

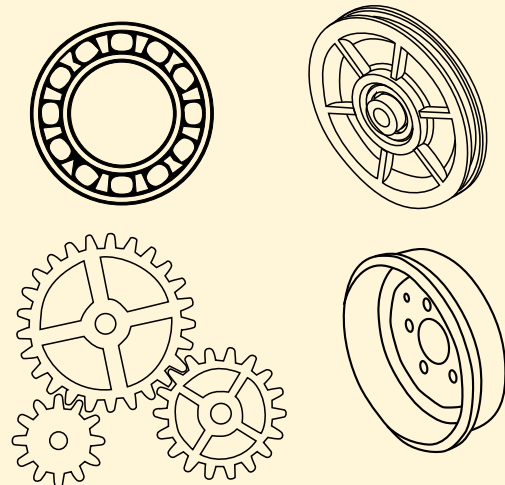
Overview and Dimension Guide

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.



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.

▼ OVERVIEW AND DIMENSION GUIDE

Puller Capacity (ton)	Puller Model Number	Sync Grip Pullers Dimensions (mm)										Page:
		With Standard Jaws		With Optional Extended Jaws		Height D	Jaw Tip		Jaw Hole Spacing H	Weight (kg**)		
Max. Reach A	Max. Spread B	Max. Reach A	Max. Spread B	Width E	Thick-ness F							
Mechanical Pullers												
1	SGM01 *	105	110	–	–	8,0	7,0	7,5	19,0	0,8	174 ▶	
4	SGM04 *	185	175	–	–	7,5	8,0	21,0	51,0	2,0	174 ▶	
7	SGM07 *	225	240	–	–	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.



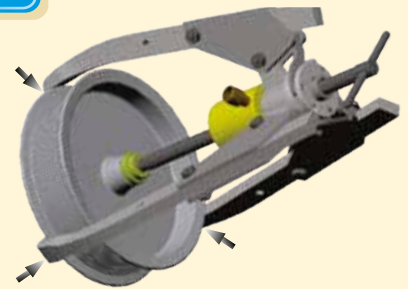
Detachable RCH-Hollow Cylinder: provided with all hydraulic puller models including both the standard Sync Grip and Cross Puller.



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.



Easy To Use



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 (ton)	Cross Bearing Pullers Dimensions (mm)			(kg**)
	Standard Leg Height A	Long Leg Height A	Max. Spread B	
Mechanical Pullers				
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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
-	-	-	-	-

Bearing Separators Dimensions (mm)				(kg)
Dia-meter A	Min. Spread B	Max. Spread B	Thread Size C	
Mechanical Pullers				
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Hydraulic Pullers				
110	10	110	5/8"-18UNF	2,7
155	12	134	5/8"-18UNF	5,7
260	17	250	1"-14UNS	28,5
260	17	250	1 1/4"-12UNF	28,5
-	-	-	-	-

Bearing Cup Pullers Dimensions (mm)							(kg)
Height A	Height B	Min. Spread C	Max. Spread C	Tip Height D	Tip Width E	Thick-ness F	
Mechanical Pullers							
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Hydraulic Pullers							
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.

▼ 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.

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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.



▼ SELECTION CHART

Puller Capacity (ton)	3-Jaw Puller Model Number	Max. Reach	Max. Spread	(kg)	Optional Long Jaw Sets (3 jaws) Model Number	Max. Reach	Max. Spread
		A (mm)	B (mm)			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 configured into 2-jaw puller.

Hydraulic Sync-Grip Master Puller Sets

▼ MPS14H



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.

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- 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.



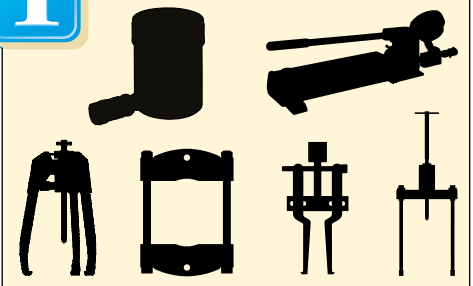
100 ton Sync-Grip Puller Sets

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

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Master Puller Sets include: ¹⁾



¹⁾ Choose pump options below.

