Enerpac offers a complete line of pullers with the widest range of sizes, capacities and styles. Whether your application requires mechanical, hydraulic or the patented Lock-Grip system, Enerpac can satisfy your requirements.

Made of high strength steel alloys, you can depend on Enerpac pullers to provide years of trouble-free operation, even in the harshest environments.



Hydraulic Pullers (BHP-Series)

These hydraulic pullers eliminate timeconsuming and unsafe hammering, heating or prying. Damage to parts is minimized through the use of controlled hydraulic power.



Lock-Grip Pullers (LG-Series)

The puller's self-centering closing system allows all jaws to move simultaneously, making it easy for a single operator to mount the puller and to perform the application.



Sync-Grip Pullers (SG-Series)

Sync-Grip mechanism synchronizes movement of all jaws for simultaneous engagement and makes positioning the puller simple and helps prevent misalignment.



CAUTION! Not all puller components and configurations are rated at the set capacity. Please contact Enerpac for details.



IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



Puller Section Overview

When selecting a puller it is important to consider 3 basic specifications:

1. The Capacity:

is the amount of force the puller is capable of producing.

Typically, the capacity required for a job can be determined by using the shaft diameter of the part being pulled.

For manual pullers, the center bolt diameter of the puller should be at least half the diameter of the shaft being pulled from.

For hydraulic pullers, the capacity in tons should be 0,28 to 0,4 times the shaft diameter in mm. Use the following chart:

Shaft	Puller
Diameter	Capacity
0 - 25 mm	13 ton
25 - 50 mm	22 ton
50 - 89 mm	33 ton
89 - 140 mm	45 ton

2. The Reach:

is the distance between the bottom of the base and the jaw flats. The puller's reach must equal or exceed the same distance of the part being pulled.

3. The Spread:

is the distance between the jaws. The puller's spread needs to be greater than the width of the part being pulled.

Puller Function	Capacity ton	Puller Type	Series		Page
	13-45	Master Puller Sets Max. Reach: 252 - 700 mm Max. Spread: 247 - 1100 mm	ВНР	THE STATE OF THE S	160 ▶
	13-45	Grip Puller Sets Max. Reach: 252 - 700 mm Max. Spread: 249 - 1100 mm	ВНР		161 🕨
	6-22	Cross Bearing Puller Sets Max. Reach: 357 - 864 mm Max. Spread: 260 - 580 mm	ВНР		162 ▶
	6-22	Bearing Cup Pullers Max. Reach: 115 - 150 mm Max. Spread: 145 - 240 mm	ВНР	典	164 ▶
	6-22	Bearing Separators Max. Width: 110 - 260 mm Max. Spread: 110 - 250 mm	ВНР		164 ▶
	-	Internal/External Mech. Puller Max. Internal Reach: 45 - 79 mm Max. Internal Spread: 60 - 100 mm Max. External Reach: 55 mm Max. External Spread: 15 - 75 mm	IPM	费	165 ▶
	3-40	Mechanical Lock-Grip Pullers Max. Reach: 102 - 335 mm Max. Spread: 132 - 635 mm	LGM	南南	166 ▶
	10-64	Hydraulic Lock-Grip Pullers and Sets Max. Reach: 215 - 408 mm Max. Spread: 300 - 660 mm	LGH LGHS	A PA	168 ▶
	1-20	Mechanical Sync-Grip Pullers Max. Reach: 105 - 600 mm Max. Spread: 110 - 680 mm	SGM	*	172 > 174 >
	13-45	Hydraulic Sync-Grip Pullers and Master Puller Sets Max. Reach: 320 - 700 mm Max. Spread: 350 - 980 mm	SGH MPS	E S	172 > 175 >
	13-45	Hydraulic Sync-Grip Pullers and Sets Max. Reach: 320 - 700 mm Max. Spread: 350 - 980 mm	SGH GPS		176 ▶
	100	Hydraulic Sync-Grip Pullers and Sets Max. Reach: 1000 mm Max. Spread: 1600 mm	SGH GPS		177 ▶

▼ Shown: Master Puller Set BHP3751G



- 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.

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.



IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



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

Master Puller Set Capacity *		13 ton	22 ton	33 ton	45 ton **	Page:
	Model Number ►	BHP1752 1)	BHP2751G	BHP3751G	BHP5751G	
Included Hydraulics	Set Weight ▶	37 kg	90 kg	172 kg	298 kg	
Hand Pump		P142	P392	P392	P80	76-79 ▶
 Cylinder 		RWH121900	RCH202	RCH302	RCH603	34 ▶
Saddle		_	HP2015	HP3015	HP5016	35 ▶
Hose		HC7206C	HC7206C	HC7206C	HC7206C	128 🕨
 Gauge + Adaptor 		GA45GC	GA45GC	GA45GC	GA45GC	142
Included Pullers						
10 Grip Puller		BHP1762	BHP252	BHP352	BHP552	161 🕨
20 Cross Bearing Puller		BHP1772	BHP262	BHP362	BHP562	162-163 ▶
30 Bearing Cup Puller		BHP180	BHP280	BHP380	BHP580	164 🕨
40 Bearing Separator		BHP181	BHP282	BHP382	BHP582	164 🕨
• Case		CM6	CW350	CW350	CW750	

^{*} See warning on this page.

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

¹⁾ Includes Adaptor FZ1055.

