

Conduit Bending

Gardner Bender™ innovations have delivered the ultimate in job-site performance, durability and reliability since 1959. Gardner Bender™ provides a complete line of products to bend EMT, Rigid, IMC and PVC coated conduit.



page 56



page 36



page 58



page 63

Guide to Bending Booklet	64	One-Shot Hydraulic Benders	42-48
Benders – Aluminum Rigid Conduit		Sidewinder® Electric Bender (B2555).....	37
Cyclone® Electric Bender (B2000).....	36	Sidewinder™ Mechanical Benders.....	54-57
Gardner™ EMT Hand Benders	59	Sweep/Segmental Hydraulic Benders	46, 48
One-Shot Hydraulic Benders	42-48	Ultra Eegor™ Hydraulic Bender	40
Sidewinder® Electric Bender (B2555).....	37	Bender Shoe Groups	
Sidewinder™ Mechanical Benders.....	54-57	Sidewinder® Electric Bender	
Sweep/Segmental Benders	46, 48	(B2555) - IMC.....	38
Ultra Eegor™ Hydraulic Bender	40	Sidewinder® Electric Bender	
Benders – EMT Conduit		(B2555) - Rigid.....	37
Big Ben® Hand Benders	58	Sidewinder® Electric Bender	
Cyclone® Electric Bender (B2000).....	36	(B2555) - EMT	38
Gardner™ EMT Hand Benders	59	Sidewinder® Electric Bender	
Iron Hand Benders	60	(B2555) - PVC-Coated	38
Sidewinder® Electric Bender (B2555).....	37	Hand Benders	
Sidewinder™ Mechanical Benders.....	54-57	Big Ben® Hand Benders	58
Ultra Eegor™ Hydraulic Bender	40	Gardner™ Thinwall Hand Benders	59
Benders – IMC Conduit		Iron Hand Benders	60
Cyclone® Electric Bender (B2000).....	36	Handles.....	61
Sidewinder® Electric Bender (B2555).....	37	Hickey Bending Heads	61
Sidewinder™ Mechanical Benders.....	54-57	Hydraulic Bender Accessories	52
Ultra Eegor™ Hydraulic Bender	40	Hydraulic Cylinder Specifications.....	53
Benders – PVC Conduit		PVC Plug Sets.....	63
HotBlanket™ Benders	63	Pumps	
HotBox™ Benders.....	62-63	Economy Electric.....	50
HotTube™ Bender.....	61	Manual Hydraulic.....	51
Benders – PVC-Coated Rigid Conduit		Submerged Electric	50
Cyclone® Electric Bender (B2000).....	36	Z-Class™ Electric.....	49
Sidewinder® Electric Bender (B2555).....	37	Table (Bend-Mate™ Bender	
Sidewinder™ Mechanical Benders ...	54, 56-57	Table for Ultra Eegor™).....	41
Benders – Rigid Steel Conduit		Storage Cases (Tool-Guard™)	64
Rigid Bender Capacities Chart	39		
Big Ben® Hand Benders	58		
Cyclone® Electric Bender (B2000).....	36		
Gardner™ EMT Hand Benders	59		
Iron Hand Benders	60		

Bending Selection Guide

Part # & Description

Combination Bending-Rigid, IMC, EMT Conduit	Page #	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
B2000 Cyclone® Bender	36	X	X	X	X	X	X					
B2555 Sidewinder® Bender & BRIG-52	37	X	X	X	X	X	X					
B2555 Sidewinder® Bender & BEMT-52	37	X	X	X	X	X	X					
B2555 Sidewinder® Bender & IMC-52	37	X	X	X	X	X	X					
B2555 Sidewinder® Bender & BPVC-152	37	X	X	X	X	X	X					
B400L & DL Ultra Eegor™	40							X	X	X	X	
BW Series - Mechanical Sidewinder™ Bender (EMT)	56-57	X	X	X	X	X	X					
BW Series - Mechanical Sidewinder™ Bender (IMC)	55-57	X	X	X	X	X						
BW Series - Mechanical Sidewinder™ Bender (Rigid)	55-57	X	X	X	X	X						
Rigid Conduit Bending	Page #	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
B2000 Cyclone® Bender	36	X	X	X	X	X	X					
B2555 Sidewinder® Bender & BRIG-52	37	X	X	X	X	X	X					
B400L & DL Ultra Eegor™	40							X	X	X	X	
B316S One-Shot Bender	42	X	X	X	X	X	X					
B308S Combination One-Shot/Sweep Bender	43			X	X	X	X	X	X	X	X	
B340S One-Shot Bender	44				X	X	X	X	X	X	X	
B359S Combination One-Shot/Sweep Bender	45				X	X	X	X	X	X	X	X
B306S Sweep/Segmental Bender	46				X	X	X	X	X	X	X	
B343S One-Shot Eject-O-Matic® Bender	47				X	X	X	X	X	X	X	
B351S Combination Eject-O-Matic® Bender	48				X	X	X	X	X	X	X	X
Mechanical Sidewinder™ Bender BW11,12,15, 20,30, 27	54-57	X	X	X	X	X						
Hand Benders - Gardner™ Bender	59	931B	932	933								
Hand Benders - Big Ben®	58	961	962									
Hand Benders - Malleable Iron	60	921	922	923								
Hand Benders - Hickeys	61	820	821	822								
EMT Conduit Bending	Page #	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
B2000 Cyclone® Bender	36	X	X	X	X	X	X					
B2555 Sidewinder® Bender & BEMT-52	37	X	X	X	X	X	X					
B400L & DL Ultra Eegor™	40							X	X	X	X	
Mechanical Sidewinder™ Bender BW30, 27, 201, 221	54-57	X	X	X	X	X	X					
Hand Benders - Gardner™ Bender	59	930B	931B	932								
Hand Benders - Big Ben®	58	960	961	962								
Hand Benders - Malleable Iron	60	920	921	922	923							
IMC Conduit Bending	Page #	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
B2000 Cyclone® Bender	36	X	X	X	X	X	X					
B2555 Sidewinder® Bender & IMC-52	37-38	X	X	X	X	X	X					
B400L & DL Ultra Eegor™	40							X	X	X	X	
Mechanical Sidewinder™ Bender BW11,12,15, 20,30, 27	54-57	X	X	X	X	X						
PVC-Coated Rigid Conduit Bending	Page #	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
B2000 Cyclone® Bender	36	X	X	X	X	X						
B2555 Sidewinder® Bender & BPVC-152	37-38	X	X	X	X	X	X					
Mechanical Sidewinder™ Bender BW30,27,201, 221	54-57	X	X	X	X	X						



IMPROVED Cyclone®
Electric-Powered Conduit Bender

One shoe bends 1/2" - 2" conduit with no loose parts:

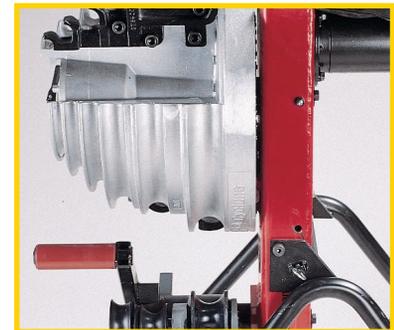
- Rigid
- Rigid aluminum
- EMT
- IMC
- PVC-coated rigid (1/2" to 1 1/2")
- Ability to make repeatable bends at the same degree.
- Horizontal and vertical positions allow the unit to create accurate offset bends.
- Four-wheels increases mobility.
- Low-volt (95), high-volt (132) automatic shut-off helps protect electrical components from voltage fluctuations.
- Resetting circuit breaker eliminates down time changing fuses.
- On/Off switch allows user to shut machine down for extended periods of time.
- Hook attachment on pendant control frees hands while working with conduit.
- Minimal training time.
- Weather-resistant cover included.
- 110/115 V AC, 15 AMP 1 HP DC Motor.
- Dimensions: 47" x 33" x 43".
- Weight 408 lbs.



B2000

Features:

- | | |
|---|--|
| 1. STRONG LEGS
Increased durability (10x life test) | 4. FORK LIFT TUBES
Allows lifting and transport capability—built into base |
| 2. LARGE TIRES/WHEELS
Increased mobility | 5. LIFT HOOK
Security (job-site) tethering |
| 3. STRONG UPRIGHT HANDLE
Ease of use | 6. STORAGE AREA
Storage for tools, etc. while in use |



Can be performed in the horizontal or vertical position.



Easy dial settings—makes training time virtually non-existent.

Part #	Description	Weight
B2000	Cyclone® Electric-Powered Production Bender, 115 V / 15 A	408 lbs

Centerline Radius Chart:

Conduit Size	IMC	PVC-Coated Rigid	EMT	Rigid
1/2"	4 3/8"	5 3/8"	4 1/4"	4 3/8"
3/4"	5 5/16"	6 1/2"	5 3/8"	5 5/16"
1"	6 7/32"	7 27/32"	6 1/2"	6 7/32"
1 1/4"	7 23/32"	8 3/8"	7 27/32"	7 23/32"
1 1/2"	8 7/32"	N/A	8 3/8"	8 15/64"
2"	9 15/32"	N/A	9 2 1/32"	9 29/64"

Electric Sidewinder® Bender

Bends ½" to 2" conduit:

- Rigid
- Rigid aluminum (schedule 40 max.)
- IMC
- EMT conduit
- PVC-coated rigid (40 mil)
- Up to 180 degree one-shot bends in ½" through 2" conduit.
- The handle detaches and pivots out of the way for offset bending.
- Competitor shoes are interchangeable (Greenlee, Current, etc.).
- 110/115 V AC
- 20 AMP



B2555

Centerline Radius Chart:

Conduit Size	EMT	IMC	Rigid
½"	4¼"	4¾"	4¾"
¾"	5¾"	4½"	4½"
1"	6¾"	5¾"	5¾"
1¼"	8¾"	7¼"	7¼"
1½"	8 ⁹ / ₃₂ "	8 ⁹ / ₃₂ "	8¼"
2"	9 ⁹ / ₁₆ "	9 ⁹ / ₁₆ "	9½"

note: Bender & Shoe Groups can be purchased as a kit or individually.

