

ENERPAC 

The World Class Collection 700 bar Hydraulics for all Industrial Applications





All over the world, Enerpac cylinders provide force to major industries – construction, shipbuilding, aerospace, manufacturing, and more.

Enerpac cylinders lift naval vessels for repair, level heavy bridge sections and pull parts together for welding. They also allow for controlled positioning of heavy loads and provide power and precision as part of specialized hydraulic presses.

Enerpac hydraulic cylinders are available in more than 100 standard configurations. Whatever the application, whatever the needed capacity, size, or stroke, there's a single- or double-acting, solid or hollow plunger, lightweight or heavy-duty Enerpac cylinder to do the job for you.

CYLINDER-PUMP-SETS



SINGLE-ACTING, SPRING RETURN

- Optimum component match
- Include cylinder, two-speed hand pump, 1,8 m long safety hose, gauge and adaptor.


Set Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	Cylinder Model Number
SCR-106H	101	156	247	RC-106
SCR-156H	142	153	271	RC-156
SCR-256H	232	158	273	RC-256
SCR-506H	498	159	282	RC-506
SCL-101H	101	38	88	RCS-101
SCL-302H	326	64	178	RCS-302
SCL-502H	435	60	122	RCS-502

GENERAL PURPOSE CYLINDERS



SINGLE-ACTING, SPRING RETURN

- The exclusive Golden Ring bearing design absorbs eccentric load stress, protects against abrasion and plunger blow-outs – for long, trouble-free operation
- Collar and plunger threads, base mounting holes standard on most models
- For use in all positions
- Hardened removable grooved saddles.


Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
RC-50	45	16	41	1,0
RC-51	45	25	110	1,0
RC-53	45	76	165	1,5
RC-55	45	127	215	1,9
RC-57	45	177	273	2,4
RC-59	45	232	323	2,8
RC-101	101	26	89	1,8
RC-102	101	54	121	2,3
RC-104	101	105	171	3,3
RC-106	101	156	247	4,4
RC-108	101	203	298	5,4
RC-1010	101	257	349	6,4
RC-1012	101	304	400	6,8
RC-1014	101	356	450	8,2
RC-151	142	25	124	3,3
RC-152	142	51	149	4,1
RC-154	142	101	200	5,0
RC-156	142	152	271	6,8
RC-158	142	203	322	8,2
RC-1510	142	254	373	9,5
RC-1512	142	305	423	10,9
RC-1514	142	356	474	11,8
RC-251	232	26	139	5,9
RC-252	232	50	165	6,4
RC-254	232	102	215	8,2
RC-256	232	158	273	10,0
RC-258	232	210	323	12,2
RC-2510	232	261	374	14,1
RC-2512	232	311	425	16,3
RC-2514	232	362	476	17,7
RC-308	295	209	387	18,1
RC-502	498	51	176	15,0
RC-504	498	101	227	19,1
RC-506	498	159	282	23,1
RC-5013	498	337	460	37,6
RC-756	718	156	285	29,5
RC-7513	718	333	492	59,0
RC-1006	933	168	357	59,0
RC-10010	933	260	449	72,6

LOW HEIGHT CYLINDERS



SINGLE-ACTING, SPRING RETURN

- Compact and portable
- For use where others will not fit
- Maximum power-to-height ratio
- Large plunger contact area with grooved end.


Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
RCS-101	101	38	88	4,1
RCS-201	201	45	98	5,0
RCS-302	295	62	117	6,8
RCS-502	435	60	122	10,9
RCS-1002	887	57	141	22,7
RSM-50	45	6	32	1,0
RSM-100	101	12	42	1,4
RSM-200	201	11	51	3,1
RSM-300	295	13	58	4,5
RSM-500	435	16	66	6,8
RSM-750	718	16	79	11,3
RSM-1000	887	16	85	14,5
RSM-1500	1386	16	100	26,3

PULL CYLINDERS



SINGLE-ACTING, SPRING RETURN

- Chrome plated plunger
- Replaceable links on BRP models
- Blow-out protection prevents rod over-extension.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Extended Height (mm)	 (kg)
BRC-25	24	127	391	1,8
BRC-46	51	140	441	4,5
BRC-106	105	151	440	9,5
BRP-106C*	105	151	738	15,9
BRP-106L*	105	151	692	13,2
BRP-306	326	155	1240	48,1
BRP-606	505	152	871	53,5

* Fitted with rubber bellows for rod protection.




