

▼ Shown: Master Puller Set BHP-3751G



Multi Purpose Puller Set



WARNING

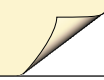
Do not exceed 50% of the rated puller capacity when using two jaw configurations, a double crosshead (2 grip arms) or when using puller legs in combination with bearing puller attachments.

- Supplied with a full hydraulic set including pump, hose, cylinder, gauge, gauge adaptor and wooden case
- High quality, forged steel components provide superior reliability and service
- Sets include speed crank and adjusting screw for fast contact to work before hydraulics are applied
- All Master Puller Sets include a Grip Puller, a Cross Bearing Puller, a Bearing Cup Puller and a Bearing Separator, which can be ordered separately, see items nr. 10, 20, 30 and 40.

▼ Maintenance engineers throughout the industry greatly appreciate the Enerpac Master Puller sets



▼ SELECTION CHART

Master Puller Set Capacity *		13 ton	22 ton	33 ton	45 ton **	Page:
Model Number ▶		BHP-1752 ¹⁾	BHP-2751G	BHP-3751G	BHP-5751G	
Included Hydraulics	Set Weight ▶	37 kg	90 kg	172 kg	298 kg	
• Hand Pump		P-142	P-392	P-392	P-80	
• Cylinder		RWH-121	RCH-202	RCH-302	RCH-603	30 ▶
• Saddle		–	HP-2015	HP-3015	HP-5016	31 ▶
• Hose		HB-7206QB	HC-7206	HC-7206	HC-7206	122 ▶
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B	128 ▶
• Gauge Adaptor		GA-4	GA-3	GA-3	GA-3	135 ▶
Included Pullers						
10 Grip Puller		BHP-1762	BHP-252	BHP-352	BHP-552	151 ▶
20 Cross Bearing Puller		BHP-1772	BHP-262	BHP-362	BHP-562	152 ▶
30 Bearing Cup Puller		BHP-180	BHP-280	BHP-380	BHP-580	153 ▶
40 Bearing Separator		BHP-181	BHP-282	BHP-382	BHP-582	153 ▶
• Case		CM-6	CW-350	CW-350	CW-750	

* See warning on this page.

** Puller capacity at 540 bar; maximum cylinder capacity at 700 bar is 60 ton.

¹⁾ Includes Adaptor FZ-1630.

▼ Shown: Grip Puller Set BHP-351G



- Precise hydraulic control allows fast, efficient and safe pulling
- High quality, forged steel components provide superior reliability and service
- Available with and without full hydraulic set.

BHP Series



Capacity:

13, 22, 33 and 45 ton

Reach:

252 - 700 mm

Spread:

249 - 1100 mm

Maximum Operating Pressure:

700 bar

Ordering Example

Model Number BHP-251G:

includes Grip Puller BHP-252 and a full hydraulic set. (Hand pump, cylinder, saddle, hose, gauge and gauge adaptor).

Model Number BHP-252:

includes Grip Puller mechanical parts only, for use with your existing hydraulics.

▼ SELECTION CHART

Grip Puller Set Capacity **		13 ton	22 ton	33 ton	45 ton ***
Model Number ►		BHP-152 ¹⁾	BHP-251G	BHP-351G	BHP-551G
Included Hydraulics Set Weight ►		22 kg	56 kg	91 kg	160 kg
• Hand Pump		P-142	P-392	P-392	P-80
• Cylinder		RWH-121	RCH-202	RCH-302	RCH-603
• Saddle		–	HP-2015	HP-3015	HP-5016
• Hose		HB-7206QB	HC-7206	HC-7206	HC-7206
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B
• Gauge Adaptor		GA-4	GA-3	GA-3	GA-3
10	Grip Puller Model Number ►	BHP-1762 *	BHP-252 *	BHP-352 *	BHP-552 *
Maximum Spread (mm)	2-jaw	249	400	593	899
	3-jaw	249	499	800	1100
Maximum Reach (mm)	2-jaw	252	300	387	700
	3-jaw	252	300	387	700
Jaw (mm)	Thickness	15	20	24	30
	Width	23	27	38	39
Adjusting Screw (mm)	Thread	¾" - 16 UNF	1" - 8 UNC	1¼" - 7 UNC	1½" - 5.5 UNS
	Length	400	670	790	975
• Case		CW-166	CW-166	CW-350	CW-750

¹⁾ Includes Adaptor FZ-1630.