Part #	Description	Capacity/Range	Weight
B2555	Electric Sidewinder® w/o Shoes	—	270 lbs
B2555RIG	Electric Sidewinder® w/ Rigid Shoe Group	½"-2" Rigid & ½"-1¼" IMC conduit	365 lbs
B2555EMT	Electric Sidewinder® w/ EMT Shoe Group	½" - 2" EMT conduit	430 lbs
B2555IMC	Electric Sidewinder® w/ IMC Shoe Group	1½" - 2" IMC conduit	410 lbs
B2555PVC	Electric Sidewinder® w/ PVC Shoe Group	½" - 2" 40 mil PVC-Coated conduit	365 lbs

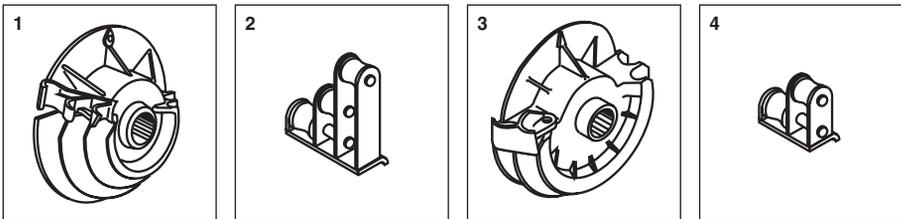
Electric Sidewinder® Shoe Groups

Rigid Shoe Group (½" to 2")

BRIG-52

Part #	Conduit	Description	Weight	I.D. #
RS-5125	½" & 1¼"	Rigid and IMC Bending Shoe	43 lbs	1
RSR-5125	½" & 1¼"	Rigid and IMC Support Roller	8 lbs	2
RS-152	1½" & 2"	Rigid Bending Shoe	36 lbs	3
RSR-152	1½" & 2"	Rigid Support Roller	6 lbs	4
BX-1	—	Metal Storage Box	36 lbs	—

Total Weight: 129 lbs



More Shoe Sets available on following page...

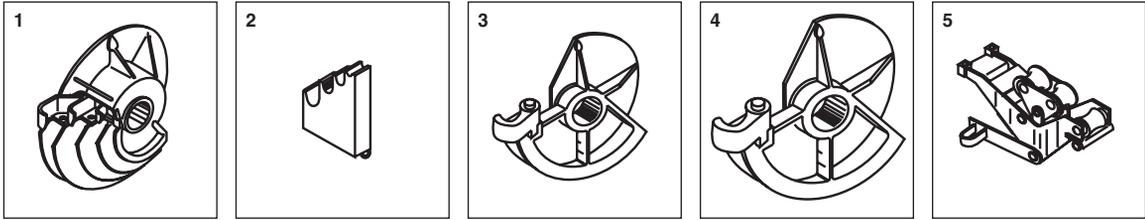
Electric Sidewinder® Shoe Groups (cont.)

EMT Shoe Group (1/2" to 2")

BEMT-52

Part #	Conduit	Description	Weight	I.D. #
ES-5125	1/2" & 1 1/4"	EMT Bending Shoe	24 lbs	1
ESR-5125	1/2" & 1 1/4"	EMT Support Unit	6 lbs	2
ES15	1 1/2"	EMT Bending Shoe	23 lbs	3
ES-2	2"	EMT Bending Shoe	31 lbs	4
ESR-152	1 1/2" & 2"	EMT Support Roller Unit	40 lbs	5
BX-1	—	Metal Storage Box	36 lbs	—

Total Weight: 160 lbs

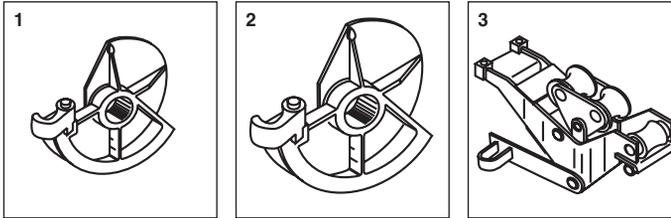


IMC Shoe Group (1 1/2" to 2")

BIMC-152

Part #	Conduit	Description	Weight	I.D. #
IS-15	1 1/2"	IMC Bending Shoe	22 lbs	1
IS-2	2"	IMC Bending Shoe	29 lbs	2
ISR-152	1 1/2" & 2"	IMC Support Roller Unit	40 lbs	3
BX-1	—	Metal Storage Box	36 lbs	—

Total Weight: 127 lbs

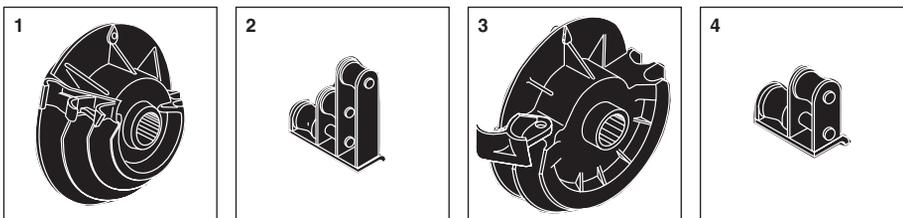


PVC-Coated Rigid Shoe Group (1/2" to 2" or 40 mil)

BPVC-52

Part #	Conduit	Description	Weight	I.D. #
PVS-5125	1/2" & 1 1/4"	PVC-Coated Rigid Bending Shoe	43 lbs	1
PVR-5125	1/2" & 1 1/4"	PVC-Coated Rigid Support Roller	8 lbs	2
PVS-152	1 1/2" & 2"	PVC-Coated Rigid Bending Shoe	36 lbs	3
PVR-152	1 1/2" & 2"	PVC-Coated Rigid Support Roller	6 lbs	4
BX-1	—	Metal Storage Box	36 lbs	—

Total Weight: 132 lbs



Rigid Bender Capacities Chart

One Shot / Sweep / Segmental

This chart is meant as a guide for bending capabilities only.
 For those instances where doubt exists, a trial bend is recommended.

Pipe Size	Outside Dia.	Wall Thick.	Sched. Pipe*	Part #			
				B316S	B308S	B306S B340S B343S	B351S B359S
1/2"	.840"	.108"	40	X	X	WS	WS
		.147"	80	X	X	WS	WS
		.187"	160	WS	WS	WS	WS
		.294"	DEH	WS	WS	WS	WS
3/4"	1.050"	.113"	40	X	X	WS	WS
		.154"	80	X	X	WS	WS
		.218"	160	WS	WS	WS	WS
		.308"	DEH	WS	WS	WS	WS
1"	1.315"	.133"	40	X	X	WS	WS
		.179"	80	X	X	WS	WS
		.250"	160	WS	WS	WS	WS
		.358"	DEH	NR	WS	WS	WS
1 1/4"	1.660"	.140"	40	X	X	X	X
		.191"	80	X	X	X	X
		.250"	160	WS	WS	X	X
		.342"	DEH	NR	WS	WS	WS
1 1/2"	1.900"	.145"	40	X	X	X	X
		.200"	80	X	X	X	X
		.281"	160	WS	WS	X	X
		.400"	DEH	NR	WS	WS	WS
2"	2.375"	.154"	40	X	X	X	X
		.218"	80	NR	X	X	X
		.343"	160	NR	WS	X	X
2 1/2"	2.875"	.203"	40	NR	X	X	X
		.276"	80	NR	WS	X	X
		.375"	160	NR	WS	X	X
3"	3.500"	.216"	40	NR	X	X	X
		.300"	80	NR	WS	X	X
3 1/2"	4.000"	.226"	40	NR	X	X	X
		.318"	80	NR	WS	X	X
4"	4.500"	.237"	40	NR	X	X	X
		.337"	80	NR	NR	X	X
5"	5.563"	.258"	40	NR	NR	NR	X
		.375"	80	NR	NR	NR	X

***Schedule Pipe:**

- 40 = Standard
- 80 = Extra Duty
- 160 = Double Extra Duty
- DEH = Double Extra Heavy (slightly thicker than 160)

Other:

- NR = Not Recommended
- WS = Can be bent using wider spacing for swivel shoes

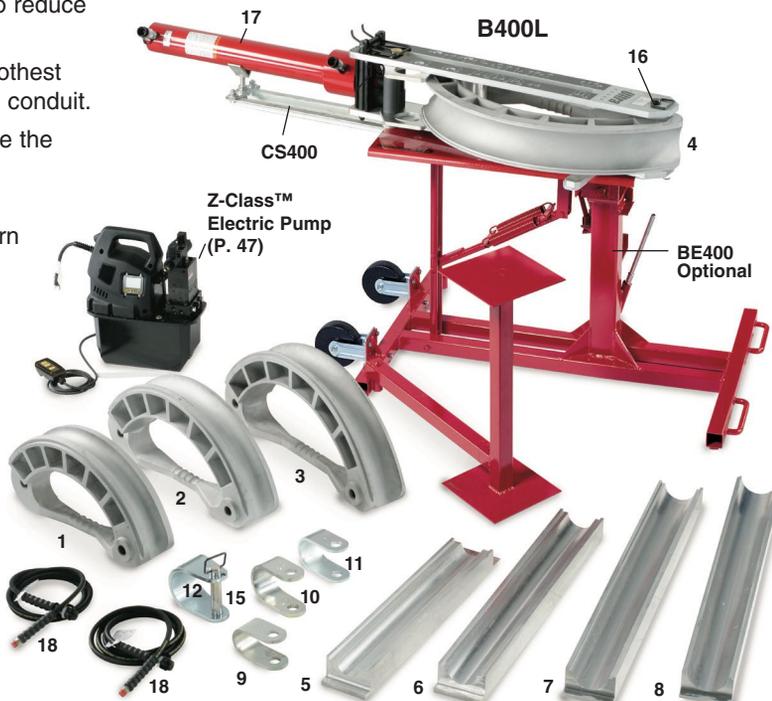
IMPROVED Ultra Eegor™ Hydraulic Bender

Bends 2½" to 4" conduit:

- Rigid
- Rigid aluminum (schedule 40 max)
- EMT
- IMC

No additional attachment sets required to change per pipe or conduit type.

- 30 ton, 28" stroke cylinder can make a 90° bend with one pass.
- Double-acting cylinder for rapid retraction, regardless of hose lengths and system losses.
- Improved shoes and follow bars to reduce conduit kinking during bending.
- Hydraulic power ensures the smoothest bends without deformations to the conduit.
- Constant radii follow bars eliminate the need for special calculations.
- Conduit is automatically stripped free from the shoe during the return cycle-which ensures no extra labor or damaged conduit.
- Angle markings on frame ensure easy and accurate bending.



Centerline Radius Chart:

Nominal Size	IMC	EMT	Rigid
2½"	13½"	13½"	13½"
3"	15⅞"	15⅞"	15⅞"
3½"	18½"	18½"	18½"
4"	21"	21"	21"

B400L with BE400 Table, CS400 Cylinder Support & Z-Class™ Pump

Part #	Description	Pump	Weight
B400L	Long-stroke Ultra Eegor™	—	770 lbs
B400LP408S	Long-stroke Ultra Eegor™	P408S Electric	870 lbs
B400DL	Long-stroke Ultra Eegor™ w/o 3½" shoe group	—	770 lbs
B400DLP408S	Long-stroke Ultra Eegor™ w/o 3½" shoe group	P408S Electric	795 lbs
CD3028KT*	Eegor® Conversion Kit, 28" Stroke Cylinder		105 lbs
CS400	Cylinder Support for BE400 Table		30 lbs
DC404	Bend Angle Decal		1 lb



tip: *To convert older B400 or B400D to Long-stroke Cylinder, use CD3028KT Kit, which includes Long-stroke Cylinder, CS400 Cylinder Support and DC404 Decal.