Grip Puller Sets

▼ Shown: Grip Puller Set BHP351G



- · 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 BHP251G:

includes Grip Puller BHP252 and a full hydraulic set. (Hand pump, cylinder, saddle, hose, gauge and gauge adaptor).

Model Number BHP252:

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

Grip Puller Set Capacity **		13 ton	22 ton	33 ton	45 ton ***
	Model Number ▶	BHP152 1)	BHP251G	BHP351G	BHP551G
Included Hydraulics	Set Weight ▶	22 kg	56 kg	91 kg	160 kg
Hand Pump		P142	P392	P392	P80
Cylinder		RWH121900	RCH202	RCH302	RCH603
 Saddle 		_	HP2015	HP3015	HP5016
Hose		HC7206C	HC7206C	HC7206C	HC7206C
Gauge + Adaptor		GA45GC	GA45GC	GA45GC	GA45GC
10 Grip Puller	Model Number ►	BHP1762 *	BHP252 *	BHP352 *	BHP552 *
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	3⁄4" - 16 UNF	1" - 8 UNC	1¼" - 7 unc	1%" - 5.5 UNS
	Length	400	670	790	975
• Case		CW166	CW166	CW350	CW750

- 1) Includes Adaptor FZ1055.
- Grip Puller order number without hydraulics.
- ** See warning on page 160.
- *** Puller capacity at 540 bar; maximum cylinder capacity at 700 bar is 60 ton.



BHP-Series, Cross Bearing Puller Sets

ENERPAC. 🛭

▼ BHP361G Hydraulic Cross Bearing Puller Set



- Precise hydraulic control allows fast, efficient and safe pulling
- High quality, forged steel components provide superior reliability and service
- Quick set-up to tackle a variety of jobs.

BHP Series

Capacity

6, 11, 16 and 22 ton

Reach:

357 - 864 mm

Spread

260 - 580 mm

Maximum Operating Pressure:

350 bar



CAUTION! Not all puller components and configurations are rated at the set capacity. Please contact Enerpac for details.

	Cross Bearin	g Puller Sets	
	#	-	T.
Hand Pump	XA11G Air Pump	PUD1300 Electric Pump	XC1201M Cordless Pump
BHP162	BHP162A	BHP162EE *	BHP162CE *
BHP261G	BHP261GA	BHP261GEE *	BHP261GCE *
BHP361G	BHP361GA	BHP361GEE *	BHP361GCE *
BHP561G	BHP561GA	BHP561GEE *	BHP561GCE *

* **E** = 230 V pump. For 115 V change "E" suffix into "**B**".

Cross Bearing Puller Set Capacity		6 ton	11 ton	16 ton	22 ton
	Model Number ▶	BHP162 1)	BHP261G	BHP361G	BHP561G
Included Hydraulics	Set Weight ▶	26 kg	62 kg	121 kg	185 kg
Hand Pump		P142	P392	P392	P80
Cylinder		RWH121900	RCH202	RCH302	RCH603
Saddle		_	HP2015	HP3015	HP5016
Hose		HC7206C	HC7206C	HC7206C	HC7206C
Gauge + Adaptor		GA45GC	GA45GC	GA45GC	GA45GC
20 Cross Bearing Puller 2)	Model Number ▶	BHP1772	BHP262	BHP362	BHP562
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	11/4"- 7 UNC	1%"- 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	11/4"- 12 UNF
Lower Leg Ends (mm)	Thread	5⁄8" - 18 ∪NF	5/8"- 18 UNF	1-14 uns	11/4"- 12 UNF
30 Bearing Cup Puller 2)	Model Number ►	BHP180	BHP280	BHP380	BHP580
40 Bearing Separator 2)	Model Number ▶	BHP181	BHP282	BHP382	BHP582
Wooden Case		CM6	CW187	CW350	CW750

¹⁾ Includes Adaptor FZ1055.

 $^{^{\}mbox{\tiny 2)}}$ Can be ordered separately without hydraulic components, see page 163-164.

Cross Bearing Puller Sets



CAUTION! Not all puller components and configurations are rated at the set capacity. Please contact Enerpac for details.



Dimensions

Dimensional information for all puller models is included in the dimensional overview and dimension guide.

age: / 170

BHP Series



Puller Capacity:

6 - 22 ton

Maximum Reach:

357 - 864 mm

Maximum Spread:

260 - 580 mm

Maximum Operating Pressure:

350 bar



WARNING!

Enerpac cylinder and pump can be operated to 700 bar, but should not be operated past

350 bar pressure when using the cross bearing puller set tools.



1) Choose pump options below.

Puller	Cross Bearing	Cylinder	Maximum	Maximum	Model Numbers Hydraulic Cross Bearing Puller Sets					
Capacity 1)	only Model Number	Stroke	Reach	Spread		#				
			Α	В	Hand	Air Driven	Electric	Cordless		
(ton)		(mm)	(mm)	(mm)	Pump	Foot Pump	Pump ²⁾	Pump ²⁾		
6	BHP1772	25	357	260	BHP162	BHP162A	BHP162EE	BHP162CE		
11	BHP262	49	570	345	BHP261G	BHP261GA	BHP261GEE	BHP261GCE		
16	BHP362	64	710	440	BHP361G	BHP361GA	BHP361GEE	BHP361GCE		
22	BHP562	76	864	580	BHP561G	BHP561GA	BHP561GEE	BHP561GCE		

¹⁾ Puller capacity at 540 bar; maximum cylinder capacity is at 700 bar is 60 ton.