* Grip Puller order number without hydraulics.

** See warning on page 150.

*** Puller capacity at 540 bar; maximum cylinder capacity at 700 bar is 60 ton.

BHP-Series, Cross Bearing Puller Sets

▼ Shown: Cross Bearing Puller Set BHP-361G



- Precise hydraulic control allows fast, efficient and safe pulling
- High quality, forged steel components provide superior reliability and service.

BHP Series



Capacity:

6, 11, 16 and 22 ton

Reach:

357 - 864 mm

Spread:

260 - 580 mm

Maximum Operating Pressure:

350 bar



The cross bearing puller without hydraulics, bearing cup puller and a bearing separator can be ordered separately, see items nr. 10, 20, 30 and 40.

▼ SELECTION CHART

Cross Bearing Puller Set Capacity		6 ton	11 ton	16 ton	22 ton	
	Model Number ▶	BHP-162 ¹⁾	BHP-261G	BHP-361G	BHP-561G	
Included Hydraulics	Set Weight ▶	26 kg	62 kg	121 kg	185 kg	
• Hand Pump		P-142	P-392	P-392	P-80	
• Cylinder		RWH-121	RCH-202	RCH-302	RCH-603	
• Saddle		–	HP-2015	HP-3015	HP-5016	
• Hose		HB-7206QB	HC-7206	HC-7206	HC-7206	
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B	
• Gauge Adaptor		GA-4	GA-3	GA-3	GA-3	
20	Cross Bearing Puller ²⁾	Model Number ▶	BHP-1772	BHP-262	BHP-362	BHP-562
Spread (mm)	Maximum	260	345	440	580	
	Minimum	115	140	180	220	
Reach (mm)	Maximum	357	570	710	864	
Adjusting Screw (mm)	Diameter	3/4" - 16 UNF	1" - 8 UNC	1 1/4" - 7 UNC	1 5/8" - 5.5 UNS	
	Length	400	675	795	975	
Leg (mm)	Length	105	239	203	609	
	Length	357	419	457	863	
	Length	–	571	711	–	
	Length	–	114	–	–	
Upper Leg Ends (mm)	Thread	3/4" - 16 UNF	3/4" - 16 UNF	1-14 UNS	1 1/4" - 12 UNF	
Lower Leg Ends (mm)	Thread	5/8" - 18 UNF	5/8" - 18 UNF	1-14 UNS	1 1/4" - 12 UNF	
30	Bearing Cup Puller ²⁾	Model Number ▶	BHP-180	BHP-280	BHP-380	BHP-580
40	Bearing Separator ²⁾	Model Number ▶	BHP-181	BHP-282	BHP-382	BHP-582
• Wooden Case		CM-6	CW-187	CW-350	CW-750	

¹⁾ Includes Adaptor FZ-1630.

²⁾ Can be ordered separately without hydraulic components, see next page.

Bearing Cup Pullers and Bearing Separators

▼ Shown: BHP-380



Bearing Cup Puller

- Made of high strength steel alloy
- Easily adapted to Cross Bearing Pullers for fast and efficient removal of the most difficult parts
- Adjustable to fit a variety of bearings and seals.

BHP Series



Capacity:

6, 11, 16 and 22 ton

Maximum Reach:

115 - 150 mm

Spread Range:

145 - 240 mm

Maximum Operating Pressure:

350 bar

▼ SELECTION CHART

Capacity *		6 ton	11 ton	16 ton	22 ton
30 Bearing Cup Puller					
Model Number ▶		BHP-180	BHP-280	BHP-380	BHP-580
Spread (mm)	Max.	145	160	240	240
	Min.	40	32	60	60
Reach (mm)	Max.	115	140	150	150
Center Screw	Thread	3/4" - 16 UNF	1" - 8 UNC	1 1/4" - 7 UNC	1 5/8" - 5.5 UNS

* Puller capacity, not attachment capacity. See warning on this page.



WARNING

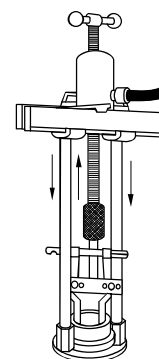
Do not exceed 50% of the rated puller capacity when using a double crosshead (2 grip arms) or when using puller legs in combination with bearing puller attachments.