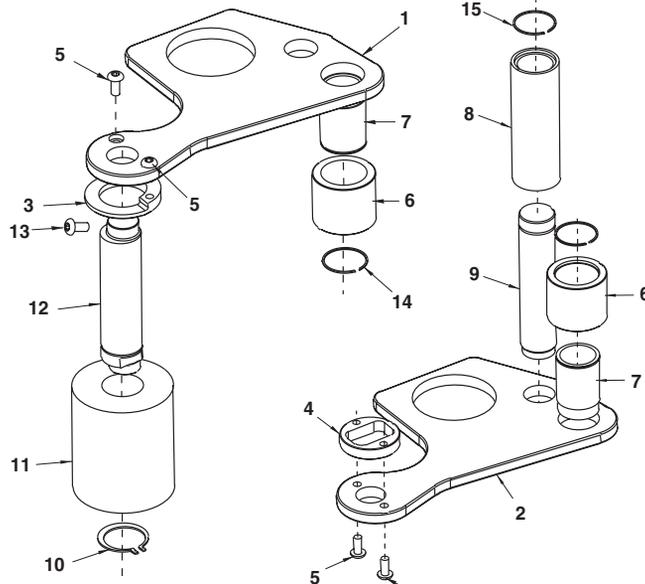
Components Included with the Long-stroke Ultra Eegor™ Bender

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BS2500	2½"	Bending Shoe	44 lbs	1	BZ34	3"	U-strap	5 lbs	10
BS3000	3"	Bending Shoe	50 lbs	2	BZ39*	3½"	U-strap	8 lbs	11
BS3500	3½"	Bending Shoe	75 lbs	3	BZ44	4"	U-strap	10 lbs	12
BS4000	4"	Bending Shoe	90 lbs	4	BZ76	-	U-strap Pin	4 lbs	15
BFB2500	2½"	Follow Bar	34 lbs	5	BZ78	-	Bend Shoe Pin	4 lbs	16
BFB3000	3"	Follow Bar	35 lbs	6	CD3028	-	30-Ton, Double-Acting Hyd. Cyl.	95 lbs	17
BFB3500	3½"	Follow Bar	42 lbs	7	HC927	-	(2) 10' Hose w/High-Flow Coupler	4 lbs	18
BFB4000	4"	Follow Bar	40 lbs	8	BZ74	-	Double Anchor Frame Pin	66 lbs	19
BZ28	2½"	U-strap	5 lbs	9	CM20	-	Metal Case for Ultra Eegor™	182 lbs	-

*These parts are not included with B400DL and B400DLP408S.

Replacement Components for Eegor® Roller Assembly BZ72:

Part #	# Req'd	Description	I.D. #
CK211950	1	Plate assembly (top)	1
CK212950	1	Plate assembly (bottom)	2
CF859489	1	Retaining collar	3
CF860013	1	Pilot keyway	4
CH204028	4	Button head cap screw	5
CF862281	2	Roller (short)	6
CF861108	2	Roller insert (short)	7
CK579281	1	Roller	8
CF863104	1	Roller axle	9
CM191044	1	Retaining ring	10
CM194900	1	Roller assembly	11
CM193350	1	Roller cam	12
B1021028	1	Roller cam cap screw	13
CH819044	AR	Wire, retaining	14
CH951044	1	Ring, retaining	15



BZ725 Top Plate Assembly

BZ726 Bottom Plate Assembly

Bend-Mate™ Bender Table (Optional)

Rugged table for Eegor® hydraulic conduit benders allows one to work more comfortably and accurately.

- Hydraulic pivot jack adjusts table to horizontal or vertical positions for easy access.
- Rugged one-piece steel frame with 1/4" steel plate tabletop.
- Wheels and lift-handles included for easy movement.
- Two ton jack force.



BE400

Part #	Description	Weight
BE400	Bend-Mate™ Table - 30"W x 32"L x 56"H w/6" wheels	210 lbs
CS400	Cylinder Support for BE400 Table	30 lbs

*57" with table raised.

tip: Using BE400 table with an Eegor® Hydraulic Bender will help reduce labor costs, and physical strain.

tip: When ordering the optional BE400 Table for use with the Ultra Eegor™, you must order the CS400 Cylinder Support.

1/2" - 2" One-shot Rigid Hydraulic Benders

Gardner Bender™ Rigid Benders are made with high-grade aluminum for durability, and interchangeable shoes that allow quick and precise bends.

- Bends 1/2" to 2" rigid steel or rigid aluminum conduit.
- Portable hand pump or economical electric pump options.
- Durable metal job box included.
- Optic angle gauge for quick references of bend progression.
- Ability to be powered by manual or electric pumps.

note: These benders are for use on Rigid conduit only.



Part #	Description	Weight
B316S	1/2" - 2" One-shot Rigid Bender	104 lbs
B316SPH39	1/2" - 2" One-shot Rigid Bender w/ PH39 Hand Pump	114 lbs
B316SPE22J	1/2" - 2" One-shot Rigid Bender w/ PE22J Electric Pump	160 lbs

SEE PG **49**  FOR MORE INFO ON **Electric Pumps**

Centerline Radius Chart:

Nominal Size	Rigid Radius	Bending Shoe	Nominal Size	Rigid Radius	Bending Shoe
1/2"	3 ⁹ / ₁₆ "	BZ12011	1 1/4"	7 1/4"	BZ12041
3/4"	4 1/2"	BZ12021	1 1/2"	8 1/4"	BZ12051
1"	5 ¹³ / ₁₆ "	BZ12031	2"	9 1/2"	BZ12061

SEE PG **51**  FOR MORE INFO ON **Manual Pumps**

SEE PG **53**  FOR MORE INFO ON **Cylinders**

Components Included with B316S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12011	1/2"	Bending Shoe	1 lb	1	BZ12071	-	(2) Pivot Shoes	1 lb	8
BZ12021	3/4"	Bending Shoe	1 lb	2	BZ12091	-	Angle Gauge	.5 lb	9
BZ12031	1"	Bending Shoe	2 lbs	3	BZ12375	-	(2) Pivot Pins	1 lb	10
BZ12041	1 1/4"	Bending Shoe	4 lbs	4	BZ12371	-	Bender Frame	25 lbs	11
BZ12051	1 1/2"	Bending Shoe	5 lbs	5	BZ12377	-	Shoe Lock Pin	.25 lb	12
BZ12061	2"	Bending Shoe	7 lbs	6	HC913	-	6' Hose	3 lbs	13
CS1010	-	10-ton Single-Acting Cylinder*	13 lbs	7	CM4	-	Metal Case	56 lbs	14

*Must order A12 Smooth Saddle, see p. 52

1" - 2" Combination One-shot / Sweep Rigid Hydraulic Benders

Bends 1" to 2" rigid steel or aluminum conduit in one shot. Includes 2½" to 4" sweep bend shoes.

- Capability of one-shoe bending for elbows.
- Ability to produce sweep bends where several bending stages are necessary.
- Durable metal job box included.
- Ability to be powered by manual or electric pumps.



Part #	Description	Weight
B308S	1" - 2" One-shot / 2½" - 4" Sweep Combination	225 lbs
B308SPH80	1" - 2" One-shot / 2½" - 4" Sweep Combo w/ PH80 Hand Pump	253 lbs
B308SPE22J	1" - 2" One-shot / 2½" - 4" Sweep Combo w/ PE22J Elec. Pump	340 lbs

SEE PG **49** FOR MORE INFO ON **Electric Pumps**

SEE PG **51** FOR MORE INFO ON **Manual Pumps**

SEE PG **53** FOR MORE INFO ON **Cylinders**

Centerline Radius Chart:

Nominal Size	Rigid Radius	Bending Shoe	Nominal Size	Smallest Radius	Bending Shoe
1"	5 ¹³ / ₁₆ "	BZ12031	2½"	10½"	BZ12382
1¼"	7¼"	BZ12041	3"	13"	BZ12383
1½"	8¼"	BZ12051	3½"	17½"	BZ12384
2"	9½"	BZ12061	4"	20"	BZ12385

Components Included with B308S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12031	1"	Bending Shoe	2 lbs	1	CS2510	-	25-ton Single-Acting Cylinder*	31 lbs	9
BZ12041	1¼"	Bending Shoe	4 lbs	2	BZ13401	-	(2) Pivot Shoes	4 lbs	10
BZ12051	1½"	Bending Shoe	5 lbs	3	BZ12091	-	Angle Gauge	.5 lb	11
BZ12061	2"	Bending Shoe	7 lbs	4	BZ12376	-	(2) Pivot Pins	4 lbs	12
BZ12382	2½"	Sweep Bending Shoe	4 lbs	5	BZ12372	-	Bender Frame	54 lbs	13
BZ12383	3"	Sweep Bending Shoe	5 lbs	6	BZ12377	-	Shoe Lock Pin	.25 lb	14
BZ12384	3½"	Sweep Bending Shoe	9 lbs	7	HC913	-	6' Hose	3 lbs	15
BZ12385	4"	Sweep Bending Shoe	12 lbs	8	CM7	-	Metal Case	98 lbs	16

*Must order A29 Smooth Saddle, see p. 52

1¼" - 4" One-shot Rigid Hydraulic Benders

Bends 1¼" to 4" rigid steel or rigid aluminum conduit.

- Choice of hand or electric pumps.
- Durable metal job box included.
- Ability to be powered by manual or electric pumps.