For 115 Volt application with eletric pump change suffix "B" of model nr; example BHPG261GEB For 230 Volt application with cordless pump change suffix "E" to model nr; example BHP261GCB

Bearing Cup Pullers and Bearing Separators

ENERPAC. 🗗

▼ Shown: BHP380



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



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 Pu	ller				
Model	Number ▶	BHP180	BHP280	BHP380	BHP580
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	11/4"- 7 UNC	1%"- 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)

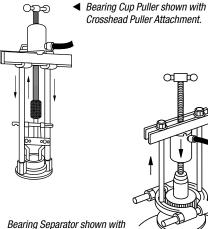
or when using puller legs in combination with bearing puller attachments.

Shown: BHP382



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 Separator shown with Crosshead Puller Attachment.



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.

Capacity *	pacity *		6 ton 11 ton		22 ton
40 Bearing Puller					
Model N	lumber 🕨	BHP282	BHP382	BHP582	
Spread (mm)	Max.	110	134	250	250
	Min.	10	12	17	17
Width (mm)		110	155	260	260
Thread		5%"-18 UNF	3/4"- 18 UNF	1"- 14 uns	11/4"-12 UNF

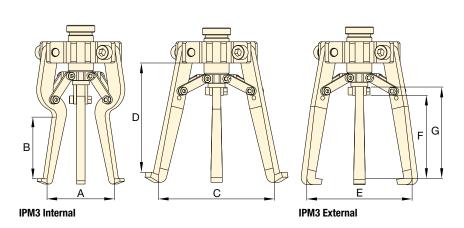
Bearing Separator rated at 50% of puller capacity. See warning on this page.

Internal & External Mechanical Puller

▼ IPM3 Internal & External Mechanical Puller



- Remove bearings or other shaft-mounted parts where no spindle support is available
- Slide hammer allows for application of safe, high-impact force
- Jaw design provides secure grip
- Includes two sets of jaws for internal and external pulling applications.



IPM Series

Maximum Internal Reach:

45 - 79 mm

Spread Internal Range:

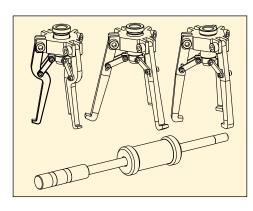
60 - 100 mm

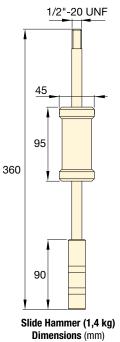
Maximum External Reach:

55 mm

Spread External Range:

15 - 75 mm





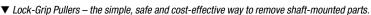
Model	Internal	Jaw Dimensio	ns (mm)	Standard Jaw Dimensions (mm)							I
Number	Minimum	Maximum	Maximum	Inte	rnal Configura	tion	External Configuration				
	Spread Diameter	Spread Diameter	Reach	Minimum Maximum Maximum Spread Spread Reach Diameter Diameter			Minimum Maximum Maximum Spread Spread Reach Diameter Diameter				
	Α	Α	В	С	С	D	Е	Е	F	G	(kg)
IPM3	25	60	45	60	100	79	15	75	55	70	1,9

▼ 2 and 3-Jaw Mechanical Lock-Grip Pullers

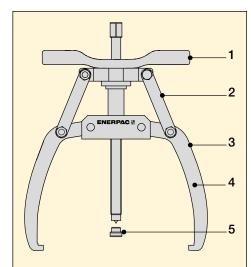


The simple, safe and costeffective way to remove shaft-mounted parts

- Quickly and easily mount on a wide range of applications
- Lock-on jaws offer a secure grip for safe and easy operation
- Synchronous jaw movement enables entire pulling job to be performed by a single operator
- Available in 2 and 3-jaw configurations.







- 1. Convenient adjustment handle simplifies positioning of jaws on application and increases speed of operation.
- Locking mechanism helps prevent puller jaws from slipping off application during pulling process.
- **3.** Greater spreading width on top portion of jaws enables use on thicker objects.
- Synchronous jaw movement increases ease of use, allowing one operator to mount the tool and perform the pulling application.
- **5.** Point protector helps prevent damage to spindle when pulling against a flat surface.

Mechanical Lock-Grip Pullers

LGM-Series, Lock-Grip Pullers

LGM-Series pullers are an ideal solution for pulling small to medium-size wheels, sprockets,

bearings and other similar shaft-mounted parts. The puller's self- centering closing system allows all jaws to move simultaneously, making it easy for a single operator to mount the puller and to perform the application.

Turning the puller handle locks the jaws onto the application, allowing the desired object to be pulled free when the spindle is turned.

LGM Series



Puller Capacity:

3 - 40 ton

Maximum Reach:

102 - 335 mm

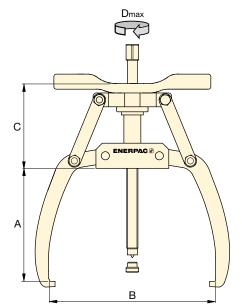
Maximum Spread:

132 - 635 mm



IMPORTANT!

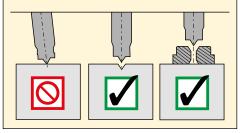
Always wear safety goggles and gloves while using pullers.





