29710	29710	Replacement Force Gauge Extension Cord	2.3
29631	29631	Replacement 36" Vise Chain (2 required)	4.6

*Also available in 220 volt - call for details.

Safety First

Make sure all pulling accessories have the proper load rating for the puller and pull. Read and understand both operating and safety instructions before pulling cable. See pages 55-58 for information on pulling rope selection.

U.S.A. PATENT NOS. 4553738, 4555093. ALSO INTERNATIONAL PATENTS.

Super Tugger® Pulling Systems and Accessories

6500 LB. RATED



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
*6000	10752	Super Tugger Cable Pulling System with 300 ft. of Rope	550
*6006	60060	Super Tugger Cable Pulling System with 600 ft. of Rope	612

*Also available in 220 volt - call for details.

Key	Cat. No.	NAED/DCI No. 78-3310	Description	6000	6006	6082
A	6001	60010	Heavy-Duty Cable Puller with Vise Chains	1	1	—
B	6049	60310	Heavy-Duty Pipe Adapter Sheave	1	1	—
C	6085	60270	Flexible Pipe Adapter	1	1	1
D	6080	60266	Mobile Extension Boom	1	1	1
E	16782	16782	2" Extension Bushing	1	1	1
E	16783	16783	2-1/2" Extension Bushing	1	1	1
E	16784	16784	3" Extension Bushing	1	1	1
E	16785	16785	3-1/2" Extension Bushing	1	1	1
E	16786	16786	4" Extension Bushing	1	1	1
F	34136	34136	7/8" x 300' Nystron Rope	1	—	—
F	34137	34137	7/8" x 600' Nystron Rope	—	1	—
F	34138	34138	7/8" x 1200' Nystron Rope (optional)	—	—	—
G	654	34362	Rope Reel Stand	1	1	—
H	6012	60120	12" Heavy-Duty Hook-Type Cable Sheave	1	1	—
I	695	10818	Caster Set (2 swivel and 2 rigid)	1	1	—
J	626	11154	Steel Storage Box	1	1	—

6082 Super Tugger® Mobile Extension Boom Kit

6500 LB. RATED



6049 Super Tugger® Pipe Adapter Sheave

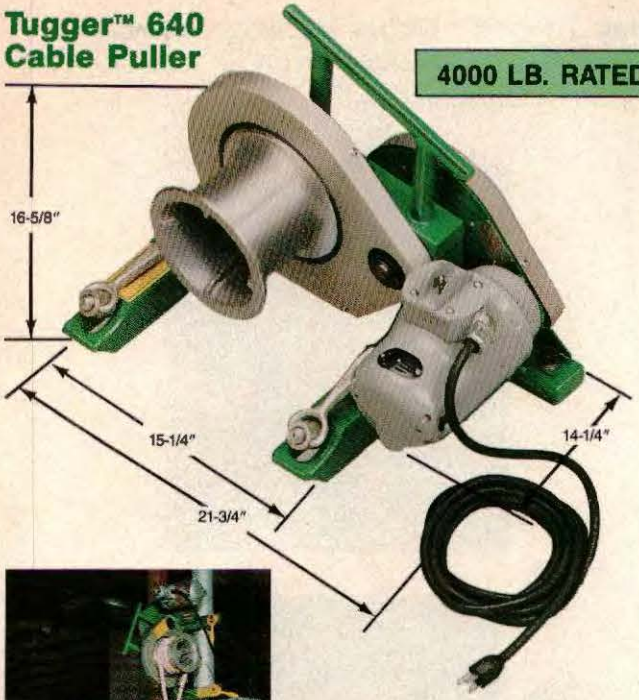
6500 LB. RATED



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
6049	60310	Pipe Adapter Sheave	69
6082	60268	Extension Boom Kit (includes the 6085 Flexible Pipe Adapter, the Mobile Extension Boom, and five conduit extension bushings)	86

Tugger™ 640 Cable Puller

4000 LB. RATED





- Pulls at up to 17 ft. per minute.
- Powered by 1 horsepower 115 volt electric motor.*
- Anti-reversing clutch . . . helps hold the pull if power fails during operation.
- Vise chains for secure mounting.
- Handle/rope tie-off cleat.
- On/off switch.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
640*	10705	Power Puller with Vise Chains	82
27834	27834	Replacement Vise Chain Unit (2 required)	4

*Also available in 220 volt - call for details.

Safety First

Make sure all pulling accessories have the proper load rating for the puller and pull. Read and understand both operating and safety instructions before pulling cable. See pages 55-58 for information on pulling rope selection.

Tugger™ Pulling Systems and Accessories

4000 LB. RATED



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
642*	06420	Puller "Package"	330
670*	10750	Power Puller "Package"	351
686*	10780	Complete Power Puller "Package"	427

*Also available in 220 volt - call for details.

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	642	670	686
A	640	10705	Power Puller with Vise Chains	1	1	1
B	649	10985	Pipe Adapter Sheave	1	1	1
C	34133	34133	7/8" x 300' Multiplex Rope	1	1	1
C	34134	34134	7/8" x 600' Multiplex Rope (Optional)	—	—	—
C	34135	34135	7/8" x 1200' Multiplex Rope (Optional)	—	—	—
D	644	10815	Rope Reel Stand	1	1	1
E	685	10779	Flexible Pipe Adapter	—	—	1
F	6080	60266	Mobile Exension Boom	—	—	1
G	16782	16782	2" Extension Bushing	—	—	1
G	16783	16783	2-1/2" Extension Bushing	—	—	1
G	16784	16784	3" Extension Bushing	—	—	1
G	16785	16785	3-1/2" Extension Bushing	—	—	1
G	16786	16786	4" Extension Bushing	—	—	1
H	651	10955	12" Hook-Type Cable Sheave, 3-1/4" Radius	—	1	1
I	695	10818	Caster Set (2 Swivel & 2 Rigid)	—	1	1
J	626	11154	Storage Box	1	1	1

682 Tugger™ Extension Boom Kit



- Helps keep pulling force in line with the conduit.
- Helps eliminate strains on hangers and boxes.
- For vertical and horizontal pulls.
- Includes Keys E, F, and G (see above for ordering information).

649 Tugger™ Adapter Sheave

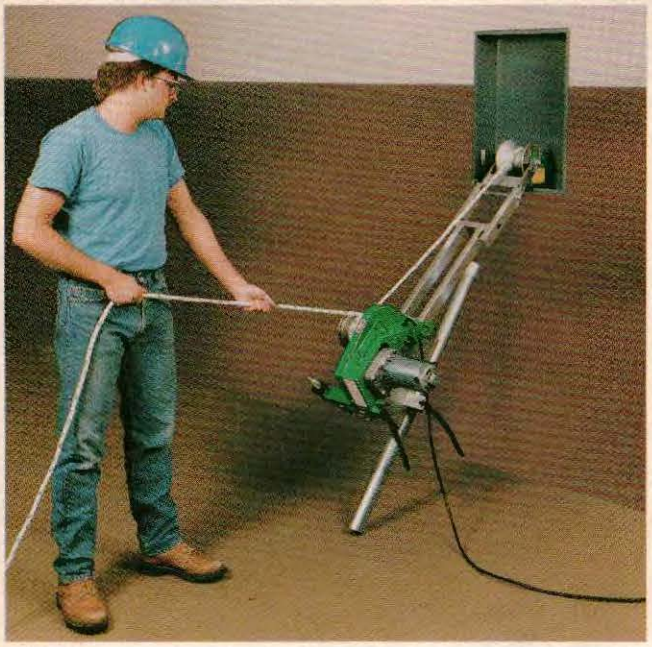


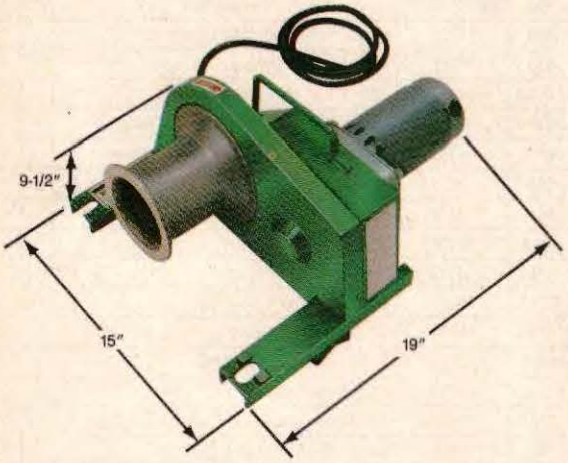
- Pull extra cable for makeup in a single setup.
- Compact, easy to set up.
- 12" sheave easily adjusts to four positions.
- See above for ordering information.

PULLING

Easy Tugger™ 2001 Cable Puller

2000 LB. RATED





- Fast . . . One man set-up.
- Pulls up to 22 ft. per minute.
- Lightweight . . . Puller weighs only 52 lbs.
- Anti-reversing clutch helps hold the pull if power fails while pulling.
- Force limiting protection . . . automatically shuts down in overload situations to help protect the run and equipment.
- 1/2 horsepower 115 volt.*

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
2001*	02001	Easy Tugger™ Power Puller with Vise Chains	52
29825	29825	Replacement 24" Vise Chain (2 required)	3.4

*Also available in 220 volt - call for details.

Safety First

Make sure all pulling accessories have the proper load rating for the puller and pull. Read and understand both operating and safety instructions before pulling cable. See pages 55-58 for information on pulling rope selection.

Easy Tugger™ Cable Pulling Systems and Accessories





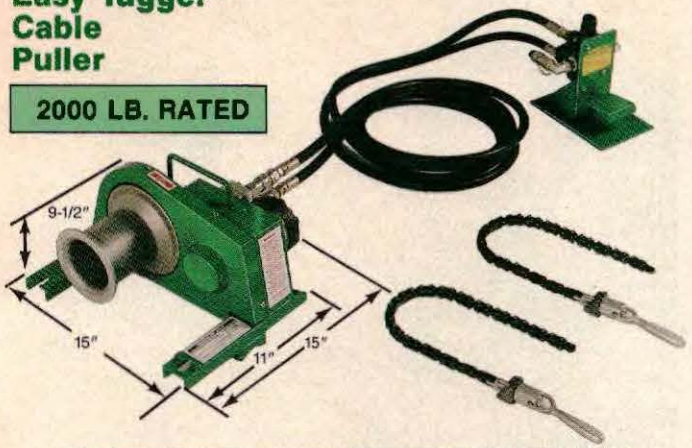
Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
2042*	02082	Easy Tugger™ Basic Cable Pulling System	275
2070*	02084	Easy Tugger™ Complete Cable Pulling System	331
2086*	02086	Easy Tugger™ Deluxe Cable Pulling System	373

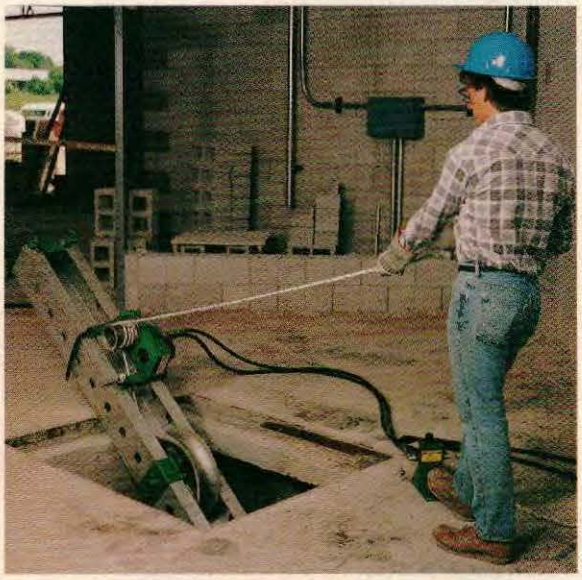
*Also available in 220 volt - call for details.

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	2042	2070	2086
A	2001	02001	Easy Tugger™ Power Puller with Chains	1	1	1
B	2049	02088	Pipe Adapter Sheave	1	1	1
C	483	10009	5/8" x 300' Multiplex Rope	1	1	1
C	484	10010	5/8" x 600' Multiplex Rope (Optional)	—	—	—
C	485	10011	5/8"x1200" Multiplex Rope (Optional)	—	—	—
D	644	10815	Rope Stand	1	1	1
E	665	11160	Storage Box	1	1	1
F	80-1	80025	1 Gal. Green 80™ Pulling Lube	—	1	1
G	685	10779	Flexible Pipe Adapter Sheave	—	1	1
H	5 2654	52654	1-1/4" Reducing Bushing	—	1	1
H	5 2655	52655	1-1/2" Reducing Bushing	—	1	1
H	1 6782	16782	2" Conduit Extension Bushing	—	1	1
H	1 6783	16783	2-1/2" Conduit Extension Bushing	—	1	1
H	1 6784	16784	3" Conduit Extension Bushing	—	1	1
I	651	10955	6" Hook-Type Cable Sheave	—	1	1
J	695	10818	Caster Set	—	1	1
K	3 0758	30758	Building Wire Grip Kit	—	—	1
L	597	10320	Grip Kit	—	—	1
M	441-2	05288	2" Cable Feeding Sheave	—	—	1
M	441-2-1/2	05290	2-1/2" Cable Feeding Sheave	—	—	1
M	441-3	05292	3" Cable Feeding Sheave	—	—	1

2005 Hydraulic Easy Tugger™ Cable Puller

2000 LB. RATED





Pulling Just Got Faster!

- Variable speed up to 125 feet per minute means more pulls per day, increasing productivity.
- Foot operated speed control provides operator with effective control of the puller.
- Lightweight and portable, the 2005 sets up fast, with less manpower.
- Pulls up to 2,000 lbs., plenty of power for most common pulls.
- Powered with 2,000 PSI hydraulic system delivering six gallons per minute. No electricity required.
- Specially profiled aluminum capstan provides operator control of the pull.
- Leaf mounting chains apply an exceptional grip to secure puller during tough pulls.

ORDERING INFORMATION

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
2005	32637	**Hydraulic Cable Puller Includes: Foot Control, Hoses and Vise Chains**	82
32658	32658	Replacement Foot Control for 2005 Cable Puller includes 2 Hoses	
32649	32649	Replacement 10' Hose Unit with Female Coupler	
32650	32650	Replacement 10' Hose Unit with Male Coupler	
29825	29825	Replacement 24" Vise Chain (2 req.)	4

444, 446 Porta-Puller® Cable Pullers

1200 LB. RATED



- Foot switch for operator control.
- Pulls up to 1200 lbs.
- Uses 440 Porta-Thred as power source. (See page 28.)

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
444	10006	**Porta-Puller Package without power drive.** Same as 446 but without 440 PORTA-THRED®	140
446	02770	**Porta-Puller with PORTA-THRED® Complete**	165

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	444	446
A	1 6782	16782	2" Conduit Extension Bushing	1	1
	1 6783	16783	2-1/2" Conduit Extension Bushing	1	1
	5 2654	52654	2" x 1-1/4" Reducing Bushing	1	1
	5 2655	52655	2" x 1-1/2" Reducing Bushing	1	1
B	480	10005	1/2" x 300' Multiplex Rope	1	1
C	406	10784	Rope Stand	1	1
D	442	02750	Cable Puller Attachment	1	1
E	2043	02755	Pipe Adapter Sheave	1	1
F	445	02765	Foot Switch Complete with 3 Prong Plug	1	1
G	667	11165	Steel Storage Box	1	1
H	504	01820	Wire Grip for 1-1/4" - 1-1/2" Conduit	1	1
I	678	01940	Rope Clevis	1	1
J	440	10100	PORTA-THRED® —Power Source	—	1

766 Lightweight Wire Puller

Pulls 1500 Lb. . . . with only 30 lbs. handle pressure



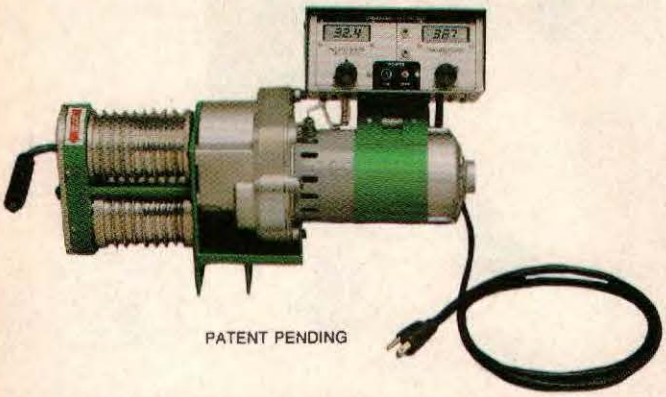
- Lightweight—only 35 lbs.
- Ratchet action 2 speed for easy, efficient operation.
- Equipped with 200 ft. aircraft-type swaged steel cable.
- Completely self-contained and ready to operate.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
766	01950	**Lightweight Wire Puller** with 200-ft. of aircraft-type steel cable	35
5 0954	06150	Replacement 200-ft. spool of aircraft-type swaged steel cable	
1 3955	05190	Replacement shear pin	
2 8280	28280	Replacement crank handle assembly	

PULLING

805 Variable Speed Controlled Force Puller

800 LB. RATED



PATENT PENDING

- Designed to meet the unique pulling requirements of fiber optic or any other type of communication cable.
- Provides direct operator control over both pulling speed and force.
- Electronic module continuously displays speed and force. Also may be attached to chart recorder for a permanent record.
- Force limit feature shuts down the puller when the force level, preset by the operator, is exceeded.
- High speed, pulls up to 75 feet per minute.

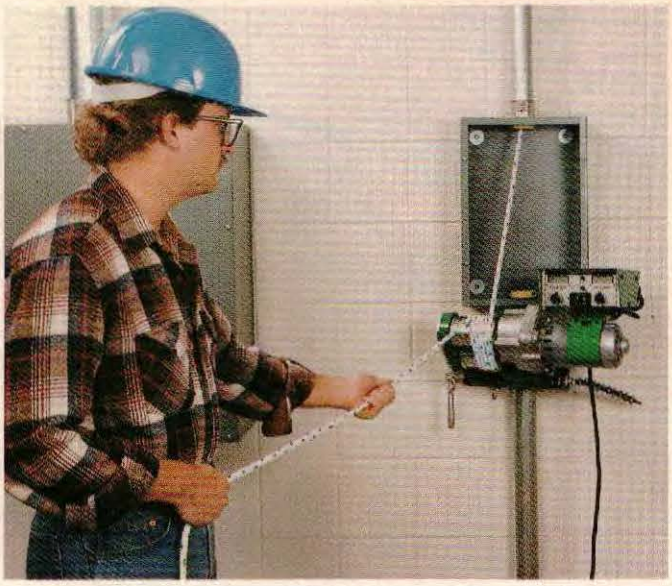


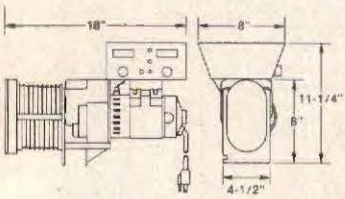
1. **Liquid Crystal Display of Pulling Speed*** lets operator accurately monitor pulling speed in feet per minute on easy-to-read screen.
2. **Pulling Force Reset Switch** protects cable from "quick-snap stressing" during start-up after automatic shutdown caused by exceeding the pre-set limit.
3. **Pulling Force Set Limit Button** protects delicate cable during pulling process by pre-setting maximum desired pull force.
4. **Pulling Speed Control** allows operator to adjust speed during pull.
5. **Liquid Crystal Display of Pulling Force***, in pounds, allows operator to continually monitor pulling force on an easy-to-read screen.
6. **On/Off Power Switch** on console or with optional foot switch stops capstan rotation but maintains power to the controller.
7. **Pulling Force Control** used to adjust maximum pulling force at the capstan from 200 to 800 lbs.
8. **Pulling Force Chart Recorder Output Jack** for easy hook-up of continuous force strip recorder.

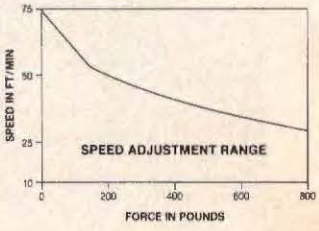
***Note:** This tool is factory calibrated to 500 pounds, +2%-5%, at 15 feet per minute. Accuracy at other pulling loads and speeds may vary. Calibration must be certified annually by Greenlee Tool Company.

Safety First

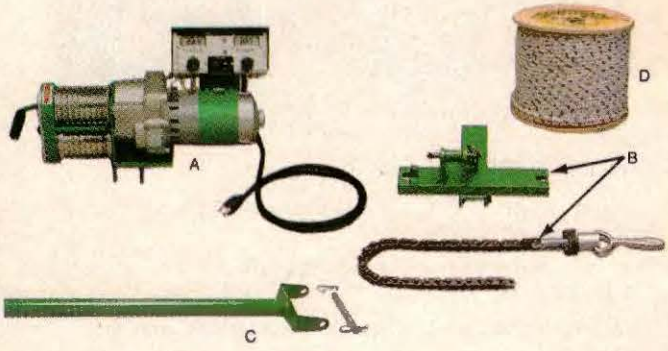
Make sure all pulling accessories have the proper load rating for the puller and pull. Read and understand both operating and safety instructions before pulling cable. See pages 55-58 for information on pulling rope selection.







Ordering Information



Key	Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
A, B	805	33678	Puller Complete—Includes **(A)** Puller, Speed and Force Control Module, **(B)** Leaf Chain, Mounting Bracket and Steel Storage Case.	103

ACCESSORIES

Key	Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
C	33656	33656	Boom Mount for pull box mounting, must be used with a 441 Feeding Sheave. See page 48.	12
	33629	33629	On/Off Foot Switch (not shown)	
D	34121	34121	100-foot spool—3/8" Multiplex Rope **(D)**	
D	34122	34122	300-foot spool—3/8" Multiplex Rope	
D	34123	34123	600-foot spool—3/8" Multiplex Rope	
D	34124	34124	1200-foot spool—3/8" Multiplex Rope	

Hook Sheaves

Features:

- Welded steel frame
- Cast steel closure type hook
- Self-lubricating bearings
- Aluminum alloy sheave



Hook-Type Sheave

4000 LB. RATED

SHEAVE WIDTH 5"

HOOK OPENING 1"



650 651 652 653

Cat. No.	650	651	652	653
NAED/DCI No. 78-3310-	10945	10955	10965	10975
Size	6"	12"	18"	24"
Wt./Lbs.	8.8	15	25	35
Min. Radius	1-1/2"	3-5/16"	7"	9-13/16"
Overall Length	17-1/2"	22-7/8"	28"	32"
Overall Width	6-3/4"	6-3/4"	7"	7"
Sheave Pin	16797	16797	16797	16797
Spring Clip	2725AA	2725AA	2725AA	2725AA
Sheave	15362	15358	15363	15364
Yoke Frame	16799	16800	16801	16802

Heavy-Duty Hook Sheaves

6500 LB. RATED

HOOK OPENING 1-1/2"

EXTRA WIDE STANDARD



Standard Hook Sheaves - 5" Sheave Width

Cat. No. Standard	6012	6018	6024
NAED/DCI No. 78-3310-	60120	60180	60240
Size	12"	18"	24"
Wt./Lbs.	20	30	43
Minimum Radius	3-5/16"	7"	9-13/16"
Overall Length	21-1/2"	28-5/8"	34-5/8"
Overall Width	7"	7"	7"
Sheave Pin	29600	29600	29600
Sheave Clip	50302	50302	50302
Sheave	29616	29617	29618
Yoke Frame	29608	29609	29610

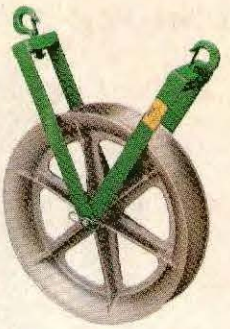
Extra Wide Hook Sheaves - 6-1/2" Sheave Width

Cat. No. Extra Wide	6112	6118	6124
NAED/DCI No. 78-3310-	33567	33570	33573
Size	12"	18"	24"
Wt./Lbs.	25	48	65
Minimum Radius	3-5/32"	7"	9-13/16"
Overall Length	21-1/4"	28-1/2"	34-1/4"
Overall Width	8-7/8"	8-7/8"	8-7/8"
Sheave Pin	33595	33595	33595
Sheave Clip	50302	50302	50302
Sheave	33576	33577	33580
Yoke Frame	33563	33568	33571
Sheave Bushings	32081	32081	32081

639 Right Angle Twin Yoke Sheave

4000 LB. RATED

- 9-13/16" radius
- Welded steel yoke
- Aluminum alloy sheave
- Cast steel closure type hook with 1" opening



Cat. No.	NAED/DCI No. 78-3310	Description	Qty.	Wt./Lbs.
639	10935	Twin Yoke Sheave		45
15364	15364	Sheave Unit	1	
17266	17266	Sheave Pin	1	
2725AA	50302	Spring Clip	2	
17299	17299	Yoke Frame	2	

631, 636, 637 and 638 Radius Type Cable Sheaves

4000 LB. RATED

1" HOOK OPENING

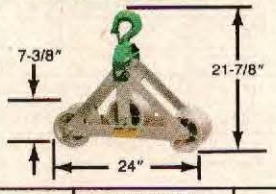
- Welded steel frame
- Aluminum alloy sheaves - 5" wide

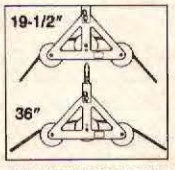


Cat. No.	636	637	638	631
NAED/DCI No. 78-3310-	10905	10915	10925	11153
Radius	16"	24"	36"	48"
Wt./Lbs.	49	63	85	115
Overall Length	31-13/16"	48-3/8"	64-3/4"	92"
Overall Height	23-3/8"	29-7/8"	22-1/2"	41-3/4"
No. of Sheaves & Pins	4	6	8	10
Sheave	15362	15362	15362	15362
Sheave Pin	17256	17256	17256	17256
Spring Clip - 2 per pin	50302	50302	50302	50302
Yoke Frame	17257	17257	17257	17257
Frame	17258	17261	17264	17273

6036 Triple Sheave Cable Guide

6500 LB. RATED





ADJUSTABLE 19-1/2" OR 36" RADIUS

Cat. No.	NAED/DCI No. 78-3310-	Description	Qty.	Wt./Lbs.
6036	60260	Triple Sheave		28
15362	15362	Sheave	3	
31573		Sheave Axle	3	
53091		Sheave Bolt	6	
51434	51434	Sheave Bolt Washer	6	
29600	29600	Pin	1	
50302	50302	Pin Clip	2	

PULLING

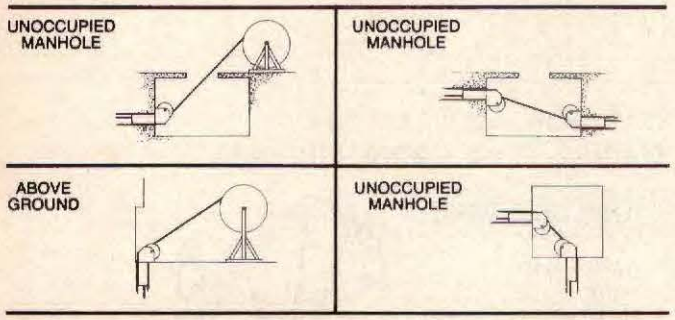
441 Feeding Sheave



NOTE: Rated up to 6500 lbs. depending on angle of pull and size of Feeding Sheave. Refer to instructions before using.

- Helps guide and protect cable.
- Cable slides through opening in tube for removal.

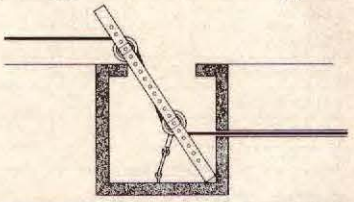
APPLICATIONS



Cat. No.	NAED/DCI No. 78-3310-	Conduit Size	A	B	C	Wt./Lbs.
441-2	05288	2"	6-1/2"	4-1/8"	1-1/4"	11
441-2-1/2	05290	2-1/2"	8"	4-7/8"	1-3/8"	13
441-3	05292	3"	9-1/2"	4-15/16"	1-13/16"	14
441-3-1/2	05293	3-1/2"	11"	5-7/8"	1-7/8"	17
441-4	05294	4"	12-1/2"	7-1/2"	2"	19
441-5	05295	5"	15-1/2"	8-1/2"	2-1/4"	26
541	01628	Feeding Sheave Set 1 each 3", 3-1/2", 4" in 667 Storage Box.				124

Manhole Sheaves





- High strength aluminum alloy frame
- 18" aluminum sheaves with 7" minimum radius
- Adjustable
- Self-lubricating bearings

Cat. No.	671	6048	6072
NAED/DCI No. 78-3310-	11005	60262	60264
Size	10'	8'	12'
Wt./Lbs.	104	158	190
Load Rating Lbs.	4000	6500	6500
Actual Length	10'	7'6"	11'6"
Actual Width	9-3/4"	14-3/8"	14-3/8"
Hook Opening	1"	1-1/2"	1-1/2"

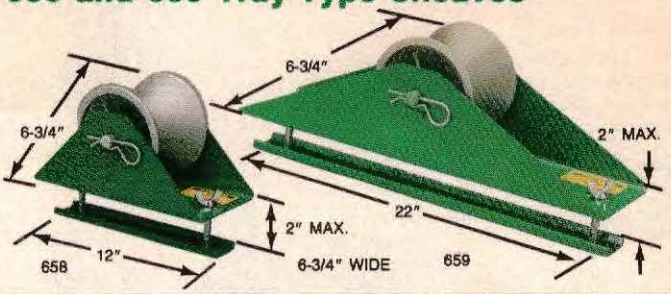
489 Cable Guide



- Rugged high impact plastic.
- Simply slips into position for easy setup. Helps protect cable.

Cat. No.	Description	Wt./Lbs.
489	Cable Guide	.5 Ea.

658 and 659 Tray-Type Sheaves

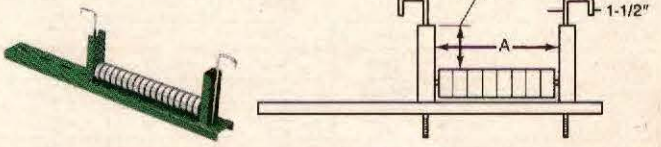


Cat. No.	658	659
NAED/DCI No. 78-3310-	11025	11035
Weight Lbs.	11	17

Cable Rollers

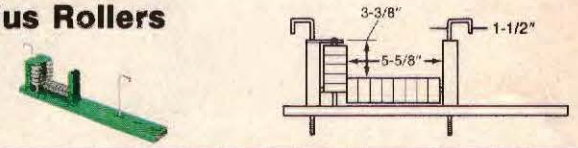
- Ball bearing individual rollers
- Steel welded frame
- Adjustment slots for universal mounting

Straight Rollers



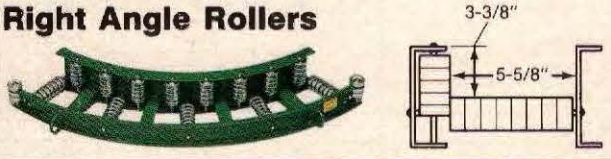
Cat. No.	NAED/DCI No. 78-3310-	Tray Size Range	A	Wt./Lbs.
2018S	20185	12" to 18"	6-5/16"	8
2024S	20245	20" to 24"	12-1/2"	10
2030S	20305	24" to 30"	18-11/16"	13
2036S	20365	30" to 36"	24-7/8"	15

Radius Rollers



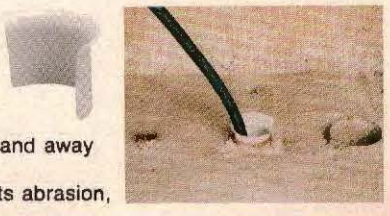
Cat No.	NAED/DCI No. 78-3310-	Tray Size Range	Wt./Lbs.
2018R	20180	12" to 18"	11
2024R	20240	20" to 24"	12
2030R	20300	24" to 30"	13
2036R	20360	30" to 36"	14

Right Angle Rollers



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
20249R	20249	24" Radius 90°	41
20369R	20369	36" Radius 90°	53

Nylon Cable Protectors

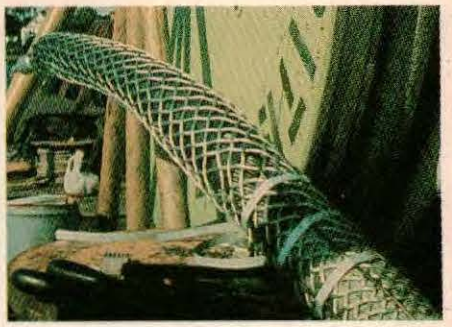


- Guides cable into conduit and away from sharp edges.
- Rugged construction resists abrasion,

Cat. No.	Description	Wt./Lbs.
488-2	Nylon Cable Protector for 2" and 2-1/2" Conduit	.08 Ea.
488-3	Nylon Cable Protector for 3" thru 6" Conduit	.2 Ea.







How to select correct pulling grip:

1. Select the type of grip needed.

GRIP TYPE	DESCRIPTION	TYPE OF EYE	SIZE RANGE DIA. INCHES	WORKING LOAD RANGE (LBS.)	USE TO PULL
JUNIOR GRIPS	Single weave galvanized steel mesh	Flexible	.19-1.24	80-780	In conduit or tray — Building wire by hand.
LIGHT DUTY GRIPS	Single weave galvanized steel mesh	Flexible	.50-3.99	560-2940	In conduit or tray — Light duty applications, short easy runs.
T-TYPE GRIPS	Double weave galvanized steel mesh	Flexible	.50-3.99	900-6200	In conduit or tray — Medium duty applications.
K-TYPE GRIPS	Double weave galvanized steel mesh	Rotating* forged	.50-6.99	1120-9600	In conduit or tray — Heavy duty applications, long hard runs.
MULTIPLE STRENGTH GRIPS	Triple to double to single weave galvanized steel mesh	Flexible or Rotating forged	.25-3.99	1360-9600	Overhead transmission lines - Bare or insulated conductors, wire rope.
DUA-PULL® GRIPS	Two over and two under weave galvanized steel mesh	Flexible	.19-1.90 (.25-2.10 in rope)	1300-13300	Overhead transmission lines - Bare or insulated conductors, synthetic rope.
SLACK GRIPS					Slack out or remove cable.
- LACE CLOSING	Double weave galvanized steel mesh - rawhide closing - offset eye	Flexible	.75-3.99	500-800	Where end of conductor is not available. Can be pulled straight or around bends.
- ROD CLOSING	Double weave galvanized steel mesh - rod closing - offset eye	Flexible	.50-3.99	300-2400	Where end of conductor is not available. Can be pulled straight only rod will not flex.
- CLOSED MESH	Single weave galvanized steel closed mesh - offset eye	Flexible	.75-3.99	520-2900	Can be slid over end of conductor. Can be pulled straight or around bends.
NON-CONDUCTIVE GRIPS	Pellethane jacketed aramid fiber mesh	Flexible	.50-1.49	560-840	In conduit or tray — Building wire, communication cable — non-conductive, non-corrosive.
WIRE ROPE GRIP	Triple to double to single weave galvanized steel mesh.	No eye grip in both directions	.56-1.50	1500-4000	Grip old wire rope or cable to one end. Grip the new in the other and pull the new into position. May be used as a temporary splice.

*Rotating eye - is not a swivel and will not turn under tension; it can turn to relieve pulling torque when tension is relaxed.

2. Select the size of grip needed.

After determining the type of grip needed, measure the diameter of the cable being pulled. If pulling more than one cable "of the same diameter" refer to chart below for diameter range. If pulling more than one cable, "of different diameters," bundle cables together, measure the circumference and refer to the chart at right for diameter range.

Once cable diameter or diameter range is determined, refer to chart for type of grip chosen to locate catalog number.

SINGLE CABLE DIAMETERS	CABLES WITH THE SAME DIAMETER IN ONE GRIP*							Diam. Range
	2 CABLES	3 CABLES	4 CABLES	5 CABLES	6 and 7 CABLES	8 CABLES	9 CABLES	
	.30- .38 .38- .44 .44- .59	.25- .31 .31- .36 .36- .49	.22- .27 .27- .31 .31- .42	.19- .24 .24- .29 .29- .38	.17- .22 .22- .26 .26- .34	.15- .19 .19- .23 .23- .31	.14- .18 .18- .21 .21- .28	.50- .61 .62- .74 .75- .99
	.59- .75 .75- .90 .90-1.07	.49- .63 .63- .76 .76- 89	.42- .54 .54- .65 .65- .77	.38- .48 .48- .58 .58- .67	.34- .43 .43- .52 .52- .60	.31- .39 .39- .46 .46- .54	.28- .35 .35- .42 .42- .49	1.00-1.24 1.25-1.49 1.50-1.74
	1.07-1.22 1.22-1.53 1.53-1.83	.89-1.02 1.02-1.28 1.28-1.53	.77- .88 .88-1.10 1.10-1.32	.67- .77 .77- .96 .96-1.16	.60- .69 .69- .86 .86-1.03	.54- .62 .62- .77 .77- .93	.49- .56 .56- .71 .71- .85	1.75-1.99 2.00-2.49 2.50-2.99
	1.83-2.14 2.14-2.44 2.44-2.75	1.53-1.79 1.79-2.05 2.05-2.30	1.32-1.54 1.54-1.76 1.76-1.98	1.16-1.35 1.35-1.54 1.54-1.74	1.03-1.20 1.20-1.37 1.37-1.55	.93-1.08 1.08-1.24 1.24-1.39	.85- .99 .99-1.13 1.13-1.27	3.00-3.49 3.50-3.99 4.00-4.49
	2.75-3.06	2.30-2.56	1.98-2.20	1.74-1.93	1.55-1.72	1.39-1.55	1.27-1.41	4.50-4.99

*Split grips require the next larger size.

Measure the Circumference of the Wire Bundle



CIRCUM. RANGE -Inches-	Diam. Range -Inches-
1.57— 1.95 1.95— 2.36 2.36— 3.14	.50— .61 .62— .74 .75— .99
3.14— 3.93 3.93— 4.71 4.71— 5.50	1.00—1.24 1.25—1.49 1.50—1.74
5.50— 6.28 6.28— 7.85 7.85— 9.42	1.75—1.99 2.00— 2.49 2.50— 2.99
9.42—11.00 11.00—12.57 12.57—14.14	3.00—3.49 3.50—3.99 4.00—4.49
14.14—15.71	4.50—4.99

3. Make sure the working load of the specific grip you select is greater than the force required for the pull. Please refer to the tables on the following pages for working load specifications by grip.

Grip Selection Guide for Building Wire

T.H.W. BUILDING WIRE

Cat. No. or NAED/DCI No. 78-3310-	Cable Diameter Range -Inches-	Design Strength lbs.	Approximate Number of Wires in One Grip								
			#14 7 Strand	#12 7 Strand	#10 7 Strand	#8 7 Strand	#6 7 Strand	#4 7 Strand	#2 7 Strand	#1 19 Strand	#1/0 19 Strand
3 0584	.25— .36	450	2—4	2—3	2	1	1	1	—	—	—
3 0586	.37— .49	900	5—7	4—5	3—4	2	—	—	1	—	—
3 0588	.50— .61	1,300	8—11	6—8	5—7	3—4	2	2	—	1	1
3 0590	.62— .74	1,950	12—16	9—12	8—10	5—6	4	3	2	—	—
3 0592	.75— .99	2,800	17—30	13—24	11—19	7—10	5—7	4—5	3—4	2	2
3 0594	1.00—1.24	3,900	31—48	25—37	20—30	11—17	8—11	6—8	5—6	3—4	3

R.H.H., R.H., R.W. AND R.H.W. BUILDING WIRE

Cat. No. or NAED/DCI No. 78-3310-	Cable Diameter Range -Inches-	Design Strength lbs.	Approximate Number of Wires in One Grip								
			#14 7 Strand	#12 7 Strand	#10 7 Strand	#8 7 Strand	#6 7 Strand	#4 7 Strand	#2 7 Strand	#1 19 Strand	#1/0 19 Strand
3 0584	.25— .36	450	2	2	1	1	—	—	—	—	—
3 0586	.37— .49	900	3	2—3	2	—	1	1	1	—	—
3 0588	.50— .61	1,300	4—5	4—5	3—4	2	—	—	—	1	—
3 0590	.62— .74	1,950	6—8	6—7	4—5	3	2	2	—	—	1
3 0592	.75— .99	2,800	9—16	8—14	6—10	4—6	3—4	3—4	23	2	—
3 0594	1.00—1.24	3,900	16—24	15—22	11—16	7—10	5—7	4—6	4	3	23

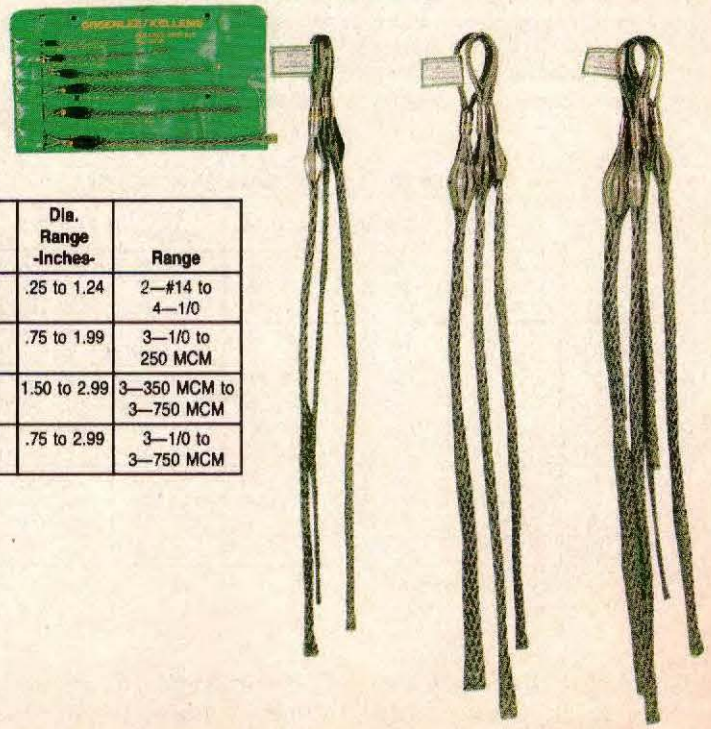
T.H.W.N., T.H.H.N., AND X.H.H.W. BUILDING WIRE

Cat. No. or NAED/DCI No. 78-3310-	Cable Diameter Range -Inches-	Design Strength lbs.	Approximate Number of Wires in One Grip								
			#14 19 Strand	#12 19 Strand	#10 19 Strand	#8 19 Strand	#6 19 Strand	#4 19 Strand	#3 19 Strand	#2 19 Strand	#1 37 Strand	#1/0 37 Strand
3 0584	.25— .36	450	4—8	3—6	2—3	2	1	1	1	—	—	—
3 0586	.37— .49	900	9—16	6—11	4—6	3	2	—	—	1	1	1
3 0588	.50— .61	1,300	16—25	11—17	7—10	4—5	3—4	2	2	—	—	—
3 0590	.62— .74	1,950	26—37	18—25	11—14	5—8	5—6	3	3	2	2	—
3 0592	.75— .99	2,800	37—66	26—17	15—27	9—16	6—11	4—7	4—5	3—4	3	23
3 0594	1.00—.124	3,900	66—104	47—74	28—43	16—24	11—17	8—10	6—8	5—7	4—5	4



Pulling Grip Sets

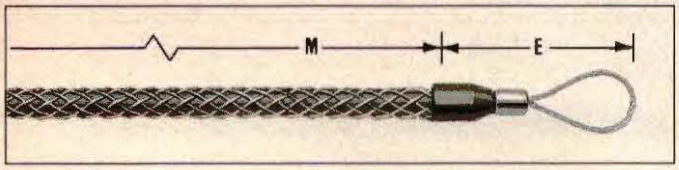
- Handle over 90% of your pulling grip needs . . . be confident that you have the right grip on the job when needed.
- Longer length grips furnished to provide the extra gripping strength required for multiple cable pulls.



Cat. No.	NAED/ DCI No. 78-3310-	Description	Dia. Range -Inches-	Range
30758	30758	Building Wire Junior Grip Set consists of 30584, 30586, 30588, 30590, 30592, 30594	.25 to 1.24	2—#14 to 4—1/0
597	10320	3 pc. T-Type Grip Set consists of 30576, 30578, 31010	.75 to 1.99	3—1/0 to 250 MCM
598	10325	3 pc. T-Type Grip Set consists of 31010, 30580, 31012	1.50 to 2.99	3—350 MCM to 3—750 MCM
599	10330	5 pc. T-Type Grip Set consists of 30576, 30578, 31010, 30580, 31012	.75 to 2.99	3—1/0 to 3—750 MCM

Junior Grips

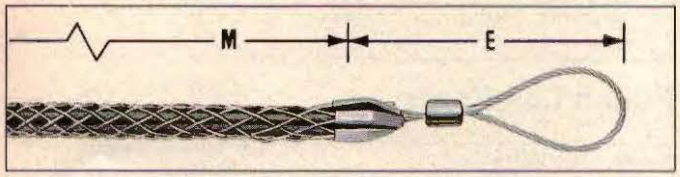
Construction: Single weave galvanized steel mesh
Type of Eye: Flexible
Use to Pull: In conduit or tray — Building wire by hand



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
30596	30596	033-05-011	.19- .24	80	3-1/4	4-1/4
30584	30584	033-05-001	.25- .36	90	3-1/4	4-1/4
30586	30586	033-05-002	.37- .49	180	3-3/4	7
30588	30588	033-05-003	.50- .61	260	4-1/4	8-1/2
30590	30590	033-05-004	.62- .74	390	5	10
30592	30592	033-05-005	.75- .99	560	5-3/4	10
30594	30594	033-05-006	1.00-1.24	780	6-1/2	11-1/2

Light Duty Grips

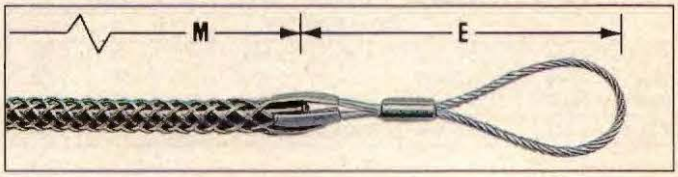
Construction: Single weave galvanized steel mesh
Type of Eye: Flexible
Use to Pull: In conduit or tray — Light duty applications, short easy runs.