Part #	Description	Weight
B340S	1¼" - 4" One-shot Rigid Bender	334 lbs
B340SPH80	1¼" - 4" One-shot Rigid Bender w/ PH80 Hand Pump	350 lbs
B340SPE22J	1¼" - 4" One-shot Rigid Bender w/ PE22J Electric Pump	390 lbs
B340SP208J	1¼" - 4" One-shot Rigid Bender w/ P208J Electric Pump	325 lbs

Centerline Radius Chart:

Nominal Size	Rigid Radius	Bending Shoe	Nominal Size	Rigid Radius	Bending Shoe
1¼"	7¼"	BZ12041	3"	13"	BZ12351
1½"	8¾"	BZ12051	3½"	17½"	BZ12391
2"	9½"	BZ12061	4"	20"	BZ12392
2½"	10½"	BZ12341			



Components Included with B340S Models:

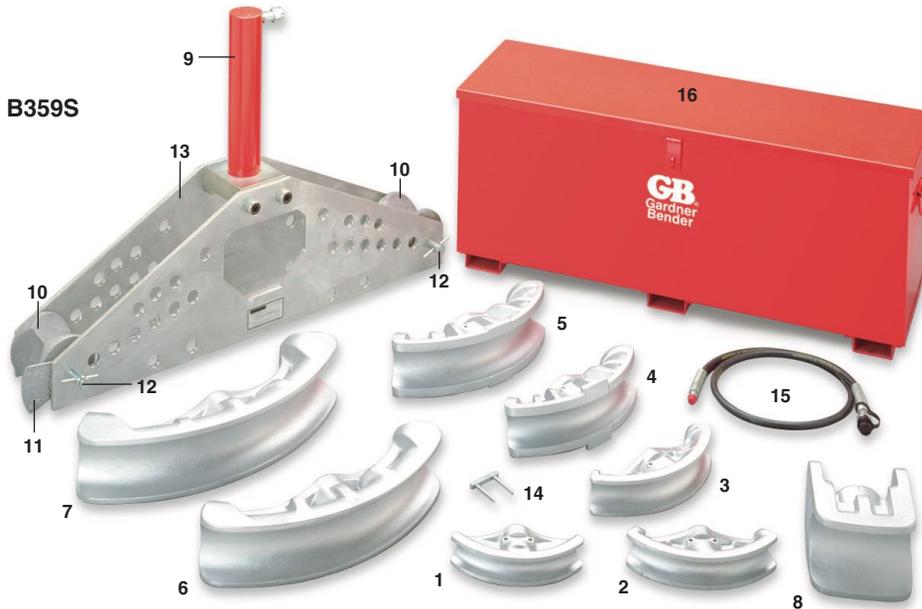
Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12041	1¼"	Bending Shoe	4 lbs	1	BZ13401	-	(2) Pivot Shoes	4 lbs	9
BZ12051	1½"	Bending Shoe	5 lbs	2	BZ12091	-	Angle Gauge	.5 lb	10
BZ12061	2"	Bending Shoe	7 lbs	3	BZ12376	-	(2) Pivot Pins	4 lbs	11
BZ12341	2½"	Bending Shoe	15 lbs	4	BZ12374	-	Bender Frame	63 lbs	12
BZ12351	3"	Bending Shoe	15 lbs	5	BZ12377	-	Shoe Lock Pin	.25 lb	13
BZ12391	3½"	Bending Shoe	40 lbs	6	HC913	-	6' Hose	3 lbs	14
BZ12392	4"	Bending Shoe	41 lbs	7	CM7	-	Metal Case	98 lbs	15
CS2514	-	25-ton Single-Acting Cylinder*	31 lbs	8	B350	-	5" Conversion Kit (optional)	63 lbs	-

*Must order A29 Smooth Saddle, see p. 52

1¼" - 5" One-shot Sweep Combination Rigid Hydraulic Benders

Bends 1¼" to 4" rigid steel or rigid aluminum conduit.

- Choice of hand or electric pumps.
- Durable metal job box included.
- Ability to be powered by manual or electric pumps.



Part #	Description	Weight
B359S	1¼" - 4" One-shot / 5" Sweep Combination	225 lbs
B359SPH80	1¼" - 4" One-shot / 5" Sweep Combo w/ PH80 Hand Pump	253 lbs
B359SP208J	1¼" - 4" One-shot / 5" Sweep Combo w/ P208J Elec. Pump	340 lbs

Centerline Radius Chart:

Nominal Size	Rigid Radius	Bending Shoe	Nominal Size	Rigid Radius	Bending Shoe
1¼"	7¼"	BZ12041	3"	13"	BZ12351
1½"	8¼"	BZ12051	3½"	17½"	BZ12391
2"	9½"	BZ12061	4"	20"	BZ12392
2½"	10½"	BZ12341			

SEE PG **49** FOR MORE INFO ON **Electric Pumps**

SEE PG **51** FOR MORE INFO ON **Manual Pumps**

SEE PG **53** FOR MORE INFO ON **Cylinders**

Components Included with B359S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12041	1¼"	Bending Shoe	4 lbs	1	CS2514*	-	25 ton Single Acting Cylinder	31 lbs	9
BZ12051	1½"	Bending Shoe	5 lbs	2	BZ12388	-	(2) Pivot Shoes	4 lbs	10
BZ12061	2"	Bending Shoe	7 lbs	3	BZ12091	-	Angle Gauge	.25 lb	11
BZ12341	2½"	Bending Shoe	14 lbs	4	BZ12390	-	(2) Pivot Pins	4 lbs	12
BZ12351	3"	Bending Shoe	15 lbs	5	BZ12389	-	Bender Frame	85 lbs	13
BZ12391	3½"	Bending Shoe	40 lbs	6	BZ12377	-	Shoe Lock Pin	.25 lb	14
BZ12392	4"	Bending Shoe	41 lbs	7	HC913	-	6' Hose	3 lbs	15
BZ12386	5"	Sweep Bending Shoe	18 lbs	8	CM7	-	Metal Case	98 lbs	16

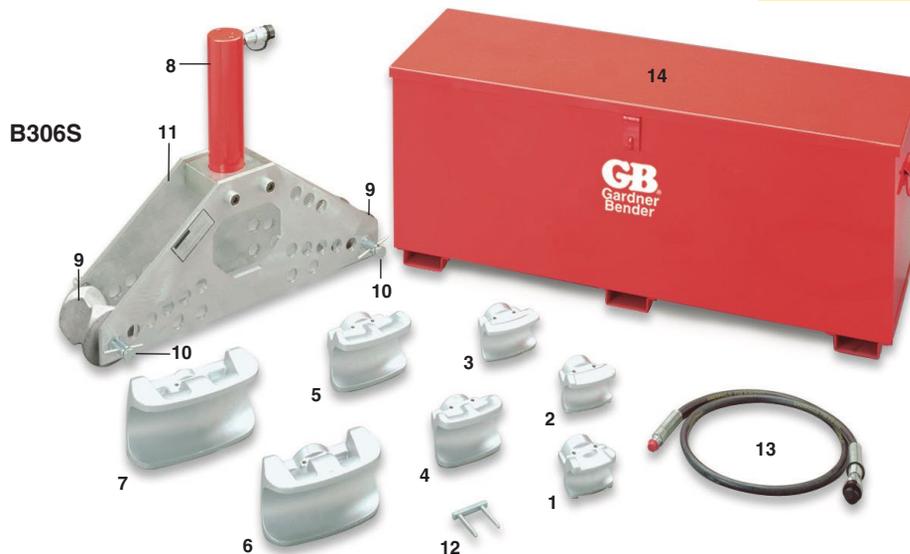
*Must order A29 Smooth Saddle, see p. 52

1 1/4" - 4" Sweep/Segmental Rigid Hydraulic Benders

Bends 1 1/4" to 4" rigid steel or rigid aluminum conduit sweep/segmental.

- Choice of hand or electric pumps.
- Durable metal job box included.
- Ability to be powered by manual or electric pumps.

tip: For a quick reference guide, order GB® part #E507 at no charge.



Part #	Description	Weight
B306S	1 1/4" - 4" Sweep	216 lbs
B306SPH80	1 1/4" - 4" Sweep w/ PH80 Hand Pump	243 lbs
B306SPE22J	1 1/4" - 4" Sweep w/ PE22J Electric Pump	230 lbs



Centerline Radius Chart:

Nominal Size	Smallest Radius	Bending Shoe	Nominal Size	Smallest Radius	Bending Shoe
1 1/4"	7 1/4"	BZ12397	3"	13"	BZ12383
1 1/2"	8 1/4"	BZ12380	3 1/2"	17 1/2"	BZ12384
2"	9 1/2"	BZ12381	4"	20"	BZ12385
2 1/2"	10 1/2"	BZ12382			



Components Included with B306S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12379	1 1/4"	Sweep Bending Shoe	2 lbs	1	CS2510*	-	25 ton Action Cylinder	31 lbs	8
BZ12380	1 1/2"	Sweep Bending Shoe	2 lbs	2	BZ13401	-	(2) Pivot Shoes	4 lbs	9
BZ12381	2"	Sweep Bending Shoe	3 lbs	3	BZ12376	-	(2) Pivot Pins	4 lbs	10
BZ12382	2 1/2"	Sweep Bending Shoe	4 lbs	4	BZ12372	-	Bender Frame	54 lbs	11
BZ12383	3"	Sweep Bending Shoe	5 lbs	5	BZ12377	-	Shoe Lock Pin	.25 lb	12
BZ12384	3 1/2"	Sweep Bending Shoe	9 lbs	6	HC913	-	6' Hose	3 lbs	13
BZ12385	4"	Sweep Bending Shoe	12 lbs	7	CM7	-	Metal Case	98 lbs	14

*Must order A29 Smooth Saddle, see p. 52

1¼" - 4" One-shot Eject-O-Matic® Rigid Hydraulic Benders

Bends 1¼" to 4" rigid steel and rigid aluminum conduit. Eject-O-Matic® feature retains conduit with a T-pin while bending shoe is hydraulically retracted. Once complete, the conduit automatically pops free.

- Optional 5" conversion kit available (B350) - segment only.
- Automatic ejection saves time and money.
- Ability to be powered by manual or electric pumps.

tip: Double Acting (two hose) cylinders provide controlled and powerful bending and return functions.



Part #	Description	Weight
B343S	1¼" - 4" One-shot	330 lbs
B343SPH84	1¼" - 4" One-shot w/ PH84 Hand Pump	380 lbs
B343SP408K	1¼" - 4" One-shot w/ P408K Electric Pump	362 lbs
B343SP408J	1¼" - 4" One-shot w/ P408J Electric Pump	430 lbs
B343SP408S	1¼" - 4" One-shot w/ P408S Electric Pump	432 lbs

Centerline Radius Chart:

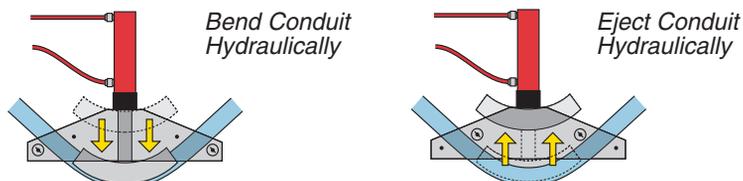
Nominal Size	Smallest Radius	Bending Shoe	Nominal Size	Smallest Radius	Bending Shoe
1¼"	7¼"	BZ12041	3"	13"	BZ12351
1½"	8¼"	BZ12051	3½"	17½"	BZ12391
2"	9½"	BZ12061	4"	20"	BZ12392
2½"	10½"	BZ12341			



Components Included with B343S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12041	1¼"	Bending Shoe	4 lbs	1	BZ13401	-	(2) Pivot Shoes	4 lbs	9
BZ12051	1½"	Bending Shoe	5 lbs	2	BZ12091	-	Angle Gauge	.5 lb	10
BZ12061	2"	Bending Shoe	7 lbs	3	BZ12376	-	(2) Pivot Pins	4 lbs	11
BZ12341	2½"	Bending Shoe	14 lbs	4	BZ12374	-	Bender Frame	78 lbs	12
BZ12351	3"	Bending Shoe	15 lbs	5	BZ12377	-	Shoe Lock Pin	.25 lb	13
BZ12391	3½"	Bending Shoe	40 lbs	6	HC913	-	(2) 6' Hoses	6 lbs	14
BZ12392	4"	Bending Shoe	41 lbs	7	CM7	-	Metal Case	98 lbs	15
CD3014	-	30-ton Double-Acting Cylinder*	31 lbs	8	B350	-	5" Conversion Kit (optional)	63 lbs	-

*Must order A29 Smooth Saddle, see p. 52



1 1/4" One-shot Eject-O-Matic® Rigid Hydraulic Benders - 5" Sweep

Bends 1 1/4" to 4" rigid steel and rigid aluminum conduit in one shot and 5" sweep.