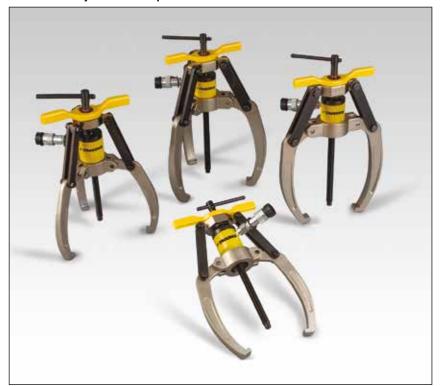
LGM-Series Pullers MUST be used with a point protector if the shaft end does not contain a drilled center hole.

One point protector is included with every puller.



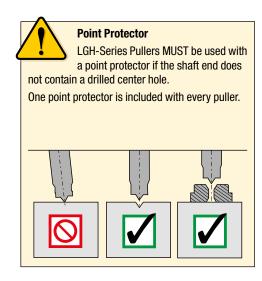
Mechanical		Dimensions	(mm)		Number	Puller	Maximum	I	Replacement
Puller Model Number	Maximum Reach A	Minimum Spread Diameter B	Maximum Spread Diameter B	С	of Jaws	Capacity US ton (kN)	Torque Dmax (Nm)	(kg)	Point Protector Part Number
LGM203	102	28	132	60	2	3 (27)	41	1,7	
LGM305	102	28	132	60	3	5 (45)	68	2,1	SGM0404
LGM204	142	30	186	90	2	4 (36)	68	2,5	SGIVI0404
LGM306	142	30	186	90	3	6 (49)	100	3,1	
LGM207	177	35	260	134	2	7 (62)	117	4,9	
LGM308	177	35	260	134	3	8 (71)	134	6,9	SCM0704
LGM211	215	84	300	126	2	11 (98)	203	6,7	SGM0704
LGM318	215	110	390	140	3	18 (160)	332	9,9	
LGM324	265	90	460	140	3	24 (214)	443	13,9	LGH14K6
LGM340	335	100	635	210	3	40 (356)	996	36,0	LGH24K6

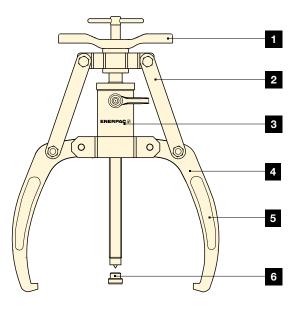
2 and 3-Jaw Hydraulic Lock-Grip Pullers



The simple, safe and costeffective way to remove shaft-mounted parts

- Quickly and easily mount on a wide range of applications
- Hydraulically applied pulling force increases pulling capacity, reducing operator fatigue
- Lock-on jaws offer a secure grip for safe and easy operation
- Synchronous jaw movement enables entire pulling job to be performed by a single operator
- Available in 2 and 3-jaw configurations with or without a detachable hollow cylinder.





- 1. Convenient adjustment handle simplifies positioning of jaws on application and increases speed of operation.
- Locking mechanism helps prevent jaws from slipping off application during pulling process.
- Detachable hollow cylinder offers increased pulling capacity compared to mechanical alternatives.
- 4. Greater spreading width on jaws enables use on thicker objects.
- 5. Synchronous jaw movement increases ease of use, allowing one operator to mount the tool and perform the pulling application.
- 6. Point protector helps prevent damage to spindle when pulling against a flat surface.

Hydraulic Lock-Grip Pullers & Sets



LGH-Series, Lock-Grip Pullers

LGH-Series pullers provide the same safety and ease of use as their mechanical counterparts,

with the pulling force applied by a standard 700 bar hydraulic cylinder.

LGH-Series Lock-Grip pullers can apply up to 64 tons of force and are perfect for removing larger shaft-mounted objects up to 660 mm diameter. Turning the puller handle locks the jaws onto the application, allowing the desired object to be pulled free when the spindle is turned.

LGH LGHS Series



Puller Capacity:

10 - 64 ton

Maximum Reach:

215 - 408 mm

Maximum Spread:

300 - 660 mm

Maximum Operating Pressure:

700 bar



IMPORTANT!

Always wear safety goggles and gloves while using pullers.



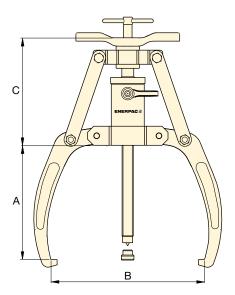
Hydraulic Pullers

LGH-Series Hydraulic Pullers include puller and hydraulic cylinder.

Hydraulic Puller Sets

LGHS-Series Hydraulic Pullers Sets include hydraulic puller, pump, gauge and HC7206C hydraulic hose.

Choose pump options below.



Hydraulic		Dimensio	ns (mm)		Number	Puller	I	Replacement	Н	ydraulic Puller S	ets Model Numb	er
Puller Model Nr 1)	Maximum Reach	Minimum Spread	Maximum Spread		of Jaws	Capacity		Point Protector Part Number		#		
	А	Diameter B	Diameter B	С		US ton (kN)	(kg)		Hand Pump P392 Gauge Ass'y GA45GC	Air Pump XA11G Integrated Gauge	Electric Pump PUD1300E* Gauge G2535L	Cordless Pump XC1201ME * Gauge Ass'y GA45GC
LGH210	215	84	300	192	2	10 (92)	10	SGM0704		- uauge		
LGH310	215	84	300	192	3	10 (92)	13	SGM0704	LGHS310H	LGHS310A	LGHS310EE *	LGHS310CE *
LGH214	260	125	380	186	2	14 (125)	14	LGH14K6	-	-	_	_
LGH314	260	125	380	186	3	14 (125)	18	LGH14K6	LGHS314H	LGHS314A	LGHS314EE *	LGHS314CE *
LGH224	336	165	480	325	2	24 (215)	37	LGH24K6	-	-	_	-
LGH324	336	165	480	325	3	24 (215)	47	LGH24K6	LGHS324H	LGHS324A	LGHS324EE *	LGHS324CE *
LGH253	408	230	660	473	2	53 (467)	111	LGH253K6	-	-	-	-
LGH364	408	230	660	473	3	64 (576)	139	LGH253K6	LGHS364H	LGHS364A	LGHS364EE *	LGHS364CE *

Hydraulic puller models include cylinder. To receive puller without cylinder add "NC" after LGH (Example: LGHNC210).