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
SHORT						
30518	30518	033-03-001	.50- .61	560	5	11
30520	30520	033-03-002	.62- .74	560	5	11
30522	30522	033-03-003	.75- .99	800	6	12
30524	30524	033-03-004	1.00-1.24	1060	7	13
30526	30526	033-03-005	1.25-1.49	1060	7	14
30528	30528	033-03-006	1.50-1.74	1360	8	15
30530	30530	033-03-007	1.75-1.99	1700	8	17
30532	30532	033-03-008	2.00-2.49	1700	9	18
30534	30534	033-03-009	2.50-2.99	2120	9	18
30556	30556	033-03-030	3.00-3.49	2940	10	20
STANDARD						
30536	30536	033-03-010	.50- .61	560	5	16
30538	30538	033-03-011	.62- .74	560	5	16
30540	30540	033-03-012	.75- .99	800	6	20
30542	30542	033-03-013	1.00-1.24	1360	7	20
30544	30544	033-03-015	1.25-1.49	1360	7	21
30546	30546	033-03-016	1.50-1.99	1360	8	23
30548	30548	033-03-017	2.00-2.49	1700	9	25
30550	30550	033-03-018	2.50-2.99	2120	9	27
30552	30552	033-03-019	3.00-3.49	2940	10	30
30554	30554	033-03-029	3.50-3.99	2940	10	32

T-Type Grips

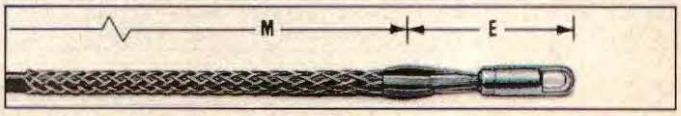
Construction: Double weave galvanized steel mesh
Type of Eye: Flexible
Use to Pull: In conduit or tray — Medium duty applications



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
SHORT						
30558	30558	033-04-1082	.50- .61	900	8	21
30560	30560	033-04-1083	.62- .74	1120	8	24
30562	30562	033-04-1084	.75- .99	1360	9	24
30564	30564	033-04-1085	1.00-1.49	1920	9	24
30566	30566	033-04-1086	1.50-1.99	3280	11	24
30568	30568	033-04-1087	2.00-2.49	3700	12	24
30570	30570	033-04-1088	2.50-2.99	4900	12	24
30572	30572	033-04-1089	3.00-3.49	4900	14	24
30574	30574	033-04-1090	3.50-3.99	6200	14	26
STANDARD						
30576	30576	033-04-1091	.75- .99	1360	9	36
30578	30578	033-04-1092	1.00-1.49	1920	9	36
31010	31010	033-04-1093	1.50-1.99	3280	11	36
30580	30580	033-04-1094	2.00-2.49	3700	12	36
31012	31012	033-04-1095	2.50-2.99	4900	12	36
30582	30582	033-04-1096	3.00-3.49	4900	14	36
31014	31014	033-04-1097	3.50-3.99	6200	14	40

K-Type Grips

Construction: Double weave galvanized steel mesh
Type of Eye: Rotating forged
Use to Pull: In conduit or tray — Heavy duty applications, long hard runs



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches	Rotating Eye Diameter
SHORT							
30438	30438	033-01- 001	.50- .61	1120	5	11	7/8
30440	30440	033-01- 002	.62- .74	1360	5	11	7/8
30444	30444	033-01- 013	.75- .99	1360	6	20	1
30446	30446	033-01- 014	1.00-1.24	2560	7	20	1-3/8
30448	30448	033-01- 016	1.25-1.49	2560	7	21	1-3/8
30450	30450	033-01- 017	1.50-1.99	3280	7	25	1-3/8
30452	30452	033-01- 018	2.00-2.49	5440	8	26	1-5/8
30454	30454	033-01- 019	2.50-2.99	6600	10	28	1-7/8
30456	30456	033-01- 020	3.00-3.49	8200	10	30	1-7/8
30458	30458	033-01- 021	3.50-3.99	9600	10	32	1-7/8
30472	30472	033-01-1017	4.00-4.49	9600	10	33	1-7/8
STANDARD							
30442	30442	033-01-011	.50- .61	1120	5	16	7/8
30998	30998	033-01-012	.62- .74	1360	5	16	7/8
30460	30460	033-01-024	.75- .99	1920	6	32	1
31000	31000	033-01-025	1.00-1.49	3280	7	33	1-3/8
30462	30462	033-01-026	1.50-1.99	3280	7	34	1-3/8
31002	31002	033-01-027	2.00-2.49	5440	9	36	1-5/8
30464	30464	033-01-028	2.50-2.99	6600	10	38	1-7/8
31004	31004	033-01-029	3.00-3.49	8200	10	39	1-7/8
30466	30466	033-01-030	3.50-3.99	9600	10	41	1-7/8

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 30596 Standard K-Type Grips Continued on Next Page.

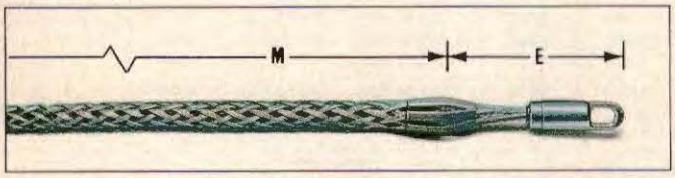
PULLING

K-Type Grips (Continued from Previous Page)

Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E	M	Rotating Eye Diameter
					Inches		
STANDARD							
31006	31006	033-01-031	4.00-4.49	9600	10	42	1-7/8
30468	30468	033-01-039	4.50-4.99	9600	10	58	1-7/8
30470	30470	033-01-047	5.00-5.99	9600	10	60	1-7/8
31008	31008	033-01-045	6.00-6.99	9600	10	66	1-7/8

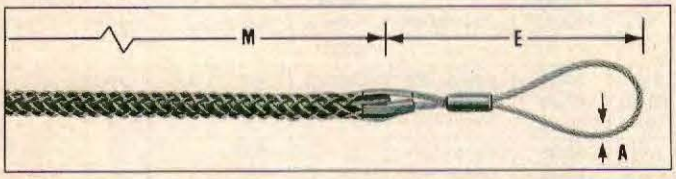
Multiple Strength Grips - Rotating Eye

Construction: Triple to double to single weave galvanized steel mesh
Type of Eye: Flexible or rotating forged
Use to Pull: Overhead transmission lines — Bare or insulated conductors, wire rope



Cat. No.	NAED/DCI 78-3310-	Description	Color Code	Cable Diameter Range -Inches-	Working Load (Lbs.)	E	M	Rotating Eye Diameter
						-Inches-		
30474	30474	033-02- 016	Dark Green	.25- .49	1360	5	26	7/8
30476	30476	033-02- 018	Brown	.50- .74	2000	6	32	1
30478	30478	033-02- 020	Light Blue	.75- .99	2880	6	41	1
30480	30480	033-02- 022	Gold	1.00-1.24	4920	8	52	1-3/8
30482	30482	033-02- 024	Black	1.25-1.49	6120	8	56	1-5/8
30484	30484	033-02- 026	Red	1.50-1.74	6120	9	60	1-7/8
30486	30486	033-02- 028	Dark Blue	1.75-2.24	9600	10	70	1-7/8
30502	30502	033-02- 066	Yellow	2.00-2.49	9600	10	50	1-7/8
30504	30504	033-02- 097	Orange	2.50-2.99	9600	10	52	1-7/8
30506	30506	033-02-1030	Aluminum	3.00-3.49	9600	10	54	1-7/8
30508	30508	033-02-1031	Light Green	3.50-3.99	9600	10	56	1-7/8

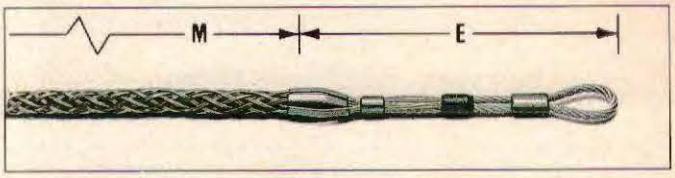
Multiple Strength Grips - Flexible Eye



Cat. No.	NAED/DCI 78-3310-	Description	Color Code	Cable Diameter Range -Inches-	Working Load (Lbs.)	E	M	Eye A
						-Inches-		
30488	30488	033-02- 044	Dark Green	.25- .49	1360	9	26	1/4
30490	30490	033-02- 046	Brown	.50- .74	2000	9	32	5/16
30492	30492	033-02- 048	Light Blue	.75- .99	2880	11	41	3/8
30494	30494	033-02- 050	Gold	1.00-1.24	4920	12	52	1/2
30496	30496	033-02- 052	Black	1.25-1.49	6120	12	56	1/2
30498	30498	033-02- 054	Red	1.50-1.74	6120	12	60	1/2
30500	30500	033-02- 056	Dark Blue	1.75-2.24	9600	18	70	5/8
30510	30510	033-02-1078	Yellow	2.00-2.49	9600	18	50	5/8
30512	30512	033-02-1079	Orange	2.50-2.99	9600	18	52	5/8
30514	30514	033-02-1080	Aluminum	3.00-3.49	9600	18	54	5/8
30516	30516	033-02-1081	Light Green	3.50-3.99	9600	18	56	5/8

Dua-Pull® Grips

Construction: Two over and two under weave galvanized steel mesh
Type of Eye: Flexible
Use to Pull: Overhead transmission lines — Bare or insulated conductors, synthetic rope



Cat. No.	NAED/DCI 78-3310-	Description	Color Code	Diameter Range Cndctr. Dia. -Inches-	Diameter Range Rope Dia. -Inches-	Wrkng. Load (Lbs.)	E	M	Eye Dia. Inches
30986	30986	033-27-1037	Black	.19- .37	.25- .65	1,300	10	24	.218
30694	30694	033-27-1038	Green	.38- .62	.50- .90	2,800	12	36	.375
30988	30988	033-27-1039	Red	.63- .87	.75-1.10	4,000	13	48	.437
30696	30696	033-27-1040	Blue	.88-1.12	1.00-1.50	6,120	15	60	.500
30990	30990	033-27-1041	Yellow	1.13-1.37	1.25-1.70	9,350	18	76	.625
30698	30698	033-27-1042	Aluminum	1.38-1.90	1.50-2.10	13,300	24	89	.750

Dua-Pull® and Feed Tube



Feed Tube Cat. No.	NAED/DCI 78-3310-	For Use With Dua-Pull Grip	Rope Diameter -Inches-	Feed Tube Length in Inches
30860	30860	30986	.25- .65	28
30710	30710	30694	.50- .90	40
30862	30862	30988	.75-1.10	52
30712	30712	30696	1.00-1.50	67
30714	30714	30990	1.25-1.70	83
30716	30716	30968	1.50-2.10	96

Punch-Lok Tools



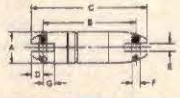
Cat. No.	NAED/DCI 78-3310-	Description
30720	30720	P- 1 Heavy Duty
30718	30718	P-38 Light Duty

Punch-Lok Bands



Catalog Number	NAED/DCI 78-3310-	Description	Grip Banding Range in Inches	Band Width in Inches	Band Inside Dia. in Inches
30722	30722	0-311	1/4 - 1-1/8	3/8	1-3/8
30724	30724	0-316	1-1/8 - 1-5/8	3/8	2
30726	30726	0-10	1-5/8 - 2-1/4	5/8	2-1/2
30728	30728	0-16	2-1/4 - 3-1/2	5/8	4
30730	30730	0-24	3-1/2 - 5	5/8	6
30864	30864		5 - 6	5/8	7

Swivels



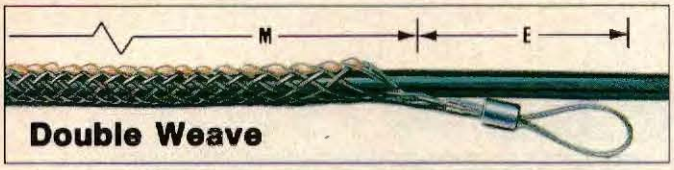


Cat. No.	NAED/DCI 78-3310	Model No.	Working Load* Lbs.	Dimension in Inches A	B	C	D	E	F	G
30734	30734	A-13L	1,800	7/8	2-11/32	3-3/32	3/8	5/16	5/16	15/32
30736	30736	BB-13L	4,000	1-1/4	3-21/32	4-11/32	7/16	19/32	3/8	11/16
30738	30738	B-13L	7,500	1-7/16	4	5-1/8	9/16	19/32	7/16	13/16
30740	30740	C-13L	10,000	1-7/8	5-7/16	7-1/16	13/16	3/4	5/8	15/16
30742	30742	D-13L	16,000	2-7/16	7-7/8	10-3/16	1-1/8	1	7/8	1-9/16
30744	30744	EE-13L	25,000	2-7/8	2-7/8	9-13/16	1-1/4	1-9/32	1	2-1/8

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 30438

Slack Grips - Split Mesh Lace Closing

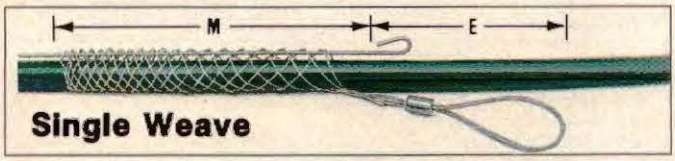
Construction: Double weave galvanized steel mesh - rawhide closing - offset eye
Type of Eye: Flexible
Use to Pull: Where end of conductor is not available. Can be pulled straight or around bends.



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
STANDARD						
30624	30624	033-09-003	.75- .99	500	7	12
30626	30626	033-09-004	1.00-1.24	700	8	15
30628	30628	033-09-005	1.25-1.49	800	8	16
30630	30630	033-09-006	1.50-1.74	800	9	17
30632	30632	033-09-007	1.75-1.99	800	10	18
30634	30634	033-09-008	2.00-2.49	800	10	19
30636	30636	033-09-009	2.50-2.99	800	10	20
30638	30638	033-09-010	3.00-3.49	800	12	21
30640	30640	033-09-011	3.50-3.99	800	12	22
LONG						
30642	30642	033-09-012	.75- .99	500	7	20
30644	30644	033-09-013	1.00-1.24	700	8	20
30646	30646	033-09-014	1.25-1.49	800	8	23
30648	30648	033-09-015	1.50-1.99	800	9	25
30650	30650	033-09-016	2.00-2.49	800	10	26
30652	30652	033-09-017	2.50-2.99	800	10	29
30654	30654	033-09-018	3.00-3.49	800	12	32
30656	30656	033-09-019	3.50-3.99	800	12	35

Slack Grips - Split Mesh Rod Closing

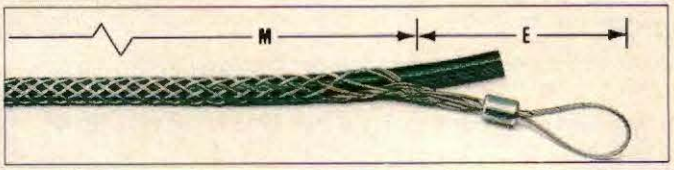
Construction: Double weave galvanized steel mesh - rod closing - offset eye
Type of Eye: Flexible
Use to Pull: Where end of conductor is not available. Can be pulled straight only, rod will not flex.



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
STANDARD						
30658	30658	033-10-001	.50- .61	300	7	6
31024	31024	033-10-002	.62- .74	360	7	8
30660	30660	033-10-003	.75- .99	440	7	10
31026	31026	033-10-004	1.00-1.24	680	8	12
30662	30662	033-10-005	1.25-1.49	900	8	14
31028	31028	033-10-006	1.50-1.74	1160	9	15
30664	30664	033-10-007	1.75-1.99	1520	10	16
31030	31030	033-10-008	2.00-2.49	1800	10	19
30666	30666	033-10-009	2.50-2.99	2200	10	20
31032	31032	033-10-010	3.00-3.49	2400	12	21
30668	30668	033-10-011	3.50-3.99	2400	12	24

Slack Grip - Closed Mesh Double Weave

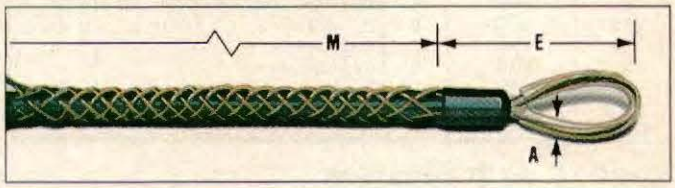
Construction: Single weave galvanized steel closed mesh - offset eye
Type of Eye: Flexible
Use to Pull: Can be slid over end of conductor. Can be pulled straight or around bends.



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches
31016	31016	033-08-003	.75- .99	520	7	12
30598	30598	033-08-004	1.00-1.24	800	8	15
31018	31018	033-08-005	1.25-1.49	1080	8	16
30600	30600	033-08-006	1.50-1.74	1320	9	17
31020	31020	033-08-007	1.75-1.99	2000	10	18
30602	30602	033-08-008	2.00-2.49	2200	10	19
30604	30604	033-08-009	2.50-2.99	2200	10	20
30606	30606	033-08-010	3.00-3.49	2900	12	21
31022	31022	033-08-011	3.50-3.99	2900	12	22

Non-Conductive Grips

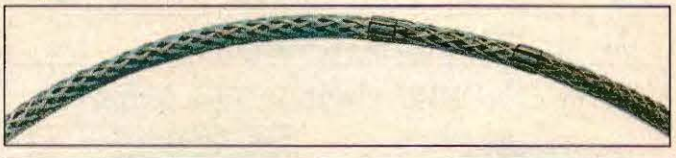
Construction: Pellethane jacketed aramid fiber mesh
Type of Eye: Flexible
Use to Pull: In conduit or tray or overhead - Building wire, communication cable, non-conductive, non-corrosive



Cat. No.	NAED/DCI 78-3310-	Description	Color Code	Cable Diameter Range -Inches-	Working Load (Lbs.)	E Inches	M Inches	A Inches
30700	30700	036-28-001	Green	.50- .62	560	5.5	24.0	.44
30702	30702	036-28-002	Yellow	.63- .74	700	5.5	26.0	.44
30704	30704	036-28-003	Red	.75- .99	840	6.0	31.0	.63
30706	30706	036-28-004	Blue	1.00-1.24	840	6.5	36.0	.63
30708	30708	036-28-005	White	1.25-1.49	840	6.7	41.5	.63

Regular Wire Rope Grips

Construction: Triple to double to single weave galvanized steel mesh
Type of Eye: No eye, grip in both directions.
Use to Pull: Grip old wire rope or cable to one end. Grip the new in the other and pull the new into position. May be used as a temporary splice.



Cat. No.	NAED/DCI 78-3310-	Description	Cable Diameter Range (in.)	Working Load (Lbs.)	Approx. Length of Grip
30670	30670	033-16-001	9/16 - 5/8	1500	5'9"
30672	30672	033-16-002	3/4 - 7/8	2500	6'3"
30674	30674	033-16-003	1 - 1-1/8	3200	7'0"
30676	30676	033-16-004	1-1/4 - 1-3/8	4000	8'0"
30678	30678	033-16-006	1-3/8 - 1-1/2	4000	8'0"

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 30624

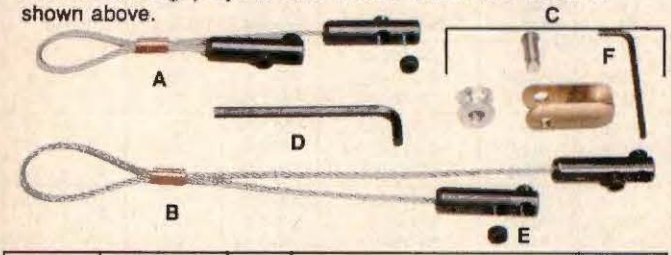
624, 629 Pulling Grips



- Use to pull one or more aluminum or copper conductors in 2" or larger conduit.

IMPORTANT

- Always balance pulling load between both grip jaws of a grip pair.
- Maximum pulling load on a grip pair, 624S (A) or 624L (B) is 3250 lbs.
- Maximum pulling load on complete grips 624 or 629 is 6500 lbs.
- Attach flexible grip eye to solid bronze end of 678 Clevis as shown above.



Cat. No.	NAED/DCI No. 78-3310-	Key	Description	Qty.
629	01880		**Wire Grip Kit** Includes Items A thru F	
624	01850		**Wire Grip Kit** Includes Items A, B, D and E	
624S	31866	A	Wire Grip	1
624L	31867	B	Wire Grip	1
678	01940	C	Rope Clevis	1
51207	51207	D	Grip Allen Wrench	1
52352	52352	E	Grip Set Screw (Extra)	2
51208	51208	F	Clevis Allen Wrench	1

Rope to Grip Clevises 578, 579 For Use With Forged Eye Grips



578 Maximum Pulling Load 6500 lbs.
Use with 1.05-1.99 dia.
K-Type Grips, .25-1.24 dia.
Multiple Strength Grips with forged eye.

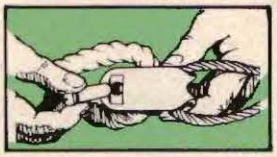


579 Maximum Pulling Load 10,000 lbs.
Use with 1.00-6.99 dia.
K-Type Grips, 1.00-3.99 dia.
Multiple Strength Grips with forged eye.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt. Lbs.
578	10335	Rope Clevis for forged eye grip	.9
579	10337	Rope Clevis for forged eye grip	1.3

678 For Use With Flexible Eye Grips





Maximum Pulling Load 6500 lbs.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt. Lbs.
678	01940	Rope Clevis for flexible eye grip	1.3

504 Pulling Grip



Maximum pulling load - 1750 lbs.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
504	01820	Wire Grip	1.2
52352	52352	Set Screw (4)	
51208	51208	3/8 Allen Wrench	

GREEN 80 Pulling Lubricant



New extra-slick formulation combines wax-based and soap-based lubes to cut friction on your toughest pulling jobs.

Physical Properties	Benefits
• **Super Viscosity**	Clings to wire and cable, even when pulling through water.
• **Wax-based Formulation**	Reduces friction throughout the pull. Stays slippery and ready for use in resealable containers.
• **Conduit Compatibility** - Non-toxic, non-corrosive formula will not harm conduit.	Use with all UL listed conduits including: Plastic, PVC, Zinc-coated Steel, Aluminum and Bituminized Fiber.
• **Insulation Compatibility**	Use with most wire and cable insulations: Rubber (R, RH, etc.), Neoprene, Nylon, Polyvinyl (T, TW, THW, etc.), High Density Polyethylene and Cross Linked Polyethylene. (Do not use on Low Density Polyethylene.)
• **Drying Qualities**	Dries after application to slippery film.
• **Easy Application** - Uniform consistency makes application easy.	Goes on smoothly by hand, brush or cloth pad. Wipes off with cloth and scrubs up with water.

ORDERING INFORMATION

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt. Lbs.
80-QS	80015	Quart Squeeze Bottle	2.3
80-Q	80020	Quart Tub	2.2
80-1	80025	Gallon Tub	9
80-5	80030	5-Gallon Pail	44
80-55	80035	55-Gallon Drum	504

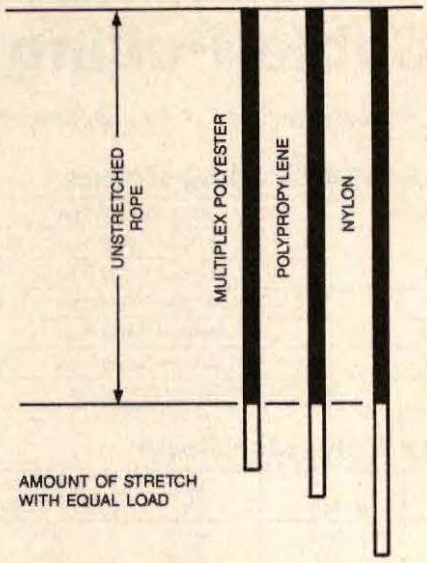




Rope is a very critical link in the cable pulling system. The following steps should be observed in the selection and use of cable pulling rope.

1. Select a rope that has a PULLING LOAD RATING greater than the estimated forces required for the pull.
2. Use only low stretch rope such as multiplex and Nystron for cable pulling. High stretch ropes store energy much like a stretched rubber band. If, for any reason, this stored energy is released by failure of the rope, grip, conductor or any other part of the pulling system the "STRETCH-STORED ENERGY" will be suddenly released. The whipping action of a rope can cause considerable damage, serious injury or death.
3. Inspect rope thoroughly before using. Make sure there are no cuts or frays in the rope. Remember the rope is only as strong as its weakest point. INSPECT THOROUGHLY BEFORE USING!
4. When designing the pull, keep rope confined in conduit wherever possible. Should the rope break or any other part of the pulling system fail, releasing the stored energy in the rope, the confinement in the conduit will work against the whipping action of the rope playing out much of this energy within the conduit.
5. Do not stand in direct line with the pulling rope.

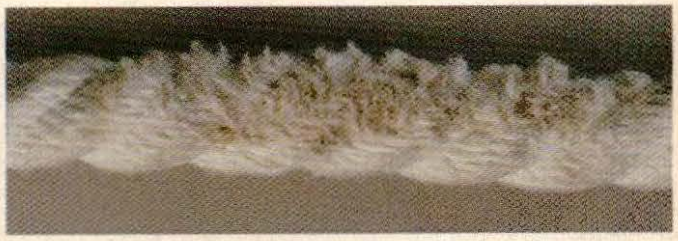
ROPE STRETCH



INSPECT ROPE

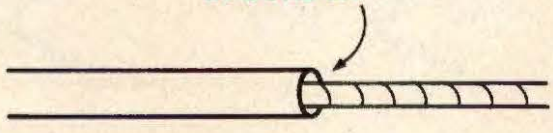


Cut Rope



Worn, Frayed Rope

KEEP ROPE CONFINED IN CONDUIT



ROPE

Low Stretch Rope for Cable Pulling

- Rot and mildew resistant.
- Factory spliced eye.



Recommended Pulling Ropes

Cable Puller	Rope Size and Type
805	3/8" Multiplex Pulling Rope
446	1/2" Multiplex Pulling Rope
2001	5/8" Multiplex Pulling Rope
2005	5/8" Multiplex Pulling Rope
640	7/8" Multiplex Pulling Rope
6001	7/8" Nystron Pulling Rope

Multiplex Polyester Rope

Rope Diameter	Length	Cat. No.	NAED/DCI No. 78-3310-	Description	Maximum Pulling Load Lbs.	Tensile Stength Lbs.	Wt./ Lbs.	Cat. No. of Rope Stand
3/8"	100'	34121	34121	Multiplex Pulling Rope	855	3420	5.6	405
	300'	34122	34122	Multiplex Pulling Rope	855	3420	14.3	406
	600'	34123	34123	Multiplex Pulling Rope	855	3420	31	644
	1200'	34124	34124	Multiplex Pulling Rope	855	3420	60	644
1/2"	300'	480	10005	Multiplex Pulling Rope	1440	5760	21	406
	600'	481	10007	Multiplex Pulling Rope	1440	5760	50	644
	1200'	482	10008	Multiplex Pulling Rope	1440	5760	104	—*
5/8"	300'	483	10009	Multiplex Pulling Rope	2275	9100	34	644
	600'	484	10010	Multiplex Pulling Rope	2275	9100	75	644
	1200'	485	10011	Multiplex Pulling Rope	2275	9100	161	—*
3/4"	300'	6005	60050	Multiplex Pulling Rope	3220	12880	58	644
	600'	6015	60150	Multiplex Pulling Rope	3220	12880	113	654
	1200'	6025	60180	Multiplex Pulling Rope	3220	12880	230	—*
7/8"	300'	34133	34133	Multiplex Pulling Rope	4500	18000	90	654
	600'	34134	34134	Multiplex Pulling Rope	4500	18000	178	654
	1200'	34135	34135	Multiplex Pulling Rope	4500	18000	360	—*

*This size rope does not fit on a rope stand. Use Telescoping Reel Stands. See page 59.

Nystron Double Braided Pulling Rope

Rope Diameter	Length	Cat. No.	NAED/DCI No. 78-3310-	Description	Maximum Pulling Load Lbs.	Tensile Stength Lbs.	Wt./ Lbs.	Cat. No. of Rope Stand
7/8"	300'	34136	34136	Nystron Pulling Rope	6700	26800	90	654
	600'	34137	34137	Nystron Pulling Rope	6700	26800	178	654
	1200'	34138	34138	Nystron Pulling Rope	6700	26800	360	—*

*This size rope does not fit on a rope stand. Use Telescoping Reel Stands. See page 59.

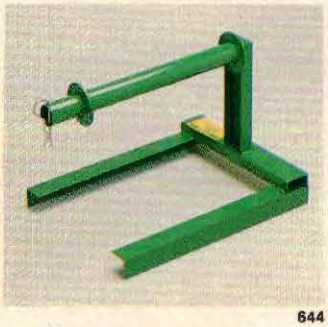
Rope Stands



405



406



644



654

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.	Spool Capacity		
				Dia.	Length	Arbor Hole Dia.
405	10783	**Rope Stand** for 3/16 x 250', 3/16 x 600', 1/4 x 250'	5.2	10-1/2"	7-1/2"	1-9/16"
406	10784	**Rope Stand** for 3/16 x 1000', 1/4 x 600', 1/4 x 1000', 3/8 x 300', 1/2 x 300'	7.8	15-1/2"	10"	1-9/16"
644	10815	**Rope Stand** for 3/16 x 5000', 3/8 x 600', 3/8 x 1200', 1/2 x 600', 5/8 x 300', 3/4 x 300', 5/8 x 600'	11	20"	16-7/8"	1-9/16"
654	34362	**Rope Stand** for 3/4 x 600', 7/8 x 300', 7/8 x 600'	25	27"	20-1/4"	2"

Nylon Fish Line

Cat. No.	NAED/DCI No. 78-3310-	Strength	Length
595	10602	85 lb.	2150′
604	10604	85 lb.	2200′
605	10605	45 lb.	2750′
606	10610	72 lb.	1700′
607	10615	90 lb.	1350′
630	10698	Cannister	



NOTE: Only 595 fits Mighty Mouser Cannister.

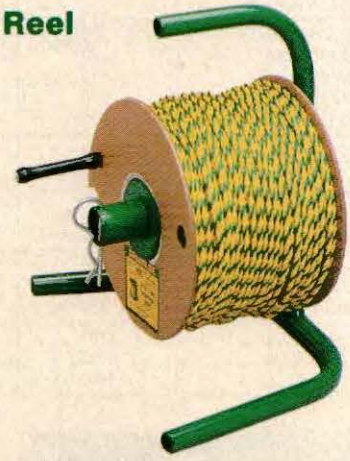
430, 431 Poly Line



- Resists tangling when dispensing.
- Will not rot or mildew.
- Use with power fish tape systems.
- Use to pull pulling rope through conduit.
- Not for pulling wire or cable.

Cat. No.	NAED/DCI No. 78-3310-	Description	Tensile Strength Lbs.	Wt./Lbs.
430	10802	1 ply x 6500′	210	11
431	10803	2 ply x 5200′	240	12

Rope and Pay-Out Reel

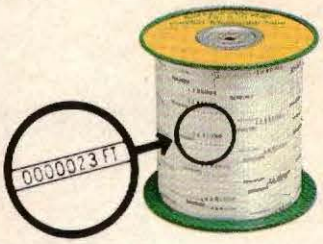


- 3/16″ x 600′ polypro rope with reel stand.
- Rope light enough to blow or vacuum with 800 lbs. tensile strength.
- Use for hand pulling cable, wire or pulling rope.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
620	10690	Pay-Out Reel with Rope includes 405 and 409	10
405	10783	Reel Stand	5.2
409	10786	Polypro Rope 3/16″ x 600′	5

435 Conduit Measuring Tape







- Positive and accurate system to measure the length of conduit runs.
- Strong waterproof polyester. 130 lbs. tensile strength.
- Permanently printed measurements at every foot from zero to 3,000 feet.
- Also available 435M Metric Measuring tape. 850 meters marked every 1/2 meter.
- Optional pay-out dispenser with built-in cutter, no-skid pads, and handle. One piece steel frame.





Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
435	22210	Measuring Tape, 3,000 Ft.	18.4
435M	22205	Metric Measuring Tape, 850 meters	16.0
434	22215	Tape Dispenser	3.5

Polypro Rope



ROPE

- Not recommended for cable pulling.
- Highly visible bright yellow with green runner, excellent for roping off areas on construction sites.
- Handy reel for dispensing.
- Rot and mildew resistant.
- Weather resistant.

Rope Diameter	Length	Cat. No.	NAED/DCI No. 78-3310-	Description	Working Load	Tensile Strength	Wt./ Lbs.
3/16"	250'	408	10785	Polypro Rope	72	720	10
	600'	409	10786	Polypro Rope	72	720	5
	1000'	410	10787	Polypro Rope	72	720	9
	5000'	411	10788	Polypro Rope	72	720	44
	10000'	429	10835	Polypro Rope	72	720	90
1/4"	250'	412	10789	Polypro Rope	113	1130	17
	600'	413	10790	Polypro Rope	113	1130	9
	1000'	414	10791	Polypro Rope	113	1130	17
3/8"	50'	415	10792	Polypro Rope	270	2430	13
	100'	416	10793	Polypro Rope	270	2430	17
	250'	417	10794	Polypro Rope	270	2430	10
	600'	418	10795	Polypro Rope	270	2430	23
	1200'	425	10831	Polypro Rope	270	2430	44
1/2"	50'	419	10796	Polypro Rope	420	3780	9
	100'	420	10797	Polypro Rope	420	3780	15
	250'	421	10798	Polypro Rope	420	3780	16
	600'	422	10799	Polypro Rope	420	3780	37
	1200'	426	10832	Polypro Rope	420	3780	66
5/8"	250'	423	10800	Polypro Rope	700	5580	27
	600'	424	10801	Polypro Rope	700	5580	56
	1200'	427	10833	Polypro Rope	700	5580	96
3/4"	300'	680	10810	Polypro Rope	1100	7650	44
	600'	688	10805	Polypro Rope	1100	7650	81
	1200'	428	10834	Polypro Rope	1100	7650	153



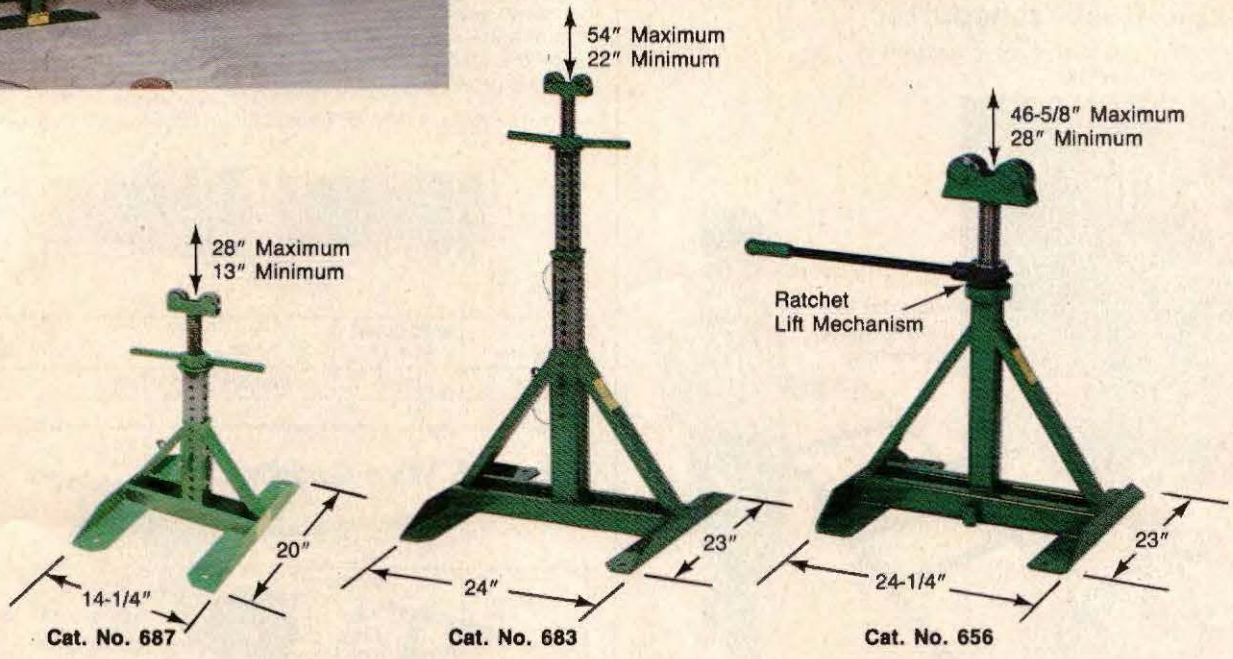




- Telescoping reel stands are adjustable for height.
- For a complete setup, as shown, order two reel stands and a spindle.

Telescoping Reel Stands

Cat. No.	NAED/DCI No. 78-3310-	Height Min. Max.	Lift Mech.	Capacity Lbs.	Use Spindle	Reel Diam. Min. Max.	Ship Wt./Lbs.
656	11125	28″ to 46-5/8″	Ratchet Drive	3750	657	58″ thru 90″	94
683	11105	22″ to 54″	Screw-type	2500	684	46″ thru 96″	49
687	11115	13″ to 28″	Screw-type	2500	647	28″ thru 56″	25



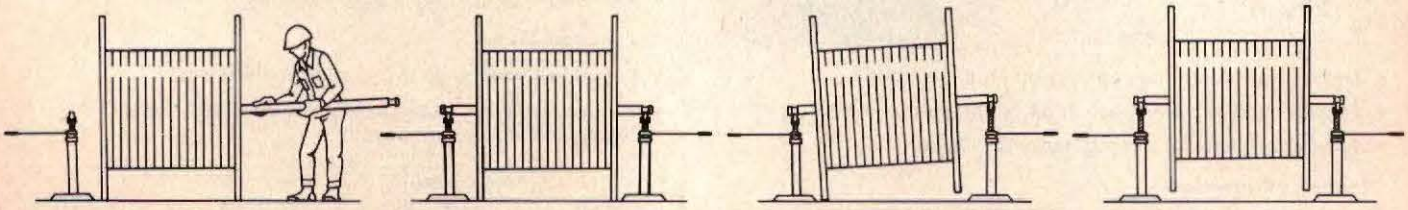
Spindles



* Tempered steel spindle is grooved to fit between rollers.

Cat. No.	NAED/DCI No. 78-3310-	Overall Dia.	Overall Length	Length* between Grooves	Use with Reel Stand	Ship Wt./ Lbs.
647	11120	2-3/8″	62″	59″	687	42
657	11156	3-1/2″	100″	94-3/4″	656	124
684	11110	2-3/8″	76″	73″	683	50

Easy To Use



1. Slide spindle through cable reel center hole.
2. Position reel stands under spindle. Line up roller bearing with spindle groove.
3. Raise one reel stand until that side of the reel clears the floor.
4. Raise the other reel stand until spindle is level.

Wire Dispenser Selection Guide

	Reel Capacity	Spool Sz. Diameter	Reel Sz. Diameter	AWG Size	Wire Guide
905 Wire Caddy	6	500 Ft.	8" maxim.	#6 thru #10 600 volt	—
906 Wire Caddy	6	500 Ft.	8" maxim.	#6 thru #10 600 volt	X
909 Wire Dispenser	6	2500 Ft.	18" maxim.	—	X
910 Wire Dispenser	10	2500 Ft.	18" maxim.	#22 to #10	X
911 Wire Cart	6 30	2500 Ft. 500 Ft.	—	—	X
914 Wire * Reel Support	4	500 Ft. to 2500 Ft.	18" maxim.	—	—

916 Cable Reel Transporter

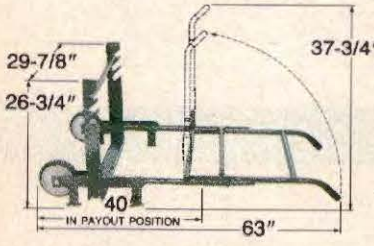
Makes it easy for one man to move reels up to 24" wide and 40" diameter.





Easy To Use One Person Operation

Heavy-duty frame and wheels for long life under rugged jobsite conditions.





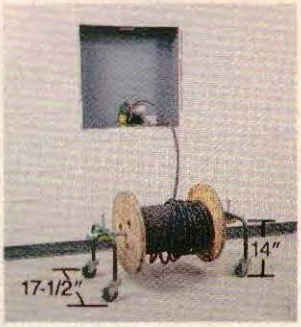
- Unique design provides easy setup for cable payout.
- Folding handles save space in payout mode and storage.
- Especially useful for moving heavy BX cable.

Ordering Information:

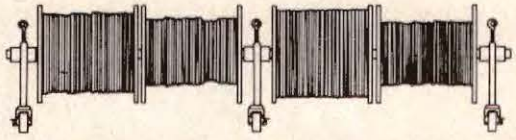
Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
916	32935	Heavy-Duty Cable Reel Transporter	110

914 Wire Reel Support Frame

For a complete setup, as shown, order two 914 Support Frames and use rigid conduit, up to 1" diameter, in the length you require.

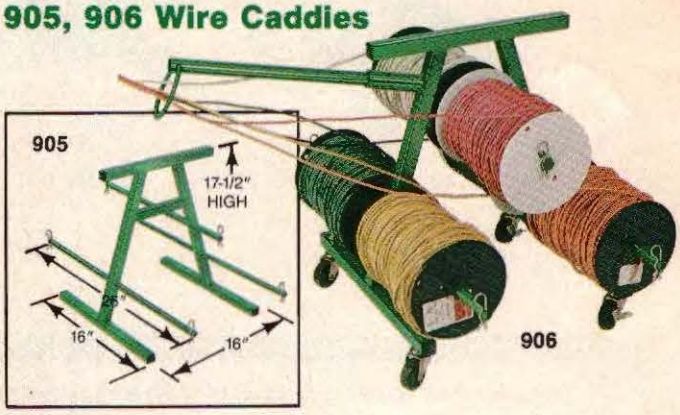


- Handles up to 4 reels with 2 support frames.
- Use 3 . . 4 . . . or more to support multiple 500' to 2500' reels.
- Easy to set up. Insert spindle, made of up to 1" rigid conduit, in one 914 support frame, tighten locking screw, slide reels on spindle, insert spindle in second 914 support frame, tighten thumb screw and you're ready to go.
- Disassembles easily for transporting or storing when not in use.



Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
914	01948	Wire Reel Support Frame	8.4

905, 906 Wire Caddies



905 Features:

- Wire Caddy will hold six 500 foot spools of #6 thru #10 AWG 600 volt wire.
- Handy two man lifting handle.
- All steel, welded construction for long service life.
- Pre-drilled caster holes. Casters optional.

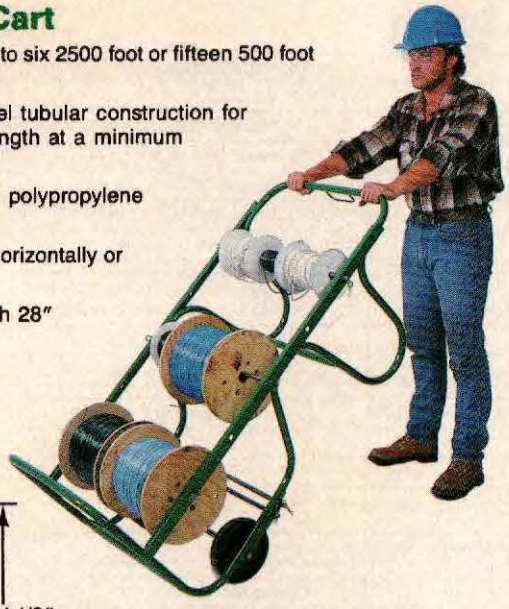
Deluxe 906 Adds:

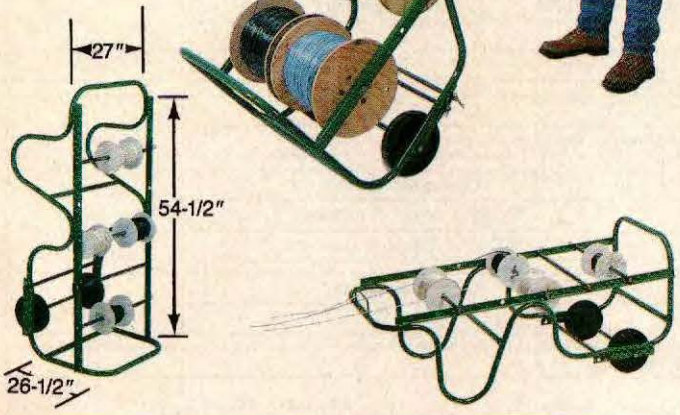
- Collapsible wire guide to aid in dispensing wire.
- 4 swivel casters for easy movement of loaded caddy. Two casters lock for secure payout.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
905	33024	Standard Wire Caddy	8
906	33026	Deluxe Wire Caddy	10
33405	33405	Caster Set (2 Swivel, 2 Swivel Lock)	

911 Wire Cart

- Will handle up to six 2500 foot or fifteen 500 foot spools of wire.
- Welded all-steel tubular construction for maximum strength at a minimum weight.
- Heavy duty 8″ polypropylene wheels.
- Can be used horizontally or vertically.
- Passes through 28″ doorway.





Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
911	10295	Wire Cart	62

909 Wire Dispenser

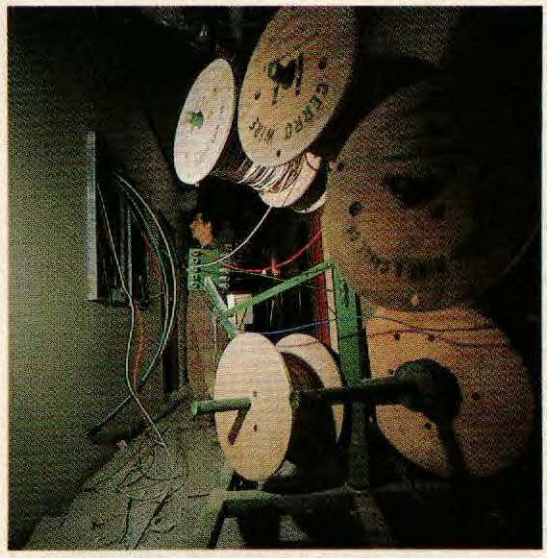


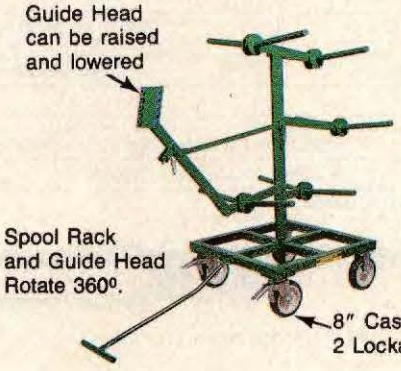


- Handles six 2500 foot spools up to 18″ diameter.
- Passes through a 30″ doorway.
- Spindle design permits easy payout of wire with automatic braking.
- Front wheel is swivel mounted to permit feeding in any direction from a central location, and can be locked to resist movement.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
909	01943	Wire Dispenser	93

910 Wire Dispenser









Shown in storage position.