▼ Shown: BHP-382

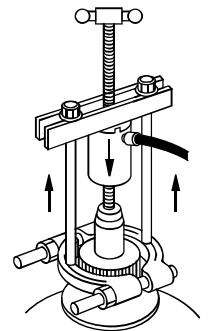


Bearing Separator

- Made of high strength steel alloy
- Wedge-shaped edges allow removal of the most hard-to-grip components
- Easily adapted to Cross Bearing Pullers for fast and efficient removal of the most difficult parts.



◀ Bearing Cup Puller shown with Crosshead Puller Attachment.



Bearing Separator shown with Crosshead Puller Attachment. ▶

▼ SELECTION CHART

Capacity *		6 ton	11 ton	16 ton	22 ton
40 Bearing Puller					
Model Number ▶		BHP-181	BHP-282	BHP-382	BHP-582
Spread (mm)	Max.	110	134	250	250
	Min.	10	12	17	17
Width (mm)		110	155	260	260
Thread		5/8" - 18 UNF	3/4" - 18 UNF	1" - 14 UNS	1 1/4" - 12 UNF

* Bearing Separator rated at 50% of puller capacity. See warning on this page.



Bearing Separator

Bearing Separator has wedge shaped edges for placing puller behind hard to reach bearings, gears, etc., where clearance prevents direct application of grip puller arms.

The Bearing Separator can be used with the Cross Bearing Puller or the Grip Puller.

▼ Shown from left to right: EP-206, EP-108



- Patented 'Safety Cage' jaw retention system
- Roll threaded shafts for less effort when applying high torque
- Slim tapered jaws for improved gripping in tight spots
- Available in 2 and 3 jaw design and inside and outside pulling configuration
- More efficient pulling, as one man can do the job where manual pullers often require two operators.



For Safer and Faster Pulling



Long Jaws

Long Jaws are used to increase the reach and spread of manual pullers. They maintain the same pulling capacity as the standard jaws, but reduce clamping force by 25%.

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Shaft Attachments

Shaft protectors and extenders are live centers that fit over the standard puller shaft for tip protection and additional reach.

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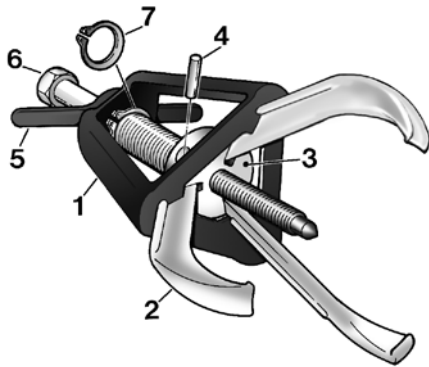
Application Tip

Because of the unique safety cage design, Posi Lock® pullers will grip on surfaces where normal pullers would slip off; e.g. tapered bearings.

◀ Positioning an EP-104, 3-jaw puller on the drive pulley of an electric motor.

Posi Lock® Mechanical Grip Pullers

External Posi Lock® Pullers



- 1 Patented 'Safety Cage' guides jaws, holding them securely onto the part.
- 2 Durable forged jaws provide positive grip.
- 3 Jaw head provides pivot and reaction point for jaws.
- 4 Pin, for easy jaw removal and replacement.
- 5 T-handle provides control of the puller jaws.
- 6 Drive bolt with rolled threads for increased force with reduced input torque.
- 7 Snap-ring retains cage to drive bolt and provides quick removal for easy service.

EP EPP Series



Capacity:

2 - 40 ton

Maximum Reach:


101 - 355 mm

Spread Range:

12 - 635 mm

▼ QUICK SELECTION CHART EXTERNAL PULLERS

For quick technical information see next page.