- Choice of hand or electric pumps.
- Durable metal job box included.
- Eject conduit hydraulically by moving one pivot pin.
- Ability to be powered by manual or electric pumps.



Part #	Description	Weight
B351S	1 1/4" - 4" One-shot / 5" Sweep Combination	377 lbs
B351SPH84	1 1/4" - 4" One-shot / 5" Sweep Combo w/ PH84 Hand Pump	410 lbs
B351SP408J	1 1/4" - 4" One-shot / 5" Sweep Combo w/ P408J Elec. Pump	458 lbs
B351SP408S	1 1/4" - 4" One-shot / 5" Sweep Combo w/ P408S Elec. Pump	460 lbs



Centerline Radius Chart:

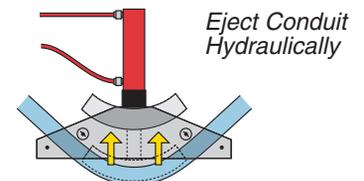
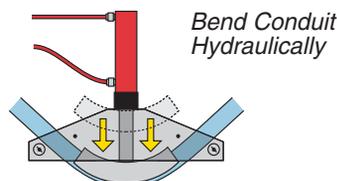
Nominal Size	Rigid Radius	Bending Shoe	Nominal Size	Rigid Radius	Bending Shoe
1 1/4"	7 1/4"	BZ12041	3"	13"	BZ12351
1 1/2"	8 1/4"	BZ12051	3 1/2"	17 1/2"	BZ12391
2"	9 1/2"	BZ12061	4"	20"	BZ12392
2 1/2"	10 1/2"	BZ12341			



Components Included with B351S Models:

Part #	Conduit	Description	Weight	I.D. #	Part #	Conduit	Description	Weight	I.D. #
BZ12041	1 1/4"	Bending Shoe	4 lbs	1	CD3014*	-	30 ton Double Acting Cylinder	31 lbs	9
BZ12051	1 1/2"	Bending Shoe	5 lbs	2	BZ12388	-	(2) Pivot Shoes	10 lbs	10
BZ12061	2"	Bending Shoe	7 lbs	3	BZ12091	-	Angle Gauge	.5 lb	11
BZ12341	2 1/2"	Bending Shoe	14 lbs	4	BZ12390	-	(2) Pivot Pins	4 lbs	12
BZ12351	3"	Bending Shoe	15 lbs	5	BZ12389	-	Bender Frame	85 lbs	13
BZ12391	3 1/2"	Bending Shoe	40 lbs	6	BZ12377	-	Shoe Lock Pin	.25 lb	14
BZ12392	4"	Bending Shoe	41 lbs	7	HC913	-	(2) 6' Hoses	13 lbs	15
BZ12386	5"	Sweep Bending Shoe	18 lbs	8	CM7	-	Metal Case	98 lbs	16

*Must order A29 Smooth Saddle, see p. 52



NEW Z-Class™ Electric Pumps

Introducing Gardner Bender™ Z-Class™ hydraulic pumps—pumps that run cooler, use less electricity and are easier to service than conventional pumps. Gardner Bender™ has used the latest metallurgical, bearing and seal technologies to produce a pump whose features and benefits far surpass the electric pumps that are available today. By reducing the number of moving parts, improving flow dynamics and decreasing friction, Z-Class™ pumps will stay on the job longer, require less energy to operate and when needed, have lower service costs.

- Two-speed high-efficiency pumps.
- Self-priming, high-flow 1st stage pump.
- Large, heavy-duty bearings and balanced rotating components.
- Replaceable piston check-valves.
- Powerful universal motor and excellent low-voltage operating.
- Brush design lasts 4-times longer.
- Ergonomic high strength composite.

	P208J	P408S
Motor Size	1.7hp	1.7hp
Type	Z-Class™	Z-Class™
Reservoir Capacity	2 gallon	2 gallon
Pump Type	single-acting	double-acting
Pressure Rating		
1st stage (psi)	100	100
2nd stage (psi)	10,000	10,000
Output Flow Rate		
1st stage (in ³ /min)	700	700
2nd stage (in ³ /min)	60	60
Valve Type	3 way/2 pos.	4 way/3 pos.
Current Draw (max) (Amps)	20	20
Motor Voltage (VAC)	115	115
Sound (dba)	85-90	85-90
Weight (lbs)	70	85
Relief Valve Adj. Range (psi)	2,000-10,000	2,000-10,000

Double-Acting Pump
 P408S
 1.7 HP Pump



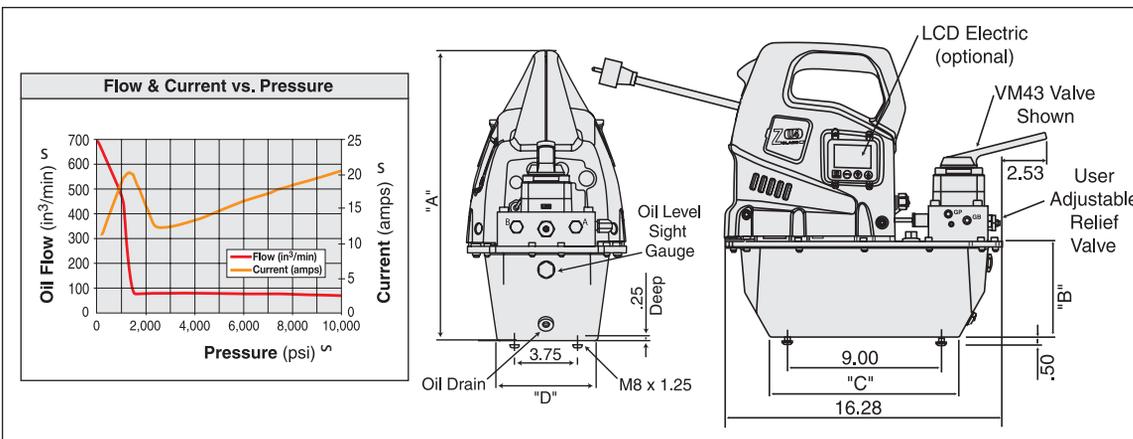
Single-Acting Pump
 P208J
 1.7 HP Pump



Back-lit LCD

Provides essential information:

- Hour & cycle counts
- Low voltage warning
- Self-test, diagnostic and read-out capabilities
- Pressure read-out and adjustable trigger pressure settings
- Information displayed in 6 languages



Economy Electric Pumps

PE20D & PE22J

- Lightweight - 22 - 41 lbs.
- 115 V AC 50/60 cycle universal motor works well with long extension cords or generator-driven power.
- Long 10' remote control for operator safety.
- Great for medium-sized cylinders.

	PE20D	PE22J
Motor Size	1/2 hp	1/2 hp
Type	Economy	Economy
Reservoir Capacity	1 gallon	1 gallon
Pump Type	Single-Acting	Single-Acting
Pressure Rating		
1st stage (psi)	200	200
2nd stage (psi)	10,000	10,000
Output Flow Rate		
1st stage (in ³ /min)	200	200
2nd stage (in ³ /min)	20	20
Valve Type	Dump	3-way, 2 pos.
Current Draw (Amps)	9.5	9.5
Motor Voltage (VAC)	115	115
Sound (dba)	85	85
Weight	29 lbs	27 lbs

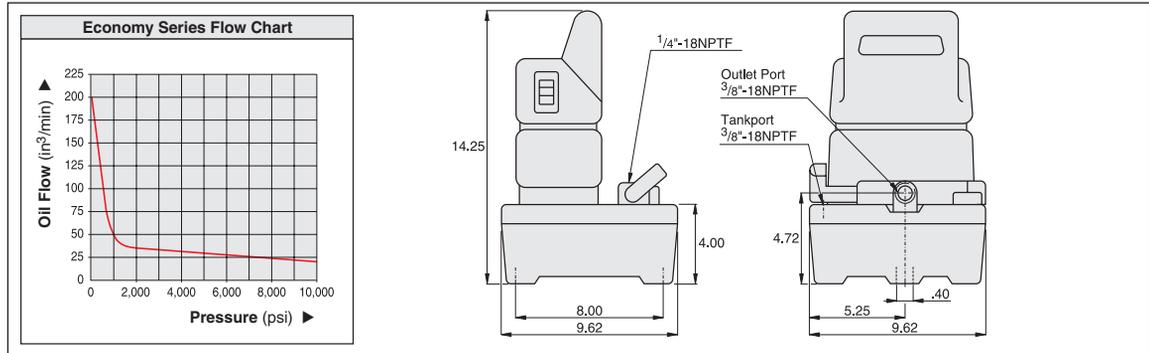
Single-Acting Pump
PE20D
1/2 HP Pump



Single-Acting Pump
PE22J
1/2 HP Pump



PE20D or PE22J Economy Electric Pumps

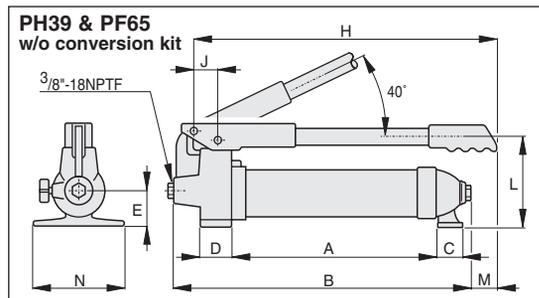
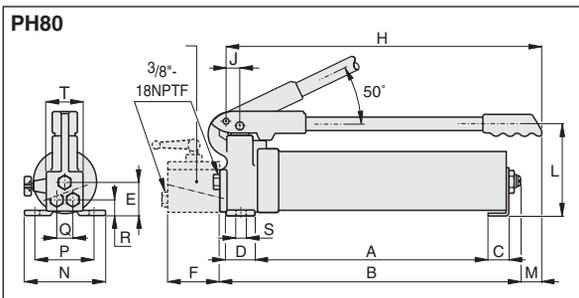
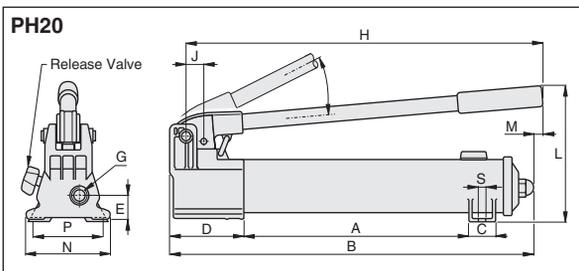


Manual Hydraulic Pumps

Durable manual pumps utilized with Gardner Bender™ hydraulic bender sets.