- Large capacity . . . holds ten 2500 foot spools from No. 22 to No. 10 wire. Up to 18″ diameter spools.
- Passes through a 36″ doorway.
- Spool rack and guide head rotates 360°.
- Guide head can be raised or lowered approximately 30°.
- Large 8″ casters, 2 lockable.
- Guide head gathers and straightens the wire for easy feeding. Eliminates kinks or tangles.
- Handle for easy movement.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
910	01945	Wire Dispenser	213

Selection Guide Cable Cutters, Benders and Strippers

Manual Cable Cutters	Capacity/Frequent Use	Capacity/Maximum	Page
727	2/0 Aluminum, #1 AWG Copper	2/0 Copper	62
718	350 MCM Aluminum, 4/0 Copper	350 MCM Copper	62
704	350 MCM Aluminum, 250 MCM Copper	500 MCM Aluminum, 350 MCM Copper	62
706	750 MCM Aluminum, 500 MCM Copper	1000 MCM Aluminum, 750 MCM Copper	63
Ratchet Action 754	750 MCM Aluminum, 500 MCM Copper	750 MCM Aluminum, 750 MCM Copper	63
Ratchet Action 756	1000 MCM Aluminum or Copper	1500 MCM Aluminum or Copper	63

ACSR/Steel Wire Cutter - Manual	Capacity/ ACSR Cable	Capacity/ Wire Rope	Capacity/ Soft Steel Rod	Capacity/ Piano Wire	Capacity/Copper Aluminum Cable	
749	(7/16") 2/0	1/2"	7/16"	1/8"	350 MCM	63
Ratchet Action 757	954 MCM	—	1/2"	—	1000 MCM	63

Bolt Cutters	Capacity/Soft (15 RC)	Capacity/Medium (31 RC)	Capacity/Hard (42 RC)	
781	3/8"	5/16"	1/4"	63
783	7/16"	3/8"	5/16"	63

Hydraulic Cable Cutter	Capacity	
750	1000 MCM Copper or Aluminum	64

Cable Benders	Capacity/Minimum	Capacity/Maximum	
796 Manual		500 MCM Copper or Aluminum	64
800 Hydraulic	350 MCM Copper or Aluminum	1000 MCM Copper or Aluminum	64

Cable Stripper	Capacity/Minimum	Capacity/Maximum	
1905	1/0	1000 MCM	65

1910 Make-Up Kit includes 706 Cable Cutter, 796 Cable Bender and 1905 Cable Stripper	65
1913 - 1922 Wire Cutters, Strippers and Crimpers	65
1990 Hydraulic Dieless Crimper	66, 67

727 Cable Cutter



- Heavy-duty forged steel cutter for cutting up to 2/0 copper or aluminum cable.
- Heat treated, precision ground shear action blades for clean cuts.
- High leverage handles are plastic coated for extra comfort and grip.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity* Frequent Use	Capacity* Maximum	Length	Wt./ Lbs.
727	10230	Heavy-Duty Cable Cutter	2/0 Aluminum #1 Awg. Copper	2/0 Copper	9-1/4"	1

Note: Not for cutting steel, ACSR or live circuits.

718 Cable Cutter



- Economical, lightweight and compact . . . 13" handles fit easily into tool boxes.
- Shearing action heat treated, precision ground blades.
- Steel handles with rubber grips for greater leverage and comfort.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity* Frequent Use	Capacity* Maximum	Length	Wt./ Lbs.
718	01463	Cable Cutter	350 MCM Alum. 4/0 Copper	350 MCM Copper	18"	3.8

Note: Not for cutting steel, ACSR or live circuits.

*Capacity: **Frequent Use** - Established as the size of cable which can be cut with a maximum of 80 lbs. of handle force.
Maximum - Established as the maximum size cable which can be cut.

704 Heavy-Duty Cable Cutter



- Replaceable shearing action blades are forged, heat treated and precision ground.
- Heavy-duty design for long, dependable service.
- Tough fiberglass handles have man-sized rubber grips for strength, comfort and leverage.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity* Frequent Use	Capacity* Maximum	Length	Wt./ Lbs.
704	12977	Heavy-Duty Cable Cutter	350 MCM Alum. 250 MCM Cu.	500 MCM Alum. 350 MCM Cu.	21"	3.6

Replacement Parts		
2 4565 2 4567	06283 24567	Cutter Unit Handle Unit

Note: Not for cutting steel, ACSR or live circuits.

706 Heavy-Duty Cable Cutter



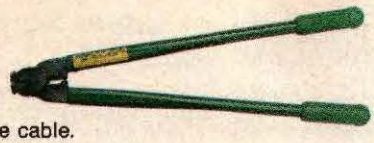
- Replaceable shear type blades are made of forged, heat treated steel and precision ground for clean cuts.
- Heavy-duty design for long, dependable service.
- Fiberglass handles with man-sized rubber grips for greater strength, comfort and leverage.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity* Frequent Use	Capacity* Maximum	Length	Wt./ Lbs.
706	02095	Heavy-duty Cable Cutter	750 MCM Alum. 500 MCM Cu.	1000 MCM Alum. 750 MCM Cu.	31-1/2"	7

Replacement Parts		
2 2292 2 2296	06230 22296	Cutter Unit Handle Unit

Note: Not for cutting steel, ACSR or live circuits.

749 ACSR/Steel Wire Cutter



- Forged steel blades.
- Cuts ACSR service entrance cable.
- Custom Greenlee hand grips.
- 28″ overall length.

CUTTING CAPACITY (STOCK DIAMETER)

ACSR Cable	Wire Rope	Soft Steel Rod	Piano Wire	Copper/ Aluminum Cable
7/16″ (2/0) 11mm	1/2″ 12.7mm	7/16″ 11mm	1/8″ 3.2mm	350 MCM 177mm²

Cat. No.	NAED/DCI No. 78-3310-	Description	Length	Wt./ Lbs.
749	32913	ACSR/Steel Wire Cutter	28″	7

Note: Not for cutting live circuits.

781, 783 Bolt Cutters



781 18″ BOLT CUTTER



783 24″ BOLT CUTTER

- Unique cam bolt blade adjustment.
- Forged steel blade.
- Clevis-mounted blades for greater strength.

CUTTING CAPACITY (STOCK DIAMETERS)

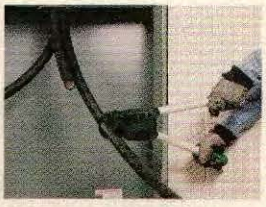
	Soft (15 RC)	Medium (31 RC)	Hard (42 RC)
Model 781	3/8″	5/16″	1/4″
Model 783	7/16″	3/8″	5/16″

Cat. No.	NAED/DCI No. 78-3310-	Description	Length	Wt./ Lbs.
781	32714	Bolt Cutter	18″	4
783	32715	Bolt Cutter	24″	6.1
32716	32716	Replacement Blade Unit for 781		
32717	32712	Replacement Blade Unit for 783		

Note: Not for cutting steel, ACSR or live circuits.

754 Ratchet Cable Cutter





- Ratchet Action for increased cutting power
- Capacity 750 MCM 600V Copper and Aluminum
- One handle is stationary while the other ratchets, allowing use in deep boxes or against walls
- Anti-reversing mechanism ensures positive ratchet action
- Molded rubber cover protects ratchet mechanism
- Fiberglass handles

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity*		Jaw Opening	Length	Wt./ Lbs.
			Frequent Use	Maximum			
754	34077	Ratchet Cable Cutter	500 MCM Cu. 750 MCM Alum.	750 MCM Cu. 795 MCM Alum.	1-3/16″	19-1/8″	4.25
Replacement Parts							
34253	34253	Pair of Blades					

Note: Not for cutting steel, ACSR or live circuits.

756 Heavy Duty Ratchet Cable Cutter



- Ratchet Action for increased cutting power
- Capacity 1500 MCM 600V Copper and Aluminum
- Two cutting speeds; fast scissor cutting for small cable and through insulation, automatically converts to ratchet mode when maximum power is needed
- Anti-reversing mechanism ensures positive ratchet action
- Rubber boot covers and protects ratchet mechanism

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity*		Jaw Opening	Length	Wt./ Lbs.
			Frequent Use	Maximum			
756	34081	Ratchet Cable Cutter	1000 MCM Cu. 1000 MCM Alum.	1500 MCM Cu. 1000 MCM Alum.	2″	27-1/2″	10
Replacement Parts							
34188	34188	Cutter-head					
34186	34186	Set of Jaws					

Note: Not for cutting steel, ACSR or live circuits.

757 Ratchet ACSR / Cable Cutter



- Ratchet Action for increased cutting power
- Capacity 954 MCM ACSR, 1/2″ soft steel
- Two cutting speeds; fast scissor cutting for small cable automatically converts to ratchet mode when maximum power is needed
- Anti-reversing mechanism ensures positive ratchet action
- Rubber boot covers and protects ratchet mechanism

Cat. No.	NAED/ DCI No. 78-3310-	Description	Capacity*		Jaw Opening	Length	Wt./ Lbs.
			Frequent Use	Maximum			
757	34084	Ratchet ACSR/ Cable Cutter	954 ACSR	954 ACSR	1-3/16″	29-1/4″	11.5
Replacement Parts							
34187	34187	Cutter-head					
34185	34185	Set of Jaws					

Note: Not for cutting live circuits.

*Capacity: **Frequent Use** - Established as the size of cable which can be cut with a maximum of 80 lbs. of handle force.
Maximum - Established as the maximum size cable which can be cut.

750 Hydraulic Cable Cutter

Cuts up to 1000 MCM Cable in 7 seconds.

NOT FOR ACSR



- Cuts up to 1000 MCM standard copper or aluminum power cable in seconds. Cutting jaws slide open quickly when hydraulic pressure is released to save time between cuts.
- 11-ton ram powers cutting jaws. Jaws are specially hardened and precision ground to hold their sharpness.
- Lightweight, easy to use—Weighs only 29 lbs. complete with pump and hose. Compact, 14″ x 13″ x 4″ steel box.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
750 (without pump)	01689	Hydraulic Cable Cutter includes 746C Ram Unit and 751 Cutter Head Unit, without pump.	25
750H767 (with pump)	01690	Hydraulic Cable Cutter with 767 Hand Pump and hose in metal carrying case.	29
750F1725 (with pump)	01697	Hydraulic Cable Cutter with 1725 Foot Pump and hose in metal carrying case.	40
750E915 (with pump)	01695	Hydraulic Cable Cutter with 915PS Electric Power Pump and hose. (Cable Cutter packed in metal case - power pump shipped separately.)	55
750E975 (with pump)	34203	Hydraulic Cable Cutter with the new 975 Power Pump and hose. (Cable Cutter packed in metal case - power pump shipped separately.)	84

Note: Not for cutting steel, ACSR or live circuits.

Cat. No.	NAED/DCI No. 78-3310-	Description	750	750H 767	750F 1725	750E 915	750E 975
751	01699	Cutter Head Unit	1	1	1	1	1
767	12810	Hydraulic Hand Pump	—	1	—	—	—
1725	12814	Hydraulic Foot Pump	—	—	1	—	—
915PS	12825	Hydraulic Power Pump	—	—	—	1	—
975	33516	Hydraulic Power Pump	—	—	—	—	1
746C	01705	Ram Unit	1	1	1	1	1
1 5627	06005	1/4″ x 3′ High-Pressure for 767 Hand Pump	—	1	—	—	—
2 3954	08335	1/4″ x 10′ High-Pressure Hose Unit for 1725 Hydraulic Foot Pump	—	—	1	—	—
1 7707	06010	1/4″ x 3′ High-Pressure Hose Unit for 915 and 975 Hydraulic Power Pumps	—	—	—	1	1
1 7540	17540	Steel Storage Box	1	1	1	1	1

Convert your knockout punch driver to a 750 Cable Cutter.

Order a 751 (Cutter Head Unit) and a 51385 (1/4″, 90º Elbow). Attach the 751 to the 746 Hydraulic Ram. Remove hydraulic quick coupler and thread the 51385 Elbow between ram and quick coupler with opening pointing away from the cutter head.



796 Ratchet Cable Bender for up to 500MCM

- Simplifies and speeds cable installation.
- Bends copper or aluminum through 500MCM 600 volt.
- 10-inch ratchet extension is furnished to simplify bending in deep enclosures.

Packed in carrying case.



PATENT NO. 3,824,834

Cat. No.	NAED/DCI No. 78-3310-	Description	Capacity	Wt./ Lbs.
796	02098	Ratchet Cable Bender (Includes the following).	Copper or aluminum thru 500 MCM 600 volt.	8.2
2 2578	08115	Ratchet wrench with grip	—	—
2 2579	08110	L wrench with grip	—	—
2 2682	08120	10″ extension wrench	—	—
2 2934	08125	Bending Shoe Assembly	—	—
3 0236	30236	Storage box	—	—

800 Hydraulic Cable Bender for 350 MCM thru 1000 MCM

Makes one-shot bends up to 90º and automatically unloads the cable.





Cat. No.	NAED/DCI No. 78-3310-	Description	Capacity	Wt./ Lbs.
800F1725 (with pump)	11805	Hydraulic Cable Bender complete with 1725 Foot Pump, 1/4″ x 10′ High-Pressure Hose Unit and metal storage box	600 volt conductor, copper or aluminum 350 MCM thru 1000	36
802 (without pump)	11810	Hydraulic Cable Bender with 1/4″ x 10′ High-Pressure Hose Unit and metal storage box	600 volt conductor, copper or aluminum 350 MCM thru 1000	26
1725	12814	Hydraulic Foot Pump	—	11
800	11800	Hydraulic Cable Bender	—	7
2 3954	08335	1/4″ x 10′ High-Pressure Hose Unit	—	—
2 3955	23955	Metal Storage Box	—	—

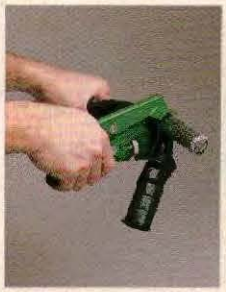
U.S.A. PATENT NO. 3924438

1905 Adjustable Cable Stripper for 1/0 thru 1000 MCM

For mid-span and end termination. Strips TW, THW, THWN, THHN and similar insulation

- Fast—simply close jaws on the cable and twist. To stop stripping—simply apply back pressure to stripper until a full circle has been completed.
- Adjusts in seconds for thickness of insulation, and cable diameter.
- Snap-action toggle linkage automatically gives same cutting depth time after time.







Cat. No.	NAED/DCI No. 78-3310-	Description	Capacity	Wt./ Lbs.
1905	02120	Cable Stripper	1/0 thru 1000 MCM	1.1
2 1978	08240	Replacement Blade	—	—

1910 Make Up Kit

Everything needed to cut, strip and bend up to 500 MCM cable.



Cat. No.	NAED/DCI No. 78-3310-	Description	Qty.	Wt./ Lbs.
1910	02125	Make Up Kit (includes the following)		27
706	02095	Cable Cutter	1	—
796	02098	Ratchet Cable Bender	1	—
1905	02120	Cable Stripper	1	—
2 3463	23463	Metal Carrying Case	1	—

"the terminators" Cutters, Strippers and Crimpers for Wire

- Hardened alloy steel with black oxide finish and contrasting function markings.
- Pivot joints have hardened steel bushings for long life.
- Vinyl grips with air pocket cushions for operator comfort.
- Precision ground blades for fast, easy and consistent wire stripping and cutting.

1921, 1922 Combination Tools

CAPACITY

Wire Cutter—
10-22 AWG (.65-2.6mm)

Strip—
10-22 AWG (.65-2.6mm)

Cut and Rethread Bolts—
10-24, 10-32, 8-32, 6-32 and 4-40



1921 Crimp—
Insulated and uninsulated 10-22 AWG (.65-2.6mm) terminals and splices, 7 and 8mm ignition terminals

1922 Crimp—
Insulated 10-22 AWG (.65-2.6mm) terminals and splices

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt. Ea.	Length
1921	02142	Combination tool for insulated and uninsulated terminals	.5 lbs.	8-3/4"
1922	02144	Combination tool for insulated terminals	.4 lbs.	7-1/2"

1915 Wire Cutter 1916, 1917, 1918 Stripper/Cutters

• Return spring. • Holes for wire loop forming. • Plier nose.



Cat. No.	NAED/DCI No. 78-3310-	Description	Capacity	Wt. Ea.	Lgth.
1915	02132	Wire Cutter	No. 10 Solid wire 1/2" O.D. Stranded wire	.25 lb.	6"
1916	02134	Stripper/Cutter	10-20 AWG Solid wire	.25 lb.	6"
1917	02136	Stripper/Cutter	16-26 AWG Stranded wire	.25 lb.	6"
1918	02138	Stripper/Cutter	22-30 AWG Solid wire	.25 lb.	6"

Adjustable "V" Strippers and Cutters

- Screw top adjusts from 10 thru 30 AWG (.25-2.6mm) wire.



Cat. No.	NAED/DCI No. 78-3310-	Description	Capacity	Wt. Ea.	Lgth.
1913	02128	Adjustable stripper/ cutter	10-30 AWG	.2 lbs.	5-1/2"
1914	02130	Adjustable stripper/ cutter with spring and slide lock	10-30 AWG	.2 lbs.	5-1/2"

1990 Dieless Crimper

No Dies! No Adjustments!

. . . Automatically

senses the size and sets the necessary pressure to make a perfect crimp.



Patent Pending

UL and CSA approved with Greenlee or Ilsco Compression Connectors

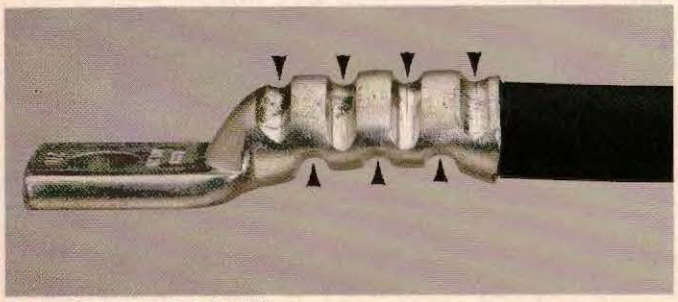
From GREENLEE

. . . the name you turn to for Quality and Service in Hydraulic Tools.

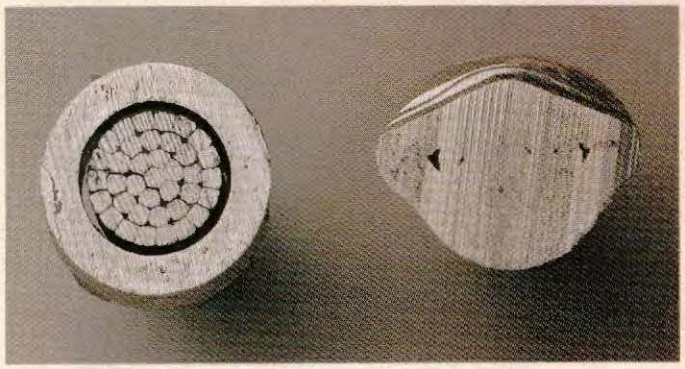
The new Greenlee 1990 Dieless Crimper gives you all these outstanding features.

- Dieless Crimping head, no dies to lose or replace.
- No adjustment required for size or type of connector. Eliminates errors.
- Seven indents with each crimp to save you time.
- Automatic two speed pump for rapid advance.
- Capacity: #4 AWG through 1000 MCM copper connectors.
  #6 AWG through 1000 MCM aluminum connectors.

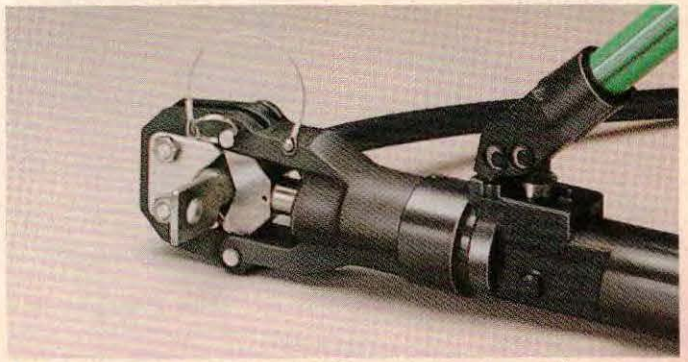
These features combined with Greenlee's complete connector selection make the 1990 Dieless Crimper a time-saving, reliable crimping system.



One-shot crimp (7 indents).

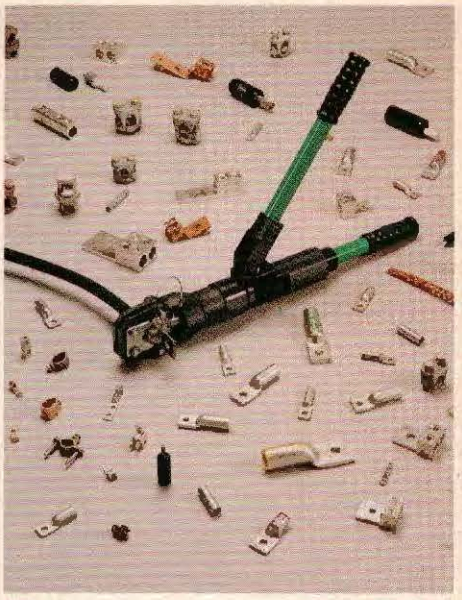


Actual cross section of crimp before and after crimping.



Ram senses the connector size and automatically sets the proper pressure, to crimp copper or aluminum connectors.





Cat. No.	NAED/DCI No. 78-3310	Description	Wt./ Lbs.
1990	32489	**Dieless Crimper Complete** includes: Crimper, metal carrying case and Pressure Test Kit	29
32891		Replacement Pressure Test kit for 1990 includes 30 Test Slugs and Gauge	2

See pages 68-75 for the full range of connectors.



Hinged tool head for easy splice connector loading and unloading.



Rapid ram advance provided with two speed hydraulic pump.



Swivel head provides 180° rotation for maximum flexibility.



Handy trigger releases ram after crimp is complete. Fiberglass handles for strength and durability.

COMPRESSION

TYPE	ACL	2ACL	CRA/CRB	CRA-L/CRB-L	CRA-L2/CRB-L2
	SEE PAGE 70 	SEE PAGE 70 	SEE PAGE 70 	SEE PAGE 70 	SEE PAGE 70 
DESCRIPTION	Dual Rated Lugs — One Mounting Hole	Dual Rated Lugs — Two Mounting Holes	Lugs — One Mounting Hole	Long Barrel Lugs — One Mounting Hole	Long Barrel Lugs — Two Mounting Holes
MADE OF	Aluminum with Tin Plating	Aluminum with Tin Plating	Copper with Tin Plating	Copper with Tin Plating	Copper with Tin Plating
FOR USE WITH	Aluminum or Copper	Aluminum or Copper	Copper	Copper	Copper
SIZE RANGE	8 thru 1000MCM	1/0 thru 1000MCM	8 thru 1000MCM	6 thru 1000MCM	6 thru 1000MCM
ATTACHMENT	Crimp	Crimp	Crimp	Crimp	Crimp

MECHANICAL

TYPE	TA	AU	SLU	E	LU
	SEE PAGE 72 	SEE PAGE 72 	SEE PAGE 72 	SEE PAGE 72 	SEE PAGE 72 
DESCRIPTION	Dual Rated Lugs — One or Two Mounting Holes	Dual Rated Lugs — One or Two Mounting Holes	Lugs — One Hole — One Collar	Lugs — Two Holes — One Collar	Lugs — One Hole — Two Collars
MADE OF	Aluminum Alloy with Tin Plating	Aluminum Alloy with Tin Plating	Copper	Copper	Copper
FOR USE WITH	Copper or Aluminum	Copper or Aluminum	Copper	Copper	Copper
SIZE RANGE	14 Stranded thru 1000MCM	14 Stranded thru 1000MCM	14 Stranded thru 1000MCM	14 Stranded thru 1000MCM	1/0 Stranded thru 500MCM
ATTACHMENT	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical

MECHANICAL / GROUNDING

TYPE	AK	SK	IK	AGC	BGC
	SEE PAGE 73 	SEE PAGE 74 	SEE PAGE 74 	SEE PAGE 74 	SEE PAGE 74 
DESCRIPTION	Dual Rated Split Bolt Connector	Dual Rated Split Bolt with Spacer	Split Bolts	Dual Rated Ground Clamp	Ground Clamps
MADE OF	Aluminum Alloy	Copper Alloy with Tin Plating	Copper Alloy	Aluminum Alloy with Tin Plating	Bronze
FOR USE WITH	Any Combination of Copper or Aluminum Conductors	Any Combination of Copper, Steel or Aluminum	Copper Conductors	Aluminum or Copper to Copper, Steel or Galvanized	Copper Conductor to Steel or Copper Pipe
SIZE RANGE	6 Stranded thru 500MCM	12 SOL thru 500MCM	12 Stranded thru 1000 MCM Equal Run and Tap	Conduit — 1/2"-4" Wire — 14-250MCM	Conduit — 1/2"-2" Wire — 10-2
ATTACHMENT	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical

COMPRESSION

TYPE	AS	CT/CTL	CPM	ACM	ACO
	SEE PAGE 71 	SEE PAGE 71 	SEE PAGE 71 	SEE PAGE 71 	SEE PAGE 71 
DESCRIPTION	Dual Rated Sleeves	Sleeves	Pigtail Adapters	Pin Connectors	Offset Pin Connectors
MADE OF	Aluminum with Tin Plating	Copper with Tin Plating	Aluminum with Tin Plating and Copper Wire	Aluminum with Tin Plating	Aluminum with Tin Plating
FOR USE WITH	Aluminum or Copper	Copper	Aluminum Conductor to Copper or Dual Rated	Aluminum Conductor to Aluminum	Aluminum Conductor to Aluminum
SIZE RANGE	8 Stranded thru 1000MCM	6 thru 1000MCM	6 Stranded thru 750MCM	6 Stranded thru 750MCM	2/0 thru 750MCM
ATTACHMENT	Crimp	Crimp	Crimp	Crimp	Crimp

MECHANICAL

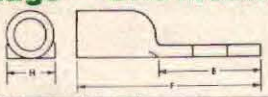
TYPE	SPA	DBA	DBA-S	IKB	IKS
	SEE PAGE 73 	SEE PAGE 73 	SEE PAGE 73 	SEE PAGE 73 	SEE PAGE 73 
DESCRIPTION	Dual Rated Splicers/Reducers	Dual Rated 2 Bolt Tap Connectors	Dual Rated 2 Bolt Tap Connectors with Spacer	Two Bolt Connectors	Two Bolt Connectors with Spacer
MADE OF	Aluminum Alloy with Tin Plating	Aluminum Alloy with Tin Plating	Aluminum Alloy with Tin Plating	Cast Copper Alloy	Cast Copper Alloy
FOR USE WITH	Copper or Aluminum	Aluminum to Aluminum with Oxide Inhibitor or Copper to Copper	Copper or Aluminum Conductors. When using combination, put aluminum on top.	Copper Conductors	Copper and/or Aluminum Conductors
SIZE RANGE	14 Stranded thru 1000MCM	Main - 2 thru 1000MCM Tap - 10 thru 1000MCM	Main - 2 thru 1000MCM Tap - 10 thru 1000MCM	Run - 1/0 thru 1000MCM Tap - 10 thru 1000MCM	Run - 1/0 thru 1000MCM Tap - 6 thru 1000MCM
ATTACHMENT	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical

GROUNDING

TYPE	SX	GRC	BGRC	GS	GSR
	SEE PAGE 74 	SEE PAGE 74 	SEE PAGE 74 	SEE PAGE 74 	SEE PAGE 74 
DESCRIPTION	Service Entrance Connectors	Ground Rod Clamps	Rod Clamps	Ground Straps	Perforated Ground Strap
MADE OF	Copper	Bronze	Cast Bronze	Copper	Copper
FOR USE WITH	Copper Conductors	Copper Conductors	Copper to Ground Rods	Copper Conductor to Steel or Copper Pipe	Copper Conductor to Steel or Copper Pipe
SIZE RANGE	12 thru 2 Wire	Ground Rod — 3/8"-3/4" Wire — 10-1/0	Ground Rod — 1/2"-3/4" Wire — 8-1/0	Pipe — 3/8"-4"	Any
ATTACHMENT	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical

ACL — Dual Rated Aluminum Compression Lugs — One Mounting Hole

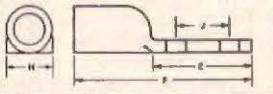




Catalog No.	NAED/ DCI 78-3310	Wire Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches			
						Bolt Size	E	F	H
ACL-8	32938	8	7/8	Ⓑ	Blue	1/4	19/32	1-7/16	1/2
ACN-8	32939	8	7/8	Ⓑ	Blue	#10	11/16	1-7/16	1/2
ACL-6	32940	6	1	1	Gray	1/4	11/16	1-43/64	1/2
ACL-4	32941	4	1-1/8	1	Green	1/4	23/32	1-13/16	9/16
ACN-4	32942	4	1-1/8	1	Green	5/16	23/32	1-13/16	9/16
ACL-2	32943	2	1-1/4	1	Pink	1/4	23/32	1-7/8	11/16
ACN-2	32944	2	1-1/4	1	Pink	5/16	23/32	1-7/8	11/16
ACL-1	32945	1	1-1/2	1	Gold	1/4	29/32	2-25/64	3/4
ACN-1	32946	1	1-1/2	1	Gold	5/16	29/32	2-25/64	3/4
ACL-1/0	32947	1/0	1-3/4	1	Tan	3/8	15/16	2-9/16	7/8
ACN-1/0	32948	1/0	1-3/4	1	Tan	5/16	15/16	2-9/16	7/8
ACL-2/0	32949	2/0	1-3/4	1	Olive	3/8	1	2-5/8	31/32
ACN-2/0	32950	2/0	1-3/4	1	Olive	1/2	1	2-5/8	31/32
ACL-3/0	32951	3/0	1-7/8	1	Ruby	3/8	1-1/16	2-13/16	1-1/16
ACN-3/0	32952	3/0	1-7/8	1	Ruby	1/2	1-1/16	2-13/16	1-1/16
ACL-4/0	32953	4/0	2-3/8	2	White	3/8	1-1/16	3-3/8	1-1/8
ACN-4/0	32954	4/0	2-3/8	2	White	1/2	1-1/16	3-3/8	1-1/8
ACL-250	32955	250MCM	2-1/2	2	Red	1/2	1-1/2	3-7/8	1-21/64
ACL-300	32956	300MCM	2-5/8	2	Blue	1/2	1-1/2	4-1/16	1-7/16
ACL-350	32957	350MCM	2-3/4	2	Brown	1/2	1-1/2	4-3/32	1-9/16
ACL-400	32958	400MCM	3-3/8	2	Green	1/2	1-9/16	4-7/8	1-5/8
ACL-500	32959	500MCM	3-3/8	2	Pink	1/2	1-9/16	4-7/8	1-13/16
ACL-600	32960	600MCM	3-1/2	2	Black	5/8	2	5-3/8	1-15/16
ACL-700	32961	700MCM	3-5/8	2	Purple	5/8	2-3/32	5-21/32	2-1/16
ACL-750	32962	750MCM	3-5/8	2	Yellow	5/8	2-3/32	5-21/32	2-3/16
ACL-1000	32963	1000MCM	4-1/2	2	Brown	5/8	2-1/4	6-5/8	2-1/2

2ACL — Dual Rated Aluminum Compression Lugs — Two Mounting Holes

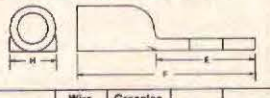




Catalog No.	NAED/DCI 78-3310	Wire Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches				
						Bolt Size	E	F	H	J
2ACL-1/0	32964	1/0	1-3/4	1	Tan	3/8(2)	1-7/8	3-15/32	7/8	1
2ACN-1/0	32965	1/0	1-3/4	1	Tan	1/2(2)	3	4-5/8	7/8	1-3/4
2ACL-2/0	32966	2/0	1-3/4	1	Olive	1/2(2)	3-3/8	5	31/32	1-3/4
2ACL-3/0	32967	3/0	1-7/8	1	Ruby	1/2(2)	3-3/8	5-5/32	1-1/16	1-3/4
2ACL-4/0	32968	4/0	2-3/8	2	White	1/2(2)	3-3/8	5-5/8	1-1/8	1-3/4
2ACL-250	32969	250MCM	2-1/2	2	Red	1/2(2)	3-3/8	5-3/4	1-21/64	1-3/4
2ACL-300	32970	300MCM	2-5/8	2	Blue	1/2(2)	3-3/8	5-15/16	1-7/16	1-3/4
2ACL-350	32971	350MCM	2-3/4	2	Brown	1/2(2)	3-3/8	5-31/32	1-9/16	1-3/4
2ACL-400	32972	400MCM	3-3/8	2	Green	1/2(2)	3-3/8	6-11/16	1-5/8	1-3/4
2ACL-500	32973	500MCM	3-3/8	2	Pink	1/2(2)	3-3/8	6-11/16	1-13/16	1-3/4
2ACL-600	32974	600MCM	3-1/2	2	Black	1/2(2)	3-3/8	6-3/4	1-15/16	1-3/4
2ACL-700	32975	700MCM	3-5/8	2	Purple	1/2(2)	3-3/8	6-15/16	2-1/16	1-3/4
2ACL-750	32976	750MCM	3-5/8	2	Yellow	1/2(2)	3-3/8	6-15/16	2-3/16	1-3/4
2ACL-1000	32977	1000MCM	4-1/2	2	Brown	1/2(2)	3-3/8	7-3/4	2-1/2	1-3/4

CRA/CRB — Copper Compression Lugs — One Mounting Hole





Catalog No.	NAED/ DCI 78-3310	Wire Size	Welding Cable Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches			
							Bolt Size	E	F	H
CRA-8	32996	8		3/4	Ⓑ	Red	3/16	1/2	1-1/8	13/32
CRA-6	32997	6	No. 8 Weld	1-1/8	Ⓑ	Blue	3/16	1/2	1-1/2	13/32
CRB-6	32998	6	No. 8 Weld	1-1/8	Ⓑ	Blue	1/4	1/2	1-1/2	13/32
CRA-4	32999	4	No. 6 Weld	1-1/8	1	Gray	3/16	1/2	1-1/2	1/2
CRA-4-516	33000	4	No. 6 Weld	1-1/8	1	Gray	5/16	1/2	1-1/2	1/2
CRB-4	33001	4	No. 6 Weld	1-1/8	1	Gray	1/4	1/2	1-1/2	1/2
CRA-2	33002	2	No. 4 Weld	1-1/4	1	Brown	1/4	3/4	1-27/32	19/32
CRB-2	33003	2	No. 4 Weld	1-1/4	1	Brown	5/16	3/4	1-27/32	19/32
CRC-2	33004	2	No. 4 Weld	1-1/4	1	Brown	3/8	3/4	1-27/32	19/32
CRA-1	33036	1	No. 2 Weld	1-5/16	1	Green	5/16	3/4	1-7/8	11/16
CRA-1-14	33037	1	No. 2 Weld	1-5/16	1	Green	1/4	3/4	1-7/8	11/16
CRA-1-38	33038	1	No. 2 Weld	1-5/16	1	Green	3/8	3/4	1-7/8	11/16

CRA/CRB Copper Compression Lugs (continued)

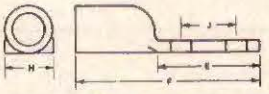
Catalog No.	NAED/ DCI 78-3310	Wire Size	Welding Cable Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches			
							Bolt Size	E	F	H
CRA-0	33039	1/0	No. 1 Weld	1-5/16	1	Pink	5/16	3/4	1-7/8	3/4
CRA-0-14	33040	1/0	No. 1 Weld	1-5/16	1	Pink	1/4	3/4	1-7/8	3/4
CRB-0	33041	1/0	No. 1 Weld	1-5/16	1	Pink	3/8	3/4	1-7/8	3/4
CRA-2/0	33042	2/0	1/0 Weld	1-3/8	1	Black	3/8	7/8	2-3/32	13/16
CRA-2/0-14	33043	2/0	1/0 Weld	1-3/8	1	Black	1/4	7/8	2-3/32	13/16
CRB-2/0	33044	2/0	1/0 Weld	1-3/8	1	Black	5/16	7/8	2-3/32	13/16
CRA-3/0	33045	3/0	2/0 Weld	1-3/8	1	Orange	3/8	1	2-5/16	29/32
CRA-3/0-14	33046	3/0	2/0 Weld	1-3/8	1	Orange	1/4	1	2-5/16	29/32
CRB-3/0	33047	3/0	2/0 Weld	1-3/8	1	Orange	1/2	1	2-5/16	29/32
CRC-3/0	33048	3/0	2/0 Weld	1-3/8	1	Orange	5/16	1	2-5/16	29/32
CRA-4/0	33049	4/0	3/0 Weld	1-1/2	1	Purple	3/8	1	2-11/32	1
CRA-4/0-14	33050	4/0	3/0 Weld	1-1/2	1	Purple	1/4	1	2-11/32	1
CRB-4/0	33051	4/0	3/0 Weld	1-1/2	1	Purple	1/2	1	2-11/32	1
CRC-4/0	33052	4/0	3/0 Weld	1-1/2	1	Purple	5/16	31/32	2-5/16	29/32
CRA-250	33053	250MCM	4/0 Weld	1-5/8	1	Yellow	1/2	1-1/8	2-5/8	1-3/32
CRA-300	33054	300MCM	—	1-5/8	1	White	1/2	1-1/8	2-5/8	1-3/16
CRA-350	33055	350MCM	—	1-3/4	1	Red	1/2	1-1/8	2-11/16	1-9/32
CRA-400	33056	400MCM	—	1-7/8	1	Blue	5/8	1-1/2	3-5/16	1-3/8
CRA-500	33057	500MCM	—	2-1/8	1	Brown	5/8	1-1/2	3-1/2	1-17/32
CRA-500-12	33058	500MCM	—	2-1/8	1	Brown	1/2	1-1/2	3-1/2	1-17/32
CRA-600	33059	600MCM	—	2-1/4	1	Green	5/8	1-1/2	3-5/8	1-11/16
CRA-700	33060	700MCM	—	2-3/8	1	Pink	5/8	1-3/4	3-31/32	1-25/32
CRA-750	33061	750MCM	—	2-1/2	1	Black	5/8	1-15/16	4-11/32	1-29/32
CRA-1000	33062	1000MCM	—	2-7/8	1	White	5/8	2-1/8	4-7/8	2-3/16

CRA-L/CRB-L Long Barrel Copper Compression Lugs



ONE MOUNTING HOLE

Catalog No.	NAED/ DCI 78-3310	Conductor Size AWG-MCM	Welding Cable Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches			
							Bolt Size	E	F	H
CRB-6L	33063	6	No. 6 Weld	1-3/8	Ⓑ	Blue	1/4	1/2	1-13/16	19/64
CRB-4L	33064	4	No. 4 Weld	1-3/8	1	Gray	1/4	1/2	1-13/16	11/32
CRB-2L	33065	2	—	1-1/2	1	Blue	5/16	3/4	2-7/32	27/64
CRA-1L	33066	1	No. 2 Weld	1-3/4	1	Green	5/16	3/4	2-3/8	15/32
CRA-1/0L	33067	1/0	No. 1 Weld	1-3/4	1	Pink	5/16	3/4	2-3/8	33/64
CRA-2/0L	33068	2/0	1/0 Weld	1-7/8	1	Black	3/8	7/8	2-21/32	9/16
CRB-3/0L	33069	3/0	2/0 Weld	2	1	Orange	1/2	1	2-13/16	39/64
CRB-4/0L	33070	4/0	3/0 Weld	2-1/8	1	Purple	1/2	1	2-31/32	11/16
CRA-250L	33071	250	4/0 Weld	2-1/4	1	Yellow	1/2	1	3-3/16	3/4
CRA-300L	33072	300	—	2-1/2	1	White	1/2	1-1/8	3-9/16	13/16
CRA-350L	33073	350	—	2-1/2	1	Red	1/2	1-1/8	3-9/16	7/8
CRA-400L	33074	400	—	2-7/8	1	Blue	5/8	1-1/2	4-1/4	15/16
CRA-500L	33075	500	—	3	1	Brown	5/8	1-1/2	4-3/8	1-1/16
CRA-750L	33076	750	—	3-5/8	1	Black	5/8	1-15/16	5-15/32	1-5/16
CRA-1000L	33077	1000	—	4	1	—	5/8	2-1/8	6	1-1/2



TWO MOUNTING HOLES

Catalog No.	NAED/ DCI 78-3310	Conductor Size AWG-MCM	Welding Cable Size	Wire Strip Length Inches	1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in Inches				
							Bolt Size	E	F	H	J
CRB-6L2	33078	6	No. 6 Weld	1-3/8	Ⓑ	Blue	1/4(2)	1-1/2	2-13/16	19/64	5/8
CRB-4L2	33079	4	No. 4 Weld	1-3/8	1	Gray	1/4(2)	1-1/2	2-13/16	11/32	5/8
CRC-4L2	33080	4	No. 4 Weld	1-3/8	1	Gray	1/2(2)	3-1/8	4-7/8	11/32	1-3/4
CRB-2L2	33081	2	—	1-1/2	1	Brown	5/16(2)	1-1/2	3	27/64	3/4
CRC-2L2	33082	2	—	1-1/2	1	Brown	1/2(2)	1-1/2	4-13/16	15/32	1-3/4
CRA-1L2	33083	1	No. 2 Weld	1-3/4	1	Green	5/16(2)	1-11/16	3-7/16	15/32	7/8
CRC-1L2	33084	1/0	No. 1 Weld	1-3/4	1	Green	1/2(2)	3	4-3/4	15/32	1-3/4
CRA-1/0L2	33085	1/0	No. 1 Weld	1-3/4	1	Pink	5/16(2)	1-11/16	3-7/16	33/64	7/8
CRA-2/0L2	33086	2/0	No. 1 Weld	1-7/8	1	Black	1/2(2)	3	4-25/32	9/16	1-3/4
CRB-3/0L2	33087	3/0	1/0 Weld	2	1	Orange	1/2(2)	3	4-13/16	39/64	1-3/4
CRB-4/0L2	33088	4/0	2/0 Weld	2-1/8	1	Purple	1/2(2)	3	4-31/32	11/16	1-3/4
CRA-250L2	33089	250	3/0 Weld	2-1/4	1	Yellow	1/2(2)	3	5-1/16	3/4	1-3/4
CRA-300L2	33090	300	4/0 Weld	2-1/2	1	White	1/2(2)	3	5-7/16	13/16	1-3/4
CRA-350L2	33091	350	—	2-1/2	1	Red	1/2(2)	3	5-7/16	7/8	1-3/4
CRA-400L2	33092	400	—	2-7/8	1	Blue	1/2(2)	3	5-3/4	15/16	1-3/4
CRA-500L2	33093	500	—	3	1	Brown	1/2(2)	3	5-3/4	1-1/16	1-3/4
CRA-700L2	33094	700	—	3-1/4	1	Pink	1/2(2)	3	6-1/16	1-1/4	1-3/4
CRA-750L2	33095	750	—	3-3/8	1	Black	1/2(2)	3	6-17/32	1-5/16	1-3/4
CRA-1000L2	33096	1000	—	4	1	—	1/2(2)	3	6-7/8	1-1/2	1-3/4

Ⓐ Also approved for use with Ilsco, Burndy, T & B and Anderson crimping tools. See the last page in this section for die codes and required number of crimps.
Ⓑ Cannot crimp with Greenlee 1990 crimper.