Number of Jaws	Maximum Reach	Spread (min. - max.)	Capacity	Model Number	Center Bolt Diameter	
	(mm)					
2	101	12 - 127	2 (17)	EP-204	14	1,4
3	101	12 - 127	5 (45)	EP-104	14	1,8
2	152	12 - 178	6 (53)	EP-206	16	3,2
3	152	12 - 178	10 (89)	EP-106	16	3,6
2	203	19 - 304	12 (106)	EP-208	20	5,4
3	203	19 - 304	17 (151)	EP-108	20	6,4
2	245	25 - 381	14 (124)	EP-210	20	5,9
3	245	25 - 381	20 (178)	EP-110	20	7,3
2	304	63 - 457	25 (222)	EP-213	29	17,2
3	304	63 - 457	30 (267)	EP-113	29	20,0
2	355	76 - 635	35 (311)	EP-216	31	25,8
3	355	76 - 635	40 (356)	EP-116	31	30,8



IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



Application Tip

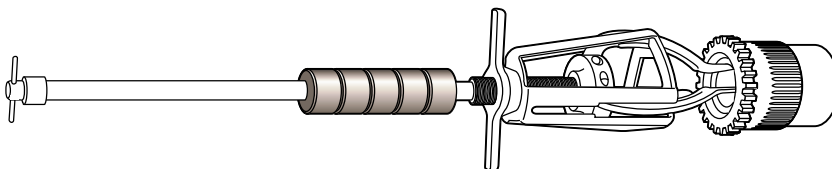
In determining the correct manual puller capacity for your application, use the following rule:

The center bolt diameter of the puller should be at least ½ the diameter of the shaft being pulled on.


Example:

A part being pulled from a shaft with a diameter of 38 mm would require a puller with a center bolt diameter of at least 19 mm.

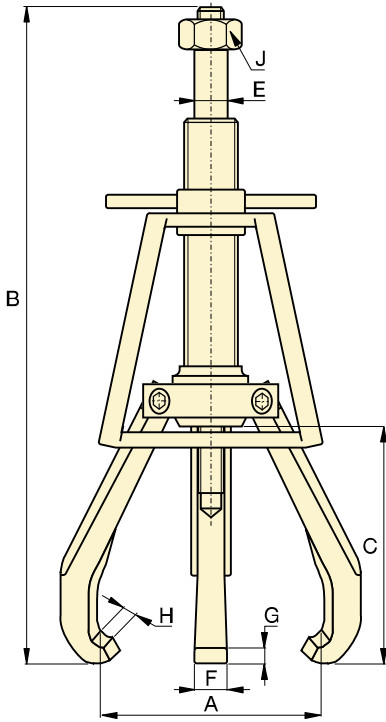
Internal Posi Lock® Puller



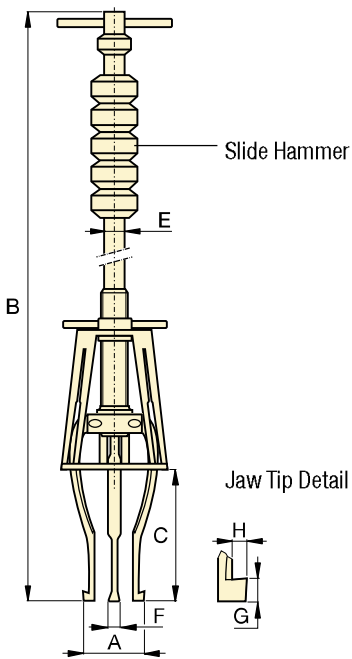
▼ QUICK SELECTION CHART INTERNAL PULLERS

Number of Jaws	Maximum Reach	Spread (min. - max.)	Jaw Style	Model Number	Jaw Length	
	(mm)					
3	168	14 - 101	Standard *	EPPMI-6	168	3,9
	218	25 - 133	Long *		218	3,9

* Both Standard and Long Jaws are included with EPPMI-6.



**2 and 3 Jaw External Puller
EP-Series**



**Internal Puller
EPPMI-6**



▲ EP-204 2 jaw puller positioned to pull a water pump drive pulley.

▼ QUICK SELECTION CHART EXTERNAL PULLERS

Number of Jaws	Maximum Reach (mm)	Spread min. - max. (mm)	Capacity ton (kN)	Model Number	Center Bolt Diameter (mm)	Maximum Torque (Nm)
2	101	12 - 127	2 (17)	EP-204	14	27
3	101	12 - 127	5 (45)	EP-104	14	54
2	152	12 - 178	6 (53)	EP-206	16	102
3	152	12 - 178	10 (89)	EP-106	16	176
2	203	19 - 304	12 (106)	EP-208	20	203
3	203	19 - 304	17 (151)	EP-108	20	298
2	245	25 - 381	14 (124)	EP-210	20	237
3	245	25 - 381	20 (178)	EP-110	20	373
2	304	63 - 457	25 (222)	EP-213	29	644
3	304	63 - 457	30 (267)	EP-113	29	814
2	355	76 - 635	35 (311)	EP-216	31	1085
3	355	76 - 635	40 (356)	EP-116	31	1153