- PH80 model feature two-speed action for faster cylinder cycle time.
- PH39 has economical single-speed design.
- All pumps contain internal high-pressure relief overload protection.

	PH20	PH39	PH80	PF65
Pump Type	Single-Speed	Single-Speed	Two-Speed	Single-Speed
Usable Oil Capacity (in³)	20	40	134	22
Pressure Rating				
1st stage (psi)	N/A	N/A	350	N/A
2nd stage (psi)	10,000	10,000	10,000	6,500
Oil Displ. per Stroke				
1st stage (in ³)	N/A	N/A	.99	N/A
2nd stage (in ³)	.055	.16	.15	.16
Max. Handle Effort	72 lbs	111 lbs	104 lbs	125 lbs
Piston Stroke (in)	.50	.81	1.00	.81
Piston Diameter				
1st stage (in)	.75	.94	1.13	.50
2nd stage (in)	.38	.44	.44	N/A
Dimensions (in)				
A	7.31	15.50	16.75	8.25
B	13.25	20.47	21.22	12.88
C	1.13	1.28	1.00	1.28
D	3.37	1.50	1.75	1.5
E	1.13	1.25	2.13	1.88
F	-	-	-	-
H	12.56	18.25	20.75	8.5
J	.75	1.18	1.14	1.18
L	5.63	4.69	6.88	4.38
M	-	2.56	.75	.51
N	3.75	5.25	5.75	5.25
P	3.18	-	4.76	-
Q	-	-	-	-
R	-	-	.83	-
S	-	-	.31	-
T	-	-	-	-
Weight	4.5 lbs	13 lbs	24 lbs	12 lbs



Hydraulic Bender Accessories

Quality accessories to increase bending efficiency.

See following page for Hydraulic Cylinder Specifications.

Hoses and Oil

Part #	Description	Weight
H8210	10' Rubber Hydraulic Hose w/ AH630 coupler	4 lbs
H864	6' Rubber Hydraulic Hose w/ AH630 coupler	2 lbs
HC913	6' Rubber Hydraulic Hose w/ CH604 coupler	3 lbs
HC963	6' Plastic Hydraulic Hose w/ CH604 coupler	2 lbs
HC927	10' Rubber Hydraulic Hose w/ CH604 coupler	4 lbs
HF100	Hydraulic Oil, Quart—ISO Grade 32	2 lbs
HF101	Hydraulic Oil, Gallon—ISO Grade 32	8 lbs

Couplers

Part #	Description	Weight
A630	Hydraulic Coupler: 1/4" Female Half	.5 lb
	Hydraulic Coupler: 1/4" Male Half	.5 lb
C604	Hydraulic Coupler: 3/8" High-flow Female Half	.5 lb
	Hydraulic Coupler: 3/8" High-flow Male Half	.5 lb
CD411	Universal Dust Cap for CR400 & CH604, plastic	.1 lb

Smooth Saddles

Part #	For Use With	2A Thread	Weight
A12	10-ton Cylinders	1 - 8 UNC	5 lbs
A29	25 ton Cylinders	1 1/2 - 16 UNC	7 lbs

tip: When ordering a replacement hydraulic cylinder for your bender you must also order a new smooth saddle. See chart above.

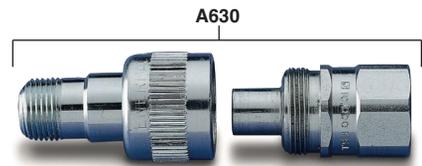
note: When installing a new saddle, apply LOCTITE® thread locker to threads prior to installation.



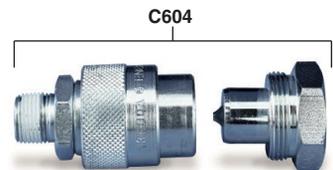
HF101



H864

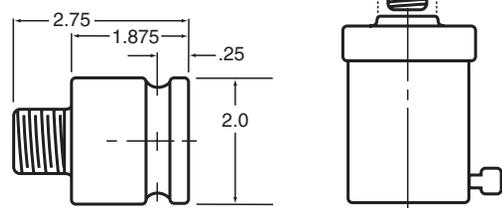


A630

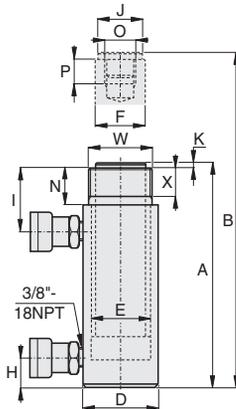


C604

A12/A29 Dimensions

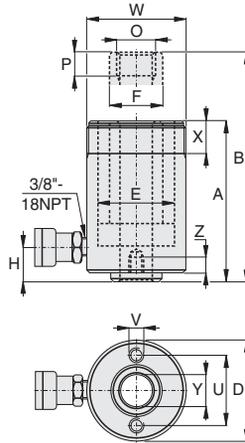


Hydraulic Cylinder Specifications

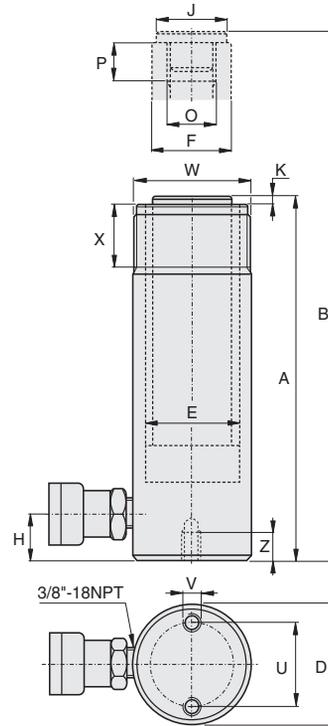


CD1012, CD308,
 CD3014 models

CH1211 has a 1.88" diameter base that protrudes .25" from base.



CH1211 model



CS106, CS1010,
 CS2510, CS2514 models

		CH1211	CS106	CS1010	CS2510	CS2514	CD1012	CD308	CD3014
Cylinder Capacity (tons)		12.00	10.00	10.00	25.00	25.00	10.00	30.00	30.00
Stroke (in)		1.63	6.13	10.13	10.25	14.25	12.00	8.25	14.50
Max Cylinder Capacity (tons)	Push						10.00	30.00	30.00
Max Cylinder Capacity (tons)	Pull						4.00	5.00	5.00
Cylinder Effective Area (in ²)		2.77	2.23	2.23	5.15	5.15			
Cylinder Effective Area (in ²)	Push						2.23	6.51	6.51
Cylinder Effective Area (in ²)	Pull						0.80	3.00	3.00
Oil Capacity (in ³)		4.52	13.67	22.59	52.79	73.39			
Oil Capacity (in ³)	Push						26.80	53.67	92.70
Oil Capacity (in ³)	Pull						9.00	25.00	43.00
Collapsed Height (in)	A	4.75	9.75	13.75	14.75	18.75	18.00	15.25	21.63
Extended Height (in)	B	6.38	15.88	23.88	25.00	33.00	30.00	23.50	36.13
Outside Diameter (in)	D	2.75	2.25	2.25	3.38	3.38	2.88	4.00	4.00
Cylinder Bore Diameter (in)	E	2.13	1.69	1.69	2.56	2.56	1.69	2.88	2.88
Plunger Diameter (in)	F	1.38	1.50	1.50	2.25	2.25	1.38	2.13	2.13
Cyl. Base to Advance Port (in)	H	0.75	0.75	0.75	1.00	1.00	1.44	1.44	1.56
Top to Ret. Port (in)	I						2.25	3.19	3.19
Saddle Diameter (in)	J	—	1.38	1.38	2.00	2.00	1.38	2.00	2.00
Saddle Protr. from Plunger (in)	K	—	0.25	0.25	0.41	0.41	0.06	0.41	0.41
Plunger Internal Thread (in)	O	3/4-16	1-8	1-8	1 1/2-16	1 1/2-16	1-8	1 1/2-16	1 1/2-16
Plunger Thread Length (in)	P	0.63	0.75	0.75	1.00	1.00	1.00	1.00	1.00
Base Mounting Holes									
Bolt Circle Diameter (in)	U		1.56	1.56	2.31	2.31	—	—	—
Thread (in)	V		5/16-18	5/16-18	1/2-13	1/2-13	—	—	—
Thread Depth (in)	Z		.50	.50	.75	.75	—	—	—
Collar Thread (in)	W	2 3/4-16	2 1/4-14	2 1/4-14	3 5/16-12	3 5/16-12	2 1/4-14	3 5/16-12	3 5/16-12
Collar Thread Length (in)	X	1.19	1.13	1.13	1.94	1.94	1.06	1.94	1.94
Center Hole Diameter (in)	Y	0.77							
Weight (lbs)		6.20	9.80	14.00	31.00	39.00	31.00	40.00	64.00
Rating (tons)		12	10	10	25	25	10	30	30
Saddle (sold separately) (tons)		12	10	10	25	25	10	30	30

Mechanical Sidewinder™ Benders

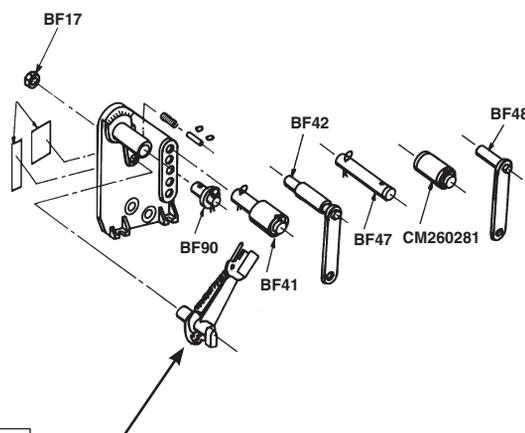
A fully portable system that bends:

- 1/2" to 1 1/2" rigid steel, rigid aluminum, PVC-Coated rigid and IMC conduit.
- 1/2" to 2" EMT conduit.
- Removable bender can be bolted onto workbench or truck bed for unparalleled flexibility.
- 0° to 90° bend indicator built into the frame shows bend angle while bending.
- Double-dog ratchet prevents shoe spring-back during bends; allows fast release after bending.
- Interchangeable shoes adapt single bender frame to cover widest range of conduit types.