▼ SELECTION CHART

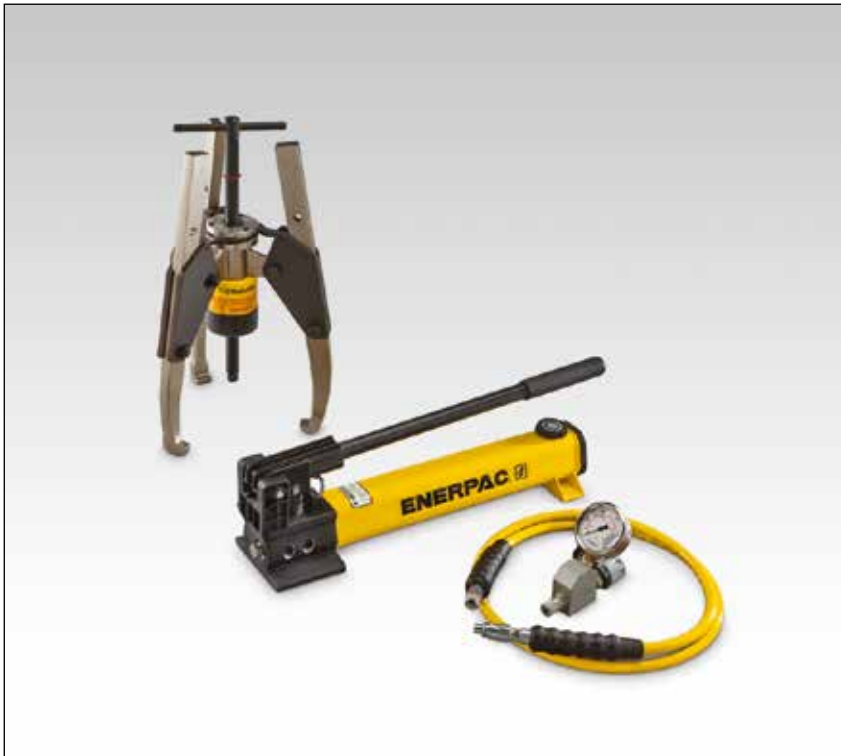
Puller Capacity (ton)	3-Jaw Puller only Model Number *	Cylinder Stroke (mm)	Max. Reach A (mm)	Max. Spread B (mm)	Weight (kg)	Model Numbers Hydraulic Sync-Grip Master Puller Sets					Optional Long Jaw Sets (3 jaws) Model Number	Max. Reach A (mm)	Max. Spread B (mm)
						Hand Pump	Air Driven Foot Pump	Electric Pump ³⁾	Cordless Pump ³⁾	All Sets include			
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 with HC7206C	SG2002K	435	540
33	SGH36	64	410	650	75	MPS36H	MPS36A	MPS36E	MPS36C		SG3002K	525	720
45 ²⁾	SGH64	76	700	980	165	MPS64H	MPS64A	MPS64E	MPS64C		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 electric pump add suffix "B" to model nr; example MPS24EB
For 230 Volt application with cordless pump add suffix "E" to model nr; example MPS14CE

▼ GPS14H Hydraulic Sync-Grip Puller Set



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.

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- 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 dismantling in a variety of applications.



IMPORTANT!

Always wear Safety Goggles and Gloves while using pullers.



Grip Puller Sets include: ¹⁾



¹⁾ Choose pump options below.

▼ SELECTION CHART

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

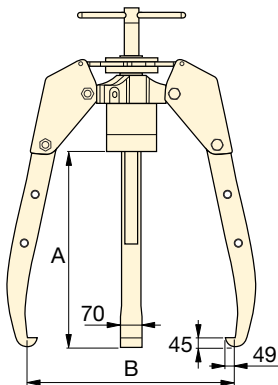
³⁾ For 115 Volt application with electric pump add suffix "B" to model nr; example GPS24EB
For 230 Volt application with cordless pump add suffix "E" to model nr; example GPS14CE


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 complete 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



Sync-Grip Puller – Simple, synchronous movement

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 available as complete set with HC7206C 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