CONNECTORS

AS — Dual Rated Aluminum Compression Sleeves

Catalog No.	NAED/DCI 78-3310	Wire Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Approx. Length
AS-8	32978	8	3/4	Ⓑ	Blue	1-3/16
AS-6	32979	6	7/8	1	Gray	1-5/8
AS-4	32980	4	1	1	Green	1-7/8
AS-2	32981	2	1-1/4	1	Pink	2-3/8
AS-1	32982	1	1-1/4	1	Gold	2-3/8
AS-1/0	32983	1/0	1-1/4	1	Tan	2-3/8
AS-2/0	32984	2/0	1-3/8	1	Olive	2-1/2
AS-3/0	32985	3/0	1-1/2	1	Ruby	2-5/8
AS-4/0	32986	4/0	2	2	White	3-11/16
AS-250	32987	250MCM	2-1/8	2	Red	3-15/16
AS-300	32988	300MCM	2-1/4	2	Blue	4-1/16
AS-350	32989	350MCM	2-5/8	2	Brown	5-1/16
AS-400	32990	400MCM	2-5/8	2	Green	5-1/16
AS-500	32991	500MCM	2-5/8	2	Pink	5-1/16
AS-600	32992	600MCM	2-3/4	2	Black	5-5/16
AS-700	32993	700MCM	3	2	Purple	5-13/16
AS-750	32994	750MCM	3	2	Yellow	5-13/16
AS-1000	32995	1000MCM	3-5/8	2	Brown	7-1/8



CT/CTL — Copper Compression Sleeves

Catalog No.	NAED/DCI 78-3310	Wire Size	Welding Cable Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Approx. Length
CT-8	33097	8STR	No. 8 Weld	5/8	Ⓑ	Red	1-1/8
CT-6	33098	6STR	No. 6 Weld	1	Ⓑ	Blue	1-3/4
CT-4	33099	4STR	No. 4 Weld	1-1/8	1	Gray	1-7/8
CT-2	33100	2STR	—	1-1/8	1	Brown	1-7/8
CT-1	33101	1STR	No. 2 Weld	1-1/8	1	Green	1-7/8
CT-1/0	33102	1/0STR	No. 1 Weld	1-1/8	1	Pink	1-7/8
CT-2/0	33103	2/0STR	1/0 Weld	1-1/8	1	Black	2
CT-3/0	33104	3/0STR	2/0 Weld	1-1/4	1	Orange	2-1/8
CT-4/0	33105	4/0STR	3/0 Weld	1-1/4	1	Purple	2-1/8
CT-250	33106	250MCM	4/0 Weld	1-1/4	1	Yellow	2-1/4
CT-300	33107	300MCM	—	1-1/4	1	White	2-1/4
CT-350	33108	350MCM	—	1-3/8	1	Red	2-3/8
CT-400	33109	400MCM	—	1-3/8	1	Blue	2-1/2
CT-500	33110	500MCM	—	1-1/2	1	Brown	2-7/8
CT-750	33111	750MCM	—	1-5/8	1	Black	3-3/8
CT-1000	33112	1000MCM	—	2	1	White	3-7/8



Catalog No.	NAED/DCI 78-3310	Wire Size	Welding Cable Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Approx. Length
CTL-6	33113	6STR	No. 6 Weld	1-3/8	Ⓑ	Blue	2-3/8
CTL-4	33114	4STR	No. 4 Weld	1-3/8	1	Gray	2-3/8
CTL-2	33115	2STR	—	1-1/2	1	Brown	2-5/8
CTL-1	33116	1STR	No. 2 Weld	1-1/2	1	Green	2-7/8
CTL-1/0	33117	1/0STR	No. 1 Weld	1-1/2	1	Pink	2-7/8
CTL-2/0	33118	2/0STR	1/0 Weld	1-5/8	1	Black	3-1/8
CTL-3/0	33119	3/0STR	2/0 Weld	1-5/8	1	Orange	3-1/8
CTL-4/0	33120	4/0STR	3/0 Weld	1-5/8	1	Purple	3-3/8
CTL-250	33121	250MCM	4/0 Weld	1-5/8	1	Yellow	3-3/8
CTL-300	33122	300MCM	—	2-1/4	1	White	4-1/8
CTL-350	33123	350MCM	—	2-1/4	1	Red	4-1/8
CTL-400	33124	400MCM	—	2-3/8	1	Blue	4-3/8
CTL-500	33125	500MCM	—	2-1/2	1	Brown	4-5/8
CTL-750	33126	750MCM	—	3	1	Black	5-7/8
CTL-1000	33127	1000MCM	—	3-1/8	1	White	6-1/8



CPM — Copper Pigtail Adapter





Catalog No.	NAED/DCI 78-3310	Aluminum Conductor Size	Copper Conductor Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions In Inches		
							A	B	C
CPM-6	33152	6 Str.	8	1-3/8	1	Orange	.128	.875	1.250
CPM-4	33153	4 Str.	6	1-3/8	1	Orange	.184	.875	1.250
CPM-2	33154	2 Str.	4	1-1/2	1	Orange	.232	.875	1.344
CPM-1	33155	1 Str.	3	1-1/2	1	Orange	.258	1.000	1.344
CPM-1/0	33156	1/0 Str.	2	1-5/8	1	Red	.292	1.250	1.594
CPM-2/0	33157	2/0 Str.	1	1-5/8	1	Red	.332	1.250	1.594
CPM-3/0	33158	3/0 Str.	1/0	1-7/8	1	Red	.373	1.375	1.782
CPM-4/0	33159	4/0 Str.	2/0	1-7/8	1	Red	.418	1.375	1.782
CPM-250	33160	250MCM	3/0	2	1	Brown	.470	1.500	1.938
CPM-300	33161	300MCM	4/0	2-1/8	1	Brown	.528	1.625	2.062
CPM-350	33162	350MCM	4/0	2-1/8	1	Brown	.528	1.625	2.062
CPM-400	33163	400MCM	250MCM	2-1/4	1	Pink	.575	1.875	2.087
CPM-500	33164	500MCM	350MCM	2-1/4	1	Pink	.681	1.875	2.087
CPM-600	33165	600MCM	350MCM	2-3/4	B	Yellow	.681	1.875	2.625
CPM-750	33166	750MCM	500MCM	2-3/4	B	Yellow	.814	2.000	2.625
CPML-500	33167	500MCM	350MCM	2-1/4	1	Pink	.681	3.000	2.087
CPML-600	33168	600MCM	350MCM	2-3/4	B	Yellow	.681	3.000	2.625
CPML-750	33169	750MCM	500MCM	2-3/4	B	Yellow	.814	3.000	2.625

ACM — Aluminum Pin Connectors

Catalog No.	NAED/DCI 78-3310	Conductor Size	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in In.		
						A	B	C
ACM-6	33128	6 Str.	1-5/8	1	Tan	.22	.68	1.5
ACM-4	33129	4 Str.	1-5/8	1	Tan	.24	.68	1.5
ACM-2	33130	2 Str.	1-5/8	1	Tan	.24	.68	1.5
ACM-1	33131	1 Str.	1-5/8	1	Tan	.26	.84	1.5
ACM-1/0	33132	1/0 Str.	1-5/8	1	White	.29	.84	1.5
ACM-2/0	33133	2/0 Str.	1-5/8	1	White	.33	.84	1.5
ACM-3/0	33134	3/0 Str.	1-5/8	1	White	.37	1.22	1.5
ACM-4/0	33135	4/0 Str.	1-5/8	1	White	.42	1.22	1.5
ACM-250	33136	250MCM	1-3/4	1	Brown	.47	1.22	1.7
ACM-300	33137	300MCM	1-3/4	1	Brown	.53	1.34	1.7
ACM-350	33138	350MCM	1-3/4	1	Brown	.57	1.34	1.7
ACM-400	33139	400MCM	2-5/8	1	Pink	.63	1.60	2.0
ACM-500	33140	500MCM	2-5/8	1	Pink	.68	1.60	2.0
ACM-600	33141	600MCM	2-5/8	1	Yellow	.73	1.64	2.0
ACM-750	33142	750MCM	2-5/8	1	Yellow	.81	1.76	2.0





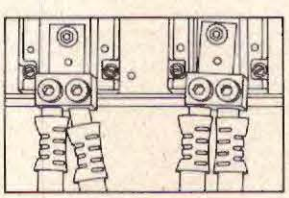


ACO — Aluminum Offset Pin Connectors

Catalog No.	NAED/DCI 78-3310	Wire Range	Wire Strip Length Inches	Greenlee 1990 No. of Crimps Ⓐ	Die Color Code	Dimensions in In.		
						C	D	F
ACO-2/0	33143	2/0	1-1/2	1	White	2.21	1.37	.33
ACO-3/0	33144	3/0	1-1/2	1	White	2.59	1.37	.37
ACO-4/0	33145	4/0	1-1/2	1	White	2.59	1.37	.42
ACO-250	33146	250	1-1/2	1	Brown	2.63	1.41	.47
ACO-300	33147	300	1-1/2	1	Brown	2.75	1.41	.53
ACO-350	33148	350	1-1/2	1	Brown	2.75	1.41	.57
ACO-500	33149	500	2-1/8	1	Pink	3.63	2.03	.68
ACO-600	33150	600	2-1/8	1	Yellow	3.67	2.03	.73
ACO-750	33151	750	2-1/8	1	Yellow	3.79	2.03	.81

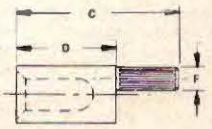






Lug Will Not Accept Straight Pin

Offset Pin Design — Application



Ⓐ Also approved for use with Ilsco, Burndy, T & B and Anderson crimping tools. See the last page in this section for die codes and required number of crimps.
Ⓑ Cannot crimp with Greenlee 1990 crimper.

CONNECTORS

TA — Dual Rated Aluminum Mechanical Lugs

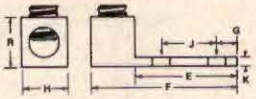

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5



Catalog No.	NAED/ DCI 78-3310	Fig. No.	Wire Range Al. or Cu.†	Wire Strip Length Inches	Dimensions In Inches							
					Bolt Size	E	F	G	H	J	K	R
TA-6S	33278	1	6-14	1/2	1/4	11/16	1-1/16	1/4	1/2	—	.093	.494
TA-2	33279	1	2-14	5/8	1/4	11/16	1-5/32	5/16	1/2	—	.100	.550
TA-0	33280	1	1/0-14	3/4	1/4	27/32	1-15/32	7/16	5/8	—	.187	.787
TA-2/0	33281	1	2/0-6	3/4	1/4	27/32	1-15/32	7/16	5/8	—	.187	.787
TA-250	33282	2	250MCM-6	1-1/8	5/16	1	2	15/32	1	—	.250	1.125
TA-300	33283	2	300MCM-6	1-1/8	1/4	1	2	1/2	55/64	—	.250	1.125
TA-350	33284	2	350MCM-6	1-1/4	3/8	1-1/8	2-1/4	1/2	1-1/8	—	.250	1.250
TA-500	33285	2	500MCM-4	1-3/8	3/8	1-19/32	2-13/16	7/8	1-1/2	—	.312	1.562
TA-500S	33286	3	One 600MCM-4 Two 250MCM-1/0	1-1/2	3/8	1-1/2	2-13/16	5/8	1-3/8	—	.312	1.812
TA-600	33287	2	600MCM-2	1-1/2	3/8	1-13/16	3-3/16	7/8	1-1/2	—	.438	1.562
TA-800	33288	2	800MCM-300MCM	1-3/4	5/8	1-3/4	3-3/8	7/8	1-3/4	—	.500	1.937
TA-800S	33289	3	800MCM-3/0 CU 800-250MCM AL	1-3/4	5/8	1-3/4	3-1/4	11/16	1-5/16	—	.500	1.812
TA-1000	33290	2	1000MCM-250MCM	1-3/4	5/8	1-3/4	3-3/8	7/8	1-3/4	—	.500	1.937
TA-1000S	33291	3	1000-500MCM	1-3/4	5/8	1-3/4	3-1/4	11/16	1-7/16	—	.500	1.812
TA-350-2NS	33292	4	350MCM-6	1-1/2	1/2(2)	3	4-5/16	5/8	1-1/8	1-3/4	.312	1.375
TA-350-2N	33293	4	350MCM-6	2-3/8	1/2(2)	3-1/4	5-1/2	5/8	1-1/4	1-3/4	.375	1.500
TA-600-2NS	33294	4	600MCM-2	1-1/2	1/2(2)	3-5/16	4-11/16	5/8	1-1/2	1-3/4	.437	1.375
TA-800-2NS	33295	4	800MCM-300MCM	1-3/4	1/2(2)	3-1/8	4-3/4	5/8	1-3/4	1-3/4	.500	1.625
TA-1000-2NS	33296	4	1000MCM-500MCM	1-3/4	1/2(2)	3-1/8	4-3/4	5/8	1-3/4	1-3/4	.500	1.625
TA-600-2N	33297	5	600MCM-2	2-7/8	1/2(2)	3-1/4	5-1/2	5/8	1-3/8	1-3/4	.375	1.500
TA-800-2N	33298	5	800MCM-300MCM	2-7/8	1/2(2)	3-7/16	6-3/16	5/8	1-9/16	1-3/4	.562	1.875
TA-1000-2N	33299	5	1000MCM-500MCM	2-7/8	1/2(2)	3-7/16	6-3/16	5/8	1-5/8	1-3/4	.562	1.875

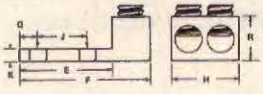
AU — Dual Rated Aluminum Mechanical Lugs


Fig. 1


Fig. 2


Fig. 3

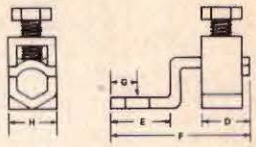

Fig. 4



Catalog No.	NAED/ DCI 78-3310	Fig. No.	Wire Range Al. or Cu.†	Wire Strip Length Inches	Dimension In Inches							
					Bolt Size	E	F	G	H	J	K	R
AU-0	33300	1	Two: 1/0-14	3/4	1/4	27/32	1-15/32	7/16	1-1/8	—	.187	.787
AU-2/0	33301	1	Two: 2/0-14	3/4	1/4	27/32	1-15/32	27/64	1-1/4	—	.187	.787
AU-250	33302	2	Two: 250MCM-6	1-1/8	3/8	1-9/16	2-9/16	7/8	1-21/32	—	.250	1.187
AU--350	33303	2	Two: 350MCM-4	1-1/4	1/2	1-3/4	2-7/8	7/8	1-57/64	—	.250	1.250
AU-600	33304	2	Two: 600MCM-2	1-1/2	1/2	1-13/16	3-3/16	5/8	2-13/32	1-3/4	.437	1.562
AU800	33305	2	Two: 800MCM-300MCM	1-3/4	5/8	1-3/4	3-3/8	7/8	3-3/16	—	.500	1.937
AU-1000	33306	2	Two: 1000MCM-500MCM	1-3/4	5/8	1-3/4	3-3/8	7/8	3-3/16	—	.500	1.937
AU-600-2NS	33307	3	Two: 600MCM-2	1-1/2	1/2(2)	3-5/16	4-11/16	5/8	2-13/32	1-3/4	.437	1.562
AU-800-2NS	33308	3	Two: 800MCM-2	1-3/4	1/2(2)	3-1/8	4-3/4	5/8	3-3/16	1-3/4	.500	1.625
AU--1000-2NS	33309	3	Two: 1000MCM-2	1-3/4	1/2(2)	3-1/8	4-3/4	5/8	3-3/16	1-3/4	.500	1.625
AU-350-2N	33310	3	Two: 350MCM-6	2-3/8	1/2(2)	3	4-5/16	5/8	2	1-3/4	.312	1.375
AU-600-2N	33311	4	Two: 600MCM-2	2-5/8	1/2(2)	3-1/4	5-1/2	5/8	2-13/32	1-3/4	.375	1.500
AU-800-2N	33312	4	Two: 800MCM-300MCM	2-7/8	1/2(2)	3-7/16	6-3/16	5/8	3	1-3/4	.562	1.875
AU-1000-2N	33313	4	Two: 1000MCM-500MCM	2-7/8	1/2(2)	3-7/16	6-3/16	5/8	3-3/16	1-3/4	.562	1.875

SLU — Copper Mechanical Lugs One Hole — One Collar



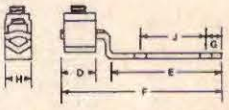


Catalog No.	NAED/ DCI 78-3310	Amp Rating	Wire Range†	Wire Strip Length Inches	Dimensions in Inches						Screw Type
					Bolt Size	D	E	F	G	H	
SLU25	33250	25	10-14	3/8	1/8	9/32	7/16	1	3/16	5/16	SLOT
SLU35	33251	35-50	6-14 & List Comb.	1/2	3/16	7/16	15/32	1-3/16	7/32	3/8	SLOT
SAU70	33252	70	4-14	1/2	1/4	7/16	17/32	1-5/16	1/4	1/2	SLOT
SLU70	33253	70-90	2-8 & List Comb.	3/8	1/4	1/2	21/32	1-17/32	1/4	1/2	SLOT
SLU125	33254	125	1/0-2	3/4	1/4	5/8	13/16	1-31/32	7/16	5/8	SLOT
SLU175	33255	175	3/0-4	7/8	3/8	3/4	15/16	2-3/16	7/16	3/4	3/16*
SLU225	33256	225	4/0-2	1-1/8	5/16	1	1-5/32	2-5/8	1/2	1	7/32*
SLU300	33257	300	350MCM-1/0	1-3/8	3/8	1-1/4	1-1/2	3-3/16	1/2	1	5/16*
SLU400	33258	400	500MCM-1/0	1-5/8	3/8	1-1/2	1-15/16	4-1/4	15/16	1-1/2	5/16*
SLU650	33259	650	1000MCM-600MCM	2	1/2	1-7/8	1-7/8	4-5/8	1-3/16	2	3/8*

*ALLEN

E — Copper Mechanical Lugs Two Holes — One Collar



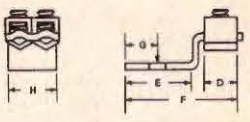


Catalog No.	NAED/ DCI 78-3310	Amp Rating	Wire Range†	Wire Strip Length Inches	Dimensions in Inches							Screw Type
					Bolt Size	D	E	F	G	H	J	
E-35	33263	35-50	6-14 & List Comb.	1/2	3/16(2)	7/16	1-1/2	2-1/4	7/32	3/8	1	SLOT
E-70	33264	70-90	2-8 & List Comb.	5/8	1/4(2)	1/2	1-1/2	2-7/16	1/4	1/2	1	SLOT
E-125	33265	125	1/0-2	3/4	1/4(2)	5/8	1-7/8	2-15/16	7/16	5/8	1	SLOT
E-225	33266	225	4/0-2	1-1/8	5/16(2)	1	2-5/32	3-19/32	1/2	1	1	7/32*
E-300	33267	300	350MCM-1/0	1-3/8	3/8(2)	1-1/4	3-11/16	5-11/16	13/16	1	1-7/8	5/16*
E-400	33268	400	500MCM-1/0	1-5/8	3/8(2)	1-1/2	3-13/16	6	15/16	1-1/2	1-3/4	5/16*
E-650	33269	650	1000MCM-600MCM	2	1/2(2)	1-7/8	3-9/16	6-1/4	1-3/16	2	1-3/4	3/8*

*ALLEN

LU — Copper Mechanical Lugs One Hole — Two Collars

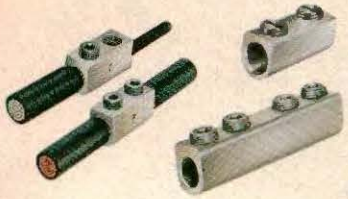




Catalog No.	NAED/ DCI 78-3310	Amp Rating	Wire Range†	Wire Strip Length Inches	Dimensions in Inches						Allen Screw Size
					Bolt Size	D	E	F	G	H	
LU-2	33260	400	2#4/0 TO 2#1/0	1-1/8	3/8	1	1-15/16	3-11/32	15/16	1-1/2	7/32
LU-4	33261	600	2#350MCM to 2#1/0	1-3/8	3/8	1-1/4	1-3/4	3-1/2	21/32	1-3/4	5/16
LU-6	33262	800	2#500MCM to 2#1/0	1-5/8	1/2	1-1/2	2-3/16	4-7/16	27/32	2	5/16

†METHOD OF ATTACHMENT: Mechanical Screw. See last page of this section for tightening torque.

SPA — Dual Rated Aluminum Mechanical Splicers/Reducers





Catalog No.	NAED/DCI 78-3310	Wire Range		Dimensions in Inches			No. of Screws	Screw Dia.
		Max.	Min.	F	H	T		
SPA-2*	33270	2	14	1-19/32	9/16	9/16	2	3/8
SPA-0*	33271	1/0	8	1-29/32	3/4	3/4	2	7/16
SPA-4/0	33272	4/0	6	2-5/16	1	1-3/32	2	9/16
SPA-250	33273	250	6	4-3/32	1	1-3/32	4	5/8
SPA-350	33274	350	6	4-11/32	1	1-3/32	4	11/16
SPA-500	33275	500	3/0	4-25/32	1-1/4	1-3/8	4	13/16
SPA-750	33276	750	250	6-1/16	1-7/16	1-5/8	4	15/16
SPA-1000	33277	1000	500	8-11/16	1-23/32	1-7/8	6	1-1/8

*Slotted Screws
†METHOD OF ATTACHMENT: Mechanical Screw. See last page of this section for tightening torque.

DBA — Dual Rated Aluminum 2 Bolt Tap Connectors



Catalog No.	NAED/DCI 78-3310	Wire Range		Height	Length	Width
		Main	Tap			
DBA-2/0	33202	2/0-2	2/0-10	1-5/8	1-5/8	1-1/8
DBA-250	33203	250MCM-1/0	250MCM-10	2	2	1-5/16
DBA-350	33204	350MCM-4/0	350MCM-10	2-1/4	2-11/32	1-9/16
DBA-500	33205	500MCM-350MCM	500MCM-10	2-3/4	2-1/2	1-3/4
DBA-800	33206	800MCM-400MCM	800MCM-3/0	3	2-7/8	1-7/8
DBA-1000	33207	1000MCM-500MCM	1000MCM-3/0	3-1/2	3-3/16	2-1/4

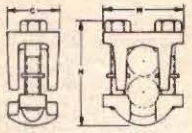
DBA-S — Dual Rated 2 Bolt Aluminum Tap Connectors with Spacer



Catalog No.	NAED/DCI 78-3310	Wire Range		Height	Length	Width
		Main	Tap			
DBA-2/0S	33208	2/0-2	2/0-10	1-5/8	1-5/8	1-1/8
DBA-250S	33209	250MCM-1/0	250MCM-10	2	2	1-5/16
DBA-350S	33210	350MCM-4/0	350MCM-10	2-1/4	2-11/32	1-9/16
DBA-500S	33211	500MCM-350MCM	500MCM-10	2-3/4	2-1/2	1-3/4
DBA-800S	33212	800MCM-400MCM	800MCM-3/0	3	2-7/8	1-7/8
DBA-1000S	33213	1000MCM-500MCM	1000MCM-3/0	3-1/2	3-3/16	2-1/4

IKB — Two Bolt Copper Connectors



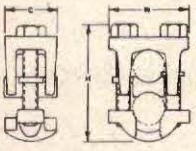


Catalog No.	NAED/DCI 78-3310	Copper Conductors		C	H Approx.	W
		Run (A)	Tap (AA)			
IKB-4/0+	33214	1/0-4/0	10-4/0	1.10	1.97	1.72
IKB-350+	33215	250MCM-350MCM	10-350MCM	1.38	2.46	1.12
IKB-500	33216	400MCM-500MCM	10-500MCM	1.50	2.89	2.25
IKB-800	33217	400MCM-800MCM	3/0-800MCM	1.62	3.32	2.50
IKB-1000	33218	500MCM-1000MCM	3/0-1000MCM	2.00	3.78	3.03

+REA listed.

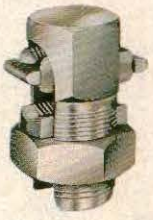
IKS — Two Bolt Copper Connectors with Spacer





Catalog No.	NAED/DCI 78-3310	Conductors		C	H Approx.	W
		Aluminum and/or Copper				
		Run (A)	Tap (AA)			
IKS-4/0	33219	1/0-4/0	6-4/0	1.12	2.31	1.72
IKS-350	33220	250MCM-350MCM	6-350MCM	1.38	2.62	2.12
IKS-500	33221	400MCM-500MCM	4-500MCM	1.50	3.00	2.26
IKS-800	33222	400MCM-800MCM	4/0-600MCM	1.62	3.50	2.50
IKS-1000	33223	500MCM-1000MCM	4/0-1000MCM	2.00	4.03	3.03

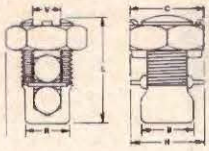
AK — Dual Rated Aluminum Split Bolt Connectors



Catalog No.	NAED/DCI 78-3310	Max. Run to Max. Tap AL9CU		Min. Run to Min. Tap AL9CU		Max. Run to Min. Tap AL9CU		Recommended Tightening Torque
AK-6	33170	6 Str.	6 Str.	10 Sol.	10 Sol.	6 Str.	10 Sol.	165
AK-4	33171	4 Str.	4 Str.	8 Sol.	10 Sol.	4 Str.	10 Sol.	165
AK-2	33172	2 Str.	2 Str.	6 Str. Compact	8 Str.	2 Str.	8 Str.	275
AK-1/0	33173	1/0 Str.	1/0 Str.	2 Str. Compact	8 Sol.	1/0 Str.	8 Sol.	385
AK-2/0	33174	2/0 Str.	2/0 Str.	2 Str. Compact	8 Str.	2/0 Str.	8 Str.	385
AK-4/0	33175	4/0 Str.	4/0 Str.	2 Str. Compact	6 Str.	4/0 Str.	6 Str.	500
AK-350	33176	350 MCM	350 MCM	1/0 Str. Compact	4 Str.	350 MCM	4 Str.	650
AK-500	33177	500 MCM	500 MCM	400 MCM Compact	2 Str.	500 MCM	2 Str.	825

SK — Dual Rated Copper Split Bolts with Spacer



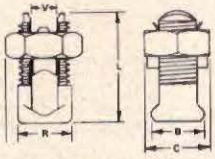


Catalog No.	NAED/DCI 78-3310	Conductors				Dimensions in Inches					
		Run		Tap							
		Copper & Aluminum	ACSR-AAAC 5005	Copper & Aluminum	ACSR-AAAC 5005	B	C	H	L	R	V
SK-6+	33192	12SOL-6SOL		12SOL-6SOL		.55	.62	1.00	.92	.44	.166
SK-4+	33193	10SOL-4SOL	6(6-1)	10SOL-4SOL	6(6-1)	.59	.69	1.06	1.05	.51	.216
SK-3+	33194	10SOL-2SOL	6(6-1)-4(7-1)	10SOL-2SOL	6(6-1)-4(7-1)	.68	.74	1.10	1.25	.59	.264
SK-2	33195	8STR-2STR	3(6-1)-2(6-1)	8SOL-2STR	6(6-1)-2(7-1)	.68	.81	1.19	1.48	.60	.323
SK-1/0+	33196	2STR-1/0STR	3(6-1)-1(6-1)	1STR-1/0STR	6(6-1)-1(6-1)	.81	.93	1.33	1.77	.72	.385
SK-2/0	33197	2STR-2/0STR	1(6-1)-1/0(6-1)	8STR-2/0STR	6(6-1)-1/0(6-1)	.90	1.04	1.45	1.93	.81	.435
SK-3/0	33198	1STR-3/0STR	8SOL	1STR-3/0STR	8SOL	1.35	1.36	2.34	2.25	1.17	.553
SK-250	33199	1STR-250MCM	2/0(6-1)-4/0(6-1)	8STR-250MCM	6(6-1)-4/0(6-1)	1.38	1.38	2.08	2.50	1.17	.602
SK-350	33200	1/0STR-350MCM	2/0(6-1)-4/0(6-1)	4STR-350MCM	4(6-1)-4/0(6-1)	1.69	1.69	2.14	3.12	1.25	.696
SK-500	33201	400-500MCM		2STR-500MCM	2(6-1)-477(18/1)	2.00	2.00	2.72	3.38	1.38	.847

+REA listed.

IK — Copper Split Bolts



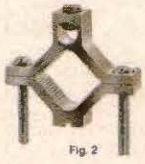


Catalog No.	NAED/DCI 78-3310	Copper Conductor		Dimensions in Inches				
		Range for Equal Run & Tap	Min. Tap with Max. Run	B	C	L Max.	R	V
IK-10*	33178	12STR-10STR	16STR	.45	.44	.72	.29	.117
IK-8	33179	10STR-8STR	14STR	.42	.49	.72	.37	.142
IK-6+	33180	8STR-6SOL	14STR	.55	.62	.98	.44	.165
IK-4+	33181	8STR-4SOL	14STR	.65	.68	1.04	.50	.216
IK-3	33182	6STR-2SOL	14STR	.70	.74	1.08	.58	.264
IK-2+	33183	6STR-2STR	14STR	.70	.80	1.51	.62	.323
IK-1/0+	33184	4STR-1/0STR	14STR	.83	.93	1.64	.72	.385
IK-2/0	33185	2STR-2/0STR	14STR	.92	1.04	1.79	.81	.436
IK-3/0	33186	1STR-3/0STR	8SOL	1.35	1.36	2.34	1.17	.553
IK-250	33187	1STR-250MCM	8STR	1.41	1.36	2.57	1.17	.605
IK-350	33188	1/0STR-350MCM	1/0STR	1.69	1.69	2.75	1.25	.696
IK-500	33189	2/0STR-500MCM	2/0STR	1.50	1.82	2.91	1.50	.850
IK-750	33190	4/0STR-750MCM	4/0STR	2.31	2.31	3.75	1.62	1.010
IK-1000	33191	300-1000MCM	4/0STR	2.56	2.56	4.19	1.88	1.166

*Not U.L. listed. +REA listed.

AGC — Dual Rated Aluminum Ground Clamps


Fig. 1


Fig. 2

Catalog No.	NAED/DCI 78-3310	Ground Conduit Size	Wire Range	Fig. No.	Screw Type	Width	Length
AGC-1	33245	1/2-3/4-1	1/0-14	1	Slotted	11/16	2-1/4
AGC-2	33246	1 1/4-1 1/2-2	250MCM-6	2	Hex Socket	13/16	3-3/4
AGC-4	33247	2 1/2-3-3 1/2-4	250MCM-6	2	Hex Socket	1	6-5/16

BGC — Cast Bronze Ground Clamps



Catalog No.	NAED/DCI 78-3310	Conduit Size	Ground Wire Range	Width	Length
BGC-1	33248	1/2-3/4-1	10-2	5/8"	2-9/32
BGC-2	33249	1-1/4-1-1/2-2	10-2	11/16	3-9/16

SX — Copper Service Entrance Connectors



Catalog No.	NAED/DCI 78-3310	Max. Wire	Length	Width	Height
SX-12	33224	12STR	.288	.255	3/8
SX-10-8	33225	8-10STR	5/16	.253	.484
SX-6	33226	6STR	7/16	.339	11/16
SX-4	33227	4STR	1/2	13/32	25/32
SX-2	33228	2STR	3/4	.477	15/16

GS — Copper Ground Straps



Catalog No.	NAED/DCI 78-3310	Pipe Size	Length	Width	Thickness Inches
GS-1	33236	3/8-1	5-17/32	3/4	.050
GS-2	33237	3/8-2	9-5/16	3/4	.050
GS-3	33238	3/8-3	12-3/4	3/4	.050
GS-4	33239	3/8-4	15-3/4	3/4	.050
GS-10	33240	3/8-1	5-17/32	3/4	.025
GS-20	33241	3/8-2	9-5/16	3/4	.025
GS-30	33242	3/8-3	12-3/4	3/4	.025
GS-40	33243	3/8-4	15-3/4	3/4	.025

GSR — Perforated Copper Ground Straps



Catalog No.	NAED/DCI 78-3310	Coil Size	Width	Thickness Inches
GSR-Plain*	33244	10 ft.	3/4	.030

*1/4" Holes

BGRC — Cast Bronze Rod Clamps



Catalog No.	NAED/DCI 78-3310	Ground Rod Size	Wire Range	Width	Length
BGRC-48	33233	1/2	2-10	7/8"	3/4"
BGRC-58	33234	5/8	1/0-8	15/16"	7/8"
BGRC-68	33235	3/4	1/0-8	1"	1"

GRC — Bronze Ground Rod Clamps



Catalog No.	NAED/DCI 78-3310	Ground Rod Size	Wire Range	Height	Width	Length
*GRC-38	33229	3/8	4-10	29/32	5/8	5/8
GRC-48	33230	1/2	2-10	1-5/32	3/4	7/8
GRC-58	33231	5/8	2-8	1-21/64	57/64	15/16
GRC-68	33232	3/4	2-8	1-15/32	1-1/32	1

*Not U.L. listed. Plain copper finish. Suitable for burial in earth or concrete. REA listed.

CONNECTORS

Oxide Inhibitor

Greenlee Oxide Inhibitor is a grease-like compound designed to retard or halt oxidation. **OXIDE INHIBITOR MUST BE USED ON CONNECTIONS MADE WITH ANY ALUMINUM COMPONENT** and is highly recommended for connections made with copper components.

Catalog No.	HAED/DCI 78-3310	Description	Size
32924	32924	Oxide Inhibitor	4 OZ.
32925	32925	Oxide Inhibitor	8 OZ.



Tightening Torque Values

SCREW CONNECTORS		
AWG. OR CIRCULAR MIL SIZE	TIGHTENING TORQUE IN INCH POUNDS	
	SCREW DRIVER	EXTERNAL DRIVE WRENCH
14	35	75
12	35	75
10	35	75
8	40	75
6	45	110
4	45	110
2	50	150
1	50	150
1/0	50	180
2/0	50	180
3/0		250
4/0		250
250		325
350		325
500		375
600		375
700		375
750		375
800		500
1000		500

SOCKET HEAD SCREW CONNECTORS	
SOCKET SIZE ACROSS FLATS INCHES	TIGHTENING TORQUE IN INCH POUNDS
1/8	45
5/32	100
3/16	120
7/32	150
1/4	200
5/16	275
3/8	375
1/2	500
9/16	600

DUAL RATED ALUMINUM COMPRESSION CONNECTORS

Compression Terminals ACL, 2ACL, AS, ACN, 2ACN Ⓐ	Color Code	Greenlee No. Crimps 1990 Dieless Crimper	Ilsco Tools Die Code	Ilsco Tools Number of Crimps MT-25 Hand Ⓒ	ILC-12 ILC-12H 12 Ton	ILC-14 ILC-14H 14 Ton	ILC-30H 30 Ton	Burndy Tools Ⓒ Die Code	Burndy Tools Number of Crimps MY29-3 Hand Ⓑ	Y34A	Y35	Y39	Y45	Y46	Y48B	T & B Tools Ⓒ Die Code	T & B Tools Number of Crimps TBM 8 Hand	13642 12 Ton	TBM 15 15 Ton	21940 40 Ton	Anderson Square D Versa-Ⓑ Crimp
8	BLUE		2	1	1	1	1	374	1							24	1	1	2		
6	GRAY	1	3	1	1	1	1	346	1	1†	1	1	1	1		29	2	2	2	2	
4	GREEN	1	4	1	2	2	2	375	1	1†	1	1	1	1		37	2	2	2	2	1
2	PINK	1	7	2	1	1	1	348	2	1†	1	1	1	1		42	2	2	4*	2	1
1	GOLD	1	7	2	1	1	1	471	2	1†	1	1	1	1		45	3	3	3	3	2
1/0	TAN	1	8	2	1	1	1	296	2	1†	1	1	1	1	1	50	3	3	3	3	2
2/0	OLIVE	1	10	2	1	1	1	297	2	2†	2	2	2	2	1	54	3	3	6*	3	2
3/0	RUBY	1	10	2	2	2	2	467	2	2†	2	2	2	2	1	60	3	3	3	3	2
4/0	WHITE	2	12	2	1	1	1	298	2	2†	2	2	2	2	1	66	5	4*	2	2	3
250	RED	2	13		2	2	2	324		2†	2	2	2	2	1	71	5	4*	4*	2	3
300	BLUE	2	14		2	2	2	470		2†	2	2	2	2	1†	76	5	4*	2	2	3
350	BROWN	2	14		2	2	2	299			2	2	2	2	1†	87	6	4*	4*	2	3
400	GREEN	2	16		3	3	3	472			4	4	4	4	2†	94		4*	4*	2	4
500	PINK	2	16A		3	3	3	300			4	4	4	4	2†	99		4*	4*	2	4
600	BLACK	2	17		4	4	4	473			4	4	4	4	2†	106		4*	2	2	4
700	PURPLE	2	17		4	4	4	936				4	4	4	2	112		4*	4*	2	
750	YELLOW	2	18		5	5	5	936				4	4	4	2	115		4*	4*	2	
1000	BROWN	2	20				3	302							2†	140			4*	2	

COPPER COMPRESSION CONNECTORS

Compression Terminals CR, CT Ⓐ	Color Code	Greenlee No. Crimps 1990 Dieless Crimper	Ilsco Tools Die Code	Ilsco Tools Number of Crimps MT-25 Hand Ⓑ	ILC-12 ILC-12H 12 Ton	ILC-14 ILC-14H 14 Ton	ILC-30H 30 Ton	Burndy Tools Ⓒ Die Code	Burndy Tools Number of Crimps MY29-3 Hand Ⓑ	Y34A	Y35	Y39	Y45	Y46	Y48B	T & B Tools Ⓒ Die Code	T & B Tools Number of Crimps TBM 8 Hand	13642 12 Ton	TBM 15 15 Ton	21940 40 Ton	Anderson Square D Versa-Ⓑ Crimp
8	RED		1	1	1	1	1		1							21	1	1			
6	BLUE		2	1	1	1	1	7/374	1	1†	1	1	1	1		24	1	2	2	2	
4	GRAY	1	3	1	2	2	2	8/346	1	1†	1	1	1	1		29	2	2	2	2	1
2	BROWN	1	4	2	2	2	2	10	2	1†	1	1	1	1		33	2	2	2	2	1
1	GREEN	1	4	2	2	2	2	11/375	2	1†	1	1	1	1		37	3	2	2	2	1
1/0	PINK	1	5	2	2	2	2	12/348	2	1†	1	1	1	1		42	3	2	4*	2	1
2/0	BLACK	1	6	2	2	2	2	13	2	1†	1	1	1	1		45	3	2	2	2	1
3/0	ORANGE	1	9	2	2	2	2	14/101	2	1†	1	1	1	1		50	3	2	2	2	1
4/0	PURPLE	1	10	2	1	1	1	15	2	1†	1	1	1	1	1	54	4	2	4*	2	1
250	YELLOW	1	11	2	2	2	2	16	2	1†	1	1	1	1	1	62	4	2	2	2	1
300	WHITE	1	12		1	1	1	17/298		1†	1	1	1	1	1†	66	4	2*	1	1	1
350	RED	1	13		1	1	1	18/324		1†	1	1	1	1	1†	71	4	2*	2*	1	2
400	BLUE	1	14		1	1	1	19/470		1†	1	1	1	1	1†	76	4	2*	1	1	2
500	BROWN	1	15		1	1	1	20/299			2	2	2	2	1†	87	4	2*	2*	1	2
600	GREEN	1	16		1	1	1	22/472			2	2	2	2	2†	94		3*	3*	2	2
700	PINK	1	16		1	1	1	300				3	3	3	2	99		3*	3*	2	
750	BLACK	1	17		3	3	3	24/473				3	3	3	2	106		3*	2	2	
1000	WHITE	1	19				2	27							2†	125			3*	2	

* T & B half dies require twice the number of crimps.

† These Burndy tools are listed for use with die and nest indentor combination.

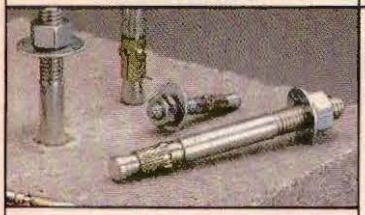
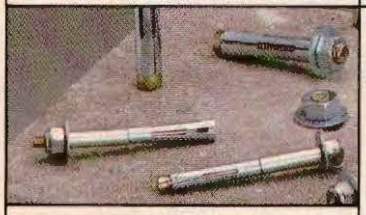
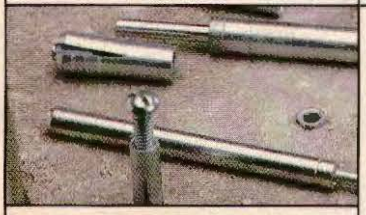
Ⓐ Number of crimps shown on chart must be on each end of the CT splicer connectors.

Ⓑ The Greenlee 1990, Ilsco MT-25, Burndy MY29-3 and Anderson Versa-Crimp tools are not color coded and do not contain the die index numbers.

Ⓒ Consult manufacturers data for catalog numbers of dies for each tool.

Ⓓ For long barrel (CRAL or CTL) connectors add one additional crimp to chart.

Anchor Type	Use In	Use With	Made of	Size Range	General Information
 Page 78 - Plastic Conical	Concrete, block, tile, brick,	Sheet metal, wood, lag screws	Corrosion-resistant plastic	#6-8 x 3/4″ to #10-12 x 1-1/2″	Light duty, multi-size anchor. Has collar for hollow materials.
 Page 78 - Plastic Tubular Plug	Concrete, brick, stone	Sheet metal, wood, lag screws	Extruded corrosion-resistant plastic	#6-8 x 1″ to #10-12 x 1-1/2″	Light duty, all purpose screw anchor. Color-coded diameter fluted. Vibration resistant.
 Page 78 - Nylon Hollow Wall	Plaster-board, sheet rock paneling, masonite walls & ceilings; also solid material	Sheet metal screws #6, #8, or #10 1-1/2″ min. length	Nylon	1/8″ to 5/8″ thick. #6, #8, #10 screws	Fast, easy, medium duty application for hollow walls. Can be removed if necessary leaving only 5/16'' hole. Nonrusting, nonmagnetic, non-corroding.
 Page 78 - Mushroom Head	Concrete, block, brick, wallboard	No other fastener needed	Nylon and steel	1/4″ x 1″ to 1/4″ x 3″	Fast, light duty anchor. No hole spotting, removable. Use in hollow or solid base applications. Resistance to chemicals and fungus.
 Page 78 - Zinc Mushroom Head	Concrete, block, brick	No other fastener needed	Zinc and steel	3/16″ x 7/8″ to 1/4″ x 2″	Fast, medium duty. No hole spotting, removable. Use in hollow or solid base applications.
 Page 80 - Toggle Bolts	Block wallboard, plaster, tile	No other fastener needed	Steel	1/8″ x 3″ to 1/4″ x 6″	Available in round head and mush-room head. Fully threaded machine screw with spring wing toggle head.

Anchor Type	Use In	Use With	Made of	Size Range	General Information
 Page 78 - Wedge	Concrete, brick, stone	No other fastener needed	Steel	1/4″ x 1-3/4″ to 1/2″ x 3-3/4″	Heavy-duty one piece expansion bolt complete with nut and washer. No hole spotting. No need for exact hole depth.
 Page 79 - Sleeve	Concrete, block, brick, stone	No other fastener needed	Steel	1/4″ x 1-3/8″ to 3/8″ x 3″	Pre-assembled, all purpose expansion anchor. Thread diameter is less than anchor diameter. Drill hole same diameter as anchor. No hole spotting. No need for exact hole depth.
 Page 79 - Drop	Concrete, brick, stone	Machine screw or bolt	Steel	1/4″ - 20 to 3/8″ - 16	Heavy-duty use in solid masonry where codes require all steel bolt anchors. Pre-assembled, internal expander plug. Can be installed flush with masonry surface or sub-set. Setting tool required (1 provided free in each box of anchors).
 Page 79 - Caulking	Concrete, brick, stone, block	Machine screw or bolts	Zinc alloy and lead	8 - 32 to 1/2″ - 13	Single unit caulking anchor, can be set shallow (flush) or deep in hole. Setting tool required. (1 provided free in each box of anchors.) For setting in hollow block or to set anchors all at the same depth use Greenlee screw anchor expander.
 Page 79 - Lag Shield	Mortar joint, concrete, brick	Lag bolt	Rustproof zinc alloy	1/4″ thru 1/2″ short & long	Available in short and long styles. Long style recommended for weaker masonry.
 Page 80 - Masonry Screws	Concrete, block, brick	No other fastener needed	Steel	1/4″ x 1″ to 1/4″ x 2-1/2″	A safe, secure fastener that actually taps concrete and eliminates the need for concrete inserts with their alignment problems. Use with Greenlee masonry drill set tool.
 Page 80 - Masonry Bits	Concrete, block, brick, stone, wallboard, plaster, etc.	Power drills, or electric hammer drills	Steel with carbide tip	3/16″, 1/4″, 5/16″, 3/8″ and 1/2″	Available in fast spiral for use with conventional power drills and percussion type for use with electric hammer drills.

Plastic Conical Anchors

INSTALLATION:



1. Drill Hole.
2. Insert anchor until flange is flush with surface.
3. Position fixture, insert screw, and tighten.

ORDERING INFORMATION: Plastic Conical Anchors

NAED/ DCI No. Cat. No.	Size/Description	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84003	For #6 and #8 Screws	3/16"	100	1000 (10 Boxes of 100)
84006	For #10 and #12 Screws	1/4"	100	1000 (10 Boxes of 100)

Plastic Conical Anchor Kits include Anchors, Screws and a Bit



A B C D

NAED/ DCI No. Cat. No.	Anchor Size	Screw Size	Screw Type	Bit Size	Qty. Per Kit Anchors	Qty. Per Kit Screws	Qty. Per Kit Bit	Kits Per Master Carton
84009	#6 and #8	#8 x 1"	A	3/16"	100	100	1	10
84012	#10 and #12	#10 x 1"	A	1/4"	100	100	1	10
84015	#10 and #12	#12 x 1"	A	1/4"	100	100	1	10
84019	#10 and #12	#10 x 1"	B	1/4"	100	100	1	10
84020	#6 and #8	#8 x 1"	C	3/16"	100	100	1	10
84021	#10 and #12	#10 x 1"	C	1/4"	100	100	1	10
84024	#6 and #8	#8 x 1"	D	3/16"	100	100	1	10
84025	#10 and #12	#10 x 1"	D	1/4"	100	100	1	10

Plastic Tubular Anchors

INSTALLATION:



1. Drill hole full length of anchor or 1/8" deeper.
2. Tap anchor into hole flush with surface.
3. Insert screw through fixture into plastic plug and tighten.

ORDERING INFORMATION: Plastic Tubular Plug Anchor

NAED/ DCI No. Cat. No.	Size/ Description	Length	Color	Req. Hole Size	Per Box	Qty. Per Master Carton
84033	For #6 and #8 Screws	1"	White	3/16"	100	1000 (10 Boxes of 100)
84036	For #6 and #8 Screws	1-1/2"	White	3/16"	100	1000 (10 Boxes of 100)
84039	For #10 and #12 Screws	1-1/4"	Green	1/4"	100	1000 (10 Boxes of 100)
84042	For #10 and #12 Screws	1-1/2"	Green	1/4"	100	1000 (10 Boxes of 100)

Plastic Tubular Plug Anchor Kits include Anchors, Screws and a Bit

NAED/ DCI No. Cat. No.	Anchor Size	Screw Size	Color	Bit Size	Qty. Per Kit Anchors	Qty. Per Kit Screws	Qty. Per Kit Bit	Kits Per Master Carton
84045	#6 and #8	#6 x 1"	White	3/16"	100	100	1	10
84048	#6 and #8	#6 x 1-1/2"	White	3/16"	50	50	1	10
84051	#10 and #12	#10 x 1-1/4"	Green	1/4"	50	50	1	10
84054	#10 and #12	#10 x 1-1/2"	Green	1/4"	50	50	1	10

Nylon Hollow Wall Anchors

LARGE WALL THICKNESS RANGE . . . For 1/8" through 5/8" thick or solid material.



INSTALLATION:



1. Drill 5/16" diameter hole.
2. Insert anchor until flange is flush with surface.
3. Position fixture, insert screw, and tighten.

ORDERING INFORMATION: Nylon Hollow Wall Anchors for 1/8" - 5/8" Walls

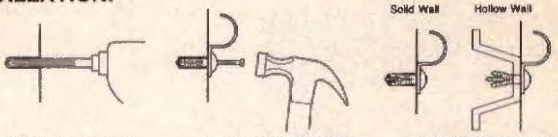
NAED/DCI No. Cat. No.	Size/Description	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84070	For #6, #8, or #10 x 1-1/2" or longer screws	5/16"	100	1000 (10 Boxes of 100)

Nylon Hollow Wall Anchor Kits for 1/8" - 5/8" Walls

NAED/ DCI No. Cat. No.	Anchor Size	Screw Size	Bit Size	Qty. Per Carton Anchors	Qty. Per Carton Screws	Qty. Per Carton Bit	Kits Per Master Carton
84073	For #6, #8 and #10	#6 x 1-1/2"	5/16"	50	50	1	10

Nylon Mushroom Head Drive Anchor

INSTALLATION:



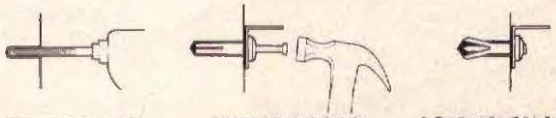
1. Drill 1/4" diameter hole. In material, minimum depth of the hole should equal the overall length minus the thickness of the material to be fastened. Clean hole.
2. Insert anchor body through object to be fastened, and into the hole in base material.
3. Tap the drive screw until it is flush with nylon anchor head.

ORDERING INFORMATION: Nylon Mushroom Head Anchors

NAED/DCI No. Cat. No.	Size	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84096	1/4" x 1"	1/4"	100	1000 (10 Boxes of 100)
84099	1/4" x 1-1/2"	1/4"	100	1000 (10 Boxes of 100)
84102	1/4" x 2"	1/4"	100	1000 (10 Boxes of 100)
84105	1/4" x 3"	1/4"	100	1000 (10 Boxes of 100)

Zinc Hammer Drive Mushroom Head Anchors

INSTALLATION:



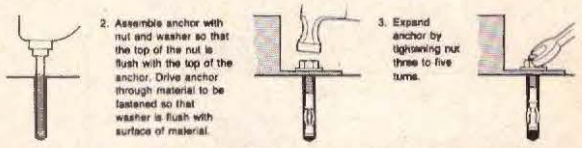
1. Drill required diameter hole. In material, minimum depth of the hole should equal the overall length minus the thickness of the material to be fastened. Clean hole.
2. Insert anchor body through object to be fastened, and into the hole in base material.
3. Tap the nail until it is flush with the zinc anchor head.

