



Hydraulic pullers BMZ

Hydraulic pullers are an invaluable tool for the maintenance engineer. The pullers allow time and cost savings as they offer high working safety and can be operated in all positions.

Hydraulic pullers are used in all kinds of industries, workshops and in many repair and assembly jobs to remove or install interference fit parts, such as: gears, couplings, bearings, wheels, pulleys, axles, shafts, break drums and many other press fit components. Damage to parts is minimized through the use of controlled hydraulic power, whilst machine down-time can be reduced drastically.

Features

- drop-forged alloy steel jaws
- hard chromium plated piston, spring return
- no radial moment of torsion
- no spindle wear

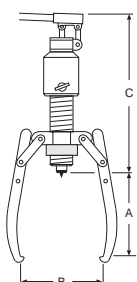
Hydraulic puller

with integrated hydraulics

6, 8 and 11 tonnes

Features

- integrated hydraulic cylinder and pump
- quick adjustment with trapezoid speed nut
- 3 and 2-jaw design
- pump lever can rotate through 360°
- piston with durable, spring loaded centering tip
- supplied in a sturdy plastic box



Model	Capacity tonnes	Piston stroke mm	Reach max. A in mm	Diameter Ø B in mm	Length C in mm	Weight kg
BMZ - 6	6	82	160	200	320	4,9
BMZ - 8	8	82	200	250	320	6,6
BMZ - 11	11	82	230	280	345	8,0

Puller sets with separate hydraulics 10, 15 and 23 tonnes

Features

- high quality components from our standard hydraulic program
- modular system, hydraulic parts can also be used for many other applications
- long-life hydraulic cylinders manufactured from chromium-molybdenum steel
- two-stage quick-action hand pumps
- incl. high pressure hydraulic hose with quick coupler, L = 2 m
- all complete sets are supplied in metal box (10 and 15 tonnes) or wooden case (23 tonnes)
- all sets are supplied ready to use
- pressure gauge is available on request (GYA - 63)



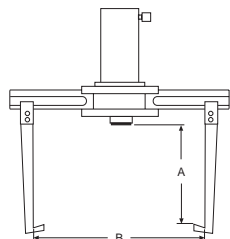
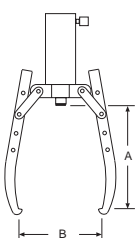
BMZ - 1000 and 1510

The harder the pulling force, the tighter the grip of the jaws. Longer jaws up to 1000 mm are available on request.

BMZ - 2311

The radially adjustable pulling arms can be locked at any position.

Model	Capacity tonnes	Hydraulic cylinder Model	Hand pump Model	Hydraulic hose Model	Stroke of cylinder mm	Reach max. A in mm	Diameter Ø B in mm	Weight kg
BMZ - 1000	10	none	none	none	-	300	350	9,5
BMZ - 1010	10	YS - 10/150	HPS - 2/0,7	HHC - 20	150	300	350	21,5
BMZ - 1500	15	none	none	none	-	300	350	9,5
BMZ - 1510	15	YS - 15/150	HPS - 2/0,7	HHC - 20	150	300	350	23,5
BMZ - 2300	23	none	none	none	-	190	700	28,0
BMZ - 2311	23	YS - 23/160	HPS - 2/0,7	HHC - 20	160	190	700	45,0



Accessories for BMZ - 2311:

BMZ - 2308 extensions of pulling arms increase the reach (A) up to 400 mm, BMZ - 2309 up to 500 mm



Hydraulic puller sets

YHP



Hydraulic puller set YHP

These professional puller sets are designed for removing and installing press fitted or heat fitted parts. Hydraulic puller sets eliminate time-consuming and costly repairs as they avoid the damage of parts and reduce machine down times.

All parts are manufactured from high quality drop-forged steel.

The complete sets are supplied "ready to use" and include all necessary components such as hollow cylinder, hydraulic hand pump, pressure gauge (to control the pulling force) and 2 meter hydraulic hose with quick connect coupler.

3-Grip puller sets

For all pulling jobs where "solid" parts have to be removed, e.g. gears, belt pulleys, sprockets, flywheels, couplers, shafts, axles etc.

The sets can be used as both 3-jaw and 2-jaw puller.

Model	Capacity max.
YHP - 251 G	20 tonnes
YHP - 351 G	30 tonnes
YHP - 551 G	50 tonnes

Crosshead puller sets

For all pulling jobs where "multi-segmented" parts have to be removed like: Ball bearings, roller bearings and similar parts. Puller sets are supplied complete with bearing puller attachment and bearing cup puller.