The Industry Standard

ALUMINIUM CYLINDERS – LIGHTWEIGHT



SINGLE-ACTING, SPRING RETURN

- Resistance to side-loads up to 10%
- Handles standard on all models
- Steel base plate and saddle.


Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
RAC-202	218	50	174	3,6
RAC-204	218	100	224	4,1
RAC-206	218	150	274	4,6
RAC-302	309	50	181	4,5
RAC-304	309	100	231	5,2
RAC-306	309	150	281	5,9
RAC-502	496	50	186	8,5
RAC-504	496	100	236	9,8
RAC-506	496	150	286	11,1
RAC-1004	1002	100	271	19,6
RAC-1006	1002	150	321	21,9
RAC-1008	1002	200	371	24,2
RAC-1506	1589	150	343	33,3

Note: All available in strokes from 50 - 250 mm.



WITH LOCK NUT, SPRING RETURN

- With lock nut to secure loads mechanically
- Resistance to side-loads up to 5%
- Handles standard on all models
- Steel base plate and saddle.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
RACL-502	496	50	236	9,3
RACL-504	496	100	286	10,6
RACL-506	496	150	336	11,9
RACL-1002	1002	50	296	21,9
RACL-1004	1002	100	346	24,2
RACL-1006	1002	150	396	26,5
RACL-1502	1589	50	323	32,2
RACL-1504	1589	100	373	36,2
RACL-1506	1589	150	423	40,2


Note: All available in strokes from 50 - 250 mm. Also with capacities of 20 and 30 ton.

HOLLOW PLUNGER



SPRING OR HYDRAULIC RETURN

- Hollow plunger design for both push and pull forces
- Safety valve in double-acting models prevents over pressurizing.


Model Number	Capacity (kN)		Stroke (mm)	Collapsed Ht. (mm)	Center Hole ø (mm)	 (kg)
	push	pull				
RCH-120	125	-	8	55	19,6	1,5
RCH-121	125	-	42	120	19,6	2,8
RCH-123	125	-	76	184	19,6	4,4
RCH-202	215	-	49	162	26,9	7,7
RCH-206	215	-	155	306	26,9	14,1
RCH-302	326	-	64	178	33,3	10,9
RCH-306	326	-	155	330	33,3	21,8
RRH-307	326	213	178	330	33,3	21,0
RRH-606	576	380	166	323	53,8	35,0
RRH-6010	576	380	257	438	53,8	45,0
RRH-1001	931	612	38	165	79,2	33,0
RRH-1006	931	612	153	342	79,2	79,0

HEAVY DUTY, LONG STROKE



DOUBLE-ACTING

- Plunger and collar threads, base mounting holes for easy fixturing
- Solid plunger design; built-in safety valve
- For industrial, construction and high cycling applications.


Model Number	Cyl. Capacity (kN)		Stroke (mm)	Collapsed Height (mm)	 (kg)
	push	pull			
RR-1010	101	33	254	409	12
RR-1012	101	33	305	457	14
RR-308	295	53	209	395	18
RR-3014	295	53	368	549	29
RR-506	498	103	156	331	30
RR-5013	498	103	334	509	52
RR-1006	933	435	168	357	61
RR-10013	933	435	333	524	93
RR-1506	1386	668	156	385	93

Note: Available up to 500 ton and strokes up to 1219 mm.



HOLLOW PLUNGER, SINGLE-ACTING

- Hollow plunger allows push and pull force
- Resistance to side-loads up to 10%
- Handles standard on all models
- Steel base plate and saddle.


Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Ht. (mm)	Center Hole ø (mm)	 (kg)
RACH-202	229	50	188	27	5,2
RACH-206	229	150	315	27	7,1
RACH-302	358	50	208	34	8,0
RACH-306	358	150	333	34	11,2
RACH-604	596	100	315	54	19,5
RACH-606	596	150	380	54	22,8
RACH-1006	1157	150	391	79	46,2

Note: All available in strokes from 50 - 250 mm. Also in 150 ton cylinder capacity.



SOLID PLUNGER, DOUBLE-ACTING

- Double-acting for rapid plunger retraction
- Safety valve prevents overpressurization
- Resistance to side-loads up to 10%
- Handles standard on all models
- Steel base plate and saddle.

Model Number	Cyl. Capacity (kN)		Stroke (mm)	Collapsed Height (mm)	 (kg)
	push	pull			
RAR-502	496	187	50	201	11,1
RAR-504	496	187	100	251	12,7
RAR-506	496	187	150	301	14,3
RAR-1004	1002	557	100	301	19,3
RAR-1006	1002	557	150	351	22,2
RAR-1008	1002	557	200	401	25,1
RAR-1506	1589	924	150	348	33,2

Note: All available in strokes from 50 - 250 mm. Also with capacities of 20 and 30 ton.

LOCK NUT, HIGH TONNAGE



SINGLE-ACTING, LOAD RETURN

- Safety Lock Nut for mechanical load holding
- Special synthetic coating for improved corrosion resistance and lower friction for smoother operation
- Withstands sideload forces up to 5% of rated capacity without scoring
- Overflow port functions as a stroke limiter
- Interchangeable, hardened grooved saddles.

WITH STOPRING, HIGH TONNAGE



SINGLE-ACTING, LOAD RETURN


- Integral stop ring provides piston blow-out protection
- Baked enamel outside finish and plated pistons provide superior corrosion protection
- Unique bearing design withstands sideload forces up to 8% of rated cylinder capacity without scoring
- Interchangeable, hardened grooved saddles are standard
- Plunger wiper reduces contamination ingress, extending cylinder life
- All cylinders meet ASME B-30.1 and ISO 10100 standards.

DOUBLE-ACTING, HIGH TONNAGE




DOUBLE-ACTING


- Baked enamel outside finish and plated pistons provide superior corrosion protection
- Unique bearing design withstands sideload forces up to 8% of rated cylinder capacity without scoring
- Safety valve in retract side of cylinder helps to prevent damage in case of accidental over-pressurization
- Interchangeable, hardened grooved saddles are standard
- Plunger wiper reduces contamination ingress, extending cylinder life
- All cylinders meet ASME B-30.1 and ISO 10100 standards.

Model Number*	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
CLL-502	496	50	164	15
CLL-506	496	150	264	25
CLL-5010	496	250	364	35
CLL-1002	929	50	187	30
CLL-1006	929	150	287	48
CLL-10010	929	250	387	64
CLL-1502	1390	50	209	53
CLL-1506	1390	150	309	78
CLL-15010	1390	250	409	104
CLL-2002	1859	50	243	83
CLL-2006	1859	150	343	117
CLL-20012	1859	300	493	170
CLL-2502	2562	50	249	116
CLL-25012	2562	300	499	234
CLL-3002	3193	50	295	173
CLL-30012	3193	300	545	323
CLL-40012	3919	300	585	441
CLL-50012	5118	300	625	617
CLL-60012	5983	300	645	737
CLL-80012	8238	300	705	1110
CLL-100012	10260	300	745	1430

* All models available in 50 mm stroke increments from 50 mm to 300 mm.