ORDERING INFORMATION: Zinc Hammer Drive Mushroom Head Anchors

NAED/DCI No. Cat. No.	Size	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84108	3/16" x 7/8"	3/16"	100	3600 (36 Boxes of 100)
84109	1/4" x 3/4"	1/4"	100	3000 (30 Boxes of 100)
84110	1/4" x 1"	1/4"	100	2000 (20 Boxes of 100)
84111	1/4" x 1-1/4"	1/4"	100	2000 (20 Boxes of 100)
84112	1/4" x 1-1/2"	1/4"	100	1500 (15 Boxes of 100)
84113	1/4" x 2"	1/4"	100	1200 (12 Boxes of 100)

Wedge Anchors

INSTALLATION:



1. Drill hole the same diameter as the anchor deeper than minimum embedment.
2. Assemble anchor with nut and washer so that the top of the nut is flush with the top of the anchor. Drive anchor through material to be fastened so that washer is flush with surface of material.
3. Expand anchor by tightening nut three to five turns.

ORDERING INFORMATION: Wedge Anchors include Nuts & Washers

NAED/ DCI No. Cat. No.	Anchor and Hole Dia.	Overall Length	Min. Embedment in Concrete	Max. Thickness of Mat. to be Fastened	Thread Length	Qty. Per Box	Qty. Per Master Carton
84133	1/4"	1-3/4"	1-3/8"	1/4"	3/4"	100	500
84136	1/4"	2-1/4"	1-3/8"	3/4"	3/4"	100	500
84139	1/4"	3"	1-3/8"	1-1/2"	3/4"	100	500
84142	3/8"	2-3/4"	1-3/4"	3/4"	1-1/8"	50	200
84145	3/8"	3-3/4"	1-3/4"	1-3/4"	1-1/8"	50	200
84148	1/2"	3-3/4"	2-1/8"	1-1/4"	1-1/4"	25	200

APPROVALS:
See International Conference of Building Officials (ICBO) Report #4056 for allowable tension and shear values.

Conforms to the description in Federal Specification FF-S-325, Group 11, Type 4, Class 1, for concrete expansion anchors.

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 84003

Sleeve Anchors

INSTALLATION:

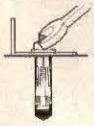
1. Drill hole same diameter as anchor to any depth exceeding minimum embedment. Outside diameter of anchor is larger than actual bolt diameter.



2. Insert assembled anchor into hole, until washer is flush with materials to be fastened.



3. Expand anchor by tightening nut two to three turns.



ORDERING INFORMATION: Sleeve Anchors include Nuts & Washers

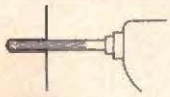
Cat. No.	Anchor and Hole Dia.	Bolt Thread Dia.	Anchor Length	Nut Style	Min. Hole Depth	Max. Thkns. of Mat. to be Fastened	Qty. Per Box	Qty. Per Master Carton
84203	1/4"	3/16"	1-3/8"	Acron	1"	3/8"	100	1000
84206	5/16"	1/4"	1-1/2"	Hex	1"	1/2"	100	1000
84209	3/8"	5/16"	1-7/8"	Hex	1-1/4"	5/8"	50	500
84212	3/8"	5/16"	3"	Hex	1-1/4"	1-3/4"	50	500

APPROVALS:
See International Conference of Building Officials (ICBO) Report #4056 for allowable tension and shear values.

Conforms to the description in Federal Specification FF-S-325, Group 11, Type 4, Class 1, for concrete expansion anchors.

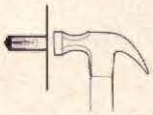
Drop Anchors

INSTALLATION:

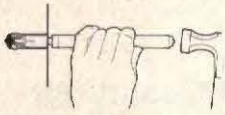


To set anchor flush with surface

1. Drill hole the same diameter as anchor being used.



2. Drive anchor flush with surface of concrete.



3. Expand anchor with setting tool provided. Anchor is properly expanded when shoulder of setting tool is flush with top of anchor.

To set anchor below surface 1. Drill hole deeper than anchor length. Thread bolt into anchor. Hammer anchor into hole until bolt head is at desired height. Remove bolt and set anchor with setting tool.

NOTE: The use of a 24 to 40 ounce hammer is recommended for expanding the anchor.

ORDERING INFORMATION: Drop Anchors and Setting Tools

NAED/ DCI No. Cat. No.	Anchor and Hole Dia.	Bolt Thread Size	Min. Depth	Thread Depth	Setting Tool*	Qty. Per Box	Qty. Per Master Carton
84253	3/8"	1/4" x 20	1-1/4"	1/2"	84273	100	1000
84256	1/2"	3/8" x 16	1-5/8"	5/8"	84276	100	1000

*1 Setting Tool included with each box of 100 anchors.

APPROVALS:
See International Conference of Building Officials (ICBO) Report #4056 for allowable tension and shear values.

Conforms to the description in Federal Specification FF-S-325, Group VIII, Type 1, for concrete expansion shield anchors.

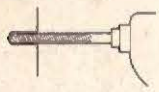
Drop Anchor Setting Tools

NAED/DCI No. Cat. No.	Thread Size	Use With Anchor	Qty. Per Box	Qty. Per Master Carton
84273	1/4" x 20	84253	1	10 (10 Boxes of 1)
84276	3/8" x 20	84256	1	10 (10 Boxes of 1)

Caulking Anchors

INSTALLATION:

1. Drill hole in masonry.



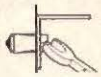
2. Insert anchor, conical end first, until flush with surface.



3. Using setting tool, caulk lead outer sleeve with sharp hammer blows. Position fixture.



4. Insert screw or bolt and tighten.



ORDERING INFORMATION:
Lead Caulking Anchors and Setting Tools

NAED/ DCI No. Cat. No.	Thread Size	Req. Hole Dia.	Req. Hole Min. Depth	Set Tool*	Qty. Per Box	Qty./ Master Carton
84293	8-32	5/16"	1/2"	84323	100	500 (5 Bxs. of 100)
84296	10-24	3/8"	5/8"	84326	100	500 (5 Bxs. of 100)
84299	1/4"-20	1/2"	7/8"	84329	100	500 (5 Bxs. of 100)
84302	5/16"-18	5/8"	1"	84332	100	500 (5 Bxs. of 100)
84305	3/8"-16	3/4"	1-1/4"	84335	50	200 (4 Bxs. of 50)
84308	1/2"-13	7/8"	1-1/2"	84338	50	200 (4 Boxes of 50)

*1 Setting Tool included with each box of anchors.

Caulking Anchor Setting Tools

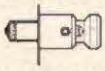
NAED/DCI No. Cat. No.	Thread Size	Use With Anchor No.	Qty. Per Box	Qty. Per Master Carton
84323	8-32	84293	1	10 (10 Boxes of 1)
84326	10-24	84296	1	10 (10 Boxes of 1)
84329	1/4"-20	84299	1	10 (10 Boxes of 1)
84332	5/16"-18	84302	1	10 (10 Boxes of 1)
84335	3/8"-16	84305	1	10 (10 Boxes of 1)
84338	1/2"-13	84308	1	10 (10 Boxes of 1)

Caulking Anchor Hollow Wall Setting Tools

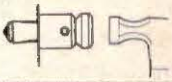


Screw Anchor Expanders — Quickly, securely set expansive screw anchor in masonry, regardless of thickness, with these handy tools. Simply screw the anchor into the expander, insert into drilled hole and strike expander head with a hammer. Hardened alloy steel.

1. Drill hole of required size and put anchor screw on expander. Insert screw anchor into drilled hole.



2. Strike head of expander with hammer or mallet until anchor is held securely in wall. Unscrew expander.



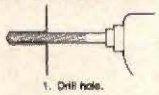
Cat. No.	NAED/DCI No.	Expansive Bolt Size	Use with Anchor No.	Qty. Per Box
866	02150	10-24	84296	1
868	02170	1/4"-20	84299	1
870	02190	3/8"-16	84305	1

Lag Screw Expansion Shields

INSTALLATION:

Joints install the anchor to expand against the brick or block.

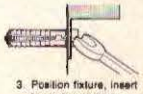
1. Drill hole.



2. Insert anchor until flush with surface.



3. Position fixture, insert lag bolt and tighten.



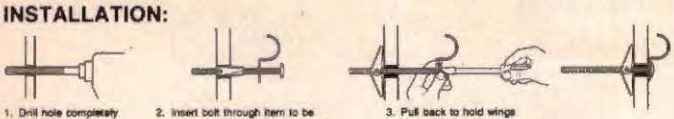
ORDERING INFORMATION: Lag Screw Expansion Anchors (Anchors only - lag screws not included)

NAEO/ DCI No. Cat. No.	Size	Req. Hole Dia.	Req. Hole Min. Depth	Qty. Per Box	Qty. Per Master Carton
	Short	**Short**			
84353	1/4"	1/2"	1"	100	500 (5 Boxes of 100)
84356	5/16"	1/2"	1-1/4"	100	500 (5 Boxes of 100)
84359	3/8"	5/8"	1-3/4"	50	200 (4 Boxes of 50)
84362	1/2"	3/4"	2"	25	100 (4 Boxes of 25)
	Long	**Long**			
84371	1/4"	1/2"	1-1/2"	50	200 (4 Boxes of 50)
84374	5/16"	1/2"	1-13/16"	50	200 (4 Boxes of 50)
84377	3/8"	5/8"	2-1/2"	50	200 (4 Boxes of 50)
84380	1/2"	3/4"	3"	25	100 (4 Boxes of 25)

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 84253

Toggle Bolts and Spring Wings

INSTALLATION:



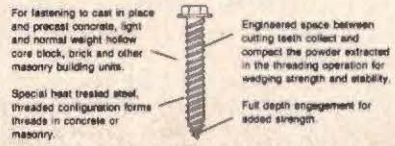
1. Drill hole completely through wall.
2. Insert bolt through item to be fastened. Fold wings completely back, then push through hole until wings spring open.
3. Pull back to hold wings against inside wall while tightening with screw driver.

NAED/ DCI No. Cat. No.	Size	Description	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84393	1/8" x 3"	Round Head Toggle Bolt	3/8"	100	500 (5 Boxes of 100)
84394	1/8" x 4"	Round Head Toggle Bolt	3/8"	100	500 (5 Boxes of 100)
84403	3/16" x 6"	Round Head Toggle Bolt	1/2"	50	200 (4 Boxes of 50)
84405	1/4" x 4"	Round Head Toggle Bolt	11/16"	50	200 (4 Boxes of 50)
84406	1/4" x 6"	Round Head Toggle Bolt	11/16"	50	200 (4 Boxes of 50)
84409	3/8" x 4"	Round Head Toggle Bolt	1"	25	100 (4 Boxes of 25)
84411	3/8" x 6"	Round Head Toggle Bolt	1"	25	100 (4 Boxes of 25)
84421	1/8" x 3"	Mushroom Head Toggle Bolt	3/8"	100	500 (5 Boxes of 100)
84422	1/8" x 4"	Mushroom Head Toggle Bolt	3/8"	100	500 (5 Boxes of 100)
84424	3/16" x 3"	Mushroom Head Toggle Bolt	1/2"	50	200 (4 Boxes of 50)
84425	3/16" x 4"	Mushroom Head Toggle Bolt	1/2"	50	200 (4 Boxes of 50)
84427	3/16" x 6"	Mushroom Head Toggle Bolt	1/2"	50	200 (4 Boxes of 50)
84428	1/4" x 3"	Mushroom Head Toggle Bolt	11/16"	50	200 (4 Boxes of 50)
84429	1/4" x 4"	Mushroom Head Toggle Bolt	11/16"	50	200 (4 Boxes of 50)

Spring Wing Toggle Head

NAED/ DCI No. Cat. No.	Size	Description	Req. Hole Size	Qty. Per Box	Qty. Per Master Carton
84446	1/8"-32	Spring Wing Toggle Head	3/8"	100	500 (5 Boxes of 100)
84447	3/16"-24	Spring Wing Toggle Head	1/2"	100	500 (5 Boxes of 100)
84448	1/4"-20	Spring Wing Toggle Head	11/16"	50	200 (4 Boxes of 50)
84450	3/8"-16	Spring Wing Toggle Head	1"	25	100 (4 Boxes of 25)

Masonry Screw Anchors



INSTALLATION:

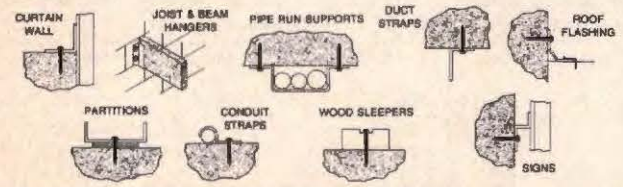
Small jobs - Use special Greenlee masonry screw drill bit for holes. Screw can be installed with 5/16" wrench, nut driver, or socket with ratchet.

Large jobs - Use the special Greenlee masonry screw drill set tool in kit with 3/8" or larger electric drill for drilling holes and screw installation.



1. Use set tool with bit in drilling position to drill hole in surface.
2. Retract bit, insert masonry screw into socket head of tool and drive screw into hole.

TYPICAL USES:



Masonry Screw Anchors and Installation Tools

Masonry screw anchors must be used with Greenlee masonry screw drill bits, nos. 84484 and 84487, which are a special size to insure secure thread engagement. Standard masonry bit size holes will not provide proper contact with screw threads and may cause masonry anchor screws to pull out!

Masonry Screw Anchors (continued)

NAED/ DCI No. Cat. No.	Description	Material Concrete 3000 PSI Min. Embedment	Material Concrete 3000 PSI Pullout Lbs.	Qty. Per Box	Qty. Per Master Carton
84463	Masonry Screw Drill Set Kit Includes: 50 - 84469 Masonry Screws 1/4" x 1". 50 - 84472 Masonry Screws 1/4" x 1-1/4". 1 - 84466 Masonry Screw Drill Set Tool with 84484 Bit.	3/4"	1180	1	5 (5 Bxs. of 1)
84466	Masonry Screw Drill Set Tool with 84484 Bit			1	6 (6 Clam Shells of 1)
84469	1/4" x 1" Masonry Screw Anchors*	3/4"	1180	100	1000 (10 Boxes of 100)
84472	1/4" x 1-1/4" Masonry Screw Anchors*	3/4"	1180	100	1000 (10 Boxes of 100)
84475	1/4" x 1-1/2" Masonry Screw Anchors*	1-1/4"	1800	100	500 (5 Boxes of 100)
84478	1/4" x 2" Masonry Screw Anchors*	1-1/4"	1800	100	500 (5 Boxes of 100)
84481	1/4" x 2-1/2" Masonry Screw Anchors*	1-1/4"	1800	100	500 (5 Boxes of 100)
84484	3-1/2" Masonry Screw Drill Bit - for use with 1" to 1-1/2" long screws			1	12 (12 Clam Shells of 1)
84487	4-1/2" Masonry Screw Drill Bit - for use with 2" and 2-1/2" long screws			1	12 (12 Clam Shells of 1)

NOTE: For lightweight, hollow core concrete block, minimum embedment 1-3/8", pullout 715 lbs. Due to the variance in make-up of cement block, values will vary. It is suggested that the anchor be tested in specific material being used before installing fixtures.

*1 Masonry Screw Drill Bit included in each box for 100 Screws.

Masonry Bits



ORDERING INFORMATION: Carbide Tipped Percussion Masonry Bit — 2-1/2" Twist, 4" Overall Length. 3/16" has 3/16" Dia. Shank. All other sizes 1/4" Dia. Shank.

NAED/ DCI No. Cat. No.	Size	Description	Qty. Per Pouch	Qty. Per Std. Pkg.
84570		4 PIECE BIT SET in pouch includes 1 ea.: 3/16", 1/4", 5/16", 3/8"	1	1
84576	3/16"	Percussion Masonry Bit	1	6
84582	1/4"	Percussion Masonry Bit	1	6
84588	5/16"	Percussion Masonry Bit	1	6
84594	3/8"	Percussion Masonry Bit	1	6
84600	1/2"	Percussion Masonry Bit	1	6

ORDERING INFORMATION: Carbide Tipped Fast Spiral Masonry Bits — 2-1/2" Twist, 4" Overall Length. 3/16" has 3/16" Dia. Shank. All other sizes have 1/4" Dia. Shank.

NAED/ DCI No. Cat. No.	Size	Description	Qty. Per Pouch	Qty. Per Std. Pkg.
84520		4 PIECE BIT SET in pouch includes 1 ea.: 3/16", 1/4", 5/16", 3/8"	1	1
84526	3/16"	Masonry Bit	1	6
84532	1/4"	Masonry Bit	1	6
84538	5/16"	Masonry Bit	1	6
84544	3/8"	Masonry Bit	1	6
84550	1/2"	Masonry Bit	1	6

To order by NAED/DCI Number enter 783310 and Catalog No. — Example 783310 84463

	Size Range	Length Twist	Length Overall		Page
Zip Bits 33A	1/4" - 1-1/2"	—	6-1/4"	For rough holes in wood. Bore straight or at angles.	84
33L	1/4" - 1-1/2"	—	16"		
Nail Eater® Bits 61PTS	5/8" - 1-1/4"	5"	7-3/4"	For rough, fast holes in wood. Cuts through nails. Screw point for self-feed.	82
62PTS	5/8" - 1-1/4"	5"	7-3/4"		
66PT	3/8" - 1-1/2"	15"	18"		
Unispur Bits 18	5/8" - 1-1/4"	5-1/2"	8-1/2"	Self-feeding screw point with outlining spur for smooth fast holes in wood.	83
45	5/8" - 1-1/2"	3"	6"		
E-Z Bore™ Bits 149G	1-1/8" - 4-5/8"	—	6-1/4"	Self-feeding screw point with multiple outlining spurs for smooth, easy and fast, large diameter holes in wood and plywood.	83
Bellhanger Bits 48PT	3/16" - 1/2"	3-3/4"	12"	Long bits used for telephone security systems and other wiring installations. For drilling wood and drywall. 3/32" hole about 1-1/2" from point for pulling wire.	84
	3/16" - 3/4"	3-3/4"	18"		
	3/16" - 1/2"	3-3/4"	24"		
Brace Bits - Ship Auger 64	1/4" - 1"	12"	18"	For use in hand brace only. Self-feeding screw point for easy boring in wood.	84
Impact Wrench Bits 159W	11/16"	12"	16"	Self-feeding screw point and single spur for easy smooth pole boring with hex impact driver shank.	83
	13/16"	18"	22"		
	15/16"				
Multi-Spur Machine Bits 149	1/2" - 4"	—	—	For extremely smooth, splinter-free, large diameter holes in wood, veneer plywood and chip board. Brad point for use with drill press or boring machine.	85
Metal Bit 736	1/2"	—	—	For fast drilling of pilot holes in metal. Use with Greenlee punches and dies.	85
Masonry Bits	3/16" - 1/2"	2-1/2"	4"	Carbide tipped for fast, easy drilling in blocks, brick, mortar or concrete.	85
Bit Extensions	1/4"-1/2"	—	12" 18" 24"	For added reach on power bits.	82

Screw Points

Draw the bit through the wood.

Spurs

Outlining spurs cut the outline of the hole before the edge lifts the chips out, providing a smoother splinter-free hole.

Short Bits

In a right angle power drill, will fit between 16" centers to bore joist.

Long Bits

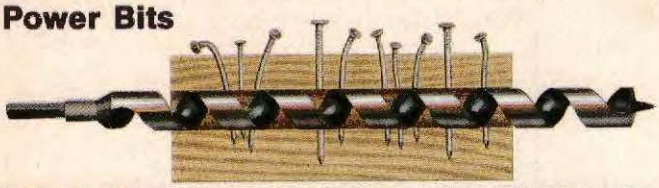
Give additional reach for overhead boring and excellent chip removal for deep boring.

BITS

66PT

NAIL EATER™

Power Bits







- Made of super tough heat treated steel to cut through nails and provide long tool life on the job.
- Self-feeding single twist for easy chip removal and fast boring.
- Overall length 18″, twist length 15″.

For easier, faster ordering use the NAED/DCI number.

Cat. No.—Hole Diameter	NAED/DCI No. 78-3310-	Shank Size
66PT—3/8″	16142	5/16″ Hex
66PT—1/2″	16144	5/16″ Hex
66PT—9/16″	16146	5/16″ Hex
66PT—5/8″	16148	7/16″ Hex
66PT—11/16″	16150	7/16″ Hex
66PT—3/4″	16152	7/16″ Hex
66PT—13/16″	16154	7/16″ Hex
66PT—7/8″	16156	7/16″ Hex
66PT—15/16″	16158	7/16″ Hex
66PT—1″	16160	7/16″ Hex
66PT—1-1/16″	16162	7/16″ Hex
66PT—1-1/8″	16164	7/16″ Hex
66PT—1-1/4″	16166	7/16″ Hex
66PT—1-3/8″	16168	7/16″ Hex
66PT—1-1/2″	16170	7/16″ Hex

901, 902, 904 Bit Extensions



For easier, faster ordering use the NAED/DCI number.

Cat. No.—Length	NAED/DCI No. 78-3310-	Hex Shank Size	Hole Dia.	Head Dia.	Set Screw	Allen Wrench No.
901—12″	17205	1/4″	1/4″	5/8″	3713GB	51376
902—18″	17215	5/16″	23/64″	21/32″	3678GB	51376
902—24″	17225	5/16″	23/64″	21/32″	3678GB	51376
904—18″	17235	7/16″	1/2″	1-1/16″	3693GB	52144
904—24″	17245	7/16″	1/2″	1-1/16″	3693GB	52144

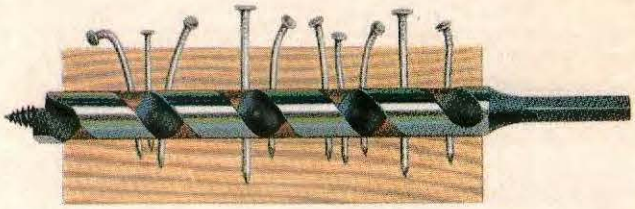
Bit Extension / Bit Guide

Cat. No.—Length	Bit Number
901-12″	#33A, 5/16″ thru 1-1/2″
902-18″ and 902-24″	#18, 5/8″ - 1″; #45, 5/8″ - 13/16″; #61PTS, 5/8″ - 1″; #66PT, 3/8″ - 9/16″
904-18″ and 904-24″	#18, 1-1/8″ - 1-1/4″; #45, 7/8″ - 1-1/2″; 61/62PTS, 1-1/8″ - 1-1/4″; #62PTS, 5/8″ - 1″; #66PT, 5/8″ - 1-1/2″; #149G, 1-1/8″ - 2-9/16″

Shorty

NAIL EATER™

Power Bits





For More Boring Power in Tight Places

- Made of super tough heat treated steel to cut through nails and provide long tool life on the job.
- Self-feeding single twist for easy chip removal and fast boring.
- 7-3/4″ long with 5″ twist for working in tight places, yet will bore through 3 - 2″ x 4″s.
- Overall length 7-3/4″, twist length 5″.

For easier, faster ordering use the NAED/DCI number.

Cat. No.—Hole Dia.	NAED/DCI No. 78-3310-	Shank Size	Electric Drill Size Required	*Bit Ext. Catalog Number
61PTS—5/8″	15750	5/16″ Hex	3/8″	902—18″ or 24″
61PTS—11/16″	15755	5/16″ Hex	3/8″	902—18″ or 24″
61PTS—3/4″	15760	5/16″ Hex	3/8″	902—18″ or 24″
61PTS—13/16″	15765	5/16″ Hex	3/8″	902—18″ or 24″
61PTS—7/8″	15770	5/16″ Hex	3/8″	902—18″ or 24″
61PTS—1″	15775	5/16″ Hex	3/8″	902—18″ or 24″
61/62PTS—1-1/8″	15780	7/16″ Hex	1/2″	904—18″ or 24″
61/62PTS—1-1/4″	15785	7/16″ Hex	1/2″	904—18″ or 24″

NOTE: 5/8″ thru 1″ have set screw indents for securing bit extension on shank.

Big Shank Shorty Naileater

Cat. No.—Hole Dia.	NAED/DCI 78-3310-	Shank Size	Electric Drill Size Required	*Bit Ext. Catalog Number
62PTS—5/8″	15752	7/16″ Hex	1/2″	904—18″ or 24″
62PTS—11/16″	15757	7/16″ Hex	1/2″	904—18″ or 24″
62PTS—3/4″	15762	7/16″ Hex	1/2″	904—18″ or 24″
62PTS—13/16″	15767	7/16″ Hex	1/2″	904—18″ or 24″
62PTS—7/8″	15772	7/16″ Hex	1/2″	904—18″ or 24″
62PTS—1″	15777	7/16″ Hex	1/2″	904—18″ or 24″
61/62PTS—1-1/8″	15780	7/16″ Hex	1/2″	904—18″ or 24″
61/62PTS—1-1/4″	15785	7/16″ Hex	1/2″	904—18″ or 24″

***Use these bit extensions when greater reach is required.**

Due to protective coating, chips may collect in twist for the first few holes bored.

For easier, faster ordering use the NAED/DCI number.

45 Short Unispur

- Single spur, double-twist, smooth-boring bit for electricians, plumbers and pipe fitters.
- Fast feed screw point.
- For boring in tight spots between rafters and joists.
- Overall length 6″, twist length 3″ and heat treated shank 1-1/4″ long with indents for securing bit extension.



For easier, faster ordering use the NAED/DCI number.

Cat. No.—Size/Dia.	NAED/DCI No. 78-3310-	Hex Shank Size
45—5/8″	14705	5/16″
45—11/16″	14710	5/16″
45—3/4″	14715	5/16″
45—13/16″	14720	5/16″
45—7/8″	14725	7/16″
45—1″	14730	7/16″
45—1-1/8″	14735	7/16″
45—1-1/4″	14740	7/16″
45—1-3/8″	14745	7/16″
45—1-1/2″	14750	7/16″

18 Unispur Electricians Power Bits

- Single spur, double-twist, smooth-boring bit for electricians, plumbers and pipe fitters.
- Fast feed screw point.
- Overall length 8-1/2″, twist length 5-1/2″ and heat treated shank 1-1/4″ long with indents for securing bit extension.



For easier, faster ordering use the NAED/DCI number.

Catalog No.—Size/Dia.	NAED/DCI No. 78-3310-	Hex Shank Size
18—5/8″	14105	5/16″
18—11/16″	14110	5/16″
18—3/4″	14115	5/16″
18—13/16″	14120	5/16″
18—7/8″	14125	5/16″
18—1″	14130	5/16″
18—1-1/8″	14135	7/16″
18—1-1/4″	14140	7/16″

159W Single-Spur Impact Wrench Bits



- Bore holes in telephone or power line poles quickly, easily, *and safely* using impact wrench equipped with Greenlee 159W bit.
- Two sizes fit *all* impact wrenches with standard 7/16″ or 5/8″ hex adapters.
- Reduce tool requirements, get jobs done faster, more economically.



For easier, faster ordering use the NAED/DCI number.

Cat. No.—Size/Dia. Twist Length	NAED/DCI No. 78-3310-	Overall Length	Impact Wrench Hex Shank Size
159W7—11/16″ x 12″	16540	16″	7/16″
159W7—13/16″ x 12″	16545	16″	7/16″
159W7—15/16″ x 12″	16550	16″	7/16″
159W7—11/16″ x 18″	16565	22″	7/16″
159W7—13/16″ x 18″	16570	22″	7/16″
159W7—15/16″ x 18″	16575	22″	7/16″
159W10—11/16″ x 12″	16650	16″	5/8″
159W10—13/16″ x 12″	16655	16″	5/8″
159W10—11/16″ x 18″	16675	22″	5/8″
159W10—13/16″ x 18″	16680	22″	5/8″

149G E-Z Bore™



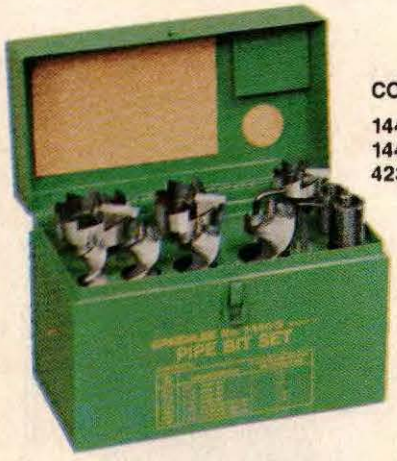


- Self-feeding screw point makes E-Z BORE™ bits fast and easy to use.
- Sizes 1-3/4″ through 4-5/8″ feature **replaceable** double-end screw points.
- Three milled flats on 1/2″ diameter shank permits use in portable electric or pneumatic drills and stationary boring machines.
- Bits can be used with 904 Bit Extension or with 1440C Coupling Adapter and 1440E Drill Adapter.

For easier, faster ordering use the NAED/DCI number.

Cat. No.—Size/Dia.	NAED/DCI No. 78-3310-	Overall Length	Pipe & Conduit Size	Screw Pt. No.	Shank No.	1440G Set
149G—1-1/8″	35020	5″	1/2″	—	—	—
149G—1-1/4″	35010	5″	3/4″	—	—	—
149G—1-3/8″	35030	5″	—	—	—	—
149G—1-1/2″	35000	5″	1″	—	—	—
149G—1-3/4″	17100	5″	1-1/4″	4236AV	—	Yes
149G—2-1/8″	35050	5″	1-1/2″	4236AV	—	Yes
149G—2-1/4″	35040	5″	—	4236AV	—	—
149G—2-9/16″	35080	5″	2″	4236AV	—	Yes
149G—3-5/8″	35060	6-1/4″	3″	18358	18405	—
149G—4-5/8″	35070	6-1/4″	4″	18358	18405	—

1440G Pipe Bit Set



CONTENTS:

1440C	Coupling Adapter
1440E	Drill Adapter
4236AV	Screw Point
	1/8″ Allen Wrench
	3/16″ Allen Wrench

Cat. No.	NAED/DCI No. 78-3310-	Size/Description		For Standard Pipe or Conduit Dia.
45—7/8″	14725	7/8″	Auger Bit	3/8″
45—1-1/8″	14735	1-1/8″	Auger Bit	1/2″
45—1-1/4″	14740	1-1/4″	Auger Bit	3/4″
45—1-1/2″	14750	1-1/2″	Auger Bit	1″
149G	17100	1-3/4″	E-Z BORE™ Spur Bit	1-1/4″
149G	35050	2-1/8″	E-Z BORE ™Spur Bit	1-1/2″
149G	35080	2-9/16″	E-Z BORE™ Spur Bit	2″

For easier, faster ordering use the NAED/DCI number.

BITS

33A Zip Bits

- Bores hardwood, softwood, plywood and drywall.
- Forged and heat treated for long life.
- For use in 1/4" or larger power drill.
- 6-1/4" long with hole for wire pulling.

For easier, faster ordering use the NAED/DCI number.

Catalog No.—Size/Dia.	NAED/DCI No. 78-3310-
33A—1/4"	14625
33A—5/16"	14626
33A—3/8"	14627
33A—7/16"	14628
33A—1/2"	14629
33A—9/16"	14630
33A—5/8"	14631
33A—11/16"	14632
33A—3/4"	14633
33A—13/16"	14634
33A—7/8"	14635
33A—15/16"	14636
33A—1"	14637
33A—1-1/8"	14639
33A—1-1/4"	14641
33A—1-3/8"	14643
33A—1-1/2"	14645





33AR-6 Zip Bit Set

- Set of six Zip Bits, one each 3/8", 1/2", 5/8", 3/4", 7/8" and 1" in durable plastic roll.

Cat. No.	NAED/DCI No.
33AR-6	78-3310-14660

33L 16" Long Zip Bits

- Bores hardwood, softwood, plywood and drywall.
- 16" long for deep drilling without extension.
- Forged and heat treated for long life.
- Hole provided for use in wire pulling.
- For use in 1/4" or larger power drills.



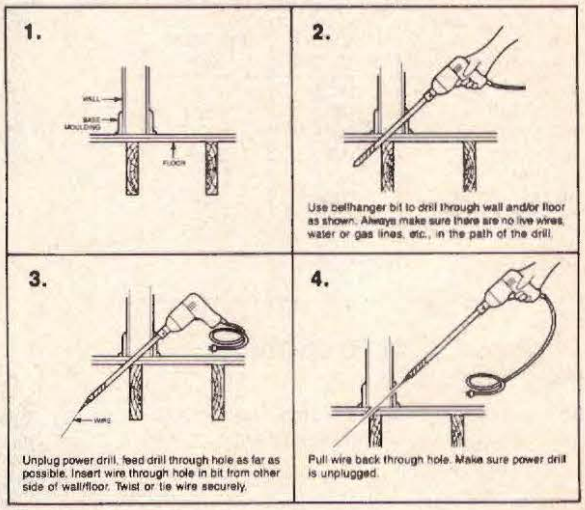


Cat. No. —Size/Dia.	NAED/DCI No. 78-3310-
33L—1/4"	14653
33L—5/16"	14658
33L—3/8"	14663
33L—7/16"	14666
33L—1/2"	14670
33L—9/16"	14673
33L—5/8"	14676
33L—11/16"	14680
33L—3/4"	14683
33L—7/8"	14686
33L—1"	14690
33L—1-1/8"	14693
33L—1-1/4"	14696
33L—1-1/2"	14700

48PT Power Bellhanger Drills

- Use for telephone, security systems and other wiring installations.
- High-grade alloy steel resists damage if metal is encountered during drilling.
- 3/32" hole about 1-1/2" from point for convenience in pulling wire (except in size 3/16")

Easy To Use



Twist Length 3-3/4"

Cat. No.—Size/Dia.	Overall Length	NAED/DCI No. 78-3310-	Shank
48PT—3/16" x	12"	14935	11/64"
48PT—1/4" x	12"	14940	15/64"
48PT—5/16" x	12"	14945	17/64"
48PT—3/8" x	12"	14950	17/64"
48PT—1/2" x	12"	14960	21/64"
48PT—3/16" x	18"	14965	11/64"
48PT—1/4" x	18"	14970	15/64"
48PT—5/16" x	18"	14975	17/64"
48PT—3/8" x	18"	14980	17/64"
48PT—1/2" x	18"	20275	21/64"
48PT—9/16" x	18"	14995	21/64"
48PT—5/8" x	18"	15000	3/8"
48PT—3/4" x	18"	15010	3/8"
48PT—3/16" x	24"	15015	11/64"
48PT—1/4" x	24"	15020	15/64"
48PT—5/16" x	24"	15025	17/64"
48PT—3/8" x	24"	15030	17/64"
48PT—1/2" x	24"	15040	21/64"

64 Ship Auger Car Bits

- Used by electricians, plumbers, pipe fitters, shipbuilders, and construction workers.
- Highly recommended for strength, rigidity, easy cutting and free clearance.
- Single twist, single-cutter head, and side lip, no outlining spurs.
- For use in hand brace only.
- Overall length 18", twist length 12", brace shank.

Cat. No.—Size/Dia.	NAED/DCI No. 78-3310-
64—1/4"	15805
64—5/16"	15810
64—3/8"	15815
64—7/16"	15820
64—1/2"	15825
64—9/16"	15830
64—5/8"	15835
64—11/16"	15840
64—3/4"	15845
64—13/16"	15850
64—7/8"	15855
64—15/16"	15860
64—1"	15865

For easier, faster ordering use the NAED/DCI number.

BITS

149 Multi-Spur™ Machine Bits



- Cutting edge is precision ground at the best angle to bore fast and lift chips clearly up and out of the hole.
- Multiple outlining spurs bore clean holes without chipping or splintering the surface of the wood.
- Perfect for boring through veneers.
- Works equally well across or with the grain.
- Excellent for boring overlapping holes or on close centers.

For easier, faster ordering use the NAED/DCI number.

1/2" Shank

Cat. No.—Size	NAED/DCI No. 78-3310-	Cat. No.—Size	NAED/DCI No. 78-3310-
149—1/2"	03280	149—1-11/16"	03490
149—9/16"	03290	149—1-3/4"	03500
149—5/8"	03300	149—1-13/16"	03510
149—11/16"	03310	149—1-7/8"	03520
149—3/4"	34025	149—1-15/16"	03530
149—13/16"	03330	149—2"	03540
149—7/8"	34035	149—2-1/8"	03550
149—15/16"	03360	149—2-1/4"	03570
149—1"	03370	149—2-3/8"	03580
149—1-1/16"	03380	149—2-1/2"	03590
149—1-1/8"	03390	149—2-5/8"	03600
149—1-3/16"	03410	149—2-3/4"	03620
149—1-1/4"	03420	149—2-7/8"	03630
149—1-5/16"	03430	149—3"	03640
149—1-3/8"	03440	149H—3-1/8"*	04041
149—1-7/16"	03450	149H—3-1/4"*	04042
149—1-1/2"	03460	149H—3-1/2"*	04044
149—1-9/16"	03470	149H—3-3/4"	04046
149—1-5/8"	03480	149H—4"	04048

***NOTE:** 3-1/8", 3-1/4", 3-1/2", 3-3/4", 4" bits are available with 1/2" shanks for light duty applications that do not overstress the shank. 1/2" shanks in these larger diameter bits are not recommended for medium or heavy duty applications.

Bits 2-1/4 thru 3" are furnished with 2-1/4" long reinforced shaft and 1/2" x 2-3/4" shank.

3/4" Shank

Cat. No.—Size	NAED/DCI No. 78-3310-
149—3-1/8"	03650
149—3-1/4"	03660
149—3-1/2"	03670
149—3-3/4"	03680
149—4"	03690

Metal Bit

736 Unibit® Step Drill for pilot holes in metal





- Cuts up to 1/2" pilot holes fast.
- Eliminates need to center punch.
- Heat treated high speed steel.

Cat. No.	NAED/DCI No. 78-3310-	Description
736	01275	1/2" Step Drill

Masonry Bits

Carbide Tipped Percussion Masonry Bits



Masonry Bits — 2-1/2" Twist, 4" Overall Length, 3/16" has 3/16" Dia. Shank. All other sizes have 1/4" Dia. Shank.

NAED/DCI No. Cat. No.	Size	Description
84570		4 PIECE BIT SET in pouch includes 1 ea: 3/16", 1/4", 5/16", 3/8"
84576	3/16"	Percussion Masonry Bit
84582	1/4"	Percussion Masonry Bit
84588	5/16"	Percussion Masonry Bit
84594	3/8"	Percussion Masonry Bit
84600	1/2"	Percussion Masonry Bit

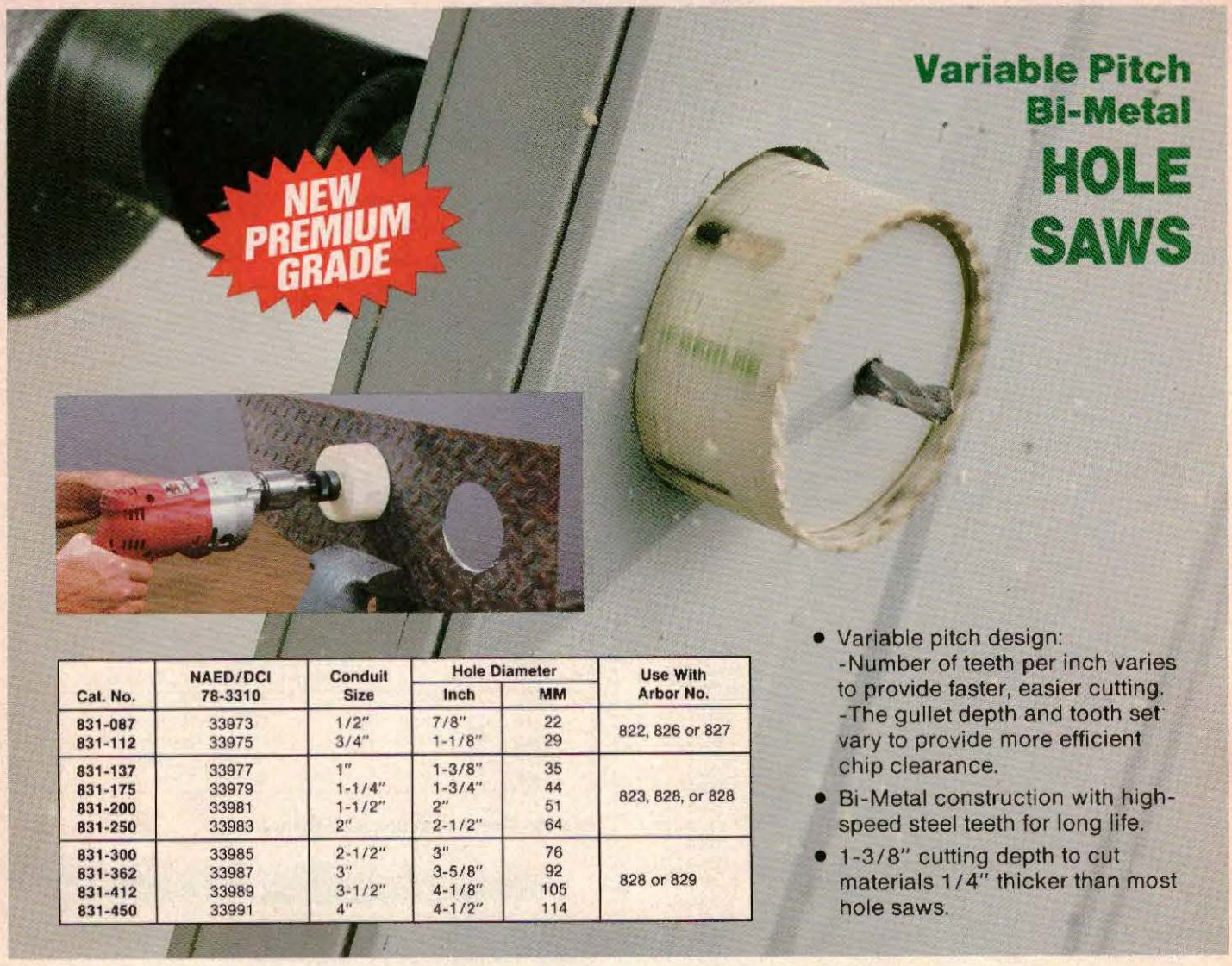
Carbide Tipped Fast Spiral Masonry Bits



Masonry Bits — 2-1/2" Twist, 4" Overall Length. 3/16" has 3/16" Dia. Shank. All other sizes 1/4" Dia. Shank.

NAED/DCI No. Cat. No.	Size	Description
84520		4 PIECE BIT SET in pouch includes 1 ea: 3/16", 1/4", 5/16", 3/8"
84526	3/16"	Masonry Bit
84532	1/4"	Masonry Bit
84538	5/16"	Masonry Bit
84544	3/8"	Masonry Bit
84550	1/2"	Masonry Bit

For easier, faster ordering use the NAED/DCI number.



Variable Pitch Bi-Metal HOLE SAWS

Cat. No.	NAED/DCI 78-3310	Conduit Size	Hole Diameter		Use With Arbor No.
			Inch	MM	
831-087	33973	1/2"	7/8"	22	822, 826 or 827
831-112	33975	3/4"	1-1/8"	29	
831-137	33977	1"	1-3/8"	35	823, 828, or 828
831-175	33979	1-1/4"	1-3/4"	44	
831-200	33981	1-1/2"	2"	51	
831-250	33983	2"	2-1/2"	64	
831-300	33985	2-1/2"	3"	76	828 or 829
831-362	33987	3"	3-5/8"	92	
831-412	33989	3-1/2"	4-1/8"	105	
831-450	33991	4"	4-1/2"	114	

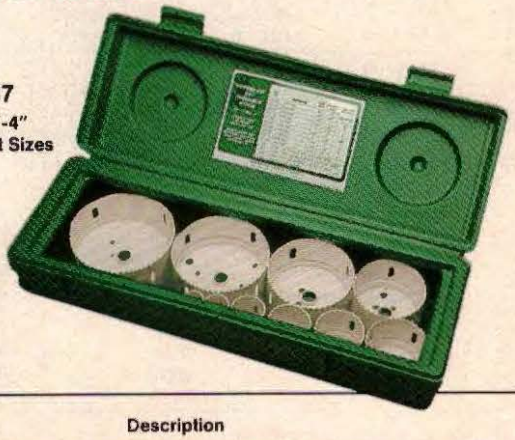
- Variable pitch design:
  -Number of teeth per inch varies to provide faster, easier cutting.
  -The gullet depth and tooth set vary to provide more efficient chip clearance.
- Bi-Metal construction with high-speed steel teeth for long life.
- 1-3/8" cutting depth to cut materials 1/4" thicker than most hole saws.

Variable Pitch, Bi-Metal Hole Saw Kits

836
1/2"-2" Conduit Sizes



837
1/2"-4" Conduit Sizes



Cat. No.	NAED/DCI 78-3310	Description
836	33993	**Variable Pitch Hole Saw Kit for 1/2" through 2" conduit sizes.** Includes 7/8", 1-1/8", 1-3/8", 1-3/4", 2" and 2-1/2" hole saws plus 826, 827 and 828 arbors with pilot drills in 30250 high impact plastic case.
837	33996	**Variable Pitch Hole Saw Kit for 1/2" through 4" conduit sizes.** Includes 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 3", 3-5/8", 4-1/8" and 4-1/2" hole saws plus 826, 827 and 828 arbors with pilot drills in 30236 high impact plastic case.

Standard Bi-Metal Hole Saws

with High-Speed Steel Teeth



- Cut holes in most machinable materials.
- High-Speed Steel Teeth welded to steel body.
- Use with portable drills, drill presses and lathes.