E = for 230V applications. For 115V applications change last suffix from E into **B**. Example **LGHS310EB**.

Master Puller Sets include a hydraulic puller, cylinder, a pump with hose and gauge for standard pulling applications, as well as a selection of accessories designed for work environments where clearance prevents a direct application of the puller jaws.



Lock-Grip Pullers:

All sets come with a hydraulic LGH-Series Puller. Both two jaw and three jaw versions are available.



Detachable RCH-Hollow Cylinder:

Provided with all hydraulic pullers as well as the Cross Bearing Puller.



Pump with Hose and Gauge:

Hydraulic Puller Sets and Master Puller Sets are supplied with a hose, gauge, and your choice of a hand, air, electric or battery-powered cordless pump.



BHP-Cross Puller:

Hydraulically powered via a detachable hydraulic cylinder and pump. The Cross Puller can be used individually as a 'push' puller, or in conjunction with the Bearing Separator or Bearing Cup Puller.



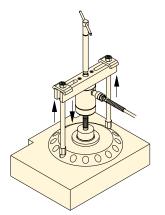
BHP-Bearing-Cup Puller:

Specifically designed to pull cup style bearings and other applications requiring an internal style puller.

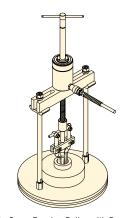


BHP-Bearing Separator (used with BHP-Cross Bearing Puller):

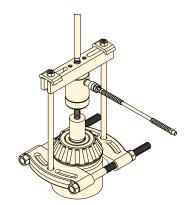
Features narrow edges, which enable puller to be placed behind hard to reach bearings, gears, etc., where limited clearance prevents the direct application of puller arms.



▲ Cross Bearing puller on application



▲ Cross Bearing Puller with Bearing Cup Puller on application



▲ Cross Bearing Puller with Bearing Separator on application

▼ DIMENSIONAL INFORMATION

Model Number	Cros	s Beari	ing Puller (mm)	
	Α	B min.	Thread Size C	(kg) *
BHP112	280	115	%"-18 UNF	2,0
BHP172	280	115	5%"-18 UNF	2,1
BHP272	370	140	5%"-18 UNF	2,4
BHP672	615	220	11/4"-12 UNF	6,4

3HP172	280	115	5%"-18 UNF	2,1	BHP282
3HP272	370	140	%"-18 UNF	2,4	BHP292
3HP672	615	220	11/4"-12 UNF	6,4	BHP682
With slot	ted cros	shead,	cylinder and spindle).	

Model Number		Bearin		rator (mm)							
	Α	A B B Thread Size min. max. C									
BHP181	110	10	110	%"-18 UNF	2,8						
BHP282	156	12	134	%"-18 UNF	5,7						
BHP292	182	182 13 210 5/8"-18 UNF									
BHP682	300	20	300	11/4"-12 UNF	43,5						

Model Number	Bear	ing Cup	Puller	(mm)							
	Α	A B C C min. max.									
BHP180	135	236	40	145	2,0						
BHP190	164	265	40	145	2,0						
BHP280	164	164 265 40 145									
BHP580	150	310	60	240	6,4						

Hydraulic Lock-Grip Master Puller Sets

▼ LGHMS Master Puller Set with Hand Pump Option



- All LGHMS-Series Master Puller Sets include an LGH-Series Hydraulic Puller with 3 jaws, a Cross Puller, a Bearing Separator, a Bearing Cup Puller, a detachable Hollow Cylinder, a hose, a gauge and a pump
- Set options include hand, air, electric or battery-powered pump for an optimal solution to every application.

LGHMS Series

Puller Capacity:

10 - 64 ton

Maximum Reach:

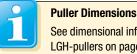
215 - 408 mm

Maximum Spread:

300 - 660 mm

Maximum Operating Pressure:

700 bar



See dimensional information for LGH-pullers on page 168. For dimensions of BHP-puller attachments, see page 170.



LGH-Series, Hydraulic Pullers

Hydraulic Pullers include puller and hydraulic cylinder.

LGHMS-Series, Hydraulic Master Puller Sets

Hydraulic Master Pullers Sets include LGH-hydraulic puller, pump, gauge and HC7206C hydraulic hose. Choose pump options below.



WARNING!

Enerpac hydraulic pullers can be operated upto 700 bar. When using accessories, hydraulic pressure MUST BE LIMITED to maximum capacities below.