Model Number*	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	 (kg)
CLSG-502	539	50	162	17
CLSG-506	539	150	262	23
CLSG-5010	539	250	362	31
CLSG-1002	929	50	182	19
CLSG-1006	929	150	282	40
CLSG-10010	929	250	382	61
CLSG-1502	1390	50	196	39
CLSG-1506	1390	150	296	65
CLSG-15010	1390	250	396	92
CLSG-2002	1861	50	216	55
CLSG-2006	1861	150	316	91
CLSG-20012	1861	300	466	146
CLSG-25012	2565	300	485	207
CLSG-30012	3193	300	562	303
CLSG-40012	3919	300	625	421
CLSG-50012	5114	300	669	599
CLSG-60012	5987	300	679	701
CLSG-80012	8234	300	724	1058
CLSG-100012	10260	300	814	1439

* All models available in 50 mm stroke increments from 50 mm to 300 mm.

Model Number*	Capacity (kN)		Stroke (mm)	Collapsed Height (mm)	 (kg)
	push	pull			
CLRG-502	539	269	50	162	17
CLRG-506	539	269	150	262	23
CLRG-5010	539	269	250	362	31
CLRG-1002	929	433	50	179	29
CLRG-1006	929	433	150	279	40
CLRG-10010	929	433	250	379	52
CLRG-1502	1390	675	50	196	39
CLRG-1506	1390	675	150	296	65
CLRG-15010	1390	675	250	396	92
CLRG-2002	1861	889	50	212	55
CLRG-2006	1861	889	150	312	91
CLRG-20012	1861	889	300	462	146
CLRG-2502	2565	1068	50	235	89
CLRG-2506	2565	1068	150	335	136
CLRG-25012	2565	1068	300	485	207
CLRG-30012	3193	1060	300	572	303
CLRG-40012	3919	1354	300	624	421
CLRG-50012	5114	1733	300	669	599
CLRG-60012	5987	2068	300	679	701
CLRG-80012	8234	2709	300	734	1058
CLRG-100012	10260	3792	300	814	1439

* All models available in 50 mm stroke increments from 50 mm to 300 mm.


The Industry Standard

REDUCED HEIGHT, HIGH TONNAGE



SINGLE-ACTING, LOAD RETURN

- With reduced collapsed height
- Special synthetic coating for improved corrosion resistance and lower friction for smoother operation
- Overflow port functions as stroke limiter
- Interchangeable, hardened grooved saddles are standard
- Plunger wiper reduces contamination.


Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)		(kg)
CLS-502	496	50	128	14	
CLS-506	496	150	228	23	
CLS-5010	496	250	327	33	
CLS-1002	929	50	143	24	
CLS-1006	929	150	243	40	
CLS-10010	929	250	343	58	
CLS-1502	1390	50	165	43	
CLS-1506	1390	150	265	69	
CLS-15010	1390	250	365	95	
CLS-2002	1859	50	193	66	
CLS-2006	1859	150	293	101	
CLS-20012	1859	300	443	154	
CLS-2502	2562	50	193	90	
CLS-25012	2562	300	443	208	
CLS-30012	3193	300	485	288	
CLS-40012	3919	300	515	390	
CLS-50012	5118	300	545	540	
CLS-60012	5983	300	560	640	
CLS-80012	8238	300	605	950	
CLS-100012	10260	300	635	1210	

HYDRAULIC JACKS



INDUSTRIAL BOTTLE JACKS

- Cast pump linkage and beam
- Chrome plating on both plungers
- Wiper seal for extended life
- Fully serviceable
- Meets ASME B30.1, ASME PALD, PREN 1494 and CE standards.


Model Number	Capacity (kN)	Stroke (mm)	Screw Ext. (mm)	Collapsed Ht. (mm)		(kg)
EBJL-15GC	13	457	-	552	6,4	
EBJ-2GC	18	95	70	175	3,0	
EBJL-3GC	27	508	-	668	11,8	
EBJ-4GC	36	120	70	195	4,2	
EBJ-6GC	53	130	80	210	5,5	
EBJ-8GC	71	140	80	220	6,2	
EBJ-12GC	107	155	80	240	8,0	
EBJS-12GC	107	77	43	155	6,6	
EBJ-15GC	133	150	80	240	9,4	
EBJ-20GC	178	155	80	250	11,4	
EBJS-20GC	178	79	41	165	9,0	
EBJ-30GC	267	175	-	285	25,8	
EBJ-50GC	445	105	-	240	42,0	
EBJ-100GC	890	150	-	310	90,2	

* All CLS-models available in 50 mm stroke increments from 50 mm to 300 mm.