Hole Saw Arbors



No. 822



No. 1 9191



No. 2 8253



No. 827



No. 823



No. 826



No. 828
No. 829

Cat. No.	NAED/DCI 78-3310	Description
826	16860	1/4" round shank for 9/16 - 1-3/16" dia. hole saws
827	16870	7/16" hex shank for 9/16 - 1-3/16" dia. hole saws
828	16875	7/16" hex shank for 1-1/4 - 6" dia. hole saws
829	16880	5/8" hex shank for 1-1/4 - 6" dia. hole saws
822	16855	1/4" round shank with 3 flats for 9/16 - 1-3/16" dia. hole saws
823	16856	1/4" round shank with 3 flats for 1-1/4 - 2" dia. hole saws
Replacement High-Speed Pilot Drills		
1 9191	16920	1/4" high-speed pilot drills for use with 826, 827, 828, and 829 arbors
2 8253	28253	1/4" high-speed pilot drill for use with 822 and 823 arbors

SELECTION GUIDE

825 Standard Hole Saws

Cat. No.	NAED/DCI 78-3310	Hole Diameter	Conduit Size	For Copper Pipe Size (I.D.)	Millimeter Equivalent	Use with Arbor No.
825-9/16	16800	9/16"		1/8"	14.3	822, 826, or 827
825-5/8	16801	5/8"		1/4"	15.9	
825-11/16	16802	11/16"		3/8"	17.5	
825-3/4	16803	**3/4"**	3/8"	1/2"	19.0	
825-3/16	16804	13/16"		1/2"	20.6	
825-7/8	16805	**7/8"**	1/2"	5/8"	22.2	
825-15/16	16806	15/16"			23.8	
825-1	16807	1"		3/4"	25.4	
825-1-1/16	16808	1-1/16"			27.0	
825-1-1/8	16809	**1-1/8"**	3/4"	3/4"	28.6	
825-1-3/16	16810	1-3/16"			30.2	
825-1-1/4	16811	1-1/4"		1"	31.7	823, 828, or 829
825-1-5/16	16812	1-5/16"			33.3	
825-1-3/8	16813	**1-3/8"**	1"		34.9	
825-1-7/16	16814	1-7/16"			36.5	
825-1-1/2	16815	1-1/2"		1-1/4"	38.1	
825-1-9/16	16816	1-9/16"			39.7	
825-1-5/8	16817	1-5/8"			41.3	
825-1-11/16	16818	1-11/16"			42.9	
825-1-3/4	16819	**1-3/4"**	1-1/4"	1-1/2"	44.4	
825-1-13/16	16820	1-13/16"			46.0	
825-1-7/8	16821	1-7/8"			47.6	
825-2	16822	**2"**	1-1/2"		50.8	
825-2-1/16	16823	2-1/16"			52.4	828 or 829
825-2-1/8	16824	2-1/8"			54.0	
825-2-1/4	16825	2-1/4"		2"	57.2	
825-2-5/16	16826	2-5/16"			58.7	
825-2-3/8	16827	2-3/8"		2"	60.3	
825-2-1/2	16828	**2-1/2"**	2"	2"	63.5	
825-2-9/16	16829	2-9/16"			65.0	
825-2-5/8	16830	2-5/8"			66.7	
825-2-3/4	16831	2-3/4"			69.8	
825-2-7/8	16832	2-7/8"			73.0	
825-3	16833	**3"**	2-1/2"	2-1/2"	76.2	
825-3-1/8	16834	3-1/8"			79.4	
825-3-1/4	16835	3-1/4"			82.5	
825-3-3/8	16836	3-3/8"			85.7	
825-3-1/2	16837	3-1/2"			88.9	
825-3-5/8	16838	**3-5/8"**	3"		92.1	
825-3-3/4	16839	3-3/4"			95.2	
825-3-7/8	16840	3-7/8"		3-1/2"	98.4	
825-4	16841	4"			101.6	
825-4-1/8	16842	**4-1/8"**	3-1/2"	3-1/2"	104.8	
825-4-1/4	16843	4-1/4"		4"	108.0	
825-4-3/8	16844	4-3/8"			111.1	
825-4-1/2	16845	**4-1/2"**	4"		114.3	
825-4-3/4	16846	4-3/4"			120.6	
825-5	16847	5"			127.0	
825-5-1/2	16848	5-1/2"		5"	139.7	
825-6	16849	6"			152.4	

Hole Saw Kits



830
1/2"-2"
Conduit



835
1/2"-4"
Conduit



834
2-1/2"-4"
Conduit

Cat. No.	NAED/DCI 78-3310	Description
830	16885	**Standard Hole Saw Kit for 1/2" through 2" conduit sizes.** Includes 7/8", 1-1/8", 1-3/8", 1-3/4", 2" and 2-1/2" hole saws plus 826, 827 and 828 arbors with pilot drills in 30250 high impact plastic case.
834	16890	**Standard Hole Saw Kit for 2-1/2" through 4" conduit sizes.** Includes 3", 3-5/8", 4-1/8" and 4-1/2" hole saws plus 828 arbor with pilot drill in 30236 high impact plastic case.
835	16892	**Standard Hole Saw Kit for 1/2" through 4" conduit sizes.** Includes 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 3", 3-5/8", 4-1/8" and 4-1/2" hole saws plus 826, 827 and 828 arbors with pilot drills in 30236 high impact plastic case.

Choose a punch . . .

SLUGBUSTER™



- 1/2" - 2" conduit sizes.
- 10 gauge mild steel.
- Split slug for easy removal.

PAGES 88-89, 100, 101

SLUG SPLITTER®



- 1/2" - 2" conduit sizes.
- 1-7/32" oil tight size.
- 10 gauge stainless steel.
- Split slug for easy removal.

PAGES 90-91

STANDARD

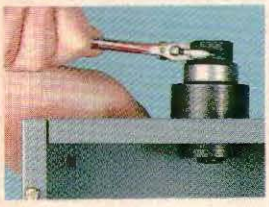


- 1/2" - 5" conduit sizes.
- 53 industrial sizes from 1/2" -5-5/8".
- See punch data for punch capacity.

PAGES 92-93

Choose a drive method . . .

Wrench



PAGE 94

Self Contained Hydraulic Quick Draw



Up to 2" conduit size.

PAGE 95

Ratchet



Up to 3" conduit size.

PAGES 96-97

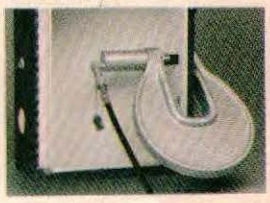
Ram-Type Hydraulic



Up to 5" conduit size.

PAGE 98

Hydraulic C-Frame



Up to 4" conduit without pilot hole.

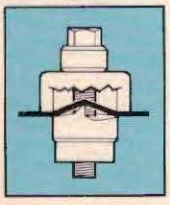
SLUGBUSTER™ Punches

For 1/2" - 2" Conduit Sizes

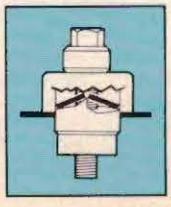
- Punch up to 10 gauge mild steel.
- Splits slug for easy removal.
- Use with ratchet driver, Quick Draw Driver, or ram-type hydraulic driver.
- Punches can be used with standard die.







Unique Slug-Buster punch design creases slug as the punch is drawn into the die.



Slug is split in half as punching operation is completed.



Split slugs fall free from the die and stud.

U.S.A. PATENT NOS. 4353164, 4543722 ALSO INTERNATIONAL PATENTS AND PATENTS PENDING.

HOLE PUNCHING

SLUGGBUSTER™ Punch Sets

For Metric Slug Buster™ Punches see page 90

INDIVIDUAL SIZE CONDUIT SETS (Punch, Die and Draw Stud)

Conduit Size	Nominal Size	Actual Hole Dia. Inches	Actual Hole Dia. MM	PUNCH SET — Punch, Die & Draw Stud Cat. No.	PUNCH SET — Punch, Die & Draw Stud NAED/DCI No. 78-3310-	PUNCH Cat. No.	PUNCH NAED/DCI No. 78-3310-	DRAW STUD Cat. No.	DRAW STUD NAED/DCI No. 78-3310-	DIE Cat. No.	DIE NAED/DCI No. 78-3310-
1/2"	7/8"	.882	22.4	**7211BB-1/2**	01410	721-1/2	00080	322AVBB	05680	14722	05434
3/4"	1-3/32"	1.110	28.4	**7211BB-3/4**	01413	721-3/4	00082	249AVBB	04040	124AV	05430
1"	1-11/32"	1.362	34.6	**7211BB-1**	01416	721-1	00084	249AVBB	04040	126AV	05440
1-1/4"	1-11/16"	1.701	43.2	**7211BB-1-1/4**	01420	721-1-1/4	00086	249AVBB	04040	128AV	05445
1-1/2"	1-15/16"	1.953	49.6	**7211BB-1-1/2**	01423	721-1-1/2	00088	304AVBB	05660	440AV	05450
2"	2-3/8"	2.421	61.5	**7211BB-2**	01426	721-2	00090	304AVBB	05660	442AV	05460



7235BB 1/2" - 1-1/4" CONDUIT SIZE SET

Cat. No.	NAED/DCI No.	Description	Wt./Lbs.
7235BB	78-3310-07235	½" — 1-¼" Slug Buster™ Punch Set	2.7

Conduit Size	Hole Size	PUNCH Cat. No.	PUNCH NAED/DCI No. 78-3310-	DIE Cat. No.	DIE NAED/DCI No. 78-3310-	DRAW STUD Cat. No.	DRAW STUD NAED/DCI No. 78-3310-	DRAW STUD Draw Stud Size
1/2"	7/8"	**721-1/2**	00080	14722	05434	322AVBB	05680	3/8"
3/4"	1-3/32"	**721-3/4**	00082	124AV	05430	249AVBB	04040	3/4"
1"	1-11/32"	**721-1**	00084	126AV	05440	—	—	—
1-1/4"	1-11/16"	**721-1-1/4**	00086	128AV	05445	—	—	—



7237BB 1-1/2" - 2" CONDUIT SIZE SET

Cat. No.	NAED/DCI No.	Description	Wt./Lbs.
7237BB	78-3310-07237	1-½" & 2" Slug Buster™ Punch Set	5.2

Conduit Size	Hole Size	PUNCH Cat. No.	PUNCH NAED/DCI No. 78-3310-	DIE Cat. No.	DIE NAED/DCI No. 78-3310-	DRAW STUD Cat. No.	DRAW STUD NAED/DCI No. 78-3310-	DRAW STUD Draw Stud Size
1-1/2"	1-15/16"	**721-1-1/2**	00088	440AV	05450	304AV	05650	3/4"
2"	2-3/8"	**721-2**	00090	442AV	05460	—	—	—



7216 1/2" - 2" CONDUIT SIZE SET (Punches and Dies only)

For use with Hydraulic or Ratchet Drivers

Cat. No.	NAED/DCI No.	Description	Wt./Lbs.
7216	78-3310-07216	½" — 2" Slug Buster™ Punch and Die Set	5.5

Conduit Size	Hole Size	PUNCH Cat. No.	PUNCH NAED/DCI No. 78-3310-	DIE Cat. No.	DIE NAED/DCI No. 78-3310-
1/2"	7/8"	**721-1/2**	00080	14722	05434
3/4"	1-3/32"	**721-3/4**	00082	124AV	05430
1"	1-11/32"	**721-1**	00084	126AV	05440
1-1/4"	1-11/16"	**721-1-1/4**	00086	128AV	05445
1-1/2"	1-15/16"	**721-1-1/2**	00088	440AV	05450
2"	2-3/8"	**721-2**	00090	442AV	05460



SLUG BUSTER™ Metric Size Punches



7213EBB Slug Buster™ Punch Set — 15.2mm - 60.0mm



7212EBB Slug Buster™ Punch Set 15.2mm - 30.5mm



7214E Slug Buster™ Punch and Die Set 15.2mm - 30.5mm



7211EBB Slug Buster™ Individual Size Punch, Die and Draw Stud Sets

PG Size	Actual Hole Size MM	Actual Hole Size Inches	Mild Steel Cap.	Cat. No.	NAED/ DCI No. 78-3310-	PUNCH SETS, CAT. NOS. and NAED/DCI NOS. 7211EBB15.2 78-3310-01480	7211EBB18.6 78-3310-01482	7211EBB20.4 78-3310-01484	7211EBB22.5 78-3310-01486	7211EBB28.3 78-3310-01488	7211EBB30.5 78-3310-01490	7211EBB37 78-3310-01492	7211EBB47 78-3310-01494	7211EBB60 78-3310-01498	7212EBB 78-3310-07212	7213EBB 78-3310-07213	7214E 78-3310-07214	7215E 78-3310-32803
9	15.2	.598	2mm	Punch No. 721E15.2	00360	1	—	—	—	—	—	—	—	—	1	1	1	1
				Die No. 722E15.2	00380	1	—	—	—	—	—	—	—	—	1	1	1	1
11	18.6	.732	2mm	Punch No. 721E18.6	00362	—	1	—	—	—	—	—	—	—	1	1	1	1
				Die No. 72E18.6	00382	—	1	—	—	—	—	—	—	—	1	1	1	1
13	20.4	.803	2mm	Punch No. 721E20.4	00364	—	—	1	—	—	—	—	—	—	1	1	1	1
				Die No. 722E20.4	00384	—	—	1	—	—	—	—	—	—	1	1	1	1
16	22.5	.886	2mm	Punch No. 721E22.5	00366	—	—	—	1	—	—	—	—	—	1	1	1	1
				Die No. 722E22.5	00386	—	—	—	1	—	—	—	—	—	1	1	1	1
21	28.3	1.114	2mm	Punch No. 721E28.3	00368	—	—	—	—	1	—	—	—	—	1	1	1	1
				Die No. 722E28.3	00388	—	—	—	—	1	—	—	—	—	1	1	1	1
—	30.5	1.201	2mm	Punch No. 721E30.5	00370	—	—	—	—	—	1	—	—	—	1	1	1	1
				Die No. 722E30.5	00390	—	—	—	—	—	1	—	—	—	1	1	1	1
29	37.0	1.456	3mm	Punch No. 721E37	00372	—	—	—	—	—	—	1	—	—	—	1	—	1
				Die No. 722E37	00391	—	—	—	—	—	—	1	—	—	—	1	—	1
36	47.0	1.850	3mm	Punch No. 721E47	00374	—	—	—	—	—	—	—	1	—	—	1	—	1
				Die No. 722E47	00392	—	—	—	—	—	—	—	1	—	—	1	—	1
48	60.0	2.362	3mm	Punch No. 721E60	00376	—	—	—	—	—	—	—	—	1	—	1	—	1
				Die No. 722E60	00394	—	—	—	—	—	—	—	—	1	—	1	—	1
Description				Draw Stud No.														
3/8" Draw Stud				322AVBB	05680	1	1	1	1	—	—	—	—	—	1	1	—	—
3/8" Draw Stud				112AVBB	05628	—	—	—	—	1	1	—	—	—	1	1	—	—
3/4" Draw Stud				249AVBB	04040	—	—	—	—	—	—	1	—	—	—	1	—	—
3/4" Draw Stud				304AVBB	05660	—	—	—	—	—	—	—	1	1	—	1	—	—
Metal Storage Box				1 9193	19193	—	—	—	—	—	—	—	—	—	1	—	—	—
Metal Storage Box				2 9529	29529	—	—	—	—	—	—	—	—	—	—	1	—	—

SLUG SPLITTER®

Heavy Duty Punching System

- Punches up to 10 gauge stainless and mild steel
- Lasts 20 times longer than conventional punches
- Fast, easy slug removal saves time
- Makes clean, exact size holes
- Proven performance in field tests
- Fast delivery from your local distributor's stock



U.S.A. PATENT NOS. 4353164, 4543722
ALSO INTERNATIONAL PATENTS AND PATENTS PENDING.

Why SLUG SPLITTER® Knockout Sets Last Longer in Heavy Duty Applications

PROPRIETARY STEEL MATERIAL
- Longer Life
- 10 Ga. Stainless Steel Capacity
- Abrasion Resistance for Punching Fiberglass Enclosures

INCREASED PUNCH LENGTH
- Increases Draw stud Life by Reducing Bending Strain.

PRECISION COUNTERBORE IN PUNCH
- Increases Draw Stud Life by Transferring Bending Stresses from Threaded Section of Draw Stud to the Solid 7/16" Shaft Diameter.

90° CROSS HAIR MARKS
- For Quick, Accurate Precision Line Up.

NEW ONE PIECE DESIGN DRAW STUD
- Eliminates Need for Spacers.
- Fast, Easy Operation.

TOUGH STAINLESS STEEL STUDS
- For Longer Life.



SCREW SLOT
- For easy Stud Installation and Removal.

KNURLED SHOULDER
- For Easy Gripping.

SLUG SPLITTER DESIGN
- Fast, Easy Removal of Slug from Die and Draw Stud.

PRECISION MACHINED SHEARING EDGE
- Punch NEMA 12 Enclosures.
- Punch 10 Ga. Stainless Steel.
- Punch Fiberglass (FRP) Enclosures.

HEAVY DUTY WALL THICKNESS
- 10 Ga. Stainless Steel Capacity.

INCREASED DRAW STUD DIAMETER
- Increased from 3/8" dia. to 7/16" for Longer Life.

Heavy Duty System for making 7/8" Diameter Pilot Holes with New 1904 Ratchet Driver or 7625 and 7646 Hydraulic Drivers.

HOLE PUNCHING



7506 SLUG SPLITTER®
Knockout Punch Set

1/2 - 2" Conduit Sizes with Hydraulic Driver and Hand Pump



7307 SLUG SPLITTER®
Knockout Punch Set

1/2" - 2" Conduit Sizes and 1-7/32" Oil Tight



744 SLUG SPLITTER®

Knockout Punch Set 1/2" - 1-1/4" Conduit Sizes



745R 1/2" Slug Splitter®
1/2" conduit sized punch die and draw stud set for use with Ratchet Drivers



745H 1/2" Slug Splitter®
1/2" conduit sized punch, die and draw stud set for use with Hydraulic Drivers



740H 1-7/32" Slug Splitter®
1-7/32" Oil Tight size punch die and draw stud set for use with Hydraulic Drivers

SLUG SPLITTER® SETS PARTS LIST

Conduit Size	Actual Hole Dia. Inches	Actual Hole Dia. MM	Size Draw Stud	Cat. No.	NAED/ DCI No. 78-3310-	PUNCH SETS, CAT. NOS. and NAED/DCI NOS. 7506 78-3310-07506	7307 78-3310-73070	744 78-3310-74400	745R 1/2" 78-3310-07454	745H 1/2" 78-3310-07452	740H 1-7/32" 78-3310-07405
1/2"	7/8"	22.4	7/16"	Punch No. 28154	21854	1	1	1	1	1	—
				Die No. 28155	21855	1	1	1	1	1	—
3/4"	1-3/32"	28.2	3/4"	Punch No. 28156	21856	1	1	1	—	—	—
				Die No. 28157	21857	1	1	1	—	—	—
*	1-7/32"	30.9	3/4"	Punch No. 29385	29385	—	1	—	—	—	1
				Die No. 29386	29386	—	1	—	—	—	1
1"	1-11/32"	34.6	3/4"	Punch No. 28158	21858	1	1	1	—	—	—
				Die No. 28159	21859	1	1	1	—	—	—
1-1/4"	1-11/16"	43.2	3/4"	Punch No. 28160	21860	1	1	1	—	—	—
				Die No. 28161	21861	1	1	1	—	—	—
1-1/2"	1-15/16"	49.6	3/4"	Punch No. 28162	21862	1	1	—	—	—	—
				Die No. 28163	21863	1	1	—	—	—	—
2"	2-3/8"	61.5	3/4"	Punch No. 28165	21865	1	1	—	—	—	—
				Die No. 28166	21866	1	1	—	—	—	—
7/16 Hydraulic Draw Stud				29451	29451	1	1	1	—	1	—
3/4 Hydraulic Draw Stud				29452	29452	1	1	1	—	—	1
7/16 Ratchet Draw Stud				30227	30227	—	—	—	1	—	—
3/4 Ratchet Draw Stud				12098	05751	—	—	—	—	—	—
1-1/2 Ratchet Draw Stud				12099	05752	—	—	—	—	—	—
Hand Pump				767	12810	1	—	—	—	—	—
Hydraulic KO Ram				746SS	30387	1	—	—	—	—	—
Hose Unit				15627	06005	1	—	—	—	—	—
Spacer Unit				15908	05193	1	—	—	—	—	—
Metal Box				31068	31068	1	—	—	—	—	—
Metal Box				29529	29529	—	1	—	—	—	—
Metal Box				19193	19193	—	—	1	—	—	—

SLUG SPLITTER® METRIC PUNCHES

PG Size	Actual Hole Dia. MM	Actual Hole Dia. Inches	Size Draw Stud	PUNCH SETS, CAT NOS. and NAED/DCI NOS. Cat. No.	NAED/ DCI No. 78-3310-
9	15.2	.598	7/16"	Punch No. 31117	31117
				Die No. 31126	31126
11	18.6	.732	7/16"	Punch No. 31119	31119
				Die No. 31128	31128
13	20.4	.803	7/16"	Punch No. 31120	31120
				Die No. 31129	31129
16	22.4	.882	7/16"	Punch No. 31321	31321
				Die No. 31323	31323
21	28.2	1.110	3/4"	Punch No. 31320	31320
				Die No. 31322	31322
—	30.5	1.201	3/4"	Punch No. 31121	31121
				Die No. 31130	31103
29	37.0	1.456	3/4"	Punch No. 31122	31122
				Die No. 31135	31135
36	47.0	1.850	3/4"	Punch No. 31123	31123
				Die No. 31131	31131
42	54.0	2.126	3/4"	Punch No. 31124	31124
				Die No. 31132	31132
48	60.0	2.362	3/4"	Punch No. 31125	31125
				Die No. 31133	31133
7/16 Hydraulic Draw Stud				29451	29451
3/4 Hydraulic Draw Stud				29452	29452
7/16 Ratchet Draw Stud				30227	30227
3/4 Ratchet Draw Stud				12098	05751
1-1/2 Ratchet Draw Stud				12099	05752

Knockout Punch Sets





735BB ½" — 1-¼" Conduit Size Knockout Punch Set

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
735BB	01250	½ - 1-¼" Ball Bearing Knockout Punch Set	2.5

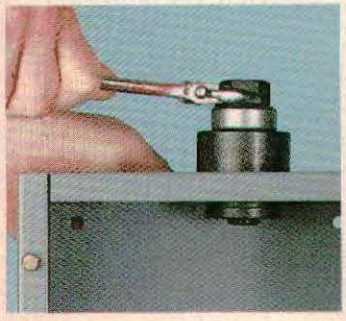
Cat. No.	NAED/DCI No. 78-3310-	Description	Hole Size
121AV	05205	1/2" Conduit Size Punch	7/8"
1 4722	05434	1/2" Conduit Size Die - 3/8" Screw	7/8"
322AVBB	05680	3/8" Ball Bearing Screw	—
123AV	05210	3/4" Conduit Size Punch	1-3/32"
124AV	05430	3/4" Conduit Size Die	1-3/32"
125AV	05215	1" Conduit Size Punch	1-11/32"
126AV	05440	1" Conduit Size Die	1-11/32"
127AV	05220	1-1/4" Conduit Size Punch	1-11/16"
128AV	05445	1-1/4" Conduit Size Die - 3/4" Screw	1-11/16"
249AVBB	04040	3/4" Ball Bearing Screw	—
3 1880	31880	Plastic Case	—

737BB 1-½" and 2" Conduit Size Knockout Set

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
737BB	01280	1-½ - 2" Ball Bearing Knockout Punch Set	4.4

Cat. No.	NAED/DCI No. 78-3310-	Description	Hole Size
439AV	05225	1-1/2" Conduit Size Punch	1-15/16"
440AV	05450	1-1/2" Conduit Size Die	1-15/16"
441AV	05230	2" Conduit Size Punch	2-3/8"
442AV	05460	2" Conduit Size Die - 3/4" screw	2-3/8"
304AVBB	05660	3/4" Ball Bearing Screw	—
3 2012	32012	Plastic Case	—

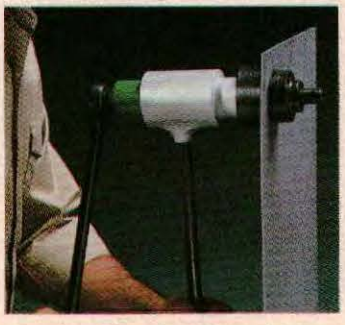
For Faster, Easier Punching — See Our Ratchet and Hydraulic Punch Drivers on pages 94-98.



Manual



Quick Draw™ Knockout Punch Driver



Ratchet Knockout Punch Driver



Hydraulic Knockout Punch Driver

Knockout Punches



71BB
1/2" Conduit
78-3310-00050



72BB
3/4" Conduit
78-3310-00055



73BB
1" Conduit
78-3310-00060



74BB
1-1/4" Conduit
78-3310-00065



75BB
1-1/2" Conduit
78-3310-00070



76BB
2" Conduit
78-3310-00075



738BB
2-1/2" Conduit
78-3310-01310



739BB
3" Conduit
78-3310-01330



741BB
3-1/2" Conduit
78-3310-01360



742BB
4" Conduit
78-3310-01380



743BB
5" Conduit
78-3310-01400

Order Information and Parts List

Conduit Size	Nominal Size	Actual Size Inches	Actual Size MM	Cat. No.	NAED/DCI No. 78-3310-	Description
1/2"	7/8"	.879	22.4	71BB	00050	Punch Set
				121AV	05205	Punch
				14722	05434	Die
				332AVBB	05680	3/8" Draw Stud
3/4"	1-3/32"	1.107	28.2	72BB	00055	Punch Set
				123AV	05210	Punch
				124AV	05430	Die
				249AVBB	04040	3/4" Draw Stud
1"	1-11/32"	1.357	34.6	73BB	00060	Punch Set
				125AV	05215	Punch
				126AV	05440	Die
				249AVBB	04040	3/4" Draw Stud
1-1/4"	1-11/16"	1.699	43.2	74BB	00065	Punch Set
				127AV	05220	Punch
				128AV	05445	Die
				249AVBB	04040	3/4" Draw Stud
1-1/2"	1-15/16"	1.949	49.6	75BB	00070	Punch Set
				439AV	05225	Punch
				440AV	05450	Die
				304AVBB	05660	3/4" Draw Stud
2"	2-3/8"	2.413	61.5	76BB	00075	Punch Set
				441AV	05230	Punch
				442AV	05460	Die
				304AVBB	05660	3/4" Draw Stud
2-1/2"	2-7/8"	2.914	74.0	738BB	01310	Punch Set
				1429AV	05235	Punch
				1430AV	05470	Die
				1434AV	05720	3/4" Draw Stud
3"	3-1/2"	3.539	89.8	739BB	01330	Punch Set
				1431AV	05240	Punch
				1432AV	05480	Die
				1434AV	05720	3/4" Draw Stud
				1433AVBB	04187	Ball Bearing Nut
3-1/2"	4"	4.044	102.7	741BB	01360	Punch Set
				2982AV	05250	Punch
				2981AV	05485	Die
				3026AV	05730	1-1/8" Draw Stud
				3036AVBB	05155	Ball Bearing Nut
4"	4-1/2"	4.544	115.4	742BB	01380	Punch Set
				2984AV	05255	Punch
				2983AV	05490	Die
				3026AV	05730	1-1/8" Draw Stud
				3036AVBB	05155	Ball Bearing Nut
				3037AV	05160	Bushing
5"	5-5/8"	5.675	143.7	743BB	01400	Punch Set
				5135AV	05260	Punch
				5136AV	05500	Die
				3026AV	05730	1-1/8" Draw Stud
				3036AVBB	05155	Ball Bearing Nut
				3037AV	05160	Bushing

Metal Bit

736 Unibit® Step Drill
for pilot holes in metal





- Cuts 1/2" pilot holes fast.
- Eliminates need to center punch.
- Heat treated high speed steel.

Cat. No.	NAED/DCI No. 78-3310-	Description
736	01275	1/2" Step Drill



7804SB and 7806SB

Quick Draw™

Hydraulic Punch Driver

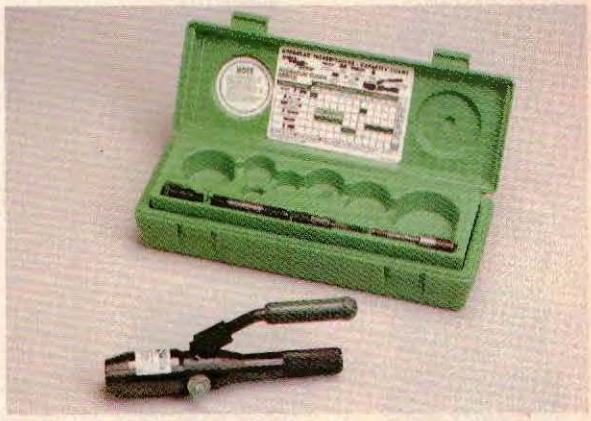
For 1/2" - 2" Conduit Size

Use with Slug-Buster™ or Standard Punches.

- Compact, lightweight design for portability and fast, easy one-person operation.
- Develops 8 tons of hydraulic force for easy punching, even up through 10 gauge mild steel.
- Packaged in custom-molded storage case for easy carrying and to help keep all parts organized.
- Special Step-Saver adapter converts standard Greenlee Knockout Punches through 1-1/4" conduit sizes to use 7/16" draw stud for one-step punching (included with 7804SB only).
- 7806SB Quick-Draw includes 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" Slug-Buster Punches and Dies.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
7804SB	33890	**Quick-Draw Hydraulic Punch Driver** complete with 3 Draw Studs, 1 Adapter, and 1 Spacer, in Carrying Case.	10
7806SB	33840	**Quick Draw™ Punch Driver Set** with 1/2"-2" Slug-Buster™ Punches and Dies for 1/2" thru 2" conduit.	14

Cat. No.	NAED/DCI No. 78-3310-	Description	7804SB	7806SB
1924AA	05603	Short Spacer	1	1
2 9451	29451	7/16" Stainless Steel Draw Stud	1	—
3 1874	31874	Step Saver Punch Adapter (use with 29451 Draw Stud)	1	--
3 1872	31872	3/4" Draw Stud	1	1
1614AA	03194	3/8" Draw Stud	1	1
3 3967	33967	3/8" Stud Adapter	1	1
721-1/2	00080	Slug Buster™ Punch 1/2" Cond.	—	1
1 4722	05434	1/2" Conduit Die	—	1
721-3/4	00082	Slug Buster™ Punch 3/4" Cond.	—	1
124AV	05430	3/4" Conduit Die	—	1
721-1	00084	Slug Buster™ Punch 1" Cond.	—	1
126AV	05440	1" Conduit Die	—	1
721-1-1/4	00086	Slug Buster™ Punch 1-1/4" Cond.	—	1
128AV	05445	1-1/4" Conduit Die	—	1
721-1-1/2	00088	Slug Buster™ Punch 1-1/2" Cond.	—	1
440AV	05450	1-1/2" Conduit Die	—	1
721-2	00090	Slug Buster™ Punch 2" Cond.	—	1
442AV	05460	2" Conduit Die	—	1
3 0236	30236	Carrying Case	1	1

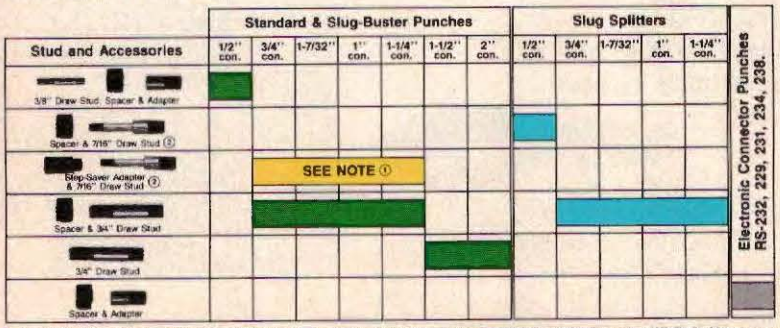


7804SB Quick-Draw Hydraulic Punch Driver



7806SB Quick Draw Hydraulic Punch Driver Set

CAPACITY CHART



14 GA. Mild Steel ■ 10 GA. Mild Steel ■ 10 GA. Stainless Steel ■ 16 GA. Mild Steel & 1/8" Soft Aluminum

① The Slug-Buster punches may not split the slug when used with this adapter, because of the smaller pilot hole.

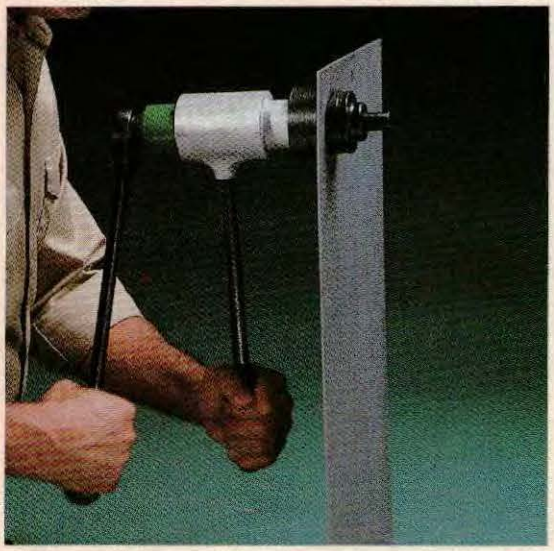
② Included with 7804SB only (31874 & 29451).

U.S.A. PATENT NO. 4594779
INTERNATIONAL PATENTS PENDING.

HOLE PUNCHING

1904/1906 High Capacity Ratchet Punch Drivers

For ½" thru 3" conduit size punches in 10 ga. mild steel.





1904



1906

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1904	02092	**High leverage ratchet knockout driver** includes driver and four studs in a metal carrying case.	14
1906	02122	**High leverage ratchet knockout driver set** includes three studs, ½" Slug Splitter, ¾", 1", 1-¼", 1-½" and 2" conventional conduit size punches and dies in metal carrying case.	20

Cat. No.	NAED/ DCI No. 78-3310-	Description	1904	1906
2 0495	06204	Ratchet Wrench	1	1
3 0220		Ball-Nut Unit Only (does not include casting, etc. or handle	1	1
3 0225	30225	Handle	1	1
3 0228	30228	Metal Carrying Case (not shown)	1	1
2 8154	21854	½" Slug Splitter Conduit Punch	—	1
2 8155	21855	½" Slug Splitter Conduit Die	—	1
123AV	05210	¾" Conduit Punch	—	1
124AV	05430	¾" Conduit Die	—	1
125AV	05215	1" Conduit Punch	—	1
126AV	05440	1" Conduit Die	—	1
127AV	05220	1-¼" Conduit Punch	—	1
128AV	05445	1-¼" Conduit Die	—	1
439AV	05225	1-½" Conduit Punch	—	1
440AV	05450	1-½" Conduit Die	—	1
441AV	05230	2" Conduit Punch	—	1
442AV	05460	2" Conduit Die	—	1
1 2098	05751	¾" dia. short draw stud for use with ¾", 1", 1-¼", 1-½" and 2" conduit size standard punches and dies; ¾", 1", 1-¼", 1-½" and 2" conduit size and 1-7/32" actual size Slug Splitter™ punches and dies.	1	1
1 2099	05752	¾" dia. long draw stud for use with 1-½", 2", 2-½" and 3" conduit size standard punches and dies.	1	1
3 0227	30227	7/16" dia. draw stud for use with ½" conduit size Slug Splitter™ punch and die.	1	1
1 2097	05750	⅜" dia. draw stud for use with ½" conduit size standard punch and die.	1	—
1 8276	18276	**Optional Draw Studs 16 ga. Max. Capacity (not shown)** ¼" x 2-¾" Adapter Screw for ½", 9/16", and ⅝" No. 730 Radio Chassis Punches and 15.2 mm No. 730E mm Punches.		
1 7828	17828	⅜" x 3-½" Adapter Screw for 15/16" thru 1-½" No. 730 Radio Chassis Punches and 18.6, 20.4, 22.5 No. 730E mm Punches.		

- Punches holes three times faster than wrench method.
- Requires less than half the force of conventional ratchet driver.
- Unique design eliminates stud rotation during punching — lowers the strain on studs.
- Ratchet action lets you work in confined areas.
- For use with standard Greenlee knockout punches, Slug Buster™ punches or Slug-Splitter® heavy duty punches.

1804 and 1806 Ratchet Knockout Drivers

For ½" thru 2" conduit sized punches



1804



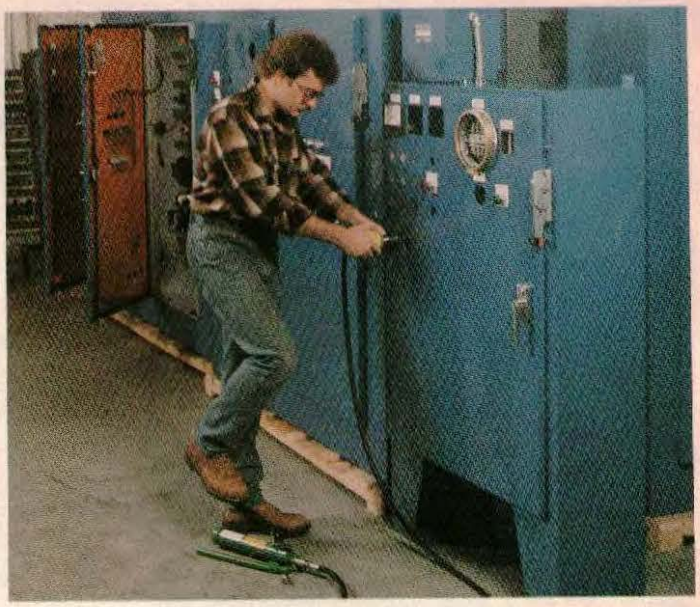
1806

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1804	01680	**Ratchet Knockout Punch Driver**, without punches and dies. Packed in carrying case.	9
1806	01685	**Ratchet Knockout Punch Driver**, complete with punches and dies ½ thru 2". Packed in carrying case.	14

Cat. No.	NAED/ DCI No. 78-3310-	Description	1804	1806
2 0495	06204	Ratchet wrench	1	1
1 2146	05513	Ball bearing sleeve unit	1	1
2 0494	06202	Handle	1	1
1 2097	05750	⅜ x 2-15/16" Adapter screw for ½"	1	1
1 2098	05751	¾ short Adapter screw for ¾ thru 2"	1	1
736	01275	Unibit	1	1
3 0236	30236	Plastic Carrying Case	1	1
1 8276	18276	**Optional (not shown)** ¼ x 2-¾" Adapter screw for ½, 9/16, and ⅝" No. 730 Radio chassis punches and 15.2 mm No. 730E mm Punches		
1 7828	17828	⅜ x 3-½" Adapter screw for 15/16 thru 1-½" No. 730 Radio chassis punches and 18.6, 20.4, 22.5 No. 730E mm Punches		
1 2099	05752	¾" long adapter screw for 2-½" and 3"		

- Ratchet action lets you work in confined areas.
- For use with standard Greenlee punches and dies.



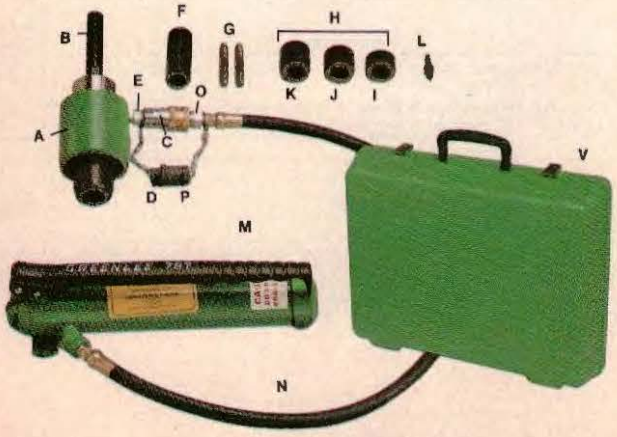


Hydraulic Punch Drivers

Punch up thru 5" conduit size holes . . . with powerful 11 ton ram.

- Fast, easy and simple to operate.
- Drives standard, Slug Buster™ and Slug Splitter® punches.
- For hole sizes — ½" thru 5" conduit (⅞" thru 5-⅝").
- For use with 730, 730M, 730S, 730T, 731M and 731S and special shaped electronic panel punches.
- Punches up thru 10 gauge mild or stainless steel (depending on punch capacity rating).

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
7646	01530	**Hydraulic Knockout Punch Driver** with 767 hand pump, in No. 30206 carrying case.	20
7306	01540	**Hydraulic Knockout Punch Driver Set** with 767 hand pump includes punches and dies for ½, ¾, 1, 1-¼, 1-½, and 2" conduit, in No. 30206 carrying case.	24
7310	01550	**Hydraulic Knockout Punch Driver Set** with 767 hand pump includes punches and dies for ½, ¾, 1, 1-¼, 1-½, 2, 2-½, 3, 3-½, and 4" conduit, in No. 18402 metal carrying case.	54
7506	07506	**Slug Splitter Hydraulic Knockout Set** with 767 hand pump includes punches and dies for ½", ¾", 1", 1-¼", 1-½" and 2" conduit, in No. 31068 metal carrying case.	32
7625	07625	**Hydraulic Knockout Driver** with 1725 foot pump (without punches and dies), in No. 23955 metal carrying case.	37
7606	07606	**Hydraulic Knockout Punch Driver Set** with 1725 foot pump includes 7625 with punches and dies for ½, ¾, 1, 1-¼, 1-½ and 2" conduit, ¼" x 10' High-Pressure Hose Unit, in No. 23955 metal storage box.	42
7610	07610	**Hydraulic Knockout Punch Driver Set** with 1725 foot pump includes punches and dies for ½, ¾, 1, 1-¼, 1-½, 2, 2-½, 3, 3-½, and 4" conduit, in No. 23955 metal storage box.	60
7304	01560	**Set of Knockout Punches** for 2-½, 3, 3-½ and 4" conduit, in No. 30236 carrying case.	21



7646 Hydraulic Punch Driver with 767 Hand Pump



7625 Hydraulic Punch Driver with 1725 Foot Pump

HOLE PUNCHING

Hydraulic Punch Sets with Hand Pump

7306
½" - 2"
Standard Conduit Size Punches





7310
½" - 4"
Standard Conduit Size Punches

7506
½" - 2"
Slug Splitter® Conduit Size Punches



Hydraulic Punch Sets with Foot Pump

7606 ½" - 2"
Standard Conduit Size Punches



7610
½" - 4"
Standard Conduit Size Punches



Punch Set

7304
2-½" - 4"
Conduit Size Punches and Dies



Hydraulic Punch Driver Sets — Parts List

Key	Cat. No.	NAED/ DCI No. 78-3310-	Description		7646	7306	7310	7625	7606	7610	7304	7506
A	746	01700	Ram (includes items B, C, D and E)		1	1	1	1	1	1	—	—
	746SS		Ram		—	—	—	—	—	—	—	1
	2 9451	29451	7/16" Stainless steel draw stud		—	—	—	—	—	—	—	1
	2 9452	29452	¾" Stainless steel draw stud		—	—	—	—	—	—	—	1
B	2113AA	05609	¾" Piston shaft		1	1	1	1	1	1	—	—
C	5 0259	05186	¼" Female coupler		1	1	1	1	1	1	—	1
D	5 0314	50314	Dust plug		1	1	1	1	1	1	—	1
E	5 0326	06160	¼" Hex nipple		1	1	1	1	1	1	—	1
F	1557AA	05610	Screw sleeve		1	1	1	1	1	1	—	1
G	1614SS	30043	⅜" Stainless steel adapter screw		2	2	2	2	2	2	—	—
H	1 5908	05193	Spacer group (includes items I, J and K)		1	1	1	1	1	1	—	1
I	1924AA	05603	Short spacer		1	1	1	1	1	1	—	1
J	1925AA	05604	Medium spacer		1	1	1	1	1	1	—	1
K	1926AA	05605	Long spacer		1	1	1	1	1	1	—	1
L	736	01275	Unibit		1	1	1	1	1	1	—	—
M	767	12810	Hydraulic hand pump		1	1	1	—	—	—	—	1
N	1 5627	06005	¼" x 3' High-pressure hose unit filled with hydraulic oil (includes items O, P, and Q)		1	1	1	—	—	—	—	1
O	5 0280	06154	¼" Male coupler		1	1	1	2	2	2	—	—
P	5 0315	50315	Dust cap		1	1	1	2	2	2	—	—
Q	921GB	12830	¼" x 3' High-pressure hose		1	1	1	—	—	—	—	—
R	3 0206	01535	Poly carrying case		1	1	—	—	—	—	—	—
	3 1068	31068	Replacement Metal Carrying Case for 7646 & 7306		—	—	—	—	—	—	—	1
S	1725	12814	Hydraulic foot pump (includes items C and D)		—	—	—	1	1	1	—	—
T	2 3954	08335	¼" x 10' High pressure host unit, filled with hydraulic oil includes 5 2515 hose with 2 couplers and dust caps [(2) O, (2) P]		—	—	—	1	1	1	—	—
U	2 3955	23955	Metal carrying case		—	—	—	1	1	1	—	—
	5 2515	52515	¼" x 10' High pressure hose only		—	—	—	—	—	—	—	—
	1 8402	18402	Metal carrying case for 7310		—	—	1	—	—	—	—	—
V	3 0236	30236	Poly carrying case for 7304		—	—	—	—	—	—	1	—
				Hole Size								
	121AV	05205	½" Punch	⅞"	—	1	1	—	1	1	—	—
	1 4722	05434	½" Die		—	1	1	—	1	1	—	—
	123AV	05210	¾" Punch	1-3/32"	—	1	1	—	1	1	—	—
	124AV	05430	3/4" Die		—	1	1	—	1	1	—	—
	125AV	05215	1" Punch	1-11/32"	—	1	1	—	1	1	—	—
	126AV	05440	1" Die		—	1	1	—	1	1	—	—
	127AV	05220	1-¼" Punch	1-11/16"	—	1	1	—	1	1	—	—
	128AV	05445	1-¼" Die		—	1	1	—	1	1	—	—
	439AV	05225	1-½" Punch	1-15/16"	—	1	1	—	1	1	—	—
	440AV	05450	1-½" Die		—	1	1	—	1	1	—	—
	441AV	05230	2" Punch	2-⅜"	—	1	1	—	1	1	—	—
	442AV	05460	2" Die		—	1	1	—	1	1	—	—
	1429AV	05235	2-½" Punch	2-⅞"	—	—	1	—	—	1	1	—
	1430AV	05470	2-½" Die		—	—	1	—	—	1	1	—
	1431AV	05240	3" Punch	3-½"	—	—	1	—	—	1	1	—
	1432AV	05480	3" Die		—	—	1	—	—	1	1	—
	2982AV	05250	3-½" Punch	4"	—	—	1	—	—	1	1	—
	2981AV	05485	3-½" Die		—	—	1	—	—	1	1	—
	2984AV	05255	4" Punch	4-½"	—	—	1	—	—	1	1	—
	2983AV	05490	4" Die		—	—	1	—	—	1	1	—
	2 8154	28154	½" Slug Splitter Punch	⅞"	—	—	—	—	—	—	—	1
	2 8155	28155	½" Slug Splitter Die		—	—	—	—	—	—	—	1
	2 8156	28156	¾" Slug Splitter Punch	1-3/32"	—	—	—	—	—	—	—	1
	2 8157	28157	¾" Slug Splitter Die		—	—	—	—	—	—	—	1
	2 8158	28158	1" Slug Splitter Punch	1-11/32"	—	—	—	—	—	—	—	1
	2 8159	28159	1" Slug Splitter Die		—	—	—	—	—	—	—	1
	2 8160	28160	1-¼" Slug Splitter Punch	1-11/16"	—	—	—	—	—	—	—	1
	2 8161	28161	1-¼" Slug Splitter Die		—	—	—	—	—	—	—	1
	2 8162	28162	1-½" Slug Splitter Punch	1-15/16"	—	—	—	—	—	—	—	1
	2 8163	28163	1-½" Slug Splitter Die		—	—	—	—	—	—	—	1
	2 8165	28165	2" Slug Splitter Punch	2-⅜"	—	—	—	—	—	—	—	1
	2 8166	28166	2" Slug Splitter Die		—	—	—	—	—	—	—	1

1731 C-Frame Punch Driver

With punches for ½", ¾" and 1" conduit. Optional 1-7/32" Oil Tight size available.