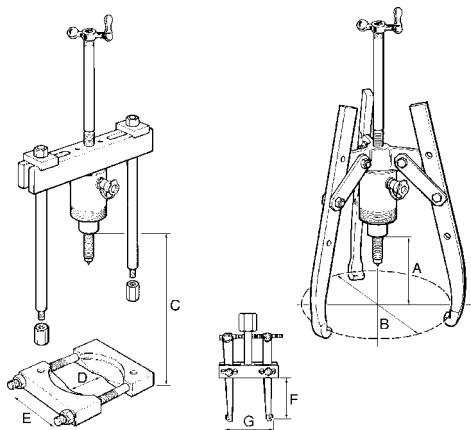
Model	Capacity max.
YHP - 261 G	20 tonnes
YHP - 361 G	30 tonnes
YHP - 561 G	50 tonnes

Multi-purpose puller sets

These multi-purpose puller sets are universal combinations from both a.m. sets and include all necessary parts from 3-grip puller set and cross-head puller set.

Model	Capacity max.
YHP - 2751 G	20 tonnes
YHP - 3751 G	30 tonnes
YHP - 5751 G	50 tonnes

Type of puller set	3-grip puller set			Crosshead puller set			Multi purpose puller set		
Model	YHP - 251 G	YHP - 351 G	YHP - 551 G	YHP - 261 G	YHP - 361 G	YHP - 561 G	YHP - 2751 G	YHP - 3751 G	YHP - 5751 G
Capacity in tonnes:	20	30	50	20	30	50	20	30	50
Hand pump, model: HPS - 1/07	•	•	-	•	•	-	•	•	-
Hand pump, model: HPS - 2/2	-	-	•	-	-	•	-	-	•
Pressure gauge set, model: GYA - 63	•	•	•	•	•	•	•	•	•
Hydraulic hose, model: HHC - 20	•	•	•	•	•	•	•	•	•
Hollow cylinder, model:	YCS - 21/50	YCS - 33/60	YCS - 57/70	YCS - 21/50	YCS - 33/60	YCS - 57/70	YCS - 21/50	YCS - 33/60	YCS - 57/70
Crosshead, 3-grip	•	•	•	-	-	-	•	•	•
Crosshead, 2-grip	•	•	•	-	-	-	•	•	•
Crank	•	•	•	•	•	•	•	•	•
Grip arm, 3 pcs.	•	•	•	-	-	-	•	•	•
Spindle	•	•	•	•	•	•	•	•	•
Strap, 6 pcs.	•	•	•	-	-	-	•	•	•
Strap screw, 6 pcs.	•	•	•	-	-	-	•	•	•
Strap nut, 6 pcs.	•	•	•	-	-	-	•	•	•
Mounting screw, 2 pcs.	•	•	•	•	•	•	•	•	•
Saddle with internal thread	•	•	•	•	•	•	•	•	•
Smooth saddle	•	•	•	•	•	•	•	•	•
Crosshead	-	-	-	•	•	•	•	•	•
Slide plate, 2 pcs.	-	-	-	•	•	•	•	•	•
Nut, 2 pcs.	-	-	-	•	•	•	•	•	•
Washer, 2 pcs.	-	-	-	•	•	•	•	•	•
Pulling leg, 2 pcs. length in mm	-	-	-	-	•	-	-	•	-
	-	-	-	115	205	610	115	205	610
Pulling leg, 2 pcs. length in mm	-	-	-	•	-	•	•	-	•
	-	-	-	240	460	865	240	460	865
Pulling leg, 2 pcs. length in mm	-	-	-	-	•	-	-	•	-
	-	-	-	420	710	-	420	710	-
Pulling leg, 2 pcs. length in mm	-	-	-	•	-	-	•	-	-
	-	-	-	570	-	-	570	-	-
Leg end, 2 pcs.	-	-	-	•	•	•	•	•	•
Leg connector, 2 pcs.	-	-	-	•	•	•	•	•	•
Bearing puller attachment	-	-	-	•	•	•	•	•	•
Bearing cup pulling attachment	-	-	-	•	•	•	•	•	•
Speed nut	-	-	-	•	•	•	•	•	•
Storage case	•	•	•	•	•	•	•	•	•
Weight in kg:	40	65	120	46	86	156	91	172	295



Capacity tonnes	3-grip		2-grip		C	D	E	F	G
	A	B	A	B					
20 t	300	500	300	420	0-817	25-155	152	140	30-180
30 t	520	900	520	700	0-977	30-250	250	150	75-230
50 t	700	1200	700	1000	0-1233	75-330	330	150	75-230

Dimensions in mm



Model	Capacity max.		Pressure max. bar	Oil volume cm ³	Spread width		Weight kg
	kN	tonnes			min. mm	max. mm	
YHS - 05	5	0,5	700	10	16	100	1,9
YHS - 11	10	1,0	700	10	14	100	2,1
YHS - 15	15	1,5	700	70	35	220	6,9



- durable, heat treated cutting blades
easy replacement, blades can be re-sharpened
- incl. protection guard
and female coupler half CFY - 1 with dust cap

Hydraulic spreader YHS

single acting, with spring return
0,5 to 1,5 tonnes

These universal power tools can be used for all repair, maintenance and assembly work requiring precisely controlled power, e.g. aligning of containers and shells, lifting, positioning or aligning of machinery and structural components, forcing-off of shutterings and moulds.