Hydraulic	Hydra	ulic Master Pulle	er Sets Model Nu	mbers		Master Pul	ler Sets include	following cor	nponents	Cup Puller Model Nr. BHP180 BHP190 BHP280	
Puller Capacity		1	4		64	Hydraulic 3-Jaws Puller	Maximum Capacity Accessories	Cross Puller Model Nr.	Bearing Separator Model Nr.	Cup Puller	
US ton (kN)	Hand Pump P392 Gauge Ass'y GA45GC	Air Pump XA11G Integrated Gauge	Electric Pump PUD1300E* Gauge G2535L	Cordless Pump XC1201ME* Gauge Ass'y GA45GC	Hydraulic Hose Model Nr.	Ā	US-ton (kN)	ΙĦ		#	
10 (92)	LGHMS310H	LGHMS310A	LGHMS310EE*	LGHMS310CE*	HC7206C	LGH310	7 (75)	BHP112	BHP181	BHP180	
14 (125)	LGHMS314H	LGHMS314A	LGHMS314EE*	LGHMS314CE*	HC7206C	LGH314	7 (75)	BHP172	BHP282	BHP190	
24 (215)	LGHMS324H	LGHMS324A	LGHMS324EE*	LGHMS324CE*	HC7206C	LGH324	12 (107)	BHP272	BHP292	BHP280	
64 (576)	LGHMS364H	LGHMS364A	LGHMS364EE*	LGHMS364CE*	HC7206C	LGH364	25 (227)	BHP672	BHP682	BHP580	

E = for 230V applications. For 115V applications change last suffix from E into **B**. Example: **LGHMS310CB**.

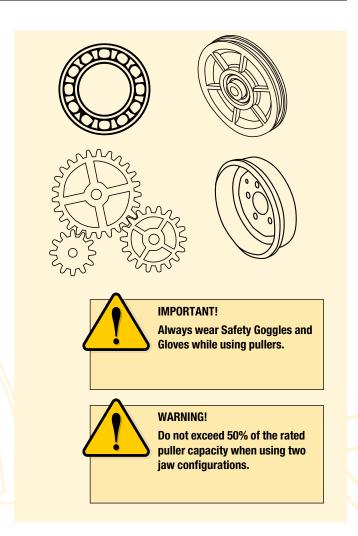
Overview and Dimension Guide

The Enerpac Sync-Grip multi-purpose puller range is designed to make your jobs easier and safer to accomplish.

Remove bearings, bushings, gears, sleeves, wheels and flywheels, sprockets and other shaft mounted items simply and effectively.

Mechanical and hydraulic configurations are available with a variety of optional accessories that expand application range and increase utility.

Hydraulic models are available in standard sets which include detachable hydraulic cylinders and a choice of pump options, along with a gauge assembly and hose for safe monitoring of applied pulling forces.



V OVERVIEW AND DIMENSION GUIDE

Puller Capacity	Puller Model Number		A	В	Sync Gri Dimensio		E	H			
			ith rd Jaws		ptional ed Jaws		Jaw Tip		Jaw Hole		
		Max. Reach	Max. Spread	Max. Reach	Max. Spread	Height	Width	Thick- ness	Spacing		Page:
(ton)		A	В	A	В	D	E	F	Н	(kg**)	
Mechanic	al Pullers										
1	SGM01 *	105	110	-	_	8,0	7,0	7,5	19,0	0,8	174
4	SGM04 *	185	175	ı	_	7,5	8,0	21,0	51,0	2,0	174
7	SGM07 *	225	240	ı	_	10,0	8,0	25,0	44,5	6,5	174
10	SGM10 *	410	350	490	405	12,5	15,0	25,0	83,0	14,5	174
20	SGM20	600	680	640	720	22,0	24,0	41,0	125,0	55,5	174
Hydraulic	Pullers										
13	SGH14	320	350	400	405	12,5	15,0	25,0	83,0	25	175-176
22	SGH24	320	480	435	540	15,5	17,5	31,0	115,0	49	175-176
33	SGH36	410	650	525	720	22,0	24,0	41,0	125,0	75	175-176
45 **	SGH64	700	980	850	1080	30,0	27,0	50,0	150,0	165	175-176
100	SGH100	1000	1600	_	_	46,0	49,0	70,0	250,0	322	177

- Puller can be set up as a 2 or 3 jaw configuration.
- ** Puller capacity at 540 bar, maximum cylinder capacity at 700 bar is 54 ton.
- * Weight of SGH-models with standard legs and hydraulic cylinder.

SG-Series, Sync-Grip Pullers



SG-Series Sync-Grip Pullers: available in both mechanical or hydraulic versions. Some models can be configured as a two jaw puller, however, three jaws are recommended for most even distribution of pulling forces.



BHP-Cross Puller: hydraulically powered via detachable cylinder and choice of pump. The Cross Puller can be used individually as a 'push' puller or in conjunction with the Bearing Separator or Bearing Cup Puller.



BHP-Bearing Separator: use where access is restricted. The Bearing Separator is used in conjunction with the Cross Puller.



BHP-Bearing Cup Puller: specifically designed for cup style bearing and other applications requiring an internal style puller.

Detachable RCH-Hollow Cylinder: provided with all hydraulic puller models including both the standard Sync Grip and Cross Puller.

In Sync-Grip, Cross Bearing and Master Puller Sets a hose and gauge are provided as standard along with your choice of pump including manual hand operated, cordless battery powered, electric or air powered. In each case the pump selection has been optimized for compatibility with the pullers.



Simple, Safe, Productive

All three jaws close simultaneously making the puller easier and safer to operate.

The synchronous feature of the SGM and SGH-Series Sync-Grip Pullers makes positioning the puller simple and helps prevent misalignment.