- Eliminates predrilling or step-up punching.
- 8" deep throat.
- For up thru 10 ga. mild steel.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1731	01600	**One-Shot Knockout Punch Driver** with ½, ¾, and 1" punches and dies, in metal carrying case.	32
1731H767	01610	Same as 1731 above except with 767 Hydraulic Hand Pump and hose.	36
1731F1725	01615	Same as 1731 above except with 1725 Foot Pump and hose.	43
1731E915	01620	Same as 1731 above except with 915PS Hydraulic Power Pump and hose.	62
1731G2	01730	**767 Hand Pump** with 1 5627 hose unit.	8
1731G5	01740	**915PS Electric Power Pump** with 1 1289 hose unit and 5 0807 female quick coupler. (Note: Remove ¼" female quick coupler and reducer bushing in 1731 and replace with ⅜" female quick coupler 5 0807.)	38
1725G1	12820	**1725 Hydraulic Foot Pump** with 2 3954 hose unit, in metal box.	28

1732 C-Frame Punch Driver

For ½" thru 4" conduit.

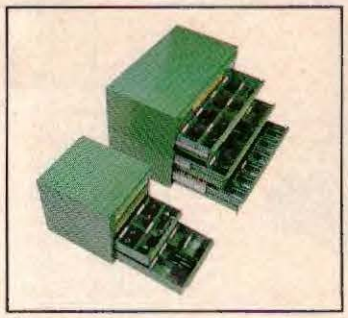




- Uses standard Greenlee Punches and Dies.
- Eliminates predrilling or step-up punching.
- 8" deep throat.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
1732	01650	**One-Shot Knockout Punch Driver** without punches or dies. Packed in metal carrying case.	64
1732H755	01660	Same as 1732 above except with Greenlee 755 Hydraulic Hand Pump and hose.	84
1732E915	01670	Same as 1732 above except with Greenlee 915PS Hydraulic Power Pump and hose.	94
1732E975	34204	Same as 1732 above except with the new Greenlee 975 Hydraulic Power Pump and hose.	123
1732G1	01750	**755 Hand Pump** with 1 1289 hose unit.	36
1732G3	01760	**915PS Electric Power Pump** with 1 1289 hose unit.	36

Punch Parts Assortments





Includes balanced stock of replacement parts. In sturdy steel cabinets.

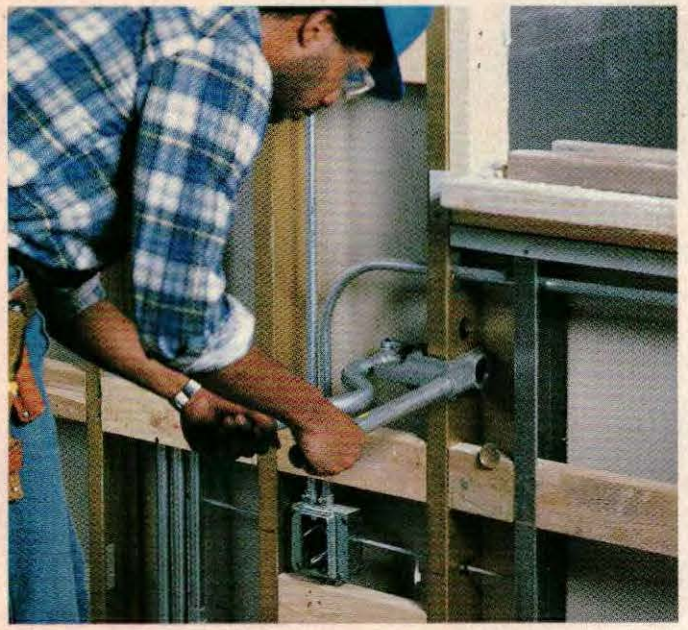
Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./ Lbs.
7360	01570	**Knockout Punch Parts Assortment** ½"-2"	74
7361	01575	**Knockout Punch Parts Assortment** ½"-3"	172

Contents Listing for 7360 and 7361

Cat. No.	Description	Type of Driver Used with	Quantity 7360	Quantity 7361
121AV	Punch ½" Conduit	All	18	18
14722	Die ½" Conduit	All	12	12
123AV	Punch ¾" Conduit	All	6	6
124AV	Die ¾" Conduit	All	6	6
125AV	Punch 1" Conduit	All	3	6
126AV	Die 1" Conduit	All	3	6
127AV	Punch 1-¼" Conduit	All	3	6
128AV	Die 1-¼" Conduit	All	3	6
439AV	Punch 1-½" Conduit	All	2	3
440AV	Die 1-½" Conduit	All	2	3
441AV	Punch 2" Conduit	All	2	3
442AV	Die 2" Conduit	All	1	2
1429AV	Punch 2-½" Conduit	All	—	1
1430AV	Die 2-½" Conduit	All	—	1
1431AV	Punch 3" Conduit	All	—	1
1432AV	Die 3" Conduit	All	—	1
322AVBB	Drive Screw, ⅜"	Wrench	12	12
249AVBB	Drive Screw, ⅜" Ball Bearing	Wrench	4	8
304AVBB	Drive Screw, ⅜" Ball Bearing	Wrench	4	6
1434	Drive Screw, 1" x ¾"	Wrench	—	1
1433AVBB	Nut, 1" Ball Bearing	Wrench	—	1
1 2097	Adapter Screw, ⅜"	Ratchets	4	6
3 0227	Adapter Screw, 7/16"	Ratchets	—	2
1 2098	Adapter Screw, ¾"	Ratchets	2	2
1 2099	Adapter Screw, ¾"	Ratchets	—	1
1614AA	Adapter Screw, ⅜"	Hyd.	12	24
1614SS	Adapter, ⅜" Stainless Steel	Hyd.	10	10
2113AA	Piston Shaft, ⅜"	Hyd.	4	6
1557AA	Sleeve, 1-⅛" Thread	Hyd.	—	1
3037AV	Bushing, 4" & 5"	Wrench	—	1
1924AA	Spacer, Short	Hyd.	—	3
1925AA	Spacer, Medium	Hyd.	—	3
1926AA	Spacer, Long	Hyd.	—	3
1 5908	Spacer Unit	Hyd.	—	1
2 8154	Punch ½" HD Slug Splitter®	Ratchet Hyd.	—	1
2 8155	Die ½" HD Slug Splitter	Ratchet Hyd.	—	1
2 9451	Draw Stud, 7/16" Stainless Steel	Hyd.	—	1
3 1832	Empty Replacement Metal Cabinet for 7360			
3 1834	Empty Replacement Metal Cabinet for 7361 Module 1			
3 1849	Empty Replacement Metal Cabinet for 7361 Module 2			

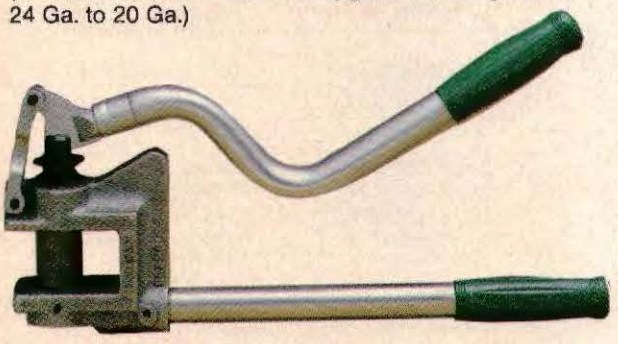
709, 710 Metal Stud Punch

Punch up thru 20 Gauge Steel Studs in one stroke



- Single stroke punching saves time on the job.
- Aluminum head provides strength with minimum weight, reducing operator fatigue.
- Contoured handle design gives better operator leverage and makes it possible to punch in tight places.
- Self stripping design eliminates punch hang-ups.
- Automatically centers holes on standard studs.

(Conversion kits available to upgrade existing units from 24 Ga. to 20 Ga.)



Cat. No.	NAED/ DCI No. 78-3310-	Punched Size	Studding Capacity	Wt./ Lbs.
709	01445	7/8" Dia.	1-5/8" & Wider	7
710	01450	1-11/32" Dia.	2-1/2" & Wider	7.5

Cat. No.	NAED/ DCI No. 78-3310-	Description	For Stud Punch	Wt./ Lbs.
3 0968	30968	Conversion Kit	709-710	3.1
121AV	05205	Punch	709	.1
2 2286	06224	Die	709	.2
2 4823	24823	Punch	710	.2
2 1297	21297	Die	710	.2

711, 712 Bushings

Triple lock design holds bushings securely



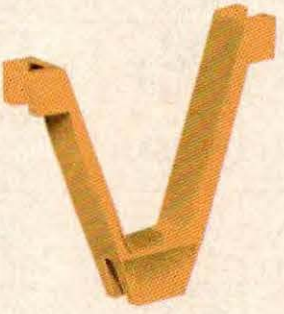


- Simply snap bushing into hole punched with Greenlee® stud punch.
- Locks securely into metal studs from 24 gauge to 10 gauge thickness.
- Helps protect wire insulation from sharp edges of metal studs.
- Helps prevent noise when using metal conduit.
- Makes pulling smooth and easy by preventing hang-ups of cable on raw metal edges.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Qty. Per Box	Wt./ Lbs.
711C	01453	Fits hole punched by 709 Punch	100	.5
711M	01454	Fits hole punched by 709 Punch	1000	3.7
712C	01455	Fits hole punched by 710 Punch	100	.7
712M	01460	Fits hole punched by 710 Punch	1000	5.2

714, 715 Insulators

Fits prepunched holes in metal studs

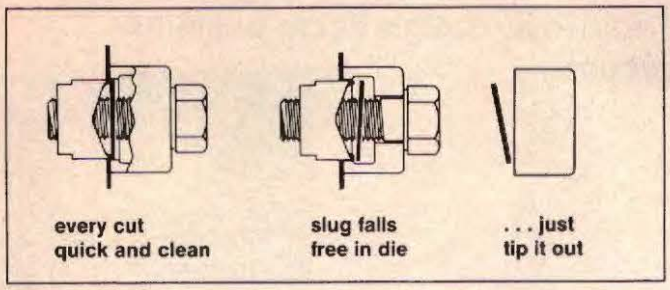




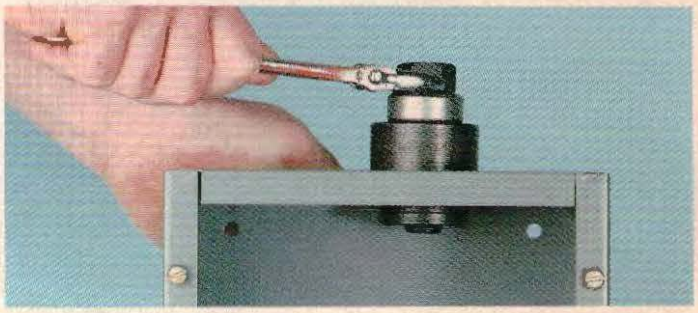
- Self-locking grooves keep bushings from falling out.
- Permits fast and easy installation of insulators.
- Helps prevent noise when using metal conduit.

Cat. No.	NAED/ DCI No. 78-3310-	Description	Wt./ Lbs.
714M	01457	1000 insulators for opening in 1-⅝" steel studs	4.7
715M	01458	1000 insulators for opening in 2-½" and 3-½" steel studs	8

Round Metal Punches







Metal is rigidly supported by the die to prevent distortion during punching. Inside of die is recessed for clearance so slug falls free.

- Make accurate holes fast, easily and consistently.
- Use to punch mild steel, aluminum, fiberglass and plastic.
- 60 diameters available from ½" to 5-⅝".
- Ratchet and hydraulic drivers available for faster, more efficient operation.

Nominal Size Inches	Actual Size		Standard Punch		Cap. Mild Steel Ga.	Wt./ Lbs.	Ball Bearing Drive Std. Punch		Cap. Mild Steel Ga.	Wt./ Lbs.
	Inches	MM	Cat. No.	NAED/DCI No. 78-3310-			Cat. No.	NAED/DCI No. 78-3310-		
1/2	.500	12.7	**730-1/2**	00100	16	.2	—	—	—	—
9/16	.563	14.3	**730-9/16**	00110	16	.2	—	—	—	—
				PG9 — PIPE SIZE						
19/32	.598	15.2	**730E-15.2**	00468	16	.3	**730EBB-15.2**	00500	16	.4
5/8	.625	15.9	**730-5/8**	00120	16	.2	—	—	—	—
21/32	.657	16.7	**700ISO-16**	00092	10	.3	**700ISOBB-16**	24473	10	.4
11/16	.688	17.5	**730-11/16**	00130	16	.2	**730BB-11/16**	00395	16	.3
				PG11 — PIPE SIZE						
47/64	.732	18.6	**730E-18.6**	00470	16	.3	**730EBB-18.6**	00502	16	.4
3/4	.750	19.1	**730-3/4**	00140	16	.3	**730BB-3/4**	00400	16	.3
				PG13 — PIPE SIZE						
51/64	.803	20.4	**730E-20.4**	00472	16	.3	**730EBB-20.4**	00504	16	.4
13/16	.812	20.6	**730-13/16**	00150	16	.3	**730BB-13/16**	00399	16	.4
13/16	.815	20.7	**700ISO-20**	00093	10	.3	**700ISOBB-20**	24474	10	.4
7/8	.875	22.2	**730-7/8**	00160	16	.3	**730BB-7/8**	00401	16	.4
				1/2" — CONDUIT SIZE						
7/8	.882	22.4	—	—	—	—	**71BB**	00050	10	.5
				PG16 — PIPE SIZE						
57/64	.886	22.5	**730E-22.5**	00474	16	.3	**730EBB-22.5**	00506	16	.4
15/16	.937	23.8	**730-15/16**	00170	16	.4	**730BB-15/16**	00402	16	.5
1	1.000	25.4	**730-1**	00180	16	.5	**730BB-1**	00403	16	.6
1-1/64	1.012	25.7	**700ISO-25**	00094	10	.5	**700ISOBB-25**	24475	10	.6
1-1/16	1.063	27.0	**730-1-1/16**	00190	16	.5	**730BB-1-1/16**	00404	16	.5
				3/4" — CONDUIT SIZE						
1-3/32	1.107	28.2	—	—	—	—	**72BB**	00055	10	1.0
				PG21 — PIPE SIZE						
1-7/64	1.114	28.3	**730E-28.3**	00476	16	.8	**730EBB-28.3**	00508	16	1.0
1-1/8	1.125	28.6	**730-1-1/8**	00200	16	.5	**730BB-1-1/8**	00405	16	.6
1-1/8	1.125	28.6	**730X-1-1/8**	00800	10	.7	**730XBB-1-1/8**	00852	10	.9
1-5/32	1.156	29.4	**730-1-5/32**	00210	16	.6	**730BB-1-5/32**	00407	16	.6
1-3/16	1.188	30.2	**730-1-3/16**	00220	16	.5	**730BB-1-3/16**	00410	16	.6

Round Metal Punches

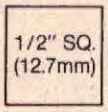
Nominal Size Inches	Actual Size		Standard Punch		Cap. Mild Steel Ga.	Wt./ Lbs.	Ball Bearing Drive Std. Punch		Cap. Mild Steel Ga.	Wt./ Lbs.
	Inches	MM	Cat. No.	NAED/DCI No. 78-3310-			Cat. No.	NAED/DCI No. 78-3310-		
1-3/16	1.188	30.2	**730X-1-3/16**	00810	10	.8	**730XBB-1-3/16**	00853	10	.9
1-13/64	1.201	30.5	**730E-30.5**	00478	16	.6	**730EBB-30.5**	00510	16	.7
			OIL TIGHT SWITCH PUNCHES — 730S and 730SBB							
1-7/32	1.218	30.9	**730S**	00650	10	.8	**730SBB**	02315	10	1.0
1-1/4	1.250	31.8	**730-1-1/4**	00230	16	.6	**730BB-1-1/4**	00415	16	.7
1-1/4	1.250	31.8	**730X-1-1/4**	00820	10	.9	**730XBB-1-1/4**	00854	10	1.1
1-9/32	1.283	32.6	**700ISO-32**	00095	10	.8	**700ISOBB-32**	24476	10	.9
1-5/16	1.313	33.4	**730-1-5/16**	00240	16	.6	**730BB-1-5/16**	00413	16	.7
			1" — CONDUIT SIZE							
1-11/32	1.357	34.6	—	—	—	—	**73BB**	00060	10	1.1
1-3/8	1.375	34.9	**730-1-3/8**	00250	16	.7	**730BB-1-3/8**	00417	16	.8
1-3/8	1.375	34.9	**730X-1-3/8**	00830	10	.9	**730XBB-1-3/8**	00856	10	1.1
			PG29 — PIPE SIZE							
1-29/64	1.457	37.0	**730E-37**	00480	16	1.0	**730EBB-37**	00512	16	1.2
1-1/2	1.500	38.1	**730-1-1/2**	00260	10	.8	**730BB-1-1/2**	00420	10	.9
1-1/2	1.500	38.1	**730X-1-1/2**	00840	10	1.1	**730XBB-1-1/2**	00858	10	1.2
1-19/32	1.602	40.7	**700ISO-40**	00096	10	1.1	**700ISOBB-40**	24477	10	1.2
1-5/8	1.625	41.3	**730-1-5/8**	00270	16	1.2	**730BB-1-5/8**	00425	16	1.4
			1-1/4" — CONDUIT SIZE							
1-11/16	1.699	43.2	—	—	—	—	**74BB**	00065	10	1.4
1-3/4	1.750	44.5	**730-1-3/4**	00280	16	1.4	**730BB-1-3/4**	00430	16	1.5
			PG36 — PIPE SIZE							
1-55/64	1.850	47.0	**730E-47**	00482	16	1.7	**730EBB-47**	00514	16	1.9
1-7/8	1.875	47.6	**730-1-7/8**	00290	16	1.8	**730BB-1-7/8**	00435	16	1.9
			1-1/2" — CONDUIT SIZE							
1-15/16	1.949	49.6	—	—	—	—	**75BB**	00070	10	2.0
2	2.000	50.8	**730-2**	00300	16	1.7	**730BB-2**	00440	16	1.9
2-1/8	2.125	54.0	**730-2-1/8**	00310	16	2.0	**730BB-2-1/8**	00445	16	2.2
2-5/32	2.165	55.0	**730E-55**	00484	16	2.0	**730EBB-55**	00516	16	2.2
2-1/4	2.250	57.2	**730-2-1/4**	00320	16	2.3	**730BB-2-1/4**	00450	16	2.6
			PG48 — PIPE SIZE							
2-23/64	2.362	60.0	**730E-60**	00486	16	2.4	**730EBB-60**	00518	16	2.6
			2" — CONDUIT SIZE							
2-3/8	2.413	61.5	—	—	—	—	**76BB**	00075	10	3.0
2-1/2	2.500	63.5	**730-2-1/2**	00330	16	2.8	**730BB-2-1/2**	00455	16	3.0
			PNEUMATIC GAUGE PUNCH							
2-5/8	2.625	66.7	—	—	—	—	**730PBB-2-5/8**	00620	10	5.2
2-3/4	2.750	69.9	**730-2-3/4**	00340	16	4.7	**730BB-2-3/4**	00460	16	4.8
			METER UNIT PUNCH							
2-25/32	2.781	70.6	**730M**	00590	10	3.6	**730MBB**	00526	10	3.8
			2-1/2" — CONDUIT SIZE							
2-7/8	2.914	74.0	—	—	—	—	**738BB**	01310	10	5.0
3	3.000	76.2	**730-3**	00350	16	6.0	**730BB-3**	00465	16	6.1
			AIRCRAFT INSTRUMENT PUNCH							
3-1/8	3.125	79.4	**730T**	00700	10	6.0	**730TBB**	00528	10	6.2
3-15/64	3.228	82.0	**730E-82**	00488	16	6.2	**730EBB-82**	00502	16	6.3
			3" — CONDUIT SIZE							
3-1/2	3.539	89.8	—	—	—	—	**739BB**	01330	10	5.9
3-5/8	3.625	92.0	**730E-92**	00490	16	7.3	—	—	—	—
			PNEUMATIC GAUGE PUNCH							
3-3/4	3.750	95.3	—	—	—	—	**730PBB-3/3/4**	00625	10	7.8
3-25/32	3.779	96.0	**730E-96**	00492	16	7.6	**730EBB-96**	00522	16	7.9
			3-1/2" — CONDUIT SIZE							
4	4.044	102.7	—	—	—	—	**741BB**	01360	16	10.0
			4" — CONDUIT SIZE							
4-1/2	4.544	115.4	—	—	—	—	**742BB**	01380	10	11.5
4-23/32	4.724	120.0	**730E-120**	00494	16	13.0	**730EBB-120**	00524	16	13.0
			5" — CONDUIT SIZE							
5-5/8	5.675	143.7	—	—	—	—	**743BB**	01400	10	19.0

Parts Listing for Round Standard and Ball Bearing Drive Standard Punches

CONDUIT & PIPE SIZE	NOMINAL SIZE	ACT. HOLE SIZE		CAPACITY MILD STEEL GA.	PUNCH SET CATALOG NO.		PUNCH NO.	DIE NO.	DRIVE SCREW NO.		NUT NO.		BUSHING
	IN.	DECIMAL	MM		STD.	BB			STD.	BB	STD.	BB	
—	1/2	.500	12.7	16	730-1/2	—	1760AV	1759AV	1675AV	—	—	—	—
—	9/16	.563	14.3	16	730-9/16	—	1754AV	1753AV	1675AV	—	—	—	—
—	19/32	.598	15.2	16	730E-15.2	730EBB-15.2	21316	21317	322AV	322AVBB	—	—	—
—	5/8	.625	15.9	16	730-5/8	—	1742AV	1743AV	1675AV	—	—	—	—
—	21/32	.657	16.7	10	700ISO-16	700ISOBB-16	24449	24450	112AV	322AVBB	—	—	—
—	11/16	.688	17.5	16	730-11/16	730BB-11/16	1752AV	1751AV	322AV	322AVBB	—	—	—
—	47/64	.732	18.6	16	730E-18.6	730EBB-18.6	17700	17703	322AV	322AVBB	—	—	—
—	3/4	.750	19.1	16	730-3/4	730BB-3/4	113AV	114AV	322AV	322AVBB	—	—	—
—	51/64	.803	20.4	16	730E-20.4	730EBB-20.4	17697	17699	322AV	322AVBB	—	—	—
—	13/16	.812	20.6	16	730-13/16	730BB-13/16	1745AV	1744AV	322AV	322AVBB	—	—	—
—	13/16	.815	20.7	10	700ISO-20	700ISOBB-20	24452	24453	112AV	322AVBB	—	—	—
—	7/8	.875	22.2	16	730-7/8	730BB-7/8	121AV	122AV	322AV	322AVBB	—	—	—
1/2	7/8	.882	22.4	10	—	71BB	121AV	14722	—	322AVBB	—	—	—
—	57/64	.886	22.5	16	730E-22.5	730EBB-22.5	17680	17683	322AV	322AVBB	—	—	—
—	15/16	.937	23.8	16	730-15/16	730BB-15/16	1762AV	1761AV	112AV	322AVBB	—	—	—
—	1	1.000	25.4	16	730-1	730BB-1	87AV	88AV	112AV	112AVBB	—	—	—
—	1-1/64	1.012	25.7	10	700ISO-25	700ISOBB-25	24456	24457	112AV	112AVBB	—	—	—
—	1-1/16	1.063	27.0	16	730-1-1/16	730BB-1-1/16	1763AV	1764AV	112AV	112AVBB	—	—	—
3/4	1-3/32	1.107	28.2	10	—	72BB	123AV	124AV	—	249AVBB	—	—	—
—	1-7/64	1.114	28.3	16	730E-28.3	730EBB-28.3	18327	18626	249AV	249AVBB	—	—	—
—	1-1/8	1.125	28.6	16	730-1-1/8	730BB-1-1/8	91AV	92AV	112AV	112AVBB	—	—	—
—	1-1/8	1.125	28.6	10	730X-1-1/8	730XBB-1-1/8	3197AV	3198AV	249AV	249AVBB	—	—	—
—	1-5/32	1.156	29.4	16	730-1-5/32	730BB-1-5/32	83AV	84AV	112AV	112AVBB	—	—	—
—	1-3/16	1.188	30.2	16	730-1-3/16	730BB-1-3/16	115AV	116AV	112AV	112AVBB	—	—	—
—	1-3/16	1.188	30.2	10	730X-1-3/16	730XBB-1-3/16	3201AV	3202AV	249AV	249AVBB	—	—	—
—	1-13/64	1.201	30.5	16	730E-30.5	730EBB-30.5	19892	19893	112AV	112AVBB	—	—	—
—	1-7/32	1.218	30.9	16	730S	730SBB	4400AV	4401AV	249AV	249AVBB	—	—	—
—	1-1/4	1.250	31.8	16	730-1-1/4	730BB-1-1/4	117AV	118AV	112AV	112AVBB	—	—	—
—	1-1/4	1.250	31.8	10	730X-1-1/4	730XBB-1-1/4	3203AV	3204AV	249AV	249AVBB	—	—	—
—	1-9/32	1.283	32.6	10	700ISO-32	700ISOBB-32	24459	24460	249AV	249AVBB	—	—	—
—	1-5/16	1.313	33.4	16	730-1-5/16	730BB-1-5/16	1747AV	1746AV	112AV	112AVBB	—	—	—
1	1-11/32	1.357	34.6	10	—	73BB	125AV	126AV	—	249AVBB	—	—	—
—	1-3/8	1.375	34.9	16	730-1-3/8	730BB-1-3/8	119AV	120AV	112AV	112AVBB	—	—	—
—	1-3/8	1.375	34.9	10	730X-1-3/8	730XBB-1-3/8	3205AV	3206AV	249AV	249AVBB	—	—	—
—	1-29/64	1.457	37.0	16	730E-37	730EBB-37	18331	18330	249AV	249AVBB	—	—	—
—	1-1/2	1.500	38.1	16	730-1-1/2	730BB-1-1/2	89AV	90AV	112AV	112AVBB	—	—	—
—	1-1/2	1.500	38.1	10	730X-1-1/2	730XBB-1-1/2	3207AV	3208AV	249AV	249AVBB	—	—	—
—	1-19/32	1.602	40.7	10	700ISO-40	700ISOBB-40	24462	24463	249AV	249AVBB	—	—	—
—	1-5/8	1.625	41.3	16	730-1-5/8	730BB-1-5/8	1794AV	1793AV	249AV	249AVBB	—	—	—
1-1/4	1-11/16	1.699	43.2	10	—	74BB	127AV	128AV	—	249AVBB	—	—	—
—	1-3/4	1.750	44.5	16	730-1-3/4	730BB-1-3/4	1816AV	1815AV	249AV	249AVBB	—	—	—
—	1-55/64	1.850	47.0	16	730E-47	730EBB-47	17687	17689	304AV	304AVBB	—	—	—
—	1-7/8	1.875	47.6	16	730-1-7/8	730BB-1-7/8	1791AV	1792AV	304AV	304AVBB	—	—	—
1-1/2	1-15/16	1.949	49.6	10	—	75BB	439AV	440AV	—	304AVBB	—	—	—
—	2	2.000	50.8	16	730-2	730BB-2	1756AV	1755AV	304AV	304AVBB	—	—	—
—	2-1/8	2.125	54.0	16	730-2-1/8	730BB-2-1/8	1763AV	1762AV	304AV	304AVBB	—	—	—
—	2-5/32	2.165	55.0	16	730E-55	730EBB-55	23098	23099	304AV	304AVBB	—	—	—
—	2-1/4	2.250	57.2	16	730-2-1/4	730BB-2-1/4	437AV	438AV	304AV	304AVBB	—	—	—
—	2-23/64	2.362	60.0	16	730E-60	730EBB-60	17690	17692	304AV	304AVBB	—	—	—
2	2-3/8	2.413	61.5	10	—	76BB	441AV	442AV	—	304AVBB	—	—	—
—	2-1/2	2.500	63.5	16	730-2-1/2	730BB-2-1/2	1758AV	1757AV	304AV	304AVBB	—	—	—
—	2-5/8	2.625	66.7	10	—	730PBB-2-5/8	1795AV	1796AV	1434AV	—	—	1433AVBB	—
—	2-3/4	2.750	69.9	16	730-2-3/4	730BB-2-3/4	1790AV	1789AV	1434AV	—	1433AV	1433AVBB	—
—	2-25/32	2.781	70.6	10	730M	730MBB	730 101A	730 100A	304AV	304AVBB	—	—	—
2-1/2	2-7/8	2.914	74.0	10	—	738BB	1429AV	1430AV	1434AV	—	—	1433AVBB	—
—	3	3.000	76.2	16	730-3	730BB-3	1821AV	1820AV	1434AV	—	1433AV	1433AVBB	—
—	3-1/8	3.125	79.4	16	730T	730TBB	1798AV	1797AV	1434AV	—	1433AV	1433AVBB	—
—	3-15/64	3.228	82.0	16	730E-82	730EBB-82	18905	18906	1434AV	—	1433AV	1433AVBB	—
3	3-1/2	3.539	89.8	10	—	739BB	1431AV	1432AV	1434AV	—	—	1433AVBB	—
—	3-5/8	3.625	92.0	16	730E-92	—	26333	26335	1434AV	—	1433AV	—	—
—	3-3/4	3.750	95.3	10	—	730PBB-3-3/4	4640AV	4641AV	1434AV	—	—	1433AVBB	—
—	3-25/32	3.779	96.0	16	730E-96	730EBB-96	21485	21486	1434AV	—	1433AV	1433AVBB	—
3-1/2	4	4.044	102.7	10	—	741BB	2982AV	2981AV	3026AV	—	—	3036AVBB	3037AV
4	4-1/2	4.544	115.4	10	—	742BB	2984AV	2983AV	3026AV	—	—	3036AVBB	3037AV
—	4-23/32	4.724	120.0	16	730E-120	730EBB-120	21489	21491	3026AV	—	3036AV	3036AVBB	3037AV
5	5-5/8	5.675	143.7	10	—	743BB	5135AV	5136AV	3026AV	—	—	3036AVBB	3037AV

731 Square Punches Wrench Operated - Capacity: 16 ga. mild steel





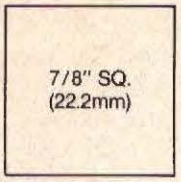
731-1/2



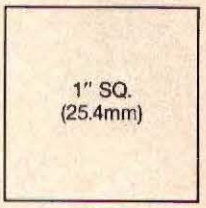
731-5/8



731-3/4



731-7/8



731-1

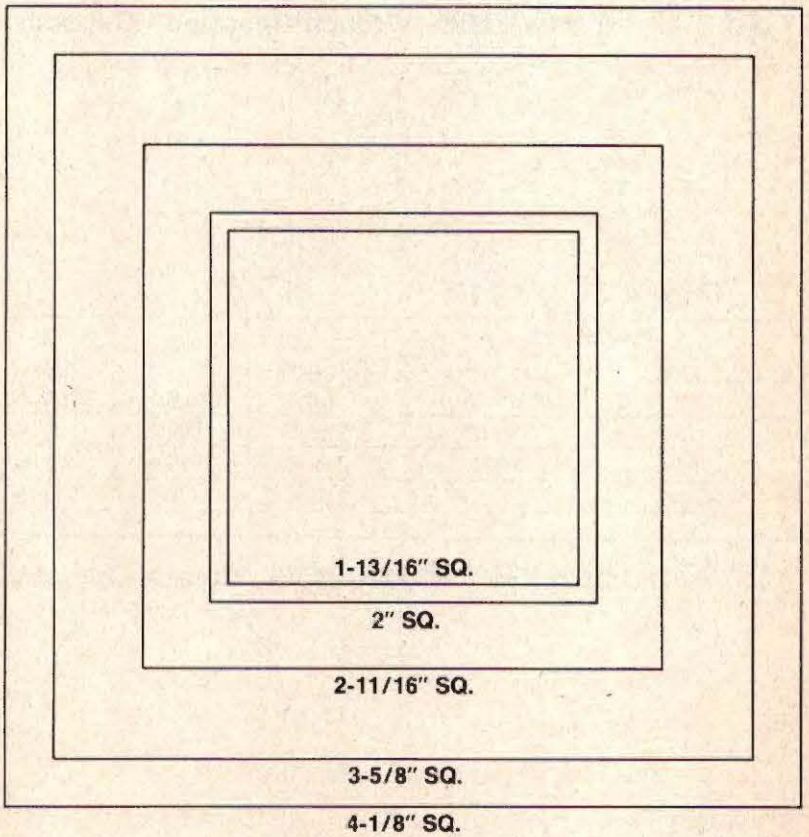
SIZE INCHES	METRIC	PUNCH SET CATALOG NO.	PUNCH SET NAED/DCI NO. 78-3310-	PUNCH NO.	DIE NO.	DRIVE SCREW NO.	NUT NO.
1/2"	12.7mm	**731-1/2**	00850	4595AV	4596AV	4597AV	4594AV
5/8"	15.9mm	**731-5/8**	00860	1 3037	1 3036	1 3038	2929AV
3/4"	19.1mm	**731-3/4**	00870	1 3040	1 3039	1 3031	2929AV
7/8"	22.2mm	**731-7/8**	00880	5452AV	5453AV	5454AV	2929AV
1"	25.4mm	**731-1**	00890	1 3042	1 3041	1 3043	2929AV

731 Square Punches For use with Hydraulic Punch Driver — Capacity: 10 ga. mild steel







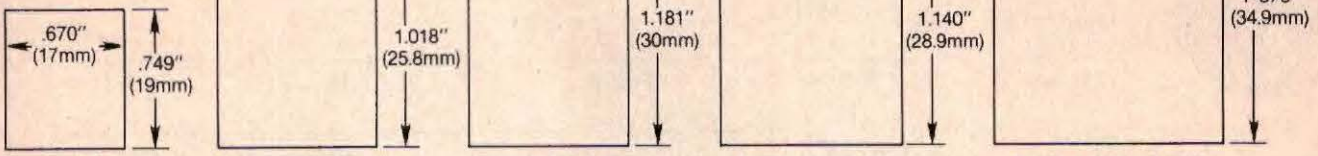


SIZE INCHES	METRIC	PUNCH SET CATALOG NO.	PUNCH SET NAED/DCI NO. 78-3310-	PUNCH NO.	DIE NO.	DRIVE SCREW NO.	NUT NO.	DIE SUPPORT NO.
1-13/16"	46mm	**731E46**	02400	2 2267	2 2680	2 2265	325AV	2 2681
2"	50.8mm	**731M**	00910	1 8585	1 6410	1 8436	2 4901	1 8586
2-11/16"	68mm	**731E68**	35120	2 7871	2 7873	1 8436	2 4901	1 8435
3-5/8"	92mm	**731E92**	02405	2 4686	2 4685	1 8570	1 8571	—
4-1/8"	104.8mm	**731S**	00970	1 8566	1 8567	1 8570	1 8571	—

GREENLEE® Rectangular "D" and "DD" Punches

731R Rectangular Punches Wrench Operated - Capacity: 16 ga. mild steel

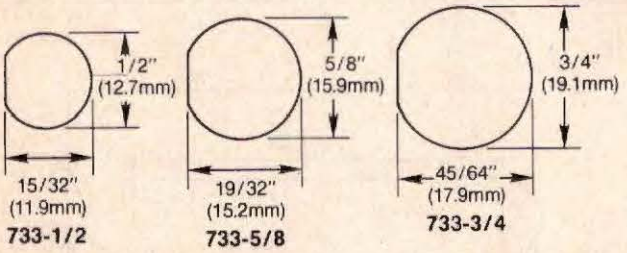




731RE-17 x 19 | 731R-1.018 x .861 | 731RE-22 x 30 | 731R-.99 x 1.14 | 731R-1-1/4 x 1-3/8

SIZE INCHES	METRIC	PUNCH SET CATALOG NO.	PUNCH SET NAED/DCI NO. 78-3310-	PUNCH NO.	DIE NO.	DIE SCREW NO.	DRIVE NUT NO.
.670" x .749"	17 x 19mm	**731RE 17 x 19**	00927	2 2201	2 2202	2 2203	2929AV
.861" x 1.018"	21.8 x 25.8mm	**731R 1.018 x .861**	00931	1 5116	1 5117	1 5118	2929AV
.866" x 1.181"	22 x 30mm	**731RE 22 x 30**	00930	2 2492	2 2494	2 3410	1388AV
.990" x 1.140"	25.1 x 28.9mm	**731R .99 x 1.14**	00920	2 1462	2 1463	2 1464	2929AV
1.25" x 1.375"	31.8 x 34.9mm	**731R 1-1/4 x 1-3/8**	00940	1 8856	1 8857	1 8858	2929AV

733 "D" Punches Wrench Operated - Capacity: 16 ga. mild steel

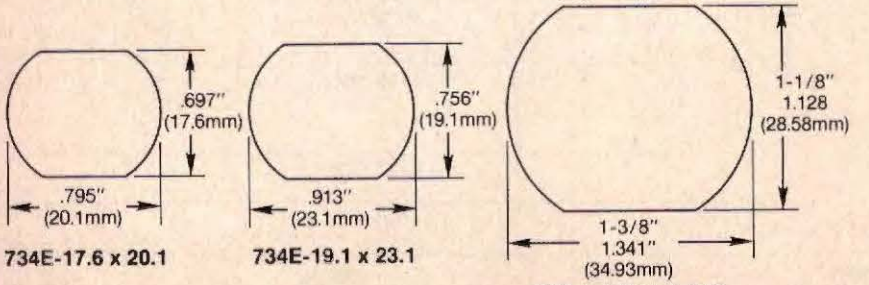


733-1/2 | 733-5/8 | 733-3/4



PUNCH SET CATALOG NO.	PUNCH SET NAED/DCI NO. 78-3310-	PUNCH NO.	DIE NO.	DRAW STUD NO.	NUT NO.
733-1/2	01110	3033AV	3032AV	3034AV	3035AV
733-5/8	01120	4240AV	4239AV	4241AV	3035AV
733-3/4	01130	3 0316	3 0317	2 0888	2929AV

734 Double "D" Punches Wrench Operated - Capacity: 16 ga. mild steel



734E-17.6 x 20.1 | 734E-19.1 x 23.1 | 734-1-1/8 x- 1-3/8

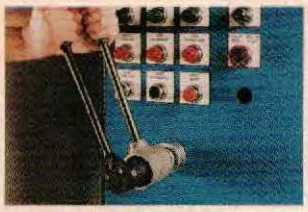


PUNCH SET CATALOG NO.	PUNCH SET NAED/DCI NO. 78-3310-	PUNCH NO.	DIE NO.	DRAW STUD NO.	NUT NO.
734-1-1/8 x 1-3/8	01150	5489AV	5490AV	5491AV	1388AV
734E-17.6 x 20.1	01140	2 1497	2 1498	2 1499	2929AV
734E-19.1 x 23.1	01145	2 1501	2 1502	2 1503	1388AV

HOLE PUNCHING

Oil Tight Punches — 1-7/32"





Cuts 1-7/32" hole for oil tight control units.

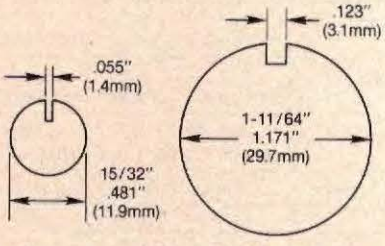
Complete Punch Set				
Cat. No.	NAED/DCI No. 78-3310-	Punch No.	Die No.	Draw Stud No.
1-7/32" Oil Tight Punch Set for 10 gauge Mild Steel				
730S	00650	4400AV	4401AV	249AV
1-7/32" Oil Tight Punch Set with Ball Bearing Draw Stud for use with 10 gauge Mild Steel				
730SBB	02315	4400AV	4401AV	249AVBB
1-7/32" Oil Tight Slug Splitter Punch Set for use with up to 10 ga. Stainless Steel with Hydraulic Punch Driver				
740H1-7/32	07405	2 9385	2 9386	2 9452

For other size round punches see pages 100 and 101.

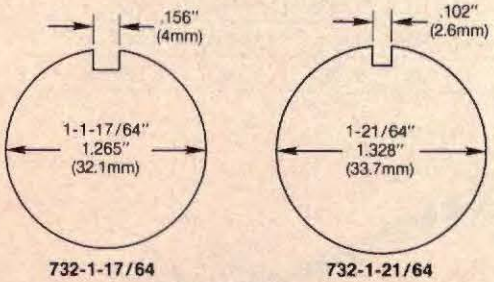
732 Key Punches

Wrench operated
Capacity: 16 Gauge Mild Steel





732-15/32 732-1-11/64



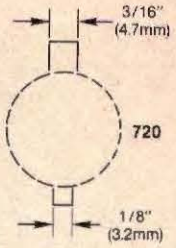
732-1-17/64 732-1-21/64

Cat. No.	NAED/DCI No. 78-3310-	Punch No.	Die No.	Draw Stud No.	Nut No.
732-15/32	01060	73253	73252	73251	4594AV
732-1-11/64	01064	3257AV	3256AV	3258AV	2929AV
732-1-17/64	01066	2976AV	2975AV	2977AV	2929AV
732-1-21/64	01068	3263AV	3262AV	3264AV	2929AV

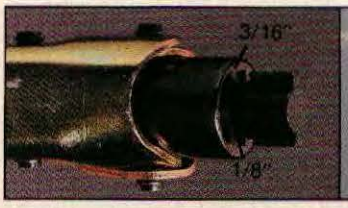
720 Keyway Punch

Capacity: 10 Gauge Mild Steel
Cuts Fast and Easy





- Cut 1/8" and 3/16" wide keyways with one tool.
- Eliminate tedious hand sawing and filing when you make keyways for oil-tight pushbutton switches.
- Cut 1/8" or 3/16" keyways in any pre-drilled or pre-punched hole 3/4" diameter or larger.



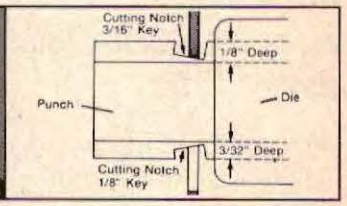
1. Locate proper cutting notch on the cutting head.



2. Place cutting notch inside edge of hole and cut keyway.



3. Withdraw the punch.



Use as a nibbler to make wider or deeper keyways.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
720	00485	Combination 1/8" & 3/16" Keyway Punch	2.8

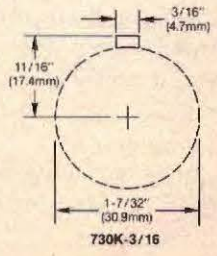
U.S.A. PATENT NO. 4375128

730K Keyway Punch Set

Wrench Operated
Capacity: 16 Gauge Mild Steel



Punches Keyway Only



730K-3/16

Cat. No.	NAED/DCI No. 78-3310-	Punch No.	Die No.	Draw Stud No.	Nut No.	Thrust Washer No.
730K 3/16	00585	2 0828	2 0829	2 1140	325AV	2 0830

Electronic Connector Panel Punches



For Fast Accurate Cut-Outs Every Time

- Cut-out and mounting slots are punched **in one operation.**
- Drill only one 7/16" pilot hole.
- Fast, accurate panel punching with no sawing or filing required.
- Use either manual wrench or hydraulic punch driver methods.
- Universal size punch for front or back mount of TRW Cinch and ITT Cannon-type or equivalent connectors in 9, 15, 25, 37 or 50-pin configurations.



Punches Panel Cut-Outs and Mounting Slots or Holes in One Step. Provides accurate, uniform mounting of connectors in panel cutout. **Eliminates hand drilling of mounting holes.** Requires only one 7/16" drilled pilot hole.

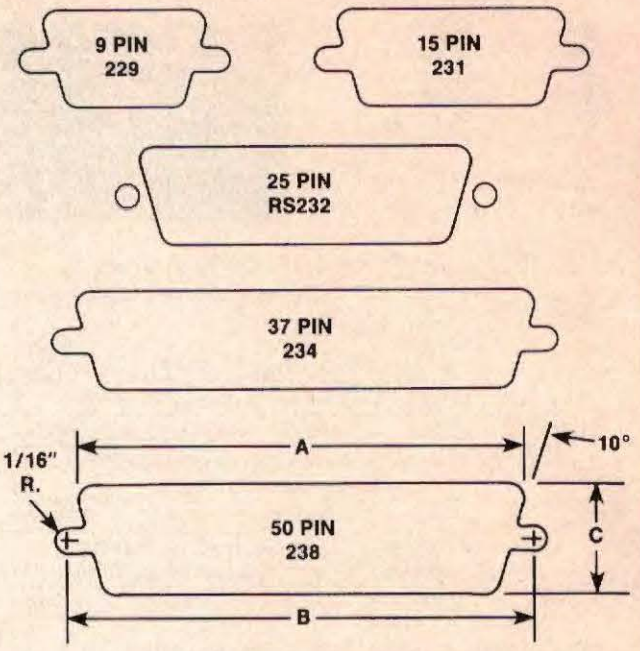


Easy Connector Removal. Front mounted connector slides through the panel cut-out **without disconnecting wires** for fast, easy servicing of equipment.



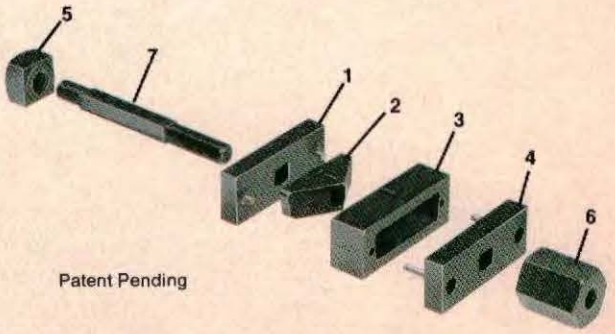
Save time and effort with Greenlee 7646 Hydraulic Driver when punching numerous holes.

ORDERING INFORMATION



Capacity: 22 ga (.8mm) mild steel thru 16 ga (1.5mm) mild steel and 1/8" (3.2mm) aluminum.