Applications are unlimited ...

The spreaders can be operated with all hand pumps (e.g. HPS - 1/0,7 or HPS - 2/0,7 and hydraulic hose HHC - 20)

Features

- operating pressure max: 700 bar
- single-acting with spring return
- works in all positions
- spreader arms from high tensile steel
- incl. female coupler half CFY - 1 with dust cap

Hydraulic chain cutter YCC - 1

This hydraulic chain cutter has been designed for cutting high tensile, grade 80 chains up to a material diameter of 18 mm. The open design allows easy positioning of the chain.

The unit can be operated using the range of Yale high pressure pumps.

Recommended pumps:

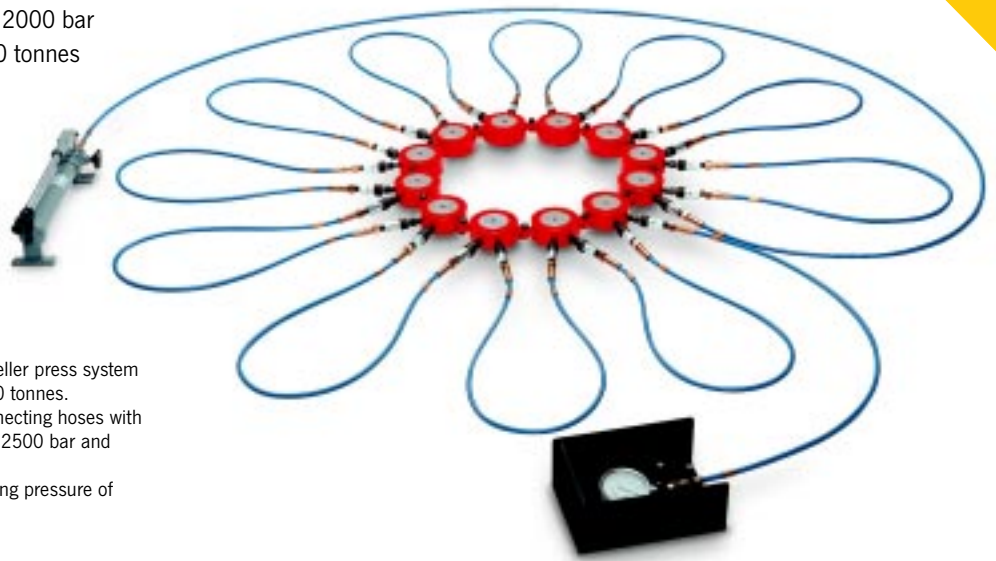
- air powered pump: PAY - 6
- electric power pack: PY - 04/2/5/2 M
- hand pump: HPS - 2/0,7

Features

- operating pressure, max.: 700 bar
- max. cutting force: 23 tonnes
- cutting performance: 18 Ø (chain grade 80)
- max. opening of blades: 30 mm
- weight: 17 kg
- built-in standard hydraulic cylinder
- single-acting with spring return

Hydraulic propeller press system 2000 bar

The Yale hydraulic propeller press system is used to press-fit large propellers onto the drive shaft of ships. To this end the special flat cylinders can be linked together to build a chain of any length and press force. The cylinders are provided with appropriate link eyes at both sides. The maximum operating pressure of 2000 bar ensures high press forces up to 2200 tonnes or more, according to the relevant shaft diameter.



Hydraulic propeller press system

The picture shows a complete hydraulic propeller press system with 12 cylinders with a total capacity of 1200 tonnes. The system is complete with appropriate connecting hoses with quick release couplers, pressure gauge up to 2500 bar and hand pump model TWZ - 2,3. All parts are designed for a maximum operating pressure of 2000 bar.

Special flat hydraulic cylinder with link connections at both sides and 2 male quick connect coupler halves.

Capacity, max: 100 tonnes
Stroke: 10 mm
Pressure, max.: 2000 bar
Diameter Ø: 127 mm
Closed height: 50 mm



Link plates and lifting hooks

are used to connect the cylinders and to handle the complete chain with a crane. 2 pieces of link plates and lifting hooks as well as the corresponding number of high pressure hoses (with female quick connect couplers at both ends) belong to a complete set.