▼ OVERVIEW AND DIMENSION GUIDE

Puller Capacity		Bearing P ensions (n			
	Standard Leg Height	Long Leg Height	Max. Spread		
(ton)	Α	Α	В	(kg**)	
Mechanic	al Pullers				
_	_	_	_	_	ıL
_	_	_	_	-	
_	_	_	_	_	
_	_	_	_	_	
_	_	_	_	_	ı
Hydraulic	Pullers				
13	106	357	260	18,5	
22	115	570	345	34,5	
33	205	710	440	56,0	
45 *	609	864	580	113,5	
_	_	_	_	_	

	nm)											
	В	C A										
Dia- Min. Max. Thread meter Spread Size												
A B B C												
Mechanical Pullers												
-	_											
_	-	-	_	_								
_	_	_	-	_								
_	-	-	_	_								
_	_	_	_	_								
Hydraul	ic Pullers											
110	10	110	%"-18UNF	2,7								
155	12	134	%"-18UNF	5,7								
260	260 17 250 1"-14UNS											
260	17	250	11/4"-12UNF	28,5								
_	_	_	_	_								

Bearing Separators

	_		g Cup P ensions (Ā			
	A	В		E_D						
Height	Height	Min. Spread	Max. Spread	Tip Height	Tip Width	Thick- ness				
Α	В	С	С	D	Е	F	(kg)			
Mecha	Mechanical Pullers									
_	_	_	_	_	_	-	_			
_	1	_	_	_	_	-	_			
_	- -		_	_	_	_	_			
_	-	_	_	_	_	-	_			
	_	_	_	_	_	_				
Hydrau	lic Pulle	rs								
115	237	40	145	5,0	4,5	31	2,0			
140	266	32	160	4,5	4,5	25	2,4			
150	310	60	240	8,0	11,0	55	6,0			
150	310	60	240	8,0	11,0	55	6,4			
_	_	_	_	_	_	_	_			

^{**} With standard legs and hydraulic cylinder.

SGM-Series, Mechanical Sync-Grip Pullers

ENERPAC. 🗗

▼ SGM10 Mechanical Sync-Grip Puller with three jaws



- Sync-Grip mechanism synchronizes movement of all jaws for simultaneous engagement, helping to prevent misalignment for safe and easy use
- Threaded spindle and jaw indexes provide adjustable reach
- Three-jaw configuration for even load distribution
- Two-jaw configuration for confined access applications available on pullers of 1 to 10 ton (not available on SGM20)
- High-strength forged jaws for superior reliability
- Suitable for a variety of applications including bearings, bushings, wheels, gears and pulleys.

SGM Series

Puller Capacity:

1 - 20 ton

Maximum Reach:

105 - 600 mm

Maximum Spread:

110 - 680 mm



Dimensions

Dimensional information for all puller models is included in the dimensional overview and dimension guide.

Page

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IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



WARNING!

Do not exceed 50% of the rated puller capacity when using two jaw configurations.

▼ SGM10 with two jaws.



Puller Capacity	3-Jaw Puller Model Number	Max. Reach	Max. Spread	Ā	Optional Long Jaw Sets (3 jaws) Model Number	Max. Reach	Max. Spread
(ton)		A (mm)	B (mm)	(kg)		A (mm)	B (mm)
1	SGM01 *	105	110	0,8	_	_	_
4	SGM04 *	185	175	2,0	_	-	-
7	SGM07 *	225	240	6,5	_	-	_
10	SGM10 *	410	350	14,5	SG1002K	490	405
20	SGM20	600	680	55,5	SG3002K	640	720

^{*} Can be configurated into 2-jaw puller.

Hydraulic Sync-Grip Master Puller Sets

▼ MPS14H



- Sync-Grip mechanism synchronizes movement of all jaws for simultaneous engagement
- Hydraulically applied pulling force increases pulling capacity reducing operator fatigue
- Standard jaws adjust to accommodate different reach requirements. Optional long jaws sets available for additional reach requirements
- Designed for applications including pulling, pushing and dismounting gears, bearings, bushings, etc.

MPS, SGH **Series**

Puller Capacity:

13 - 45 ton

Maximum Reach:

320 - 700 mm

Maximum Spread:

350 - 980 mm

Maximum Operating Pressure:

700 bar



Dimensions

Dimensional information for all puller models is included in the dimensional overview and dimension guide.

Page:



100 ton Sync-Grip Puller Sets

The hydraulic SGH-puller is also available with 100 ton capacity.

Page:



Choose pump options below.

Puller	3-Jaw Puller only	Cylinder	Max.	Max.	Ā	Model	Numbers Hyd	raulic Sync-G	rip Master Pu	ller Sets	Optional	Max.	Max.
Capacity	Model Number *	Stroke	Reach	Spread			出	-		30	Long Jaw Sets (3 jaws) Model Number	Reach	Spread
			Α	В	4 >	Hand	Air Driven	Electric	Cordless	All Sets		Α	В
(ton)		(mm)	(mm)	(mm)	(kg)	Pump	Foot Pump	Pump 3)	Pump 3)	include		(mm)	(mm)
13	SGH14	25	320	350	25	MPS14H	MPS14A	MPS14E	MPS14C	1)	SG1002K	400	405
22	SGH24	49	320	480	49	MPS24H	MPS24A	MPS24E	MPS24C	GA45GC	SG2002K	435	540
33	SGH36	64	410	650	75	MPS36H	MPS36A	MPS36E	MPS36C	with	SG3002K	525	720
45 ²⁾	SGH64	76	700	980	165	MPS64H	MPS64A	MPS64E	MPS64C	HC7206C	SG6002K	850	1080

^{1) 13} ton sets include an AR630 female coupler, GA45 gauge adaptor and G2535L gauge.