BWF800 Bender Head Assembly

Part #	Description	Weight
BWF888	Sidewinder™ Bender w/ out Shoe Groups	64 lbs
BF41	Urethane Roller Assembly & Shaft Assembly	3 lbs
BF42	2" EMT Strap	8 lbs
BF43	Frame, Retainer Pin and Decals	25 lbs
BF47	Shaft Assembly	3 lbs
BF48	2" Steel Sleeve and Strap Kit	4 lbs
BF49	Ratchet Assembly	9 lbs
BF52	Bend Instruction Decals	1 lb
BF90	Shoe Lock Kit (upgrade older frames)	2 lbs
BT12520	Insert Teeth (for 1 1/4" - 1 1/2" and 2" shoes)	1 lb
CM260281	Urethane Roller Only	1 lb



Jaws attach to shoes with chain.



Repair Kits for BF49

Part #	Description
BW72	Lever and Washer Kit
BW74	Drive Pawl and Spring Kit
BW75	Hold Pawl and Spring Kit
BW76	Pin and Spring Kit

See Repair Parts Sheet for a detailed breakdown of these kits.

tip: A bend handle is not included with these units. A 6 ft. piece of 1" Dia. Rigid conduit can be used.

Bending Shoes

Part #	Clamping Jaw Range	Conduit	Weight	Clamping Jaw Part #	Weight
BT57510	1/2", 3/4" & 1"	EMT	15 lbs	BZ1306	2 lbs
BT12515	1 1/4" - 1 1/2"	1 1/2" EMT	34 lbs	BZ1307	4 lbs
BT2000*	2"	EMT	39 lbs	BZ13081	4 lbs
BR57510	1/2", 3/4" & 1"	Rigid & IMC	18 lbs	BZ1306	2 lbs
BR12515	1 1/4" - 1 1/2"	Rigid & IMC	28 lbs	BZ1307	4 lbs
BR20000	2"	Aluminum Rigid	33 lbs	BZ1308	3 lbs

*Shoe includes BZ1345 follow bar and strap.

Sidewinder™ ½" - 1" Rigid / IMC Bender

Bends ½", ¾" and 1" rigid steel and IMC conduit.

- Shoe lock slips into place and removes easily for quick change-outs.
- Fully portable.



Part #	Weight	Contains		
		Part #	Description	Weight
BW11	78 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BR57510	½", ¾" & 1" Rigid & IMC Shoe	18 lbs

Sidewinder™ 1¼" - 1½" Rigid / IMC Bender

Bends 1¼" and 1½" rigid steel and IMC conduit.

- Shoe tooth inserts can be replaced in the field which allows extended service life.
- Order part number BT112520.



Part #	Weight	Contains		
		Part #	Description	Weight
BW12	88 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BR12515	1¼" & 1½" Rigid & IMC Shoe	28 lbs

Sidewinder™ ½" - 1½" Rigid / IMC Bender

Bends ½" to 1½" rigid steel and IMC conduit.

- Combines features and bending capabilities of BW11 and BW12.
- Able to handle the most commonly used rigid and IMC conduit sizes.



Part #	Weight	Contains		
		Part #	Description	Weight
BW15	106 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BR57510	½", ¾" & 1" Rigid & IMC Shoe	18 lbs
		BR12515	1¼" & 1½" Rigid & IMC Shoe	28 lbs

Sidewinder™ Rigid / IMC & Rigid Aluminum Conduit Bender

Bends 1/2" to 1 1/2" rigid and IMC and 2" rigid aluminum conduit. Adds 2" rigid aluminum conduit bending capability to 1/2" to 1 1/2" rigid and IMC capacity of BW15 Sidewinder™.

- Larger shoes feature field-replaceable tooth inserts for extended service life.
- Set includes metal storage box.



		Contains		
Part #	Weight	Part #	Description	Weight
BW20	175 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BW20S (Shoe Set)	BR57510 1/2", 3/4" & 1" Rigid & IMC Shoe	18 lbs
			BR12515 1 1/4" & 1 1/2" Rigid & IMC Shoe	28 lbs
			BR20000 2" Rigid Aluminum Shoe	33 lbs
		CM4 4-cubic-foot Case	26 lbs	

Shoes available separately or as a BW20S Set

Sidewinder™ Bender for All Conduit Types

Bends 1/2" to 1 1/2" rigid and IMC, 1/2" to 2" EMT, 1/2" to 2" rigid aluminum and 1/2" to 1 1/2" PVC-coated rigid conduit.

- The most comprehensive Sidewinder™ set for every job.
- Larger shoes feature filed-replacement-tooth inserts for extended service life.
- Set includes metal storage box.



		Contains		
Part #	Weight	Part #	Range	Weight
BW30	290 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BW30S (Shoe Set)	BT57510 1/2", 3/4", & 1" EMT Shoe	18 lbs
			BT12515 1 1/4" & 1 1/2" EMT Shoe	28 lbs
			BT2000 2" EMT Shoe	28 lbs
		BR57510 1/2", 3/4" & 1" Rigid & IMC Shoe	28 lbs	
		BR12515 1 1/4" & 1 1/2" Rigid & IMC Shoe	28 lbs	
		BR20000 2" Rigid Aluminum	28 lbs	
		CM7 7-cubic-foot Case	51 lbs	

Sidewinder™ Bender for Most Conduit Types

Bends 1/2" to 1 1/2" rigid and IMC, 1 1/4" to 2" EMT and 1" to 1 1/2" PVC-coated rigid conduit.

- The economical choice for bending the most popular sizes of rigid/IMC and larger EMT conduit.
- Set includes metal storage box.



Part #	Weight	Contains		Weight
		Part #	Description	
BW27	210 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BW27S (Shoe Set)	BT12515 1 1/4" & 1 1/2" EMT Shoe	28 lbs
			BT2000 2" EMT Shoe	39 lbs
			BR57510 1/2", 3/4" & 1" Rigid & IMC Shoe	18 lbs
			BR12515 1 1/4" & 1 1/2" Rigid & IMC Shoe	28 lbs
		CM4 4-cubic-foot Case	26 lbs	

Shoes available separately or as a BW27S Set

Sidewinder™ EMT & PVC-Coated Rigid Conduit Bender

Bends 2" EMT and 1 1/2" PVC-coated rigid conduit.

- Field-replaceable shoe-tooth inserts extend service life.
- Order part number BT112520.



Part #	Weight	Contains		Weight
		Part #	Description	
BW201	99 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BT2000	2" EMT Shoe	39 lbs

Sidewinder™ EMT & PVC-Coated Rigid Conduit Bender

Bends 1/2" to 2" EMT and 1/2" to 1 1/2" PVC-coated rigid conduit.

- Larger shoes feature filed-replacement-tooth inserts for extended service life.
- Set includes metal storage box.



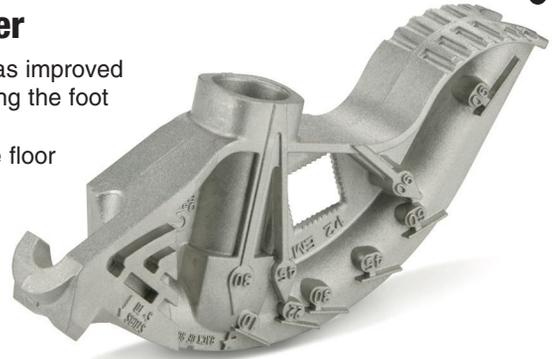
Part #	Weight	Contains		Weight
		Part #	Description	
BW221	184 lbs	BWF888	Sidewinder™ Bender Frame	64 lbs
		BW221S (Shoe Set)	BT57510 1/2", 3/4" & 1" EMT Shoe	18 lbs
			BT12515 1 1/4" & 1 1/2" EMT Shoe	28 lbs
			BT2000 2" EMT Shoe	39 lbs
		CM4 4-cubic-foot Case	26 lbs	



INNOVATION

NEW Big Ben® Conduit Hand Bender

GB's new series of Big Ben® aluminum hand benders has improved traditional hand benders by enlarging the hook, increasing the foot pedal size and clearance, highlighting the markings and incorporating a dual sight-line system for bending on the floor or in the air. GB's new Big Ben® series offers industry standard markings to simplify the contractor's job. Made of rugged, heat-treated aluminum, the Big Ben® series is backed by a lifetime warranty and is available in the most common sizes of 1/2", 3/4" and 1".



- All models include embossed sight lines for 10°, 22°, 30°, 45°, 60° and 90°.
- Industry-standard markings— 30° bend when handle is straight up.
- Bigger hook with a 5x durability factor.
- Bigger foot pedal— 40% larger.
- More foot room allows for a booted foot.
- Bend-back channel easily corrects conduit over-bends.
- Vise-Mate™ holds conduit while cutting or reaming.

SEE PG **61** FOR MORE INFO ON **Handles**



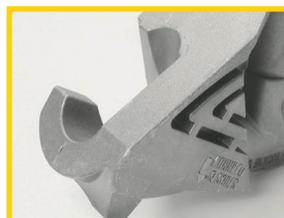
These benders available with or without high-strength steel handle

Lifetime Warranty

Part Number	960		961		962	
	Head Only	Head & Handle	Head Only	Head & Handle	Head Only	Head & Handle
Description	Head Only	Head & Handle	Head Only	Head & Handle	Head Only	Head & Handle
Application	1/2" EMT		3/4" EMT / 1/2" Rigid		1" EMT / 3/4" Rigid	
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Weight	1.34 lbs	5.06 lbs	1.58 lbs	5.34 lbs	3.16 lbs	7.01 lbs
Bend Radius	3.69"	3.69"	4.74"	4.74"	5.81"	5.81"
EMT Size	1/2"	1/2"	3/4"	3/4"	1"	1"
Rigid Size	—	—	1/2"	1/2"	3/4"	3/4"



Industry Standard Style
30° bend when handle is straight up



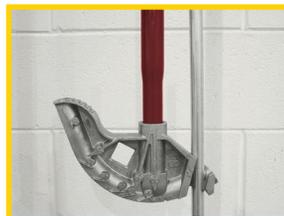
Bigger Hook
With a 5x durability factor



Bigger Foot Pedal
40% larger



More Foot Room
Allows for a booted foot



Bend-Back Channel
Easily corrects conduit over-bends



Vise-Mate™
Holds conduit while cutting or reaming

GB EXCLUSIVE! Gardner™ EMT / Rigid
 Aluminum Hand Benders (Series 930B-933)

Bends 1/2" to 1 1/4" EMT, and 1/2" to 1" rigid and rigid aluminum conduit.

- Built-in acrylic level gauge helps make precise bends in half the time.
- All models include embossed sight lines for 10°, 22.5°, 30°, 45°, 60° and 90°.
- Patented Vise-Mate™ holds conduit steady as it is cut to appropriate size.