Cat. No.	229	231	RS232	234	238
NAED/DCI No. 78-3310-	32744	32751	01630	32758	32765
No. of Pins	9	15	25	37	50
Wt./Lbs.	1.4	1.5	1.2	2.0	1.9
"A"	.788" (20.0mm)	1.130" (28.7mm)	1.700" (43.2mm)	2.298" (58.4mm)	2.215" (56.3mm)
"B"	.984" (25.0mm)	1.312" (33.3mm)	1.850" (47.0mm)	2.500" (63.5mm)	2.406" (61.1mm)
"C"	.500" (12.7mm)	.500" (12.7mm)	.504" (12.8mm)	.500" (12.7mm)	.576" (14.6mm)
Punch Plate (1)	3 2740	3 2747	3 1500	3 2754	3 2759
Punch (2)	3 2738	3 2749	3 1491	3 2755	3 2762
Die (3)	3 2742	3 2748	3 1492	3 2756	3 2763
Die Plate (4)	3 2885	3 2886	3 1501	3 2887	3 2888
Square Nut (5)	0 4638	0 4638	0 4638	0 4638	0 4638
Drive Nut (6)	3 2766	3 2766	3 1497	3 2766	3 2766
Stud (7)	3 2767	3 2767	3 1494	3 2767	3 2767



Patent Pending

Hydraulic Hose Selection Guide

Tool	Hydraulic Pump					
	755	767	1725	1726	915PS, 975	960 SAPS, 980
750 Cable Cutter	—	1 5627	2 3954	—	1 7707	—
777 Bender	1 1289	—	—	—	1 1289	1 1289
782 Bender	1 1289	—	—	—	1 1289	—
800 Bender	—	—	2 3954	—	—	—
880 Bender	1 1289	—	—	—	1 1289	1 1289
881 Bender	—	—	—	—	—	1 1289
882 Bender	1 1289	—	—	—	1 1289	—
883 Bender	1 1289	—	—	—	1 1289	1 1289
884 Bender	—	—	—	1 1289	—	1 1289
885 Bender	—	—	—	1 1289	—	1 1289
1731 Punch Driver	—	1 5627	2 3954	—	1 1289	—
1732 Punch Driver	1 1289	—	—	—	1 1289	—
7306 Punch Driver	—	1 5627	—	—	—	—
7310 Punch Driver	—	1 5627	—	—	—	—
7506 Punch Driver	—	1 5627	—	—	—	—
7606 Punch Driver	—	—	2 3954	—	—	—
7610 Punch Driver	—	—	2 3954	—	—	—
7625 Punch Driver	—	—	2 3954	—	—	—
7646 Punch Driver	—	1 5627	—	—	—	—



Replacement Hoses

Cat. No.	NAED/DCI No. 78-3310-	Description
1 7707	**06010**	**1/4" x 10' High-Pressure Hose Unit Includes:** Note: Hose comes filled with hydraulic oil ready to use.
5 2515	52515	1/4" x 10' High-Pressure Hose
5 0280	06154	1/4" Male Coupler (1)
5 0315	50315	1/4" Dust Cap for Male Coupler (1)
1133GB	50426	1/4" x 3/8" Reducer Bushing
4033GB	13040	3/8" Male Couplers with Dust Caps (1)
5 1156	51156	Dust Cap for Male Coupler (1)
1 5627	**06005**	**1/4" x 3' High-Pressure Hose Unit Includes:**
921GB	12830	1/4" x 3' High-Pressure Hose
5 0280	06154	1/4" Male Coupler (1)
5 0315	50315	1/4" Dust Cap for Male Coupler (1)
2 0483	**06200**	**1/4" x 6' High-Pressure Hose Unit Includes:**
5 1688	06168	1/4" x 6' High-Pressure Hose
5 0280	06154	1/4" Male Coupler (1)
5 0315	50315	1/4" Dust Cap for Male Coupler (1)
2 3954	**08335**	**1/4" x 10' High-Pressure Hose Unit Includes:** Note: Hose comes filled with hydraulic oil ready to use.
5 2515	52515	1/4" x 10' High-Pressure Hose
5 0280	06154	1/4" Male Coupler (2)
5 0315	50315	1/4" Dust Cap for Male Coupler (2)
1 1289	**12905**	**3/8" x 6' High-Pressure Hose Unit Includes:** Note: Hose comes filled with hydraulic oil ready to use.
3687GB	50760	6' High-Pressure Hose
4033GB	13040	Male Couplers with Dust Caps (2)
51156	51156	3/8" Dust Cap (2)

Couplers

Cat. No.	NAED/DCI No. 78-3310-	Description
1 5688	**05192**	**1/4" High-Pressure Quick Coupler Includes:**
5 0259	05186	Female Coupler
5 0314	50314	Dust Plug for Female Coupler
5 0280	06154	Male Coupler
5 0315	50315	Dust cap for Male Coupler
5 0326	06160	1/4" Hex Nipple
3548GB	**12915**	**3/8" High-Pressure Quick Coupler Includes:**
4018GB	05167	Female Coupler with Dust Cap
4063GB	50109	Dust Cap for Female Coupler
4033GB	13040	Male Coupler with Dust Cap
5 1156	51156	Dust Cap for Male Coupler

Hydraulic Oil



- Greenlee-approved hydraulic oil.
- Specially compounded for use with Greenlee hydraulic equipment.
- Refinery-filtered to give you the finest oil available.

NOTE: For best operation . . . and for protection of your Greenlee hydraulic-powered equipment, use Greenlee hydraulic oil only. (**Do not use** hydraulic brake fluid, shock absorber fluid, alcohol, glycerine, caster oil or other non-specified fluid—as they reduce performance and can cause damage to pumps and equipment.) Use of improper fluids waives the guarantee on Greenlee hydraulic equipment.

Cat. No.	NAED/DCI No. 78-3310-	Description
4016GB	51059	One Gallon Hydraulic Oil
4017GB	50806	One Quart Hydraulic Oil

Hydraulic Pump Selection Guide

USE WITH CAT. NO.	Benders							Electricians Knockouts							Cable Cutters/Benders	
	800	777	884	882	782	881	885	1731	1732	7646	7306	7310	7606	7610	750	800
Power Pumps																
915PS	X	X	–	X	X	–	–	X	X	–	–	–	–	–	X	–
975	X	X	–	X	X	–	–	X	X	–	–	–	–	–	X	–
960SAPS	X	X	X	X	X	X	X	–	–	–	–	–	–	–	–	–
980	X	X	X	X	X	X	X	–	–	–	–	–	–	–	–	–
Hand Pumps																
767	–	–	–	–	–	–	–	X	–	X	X	X	X	X	X	–
755	X	X	–	X	X	–	–	–	X	–	–	–	–	–	–	–
1726	–	–	X	–	–	X	X	–	–	–	–	–	–	–	–	–
Foot Pump																
1725	–	–	–	–	–	–	–	X	–	X	X	X	X	X	X	X

767 Hydraulic Hand Pump



- Lightweight, only 6 pounds.
- Portable, requires no electricity.
- Versatile, operates in vertical or horizontal position.
- Powerful, develops up to 6500 p.s.i. at .082 cubic inch per stroke.
- Single speed.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
767	12810	Hydraulic Hand Pump	6.0

755 Hydraulic High Pressure Hand Pump



- Portable, can be operated manually in vertical or horizontal position.
- Powerful, develops up to 10,000 p.s.i. at .161 cubic inch per stroke.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
755	12805	High Pressure Hydraulic Hand Pump with 3/8" female quick coupler	20

1726 Two Speed High Pressure Hand Pump



- Two speed, low pressure .580 cubic inches per stroke for fast approach automatically changes to high pressure, .147 cubic inches per stroke as required.
- Portable, requires no electricity.
- Large fluid capacity for use with big bender.
- Powerful, 10,000 p.s.i.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1726	12815	Two Speed High Pressure Hydraulic Hand Pump with 3/8" female quick coupler	25.2

1725 Hydraulic Foot Pump



- Frees both hands to guide and position the working tool.
- Develops 6500 p.s.i. and .161 cubic inches per stroke.
- Foot activated release lever.
- Hold down pin keeps pedal down for storage.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
1725	12814	Foot Pump with 1/4" female quick coupler	11

915PS Hydraulic Power Pump



- 1/2 horsepower permanent magnet motor delivers 150 cubic inches per minute at rapid advance, 12 cubic inches per minute at 10,000 p.s.i.
- Pendant control for advance, valve on pump for release.
- For use with single hose hydraulic systems with spring return rams.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
915PS	12825	Electric Powered Hydraulic Pump with 3/8" female quick coupler	30

975 Hydraulic Power Pump



- 1/2 horsepower motor delivers 250 cubic inches at rapid advance, 18 cubic inches at 10,000 p.s.i.
- Automatic or manual ram return selector valve provides more control from the pendant switch.
- Molded enclosure protects pump, motor and circuitry in tough working environments.
- For use with single hose hydraulic systems with spring return rams.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
975	33516	Electric Powered Hydraulic Pump with 3/8" female quick coupler	51

960 SAPS Hydraulic Power Pump



- 1-1/2 horsepower motor delivers 300 cubic inches per minute at rapid advance, 50 cubic inches per minute at 10,000 p.s.i.
- Low pressure for fast ram advance automatically changes to low volume high pressure.
- Pendant control for advance, valve on pump for release.
- For use with single hose hydraulic systems with spring return rams.
- Equipped with four swivel casters.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
960 SAPS	12840	Electric Powered Hydraulic Pump with 3/8" female quick coupler	92

980 Hydraulic Power Pump



- 1-1/2 horsepower motor delivers 250 cubic inches per minute at rapid advance, 54 cubic inches per minute at 10,000 p.s.i.
- Low voltage pendant coupled to solid state motor controls eliminates contact arcing for greater reliability and longer life.
- Automatic or manual ram return selector valve provides more control from the pendant switch.
- Molded enclosure protects pump motor and circuitry in tough working environments.
- For use with single hose hydraulic systems with spring return rams.

Cat. No.	NAED/DCI No. 78-3310-	Description	Wt./Lbs.
980	33515	Electric Powered Hydraulic Pump with 3/8" female quick coupler	71

Specifications

Cat. No.	Power Source			Volume (cu. in./min.)			Reservoir Capacity	Usable Oil Volume (qt)	Dimensions		Wt. (lb.)
	HP	Volts	Type	Rapid Advance	5,000 psi	10,000 psi	(qt)		Height	Base Size	
915	1/2 app.	115	AC 60/50hz	150	12	13	2-1/2	2	11-3/8"	8" x 8"	30
975	1/2	115	AC 60hz	250	19	18	6	3	15-1/2"	10" x 12"	51
960	1-1/2	115	AC 60hz	300	50	54	8	6-1/4	22-5/16"	12" x 10-3/4"	92
980	1-1/2	115	AC 60hz	250	54	54	8	6	17-1/2"	12" x 12"	71

Pump Application Guide

The following chart provides the approximate pump cycle time required to bend, punch or cut the maximum size of conduit knockout, or cable for which the unit is rated. (min : sec)

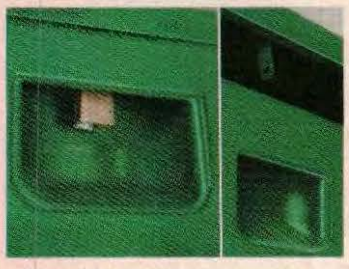
Cat. No.	Greenlee Benders					Punch Drivers		Cable Cutter
	2" One-Shot			4" One-Shot				
	882	880	777	881CT	884/885	1731	1732	750
915	1:00	1:15	2:15	NA	NA	0:09	0:18	0:07
975	0:50	1:05	1:45	4:45	6:00	0:05	0:10	0:06
960	0:20	0:30	0:45	1:45	2:00	NA	NA	NA
980	0:20	0:30	0:45	1:45	2:00	NA	NA	NA

NA: Not Applicable ☐ Recommended Pumps

For Storage and Security . . . Job Site Tough!



FEATURES:



Concealed, patented lock protector shields padlocks from weather, bolt cutters, chisels, hammers and pry bars.



Heavy-duty continuous hinges with non-removable pins for added security.



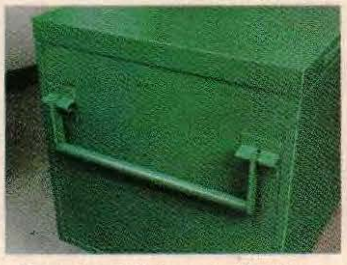
Overlapping, rolled edges protect against weather and break-ins.



16 gauge steel welded construction with wrap around corners.



Built-in skids, (pre-tapped for casters) give added strength and mobility.



Convenient, fold-down steel handles.



Treated with iron phosphate rust inhibitor and coated with durable, baked enamel green finish.



Sturdy, folding steel lid braces.

Caster Sets



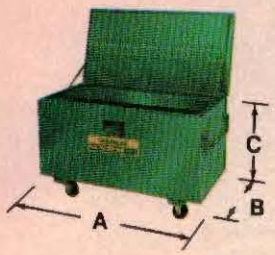
666/695 503/603

For 626, 628, 663, 665, 667, 679 and 689						
Cat. No.	NAED/ DCI 78-3310	Description	WHEEL Dia.	WHEEL Tread	Cap. Per Wheel Lbs.	Ship. Wt. Lbs.
666	11170	2 Rigid 2 Swivel	4"	2"	400	13
695	10818	2 Rigid 2 Swivel	4"	2"	375	10

For 668 Pipe Rack and 669S Utility Cabinet						
Cat. No.	NAED/ DCI 78-3310	Description	WHEEL Dia.	WHEEL Tread	Cap. Per Wheel Lbs.	Ship. Wt. Lbs.
503	01810	4 Swivel	6"	2"	500	22
603	11215	2 Rigid 2 Swivel	6"	2"	500	20

For Security and Durability . . .

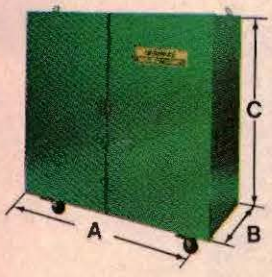
STORAGE BOXES



PIANO BOXES



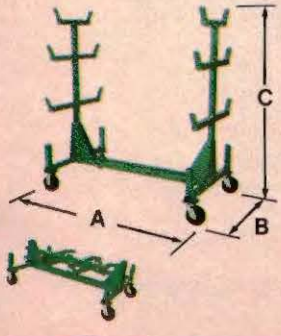
UTILITY CABINET



MOBILE WORK BOX



CONDUIT RACK



STORAGE BOXES

Cat. No.	NAED/ DCI No. 78-3310	Size/ Capacity	DIMENSIONS A	B	C	D	Casters	No. of Shelves	Lock Protec-tors	Ship. Wt. Lbs.	Features
693	10890	4.1 cu. ft.	30"	16"	15"	—	—	—	—	48	Welder's Box with cut-out for hoses. Lock hasp.
667	11165	4.5 cu. ft.	31"	18"	15"	—	—	—	—	54	Lock hasp.
664	10280	9.7 cu. ft.	42"	20"	20"	—	(OPT) 695/666	—	1	112	Lock protector.
665	11160	16 cu. ft.	48"	24"	24"	—	(OPT) 695/666	1	1	144	Lock protector.
628	11152	20 cu. ft.	60"	24"	24"	—	(OPT) 695/666	1	2	182	Dual lock protectors.
626	11154	25 cu. ft.	48"	30"	30"	—	(OPT) 695/666	1	1	190	Lock protector.

PIANO BOXES

Cat. No.	NAED/ DCI No. 78-3310	Size/ Capacity	DIMENSIONS A	B	C	D	Casters	No. of Shelves	Lock Protec-tors	Ship. Wt. Lbs.	Features
663	11150	34 cu. ft.	60"	32"	36"	22"	(OPT) 695/666	1	2	232	Dual lock protectors. Slant top.
679	11145	34 cu. ft.	48"	30"	48"	36"	(OPT) 695/666	2	1	259	Lock protector. Cover folds up and away.
689	11157	49 cu. ft.	60"	30"	48"	36"	(OPT) 695/666	2	2	288	Dual lock protectors. Cover folds up and away.

UTILITY CABINET

Cat. No.	NAED/ DCI No. 78-3310	Size/ Capacity	DIMENSIONS A	B	C	D	Casters	No. of Shelves	Lock Protec-tors	Ship. Wt. Lbs.	Features
669S	11210	46 cu. ft.	60"	24"	56"	—	(OPT) 503/603	4	—	420	Center post hasp. Eyelets for lifting.

MOBILE WORK BOX

Cat. No.	NAED/ DCI No. 78-3310	Size/ Capacity	DIMENSIONS A	B	C	D	Casters	No. of Shelves	Lock Protec-tors	Ship. Wt. Lbs.	Features
696S	10911	23 cu. ft.	48"	24"	35"	—	(INCLD) 603	3	—	267	Top work surface with vise. Post Hasp.

MOBILE CONDUIT AND PIPE RACK

Cat. No.	NAED/ DCI No. 78-3310	Size/ Capacity	DIMENSIONS A	B	C	D	Casters	No. of Shelves	Lock Protec-tors	Ship. Wt. Lbs.	Features
668	11205	1000 lbs.	58½"	34"	58"	—	(OPT) 503/603	—	—	100	Folds down to 61" x 34" x 15½"

GREENLEE®

Authorized Warranty Service Stations

FACTORY SERVICE
Rockford, IL 61108
1-800/435-2932

ALABAMA

BIRMINGHAM
Bama Tool Repair (MEH*)
4767 1st Ave. No. 35222
Ph. 205/591-8456

MOBILE
Smith Power Tool Co. (MEH)
2503 Commercial Park Dr. 36606
Ph. 205/478-3335

ALASKA

ANCHORAGE
Hayden Electric Motors, Inc. (ME*)
4109 Old Seward Hwy. 99503
Ph. 907/561-1073

ARIZONA

PHOENIX
Glenn's Tool Service (MEH*)
4036 No. 13th Way 85014
Ph. 602/264-6203

ARKANSAS

LITTLE ROCK
Clark Hydraulic Service (MEH*)
2901 Confederate Blvd. 72206
Ph. 501/375-1252

CALIFORNIA

ANAHEIM
Jack-X-Change (MEH*)
1556 W. Embassy 92802
Ph. 213/860-1417

FRESNO
Kimmerle Brothers (MEH*)
337 M St. 93721
Ph. 209/233-1278

NATIONAL CITY
A-1 Hydraulic Service (MEH*)
1904 Cleveland Ave. 92050
Ph. 619/474-8491

SACRAMENTO
Cisco Air Systems, Inc. (ME)
1211 C. St. 95814
Ph. 916/444-2525

SAN FRANCISCO
Kimmerle Brothers (MEH*)
226 11th St. 94103
Ph. 415/431-1163

SANTA ANA
Alexander Power Tools (MEH)
1706 S. Grand Ave. 92705
Ph. 714/541-6631

SANTA FE SPRINGS
Kimmerle Brothers (MEH*)
12060 E. Florence 90670
Ph. 213/946-6771

SO. SAN FRANCISCO
Sheppard Sales Co. (MEH)
235 Utah Ave. 94080
Ph. 415/583-4006

COLORADO

COMMERCE CITY
Hy-Tech Hydraulics, Inc. (MH)
6764 Brighton Blvd. 80022
Ph. 303/287-1313

DENVER
Ace Industries (ME*)
4190 Garfield St. 80216
Ph. 303/355-1623

Tools, Inc. (MEH)
211 Wyandot St. 80223
Ph. 303/744-2779

ENGLEWOOD
Graham Inc. (MH)
2777 S. Tejon 80110
Ph. 303/761-6363

CONNECTICUT

EAST HARTFORD
Heldman Tool Supply Co. (MEH)
75 Charles St. 06108
Ph. 203/289-2727

GUILFORD
The Tool Crib (MEH)
2405 Boston Post Rd. 06437
Ph. 203/453-3371

STAFFORD SPRINGS
John the Jack Man Co. (MEH*)
West Main St. (Rte. 190) 06076
Ph. 203/684-3545

FLORIDA

FT. LAUDERDALE
Broward Hydraulic Jack Service (MEH*)
3907 S.W. 12th Court 33312
Ph. 305/583-2504

JACKSONVILLE
Quality Tool Repair Co. (MEH)
1540 East 8th St. 32206
Ph. 904/354-3443

MIAMI
Miami Equipment Repair Co., Inc. (MEH)
1927 N.W. 36th St. 33142
Ph. 305/635-2313

ORLANDO
Hydraulic Service & Parts (MEH)
333 Norton Ave. 32805
Ph. 305/422-4826

TAMPA
Southern Hydraulic Service, Inc. (H*)
1502 E. Columbus Dr. 33605
Ph. 813/248-2579

GEORGIA

ATLANTA
Atlanta Hydraulic Repair Service (MEH*)
1206 Sylvan S.W. 30310
Ph. 404/755-7336

Power Tool Service Co. (MEH)
249 Simpson St. 30313
Ph. 404/524-0202

COVINGTON
Anew Sales & Service (MEH)
2329 Hwy. 81 South 30209
Ph. 404/786-8815

HAWAII

HONOLULU
Central Sales & Service (MEH)
687 Auahi St. 96804
Ph. 808/536-2255

IDAHO

BOISE
Twilann Inc. (MH)
106 E. 35th St. 83714
Ph. 208/344-4534

ILLINOIS

BERWYN
Jack's Inc. (MEH*)
6642 W. 26th St. 60402
Ph. 312/788-4300

CHICAGO
Servall Engineering Co. (MEH*)
3937 N. Kedzie Ave. 60618
Ph. 312/588-7181

ELK GROVE VILLAGE
Brock Tool Co. (MEH)
1475 Louis Ave. 60007
Ph. 312/956-7200

LYONS
Chicago Jack Service (ME*)
8346 W. 47th St. 60534
Ph. 312/442-7220

McCOOK
Recco Tool and Supply (MEH)
8805 Joliet Road 60525
Ph. 312/442-7850

ROCKFORD
Moline Service Center (H)
2201 Range Rd. 61111
Ph. 815/877-1777

INDIANA

EVANSVILLE
Hydraulic Jack Service (MEH*)
601 N. Fulton Ave. 47710
Ph. 812/423-4891

FORT WAYNE
ABC Specialty Co. (MH*)
1075 Kenwood Ave. 46805
Ph. 219/483-8913

INDIANAPOLIS
Anderson Brothers Tool Repair (MEH)
3531 Southeastern Ave. 46203
Ph. 317/356-6381

S & J Tool Repair (MEH)
2123 N. Martindale Ave. 46202
Ph. 317/923-3027

IOWA

DES MOINES
3 E Service Center (MEH)
1808 Delaware Ave. 50317
Ph. 515/266-8890

Turner's Hydraulic Service (H)
3011 6th Ave. 50313
Ph. 515/282-8381

KANSAS

WICHITA
Wichita Air & Hydraulic Service (MEH*)
2002 W. 2nd 67203
Ph. 316/267-1275

KENTUCKY

LOUISVILLE
Bailey Tool and Supply Co. Inc. (MEH)
1418 So. Shelby St. 40217
Ph. 502/635-6348

Queen Hydraulics (MEH*)
1206 Rowan St. 40203
Ph. 502/587-0808

LOUISIANA

NEW ORLEANS
Beerman Precision, Inc. (MEH*)
4206 Howard Ave. 70153
Ph. 504/486-9391

MARYLAND

BALTIMORE
Holdridge Engineering Co. (MEH)
2406-8-10 Alsquith St. 21218
Ph. 301/467-0815

Tool Repair Unliminted, Inc. (MEH)
7984 E. Baltimore St. 21224
Ph. 301/288-0899

MASSACHUSETTS

ARLINGTON
New England Hydraulic Service Co. (MEH*)
1474-B Massachusetts Ave. 02174
Ph. 617/641-1300

BRIGHTON
Howard C. O'Brien Inc. (MEH)
102 Lincoln St. 02135
Ph. 617/782-2161

SPRINGFIELD
Block Hydraulic Jack Service (MH*)
321 Albany St. 01105
Ph. 413/734-3492

MICHIGAN

ESCANABA
B & B Tool Service & Supply Co. (MEH)
1650 17.4 Rd. 49829
Ph. 906/786-0521

GRAND RAPIDS
Grand Valley Hydraulics, Inc. (MEH)
449 Grandville Rd. 49503
Ph. 616/459-6339

LIVONIA
Brock Tool of Detroit, Inc. (MEH)
3190 Industrial Road 48150
Ph. 313/261-9333

TROY
Quality Tool & Equipment Repair (MEH)
1260 Souter Blvd. 48084
Ph. 313/589-0699

WARREN
Hydraulic Service, Inc. (MEH)
21251 Ryan Rd. 48091
Ph. 313/758-0100

MINNESOTA

MINNEAPOLIS
Hydraulic Jack & Equipment Service (MEH)
2601 Aldrich Ave. South 55408
Ph. 612/872-7177

ST. PAUL
Doster Sales (MEH)
1481 Marshall Ave. 55104
Ph. 612/644-3144

MISSISSIPPI

JACKSON
Dixie Hydraulic Service, Inc. (MH*)
1640 South Gallatin St. 39204
Ph. 601/948-5103

MISSOURI

NORTH KANSAS CITY
Harry L. Nolte Co. (MEH)
1221 Clay Ave. 64116
Ph. 816/842-8070

ST. LOUIS
Arrow Hydraulic Co. (MEH)
710 S. Newstead Ave. 63110
Ph. 314/371-3035

Authorized Equipment Service (MEH*)
3200 Chouteau Ave. 63103
Ph. 314/772-8024

NEBRASKA

LINCOLN
Northwest Electric, Inc. (MEH*)
1820 Cornhusker Hwy. 68124
Ph. 402/474-1112

OMAHA
Midwest Hydraulic Tool Corp. (MEH)
4401 S. 87th St. 68127
Ph. 402/331-1441

Type of Service Key M = Mechanical, E = Electrical, H = Hydraulic, *Member ESA Equipment Service Association.

GREENLEE®

Authorized Warranty Service Stations

NEVADA

LAS VEGAS
R.K. Sales & Service (MEH)
4205 W. Tompkins Ave. #6 89103
Ph. 702/362-3124

RENO
Borgman Repair Service (MEH*)
976 Termina Way 89502
Ph. 702/329-7897

NEW JERSEY

GLOUESTER CITY
Industrial Services (MEH)
502 S. Broadway 08030
Ph. 609/456-0336

KEYPORT
Semcor Equipment and Mfg. Corp. (MEH)
18 Madison St. 07735
Ph. 210/264-6080

NEWARK
Metro Hydraulic Jack Co. (MEH)
52 Elm St. 07105
Ph. 201/589-4663

NEW MEXICO

ALBUQUERQUE
J.M. Tool Repair (MEH)
320 Florida S.E. 87108
Ph. 505/255-2304

NEW YORK

BRONX
Modern Suppliers Inc. (MEH)
1090 Leggett Ave. 10459
Ph. 212/328-8000

BUFFALO
Buffalo Hydraulic Jack Service (MEH)
488 Walden Ave. 14211
Ph. 716/893-6510

SS Electric Repair Shop, Inc. (MEH)
2470 Seneca St. 14210
Ph. 716/823-1232

LONG ISLAND CITY
Belco (MEH)
3801 29th St. 11101
Ph. 718/361-1122

PORT CHESTER
Pelham Tool Co. (MEH)
21 Aberdroth Ave. 10573
Ph. 914/937-1771

RENSSELAER
Albany Hydraulic & Lube Service, Inc. (MEH*)
98A Columbia Turnpike 12144
Ph. 518/462-5425

ROCHESTER
Roller-Shea Electric (MEH)
622 Hollenbeck St. 16421
Ph. 716/338-3390

SYRACUSE
Syracuse Industrial Sales Co. (MEH)
713 E. Fayette St. 13217
Ph. 315/478-5751

NORTH CAROLINA

GREENSBORO
Carolina Jack & Equipment Co. (MEH)
3310 E. Wendover Ave. 27405
Ph. 919/375-6050

OHIO

CINCINNATI
Eureka Tool & Hydraulic Service, Inc. (MEH*)
3818 N. Bend Rd. (Rear) 45211
Ph. 513/661-3244

CLEVELAND
Ohio Hydraulic Jack Service (MEH*)
3826 Payne Ave. 44114
Ph. 216/361-1828

A & A Hydraulic Repair (MEH*)
2735 Scranton Rd. 44113
Ph. 216/621-1133

COLUMBUS
Central Ohio Power Tool (MEH)
532 W. Rich St. 43215
Ph. 614/224-8665

MIAMITOWN
Brenco (MEH)
6082 4th St., Rt. #128 45041
Ph. 513/353-1366

OKLAHOMA

OKLAHOMA CITY
Commercial Tool Repair (MEH)
340 S. Vermont #123 73108
Ph. 405/947-2226

TULSA
Macs Hydraulic Jack Service (MEH*)
2108 E. 11th St. 74104
Ph. 918/592-0525

OREGON

PORTLAND
Karn Repair Service, Inc. (MEH)
1215 S.W. 16th Ave. 97205
Ph. 503/228-8313

Precision Hydraulics (MH)
335 N.W. St. Helens Hwy. 97210
Ph. 503/228-7133

PENNSYLVANIA

ABINGTON
Repair Unlimited, Inc. (MEH)
1730 Rockwell Rd. 19001
Ph. 215/657-3335

BETHLEHEM
Albarell Tool Div. (ME)
1523 Easton Ave. 18017
Ph. 215/691-7030

MECHANICSBURG
Power Tool Service Div. of Drive Koor (MEH)
34 W. Allen St. 17055
Ph. 717/697-8233

PHILADELPHIA
Auto Wheel & Rim Co. (MEH)
2731 E. Castor Ave. 19134
Ph. 215/288-9221

PITTSBURGH
D-Mac Tool Service Inc. (MEH)
3500 Liberty Ave. 15201
Ph. 412/682-3622

J & M Hydraulic Service (MEH*)
4063 Liberty Ave. 15224
Ph. 412/682-4554

Lappe Supply (MEH)
85 S. 24th St. (South Side) 15203
Ph. 412/481-0600

Tri-State Hydraulic Service (MH*)
5007 Lytle St. 15207
Ph. 412/421-6200

WEST MIFFLIN
A 1 Tool Maintenance (MEH)
2016 Lebanon Road
Rent A Spot Industrial Park 15122
Ph. 412/653-2123

RHODE ISLAND

WARWICK
Tri-Power Sales & Service (MEH)
64 Minnesota Ave. 02888
Ph. 401/732-3390

TENNESSEE

CHATTANOOGA
Hydraulic Jack Service Co., Inc. (MEH*)
910-C Creekside Dr. 37401
Ph. 615/622-8282

KNOXVILLE
Lubrication Equipment Serv. (MEH)
808 E. Magnolia St. 37917
Ph. 615/525-8401

MEMPHIS
Authorized Equipment Service (MEH*)
812 Polk Ave. 38126
Ph. 901/774-0850

NASHVILLE
Johnson & White Equipment Service (MEH*)
1104 - 4th Ave. South 37210
Ph. 615/256-0443

TEXAS

DALLAS
Hydraulic Service & Supplies (MEH*)
100 Howell St. 75207
Ph. 214/748-6015

Service Tool and Supply Co. (MEH*)
1225 N. Industrial Blvd. 75207
Ph. 214/747-4985

Southwestern Jack Service Co. (MEH*)
3309 Commerce Dr. 75226
Ph. 214/748-2844

FORT WORTH
Fort Worth Bolt and Tool Co. (MEH)
2822 Bledsoe St. 76107
Ph. 817/335-3361

HOUSTON
Hydraulic Equipment Service Co. (MEH*)
1011 Rothwell St. 77002
Ph. 713/228-9601

Jones Hydraulic Service, Inc. (MH)
5955 Armour Drive 77020
Ph. 713/674-9571

LUBBOCK
Hydraulic Equipment Service Co. (MEH)
328 Ave. H 79401
Ph. 806/763-7621

SAN ANTONIO
Mueller Hydraulic & Tool Repair (MEH)
515 N. Hackberry St. 78202
Ph. 512/224-5271

UTAH

SALT LAKE CITY
Gustin Hydraulics (MEH)
151 W. Commonwealth Ave. 84115
Ph. 801/487-0624

VIRGINIA

ALEXANDRIA
D & S Repair Service, Inc. (MEH*)
20 S. Dove St. 22314
Ph. 703/683-0009

CHESAPEAKE
Associated Machine Works (MEH*)
820 Greenbrier Circle #17 23320
Ph. 804/523-0500

RICHMOND
Moore's Jack & Equipment Service (MEH)
2406 N. Lombardy St. 23220
Ph. 804/321-6623

SALEM
Capital Equipment Sales (H)
1435 Lakeside Circle Suite 7C 24153
Ph. 703/387-0473

WASHINGTON

SEATTLE
Universal Repair Shop (MEH*)
1611 Boylston Ave. 98122
Ph. 206/322-2726

SPOKANE
Safway Repair (MEH*)
1503 East Riverside Ave. 99202
Ph. 509/535-9841

WISCONSIN

GREEN BAY
Mac's Hydraulic Parts & Service (MEH*)
2785 Manitowoc Rd. 54301
Ph. 414/465-1313

MILWAUKEE
Power Tools & Equipment (MEH*)
2934 W. Burnham St. 53215
Ph. 414/384-0404

PUERTO RICO

CAPARRA HEIGHTS
Isla Supply Corp. (MH*)
P.O. Box P 00922
Ph. 809/761-7355

CANADA

CALGARY, ALBERTA
Hydra-Tech, Inc. (MH*)
Bay 12, 4826 11th St. N.E. T2E 2W7
Ph. 403/250-7400

DARTMOUTH, NOVA SCOTIA
Seaboard Industrial Supply (MEH)
45 Wright Ave. B3B 1G9
Ph. 902/463-3351

EDMONTON, ALBERTA
Bruce "N" Co. (MEH)
Power Tool Co. Ltd.
5414 97th St. T6E 5W5
Ph. 403/435-3921

HAMILTON, ONTARIO
Hydraulic Service Centre (MEH)
495 Renne L8H 3P6
Ph. 416/545-8211

MONTREAL, QUEBEC
Inolec, Inc. (MEH)
8948 Rue Lajenuesse St. H2M 1R9
Ph. 514/384-9021

OTTAWA, ONTARIO
Moham Electric Ltd. (MEH)
949-B Gladstone Ave. K1Y 3E5
Ph. 613/729-1439

SASKATOON, SASKATCHEWAN
Ted's Power Tool Repair Ltd. (MEH)
426 - 44th St. East S7K 0W1
Ph. 306/934-6155

SCARBOROUGH, ONTARIO
The Tool Doctor Ltd. (MEH)
135 Midwest Road M1P 3A6
Ph. 416/751-3530

STE-FOY, QUEBEC
Electro-Mecanik, Inc. (MEH)
445 Rue Marconi G1N 4A7
Ph. 418/683-1724

THUNDER BAY, ONTARIO
Equipment World Inc. (MEH)
988 Alloy Drive P7B 6A5
Ph. 807/623-9561

VANCOUVER, BRITISH COLUMBIA
Armature Electric Ltd. (MEH*)
275 W. 4th Ave. V5Y 1G8
Ph. 604/879-6141

WINNIPEG, MANITOBA
Lucus Fluid Power (MH)
865 Wall St. R3G 2T9
Ph. 204/786-7436

Type of Service Key M = Mechanical, E = Electrical, H = Hydraulic, *Member ESA Equipment Service Association.

GLOSSARY

CABLE GRIPS . . .
Device to link pulling rope to cable during a pull.

CAPSTAN . . .
The turning drum of the cable puller on which the rope is wrapped and pulled.

CENTERLINE RADIUS . . .
Radius of a bend measured to the center of the conduit.

CONCENTRIC BENDS . . .
When the radius of successive bends increase to allow the conduits to nest.

CONDUIT PISTON -
A cylinder of foam rubber that fits inside the conduit, and is propelled by air from a blower or vacuumed through the conduit run, pulling a line or tape.

DRAW STUD . . .
Threaded shaft used to pull a punch through the material being punched and into the die.

EMT . . .
Electrical Metallic Tubing also called thinwall. The lightest metallic conduit used in electrical. Assembled with non-threaded couplers.

FISH TAPES . . .
Devices used to pioneer a route through a conduit run, and pull back a wire or rope for pulling cable or wire.

FOLLOW BAR . . .
Forms the outside radius of a bend.

HICKEYS . . .
Hand bender for rigid conduit.

IMC . . .
Intermediate Metallic Conduit. Assembled with threaded couplers.

MOUSE . . .
A cylinder of foam rubber that fits inside the conduit, and is propelled by air from a blower or vacuumed through the conduit run, pulling a line or tape.

ONE-SHOT . . .
One stroke of a ram without repositioning.

PSI . . .
Pounds per square inch measurement of hydraulic pressure.

RIGID - Aluminum Rigid, Steel Rigid . . .
The heaviest conduit generally used in electrical. Assembled using threaded couplers. Dimensionally the same as water pipe.

ROLLER SUPPORT . . .
Forms the outside radius of a bend.

SADDLE . . .
Attaches the conduit to the shoe while bending.

SEGMENT BENDS . . .
A bend made with a series of bends totaling the desired degree of bend. Example: A 90º bend made up of 10 - 9º bends at even increments.

SHOE . . .
Part of a bender that forms the inside radius of a bend.

SHOE GROUP . . .
Complete set of bender attachments required for a specific size or type of bend (example: shoe, follow bar and saddle).

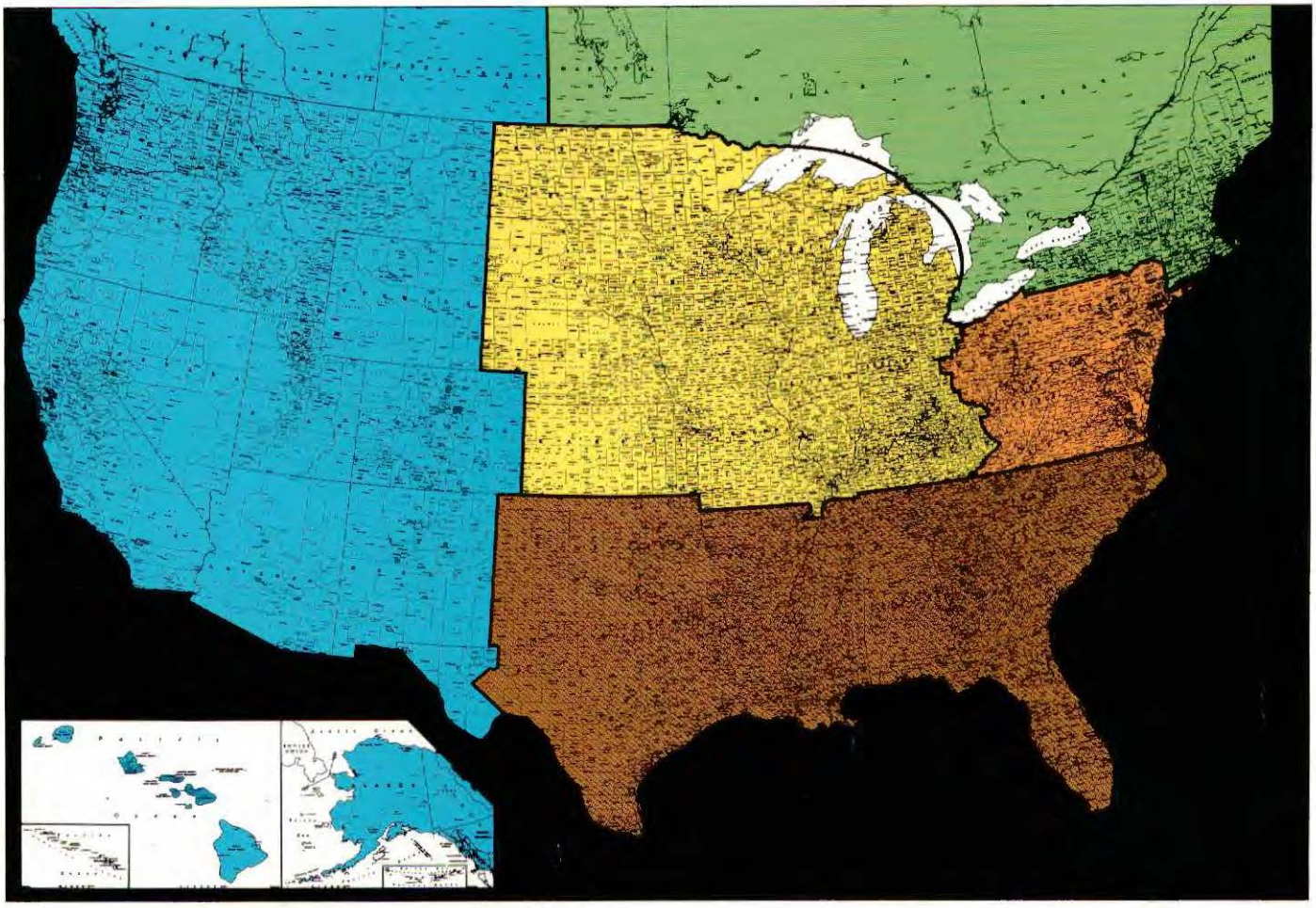
TENSILE STRENGTH . . .
Estimated minimum breaking point of a new rope.

METRIC CONVERSIONS

Inch x 25.4 = mm (millimeter)
Feet x .3048 = m (meters)
FPM (feet per minute) x .3048 = meters per minute
Lbs. (pounds) x .4536 = Kg (kilograms)
PSI (pounds per square inch) x .0689 = Bars

METAL THICKNESS

Gauges	to	Metric
24	———	.6 mm
20	———	.9 mm
16	———	1.5 mm
14	———	2.0 mm
10	———	3.0 mm



REGIONAL OFFICES

Northeastern Sales Office
Greenlee Tool/
Subsidiary of Textron, Inc.
10 South Main Street
P.O. Box 137
Topsfield, MA 01983
(617) 887-8576

Central Sales Office
Greenlee Tool/
Subsidiary of Textron, Inc.
10805 Sunset Office Drive
Suite 303
St. Louis, MO 63127
(314) 965-3110

Mid-Atlantic Sales Office
Greenlee Tool/
Subsidiary of Textron, Inc.
105 E. Union Avenue
Bound Brook, NJ 08805
(800) 526-3710
(201) 469-8820

Southern Sales Office
Greenlee Tool/
Subsidiary of Textron, Inc.
6695 Peachtree Industrial Blvd.
Suite 104
Atlanta, GA 30360
(800) 241-3562
(404) 448-6121

Western Sales Office
Greenlee Tool/
Subsidiary of Textron, Inc.
1905 So. Redwood Road
Suite 202
Salt Lake City, UT 84104
(800) 453-7889
(801) 973-4436

HOME OFFICE & FACTORY

Greenlee Tool/Subsidiary of Textron, Inc.
4455 Boeing Drive
Rockford, IL 61109 U.S.A.
(800) 435-0786 USA, In Illinois (815) 397-7070
(800) 233-5924 CANADA
Telex: 4330029 GTCRKD
Fax: (815) 397-1865

INTERNATIONAL SALES

Other than U.S. or Canada
Greenlee Tool/Subsidiary of Textron, Inc.
4455 Boeing Drive
Rockford, IL 61109 U.S.A.
(815) 397-7070
Telex: 4330029 GTCRKD
Fax: (815) 397-1865

Quick Draw™

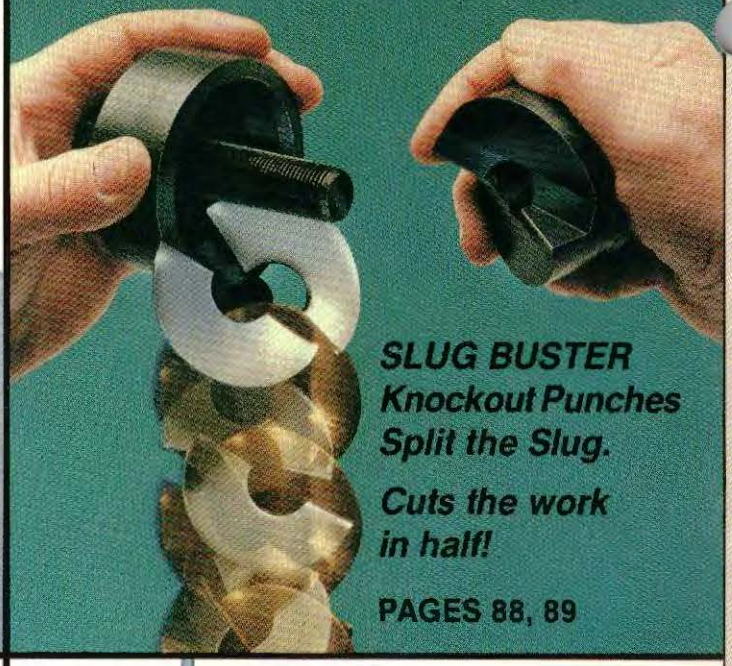
7804SB

HYDRAULIC PUNCH DRIVER

PAGE 94



SLUGBUSTER™

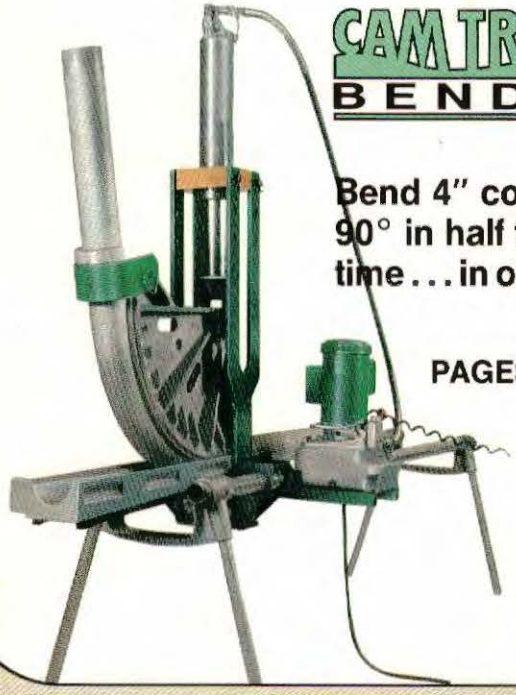


SLUG BUSTER Knockout Punches Split the Slug.

Cuts the work in half!

PAGES 88, 89

881CT CAMTRACK™ BENDER



Bend 4" conduit 90° in half the time . . . in one shot.

PAGES 12, 13



555SBC SPEED BENDER™

For ½" - 2" EMT, IMC and Rigid

THE BENDER WITH A MEMORY

PAGES 8, 9

CALL YOUR GREENLEE REPRESENTATIVE FOR A DEMONSTRATION.

Greenlee Tool TEXTRON

Greenlee Tool/Subsidiary of Textron, Inc.

4455 Boeing Drive, Rockford, IL 61109 U.S.A.
USA (800) 435-0786, in Illinois (815) 397-7070
Service Department USA (800) 435-2932
Canada (800) 233-5924
Telex: 4330029 GTCRKD Fax: (815) 397-1865

©1988 Textron Inc.

*Greenlee is a registered trademark of Textron, Inc.

2/88 MA-1024