▼ QUICK SELECTION CHART INTERNAL PULLERS

Number of Jaws	Maximum Reach (mm)	Spread min. - max. (mm)	Jaw Style	Model Number	Jaw Length (mm)	Slide-hammer weight (kg)
3	168	14 - 101	Standard *	EPPMI-6	168	1,1
	218	25 - 133	Long *		218	1,1

* Both Standard and Long Jaws are included with EPPMI-6.

Posi Lock® Mechanical Pullers



Shaft Attachments

Shaft protectors and extenders are live centers that fit over the standard puller shaft for tip protection and additional reach.



Long Jaws

Long Jaws are used to increase the reach and spread of pullers. They maintain the same pulling capacity as the standard jaws, but reduce clamping force by 25%.

EP EPP Series



Capacity:

2 - 40 ton

Maximum Reach:

101 - 355 mm

Spread Range:

12 - 635 mm

▼ SHAFT ATTACHMENTS

Length (mm)	Dia- meter (mm)	Increases Center Bolt Length (mm)	Model Number
25	19	9	EPP-4
50	19	38	EPX-4
31	22	12	EPP-6
50	22	38	EPX-6
31	25	12	EPP-10
50	25	38	EPX-10
50	35	21	EPP-1316

▼ LONG JAWS

Spread min. - max. (mm)	Max. Reach (mm)	Model Number
57 - 381	245	EP-11054
38 - 558	400	EP-11054L
38 - 762	508	EP-11354L
25 - 133	218	EP-10554L*

* for EPPMI-6 only

Dimensions (mm)									Model Number	Optional Accessories		
Spread min. - max. A	Overall Length B	Max. Reach C	Center Bolt Diam. E	Jaw Width F	Tip Clearance G	Tip Depth H	Hex Socket Size (inch) J	Shaft Protectors EPP-4 EPX-4		Shaft Extenders EPP-6 EPX-6 EPP-10 EPX-10	Long Jaws EP-11054 EP-11054L EP-11354L	
12 - 127	245 - 323	101	14	15	4,1	4,6	7/8	EP-204	EPP-4	EPX-4	-	
12 - 127	245 - 323	101	14	15	4,1	4,6	7/8	EP-104	EPP-4	EPX-4	-	
12 - 178	323 - 476	152	16	19	8,1	6,1	1 1/16	EP-206	EPP-6	EPX-6	-	
12 - 178	323 - 476	152	16	19	8,1	6,1	1 1/16	EP-106	EPP-6	EPX-6	-	
19 - 304	412 - 615	203	20	22	6,4	9,1	1 1/4	EP-208	EPP-10	EPX-10	EP-11054	
19 - 304	412 - 615	203	20	22	6,4	9,1	1 1/4	EP-108	EPP-10	EPX-10	EP-11054	
25 - 381	489 - 736	245	20	25	6,4	9,1	1 1/4	EP-210	EPP-10	EPX-10	EP-11054L	
25 - 381	489 - 736	245	20	25	6,4	9,1	1 1/4	EP-110	EPP-10	EPX-10	EP-11054L	
63 - 457	660 - 965	304	29	31	12,7	9,7	1 11/16	EP-213	EPP-1316	-	EP-11354L	
63 - 457	660 - 965	304	29	31	12,7	9,7	1 11/16	EP-113	EPP-1316	-	EP-11354L	
76 - 635	800 - 1155	355	31	36	13,5	11,7	1 13/16	EP-216	EPP-1316	-	-	
76 - 635	800 - 1155	355	31	36	13,5	11,7	1 13/16	EP-116	EPP-1316	-	-	

Note: Overall length (B) is dependent on position of center bolt.

Dimensions (mm)							Model Number
Spread min. - max. A	Overall Length B	Max. Reach C	Slide Rod Dia. E	Jaw Width F	Tip Clearance G	Tip Depth H	
14 - 101	736	168	14,2	8	3,0	1,5	EPPMI-6
25 - 133	787	218	14,2	8	7,6	4,6	



Always wear Safety Goggles and Gloves while using pullers.