These benders are available with or without high-strength steel handle

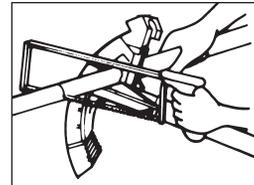
Lifetime
 Warranty

SEE PG
61

FOR MORE INFO ON
Handles



Part Number	930B	930H	931B	931H
Description	Head Only	Head & Handle	Head Only	Head & Handle
Application	1/2" EMT		3/4" EMT / 1/2" Rigid	
Fits Handle #	BH-75	Included	BH-75	Included
Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight	.8 lbs	5.3 lbs	2.3 lbs	6.4 lbs
Bend Radius	5"	5"	6"	6"
EMT Size	1/2"	1/2"	3/4"	3/4"
Rigid Size	—	—	1/2"	1/2"



Insert conduit through Vise-Mate™ opening and cut to desired length.

Iron Hand Benders (Series 920-923)

Bends 1/2" to 1 1/4" EMT and 1/2" to 1" rigid and rigid aluminum conduit.

- Cast-in-place degree marks facilitate accurate bends.
- Constructed of rugged-malleable iron for strength and durability.
- Arrow and diamond indicate beginning and back-of-bend locations.

Lifetime
Warranty



These benders are available with or without high-strength steel handle

SEE PG
61



FOR MORE INFO ON
Handles

Part Number	920		921	
	Head Only	Head & Handle	Head Only	Head & Handle
Description	Head Only		Head Only	
Application	1/2" EMT		3/4" EMT / 1/2" Rigid	
Fits Handle #	BH-75	Included	BH-75	Included
Material	Iron		Iron	
Weight	2.7 lbs	7.2 lbs	5 lbs	9.6 lbs
Bend Radius	5"	5"	6"	6"
EMT Size	1/2"	1/2"	3/4"	3/4"
Rigid Size	—	—	1/2"	1/2"

Part Number	922		923
	Head Only	Head & Handle	Head Only
Description	Head Only		Head Only
Application	1" EMT / 3/4" Rigid		1 1/4" EMT / 1" Rigid
Fits Handle #	BH-100	Included	BH-125
Material	Iron		Iron
Weight	4.9 lbs	14.5 lbs	14 lbs
Bend Radius	8"	8"	11"
EMT Size	1"	1"	1 1/4"
Rigid Size	3/4"	3/4"	1"

Hand Bender Handles

High quality, pre-threaded bender handles for all Gardner Bender™ bender heads.

- Constructed of high-strength steel.
- Powder painted for increased durability.
- Comfort grip design ensures increased grasping capabilities.



Part #	Size	Fits Aluminum Bender #	Fits Iron Bender #	Weight
BH-75*	3/4" NPT x 38" long	930B, 931B, 960, 961	920, 921	3.5 lbs
BH-100*	1" NPT x 44" long	932, 962, 820, 821	922	5.5 lbs
BH-125	1 1/4" NPT x 54" long	933, 822	923	7.2 lbs

* Patented

Hickey Bending Heads

For 1/2" to 1" rigid conduit.

- Manufactured using permanent mold process with high-strength, heat-treated aluminum.
- Lightweight and extremely durable.

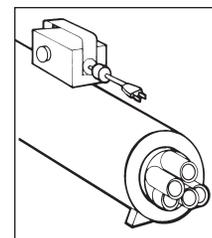


Part #	Rigid Size	Fits Bender Handle #	Weight
820	1/2"	BH-100	.9 lb
821	3/4"	BH-100	1.2 lbs
822	1"	BH-125	2.2 lbs

GB EXCLUSIVE! HotTube™ PVC Bender for 1/2" to 2" Conduit (schedule 40-80)

This high-production bender can simultaneously heat up to five lengths of 1/2" conduit and up to three lengths of 3/4" conduit, without rotating.

- Adjustable thermostatic control heats conduit fast and maintains perfect bending temperature.
- Patented technology enables HotTube™ to maintain temperature in wide range of ambient temperatures and wind conditions.
- No need to rotate conduit. Won't burn or scorch.
- Insulated, weatherproof housing provides safe, cool operation—unit is portable immediately after use.
- Dimensions: 27 3/8" x 5 1/2" x 8 1/2".
- Temperature Range: 0 °F - 350 °F.



Part #	Description	Power Requirements			Weight
		Watts	Volts	Amps	
BHT-520A	1/2" - 2" HotTube™	1440	115/120	12	24 lbs

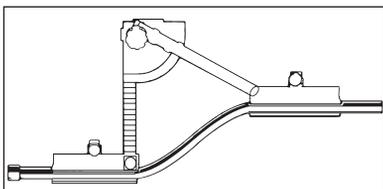
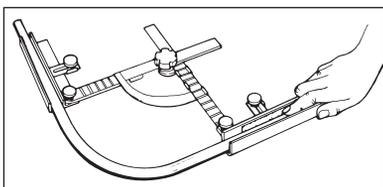
HotBox™ PVC Bender for ½" to 2" Conduit (schedule 40-80)

Complete PVC bending system includes Bend-Guide™ bending gauge.

- Highly polished reflector surfaces heat conduit quickly and evenly.
- Low power consumption.
- Lightweight with convenient carrying handle and cover clasp.
- Bending guide adjusts for 0° to 90° bend segments in any radius from 6" to 12".
- Dimensions: 29½" x 7" x 7⅛".
- Temperature Range: 0 °F - 450 °F.



Part #	Description	Power Requirements			Weight
		Watts	Volts	Amps	
BHB-520D	½" - 2" HotBox™	1450	115/120	12	17 lbs
BHE-50K	Replacement Heating Element	1450	115/120	12	1 lb



Convenient Bend-Guide™ is included with every BHB-520D.

HotBox™ PVC Bender for ½" to 4" Conduit (schedule 40-80)

Meets most PVC bending needs. Accommodates conduit range from ½" to 4".

- Highly polished reflector surfaces heat conduit quickly and evenly.
- Large wheels provide job-site portability.
- Allows conduit to be reheated and reformed.
- Dimensions: 54½" x 8½" x 11½".
- Temperature Range: 0 °F - 400 °F.



Part #	Description	Power Requirements			Weight
		Watts	Volts	Amps	
BHB-540A	½" - 4" HotBox™	2400	115/120	20	34 lbs
BHE-540	Replacement Heating Element	2400	115/120	20	3.5 lbs

HotBox™ PVC Bender for ½" to 6" Conduit (schedule 40-80)

Accommodates conduit range from ½" to 6". Specially designed covers and heat flow system allow heating of shorter lengths as well as lengths sufficient for 48" radius, 90° elbows.

- Highly polished reflector surfaces heat conduit quickly and evenly.
- Power drive model automatically rotates conduit 5–6 RPM for faster bends.
- Large wheels provide job-site portability.
- Allows conduit to be reheated and reformed.
- Dimensions: 74" x 11½" x 14".
- Temperature Range: 0 °F - 400 °F.

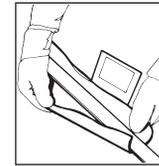


Part #	Description	Power Requirements			Weight
		Watts	Volts	Amps	
BHB-560	½" - 6" HotBox™	5500	230	24	60 lbs
BHB-560P	½" - 6" HotBox™ w/ Power Rotator	5500	230	24	68 lbs
BHE-560	Replacement Heating Element	5500	230	24	8.5 lbs

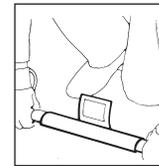
HotBlanket™ PVC Benders for ½" to 4" Conduit (all schedules)

New improvements have made this family of conduit benders the most durable and economical bending system in the industry.

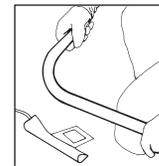
- Internal thermostatic control will not scorch or burn conduit.
- Use in any in-place position.
- Thermostatic control heats pipe fast, even in cold or windy conditions.
- Multiple circuit design extends the life of the blankets.
- Multiple wound heavy-gauge wire ensures the longest life of any bending blanket.



Wrap



Heat



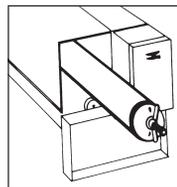
Bend

Part #	Conduit Size	Dimensions (L x W)	Power Requirements			Weight
			Watts	Volts	Amps	
BB5150	½" - 1½"	18" x 7½"	310	120	2.6	2 lbs
BB2030	2" - 3"	25" x 11¼"	690	120	6.3	3 lbs
BB3040	3" - 4"	36" x 14⅜"	1120	120	10.2	6 lbs

PVC Plug Set

Prevents conduit from collapsing or deforming by supporting the inside surface during heating and bending.

- Decreases heating time by trapping hot air in the conduit.
- Use with 2" and larger conduit.
- Includes durable storage case.



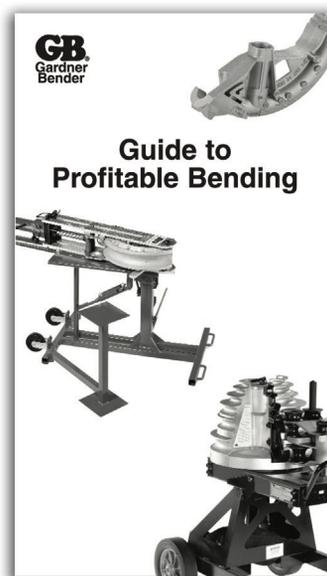
Part #	Description	Weight	Components	
			Description	Weight
BVS-240	2" - 4" PVC Plug Set	6 lbs	2" PVC Plug	.32 lb
			2½" PVC Plug	.38 lb
			3" PVC Plug	.44 lb
			4" PVC Plug	.44 lb

Guide to Bending Booklet

Easy-to-use instructions for completing multiple types of conduit bends.

- Contains quick reference charts and guides.
- Easy to carry.
- Provided at no charge.

Part #	Description
E507	Guide to Profitable Bending Booklet



Tool-Guard™ Metal Storage Cases

Shelter equipment from dust, grease, dirt or loss on the jobsite, maintenance area or shop.

- Constructed of durable 16-gauge steel with quality arc-welded seams.
- Dual rolled-lip design resists sprung hinges, keeps cover aligned, adds rigidity and strength.
- Continuous heavy-duty hinges stand up to rugged use.
- Water-resistant design retards leakage.
- Bottom skids enhance protection and permit easy forklift movement.
- Recessed closure shields padlock from cutting and prying attempts. (lock not included).
- Painted with rust-resistant primer and finished in durable red enamel.

tip: Use #5 Master Lock® lock when locking boxes.



CM7



CM20

Part #	Size cu. in.	Inside Dimensions				Shelf Dimensions		Weight
		Length	Width	Rear Height	Front Height	Length	Width	
CM4	4½	31"	14"	14"	14"	–	–	56 lbs
CM7	8	36"	19"	18"	18"	–	–	98 lbs
CM20	28	60"	24"	28"	28"	59½"	5¼"	182 lbs