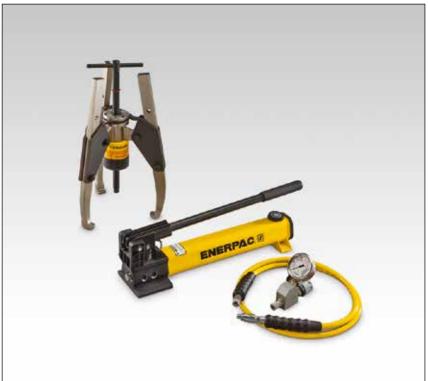
²⁾ Puller capacity at 540 bar; maximum cylinder capacity is at 700 bar is 60 ton.

³⁾ For 115 Volt application with eletric pump add suffix "B" to model nr; example MPS24EB For 230 Volt application with cordless pump add suffix "E" to model nr; example MPS14CE

Hydraulic Sync-Grip Puller Sets

ENERPAC.

▼ GPS14H Hydraulic Sync-Grip Puller Set



- Sync-Grip mechanism synchronizes movement of all jaws for simultaneous engagement
- Hydraulically applied pulling force increases pulling capacity and reduces operator fatigue
- Threaded spindle and jaw indexes provide adjustable reach
- Three jaw configuration for even load distribution
- High strength forged jaws for superior reliability
- The versatile puller set facilitates safe and easy dismounting in a variety of applications.

GPS, SGH Series

Puller Capacity:

13 - 45 ton

Maximum Reach:

320 - 700 mm

Maximum Spread:

350 - 980 mm

Maximum Operating Pressure:

700 bar



Dimensions

Dimensional information for all puller models is included in the dimensional overview and dimension guide.

Page.

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IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



1) Choose pump options below.

Puller	3-Jaw Puller only	Cylinder	Max.	Max.	Ā	Мо	del Numbers	Hydraulic Syr	c-Grip Puller	Sets	Optional Long Jaw	Max.	Max.
Capacity	Model Number *	Stroke	Reach	Spread			#		I B	30>	Sets (3 jaws) Model Number	Reach	Spread
			A	В		Hand	Air Driven	Electric	Cordless	All Sets	Number	Α	В
(ton)		(mm)	(mm)	(mm)	(kg)	Pump P142	Foot Pump XA11G	Pump ³⁾ PUD1300	Pump 3) XC1201M	include		(mm)	(mm)
13	SGH14	25	320	350	25	GPS14H	GPS14A	GPS14E	GPS14C	1)	SG1002K	400	405
22	SGH24	49	320	480	49	GPS24H	GPS24A	GPS24E	GPS24C	044500	SG2002K	435	540
33	SGH36	64	410	650	75	GPS36H	GPS36A	GPS36E	GPS36C	GA45GC +	SG3002K	525	720
45 ²⁾	SGH64	76	700	980	165	GPS64H	GPS64A	GPS64E	GPS64C	HC7206C	SG6002K	850	1080

^{1) 13} ton sets include an AR630 female coupler, GA45 gauge adaptor and G2535L gauge.

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

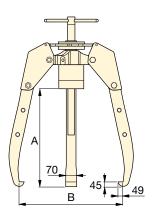
For 115 Volt application with eletric pump add suffix "B" to model nr; example GPS24EB For 230 Volt application with cordless pump add suffix "E" to model nr; example GPS14CE

100 ton Hydraulic Sync-Grip Puller & Sets

▼ SGH100 100 ton Hydraulic Sync-Grip Puller



- Sync-Grip mechanism synchronizes movement of all jaws, providing enhanced control of pulling process
- No need to cut, heat or torch components for removal, resulting in safer environment for operator, and preventing damage to equipment
- A hydraulically applied pulling force of up to 100 ton allows a traditionally strenuous task to be completed at the push of a button
- Provides 100 ton pulling force at a fraction of the price of alternative solutions
- One SGH10004 point protector is included with each SGH100.



Number of Jaws	Capacity ton (kN)	Model Number *	Maximum Reach A (mm)	Maximum Spread B (mm)	Cylinder Stroke (RCH1003) (mm)	(kg)
3	100 (980)	SGH100	1000	1600	76	322

Available as complet set. Total set weight 459 kg.

SGH, GPS **Series**

Capacity:

100 ton

Maximum Reach:

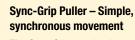
1000 mm

Spread Range:

1600 mm

Maximum Operating Pressure:

700 bar



The Sync Grip mechanism synchronizes movement of all jaws for simultaneous engagement, allowing one operator to mount the tool and perform the pulling application. Hydraulically applied pulling force increases pulling capacity and reduces operator fatigue, enabling quicker and easier set up.



100 ton Sync-Grip Puller Sets

For ordering convenience the SGH100 is avalaible as complete set with HC7606C hose, GA45GC gauge adapter assembly and ZE3304S electric pump.

Model Nr.	Description		
GPS100EB	Set with 115 V pump		
GPS100EE	Set with 230 V pump		



Point Protector

To prevent damage a point protector must be used if the shaft end does not have a drilled center hole.

Model Nr.	Description		
SGH10004	Point protector for	SGH100	
	Ž		