ALUMINIUM AND STEEL JACKS (JH)

- All-directional operation on 62, 133 and 311 kN conventional models
- Two-directional operation (vertical and horizontal) on 667 and 1335 kN ton models
- Internal relief valve to prevent overloading
- Includes pumping handle.


Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)		(kg)
JHA-73	62	76	133	5,0	
JHA-156	133	153	247	13,2	
JHA-356	311	155	257	18,1	
JHA-756	667	153	285	42,6	
JHA-1506	1335	155	327	95,3	
JH-306	267	155	254	26,8	
JH-506	445	154	260	20,8	
JH-1006	890	153	287	74,4	

LOW PROFILE, WITH LOCK NUT



SINGLE-ACTING, LOAD RETURN

- Extremely low profile for use in confined areas
- Lock nut for mechanical load holding safety
- Includes integral swivel saddle
- Overflow port functions as stroke limiter.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)		(kg)
CLP-602	606	50	125	15	
CLP-1002	1027	50	137	26	
CLP-1602	1619	45	148	44	
CLP-2002	1999	45	155	57	
CLP-2502	2567	45	159	74	
CLP-4002	3916	45	178	134	
CLP-5002	5114	45	192	189	

VERTICAL LIFTING WEDGE, MACHINE LIFTS





VERTICAL LIFTING WEDGE (LW-16)

- Requires very small access gap of 10 mm
- Each step can spread under full load
- Straight vertical lifting
- No first step bending or risk of slipping out
- Single-acting, spring return.

MACHINE LIFTS (SOH)

- Single-acting, spring return
- Separate pump (optional) enhances safety
- For lifting heavy equipment with minimum available access
- Adjustable toe starting height
- Two extendible support feet provide extra stability.

Model Number	Capacity (kN)	Stroke (mm)	Tip Clearance (mm)	Oil Cap. (cm ³)		(kg)
LW-16	157	21	10	78	9,0	

Model Number	Capacity (kN)	Stroke (mm)	Toe Position (mm) min max	Oil Cap. (cm ³)		(kg)
SOH-10-6	75	136	20 169	224	26	
SOH-23-6	178	157	30 190	525	45	



Enerpac pumps combine with other Enerpac tools to cut rebar, reposition heavy manufacturing

equipment, drive torque wrenches and nut splitters, and power massive production punches.

From hand pumps to Z-Class pumps. Whether electric-, air- or gas-powered, multiple reservoir and valve configurations provide the most comprehensive pump line available to suit your most challenging application.



New! Z-Class Pumps
A true innovation in pump design.

Z-Class pumps will stay on the job longer, require less energy to operate and when needed, have lower service costs.

Z-Class Hydraulic Pumps with electric (ZE, ZU4), air motor (ZA) or gasoline engine (ZG). High pressure pumps for general purposes, torque wrench pumps and workholding.

Choose from an extensive list of factory options and accessories for total system and pump control. Never before offered on industrial power units.

Z-Class pumps – tough, dependable and innovative.



LIGHTWEIGHT HAND PUMPS



COMPOSITE HYDRAULIC HAND PUMPS

- Lightweight design; impact and corrosion resistant
- Low handle effort
- For single-acting tools and cylinders
- P-842 with 4-way valve for operation of double-acting cylinders and tools
- Single- and two-speed operation.

Model Number	For Cyl. *	Max Pressure (bar)	Displacement per Stroke (cm ³)		Usable Oil Capacity (cm ³)	Usable Oil Capacity (kg)
			1st	2nd		
P-141	SA	700	-	0,90	327	2,4
P-142	SA	700	3,62	0,90	327	2,4
P-202	SA	700	3,62	0,90	901	3,4
P-391	SA	700	-	2,47	901	4,1
P-392	SA	700	11,26	2,47	901	4,1
P-802	SA	700	39,34	2,47	2540	8,2
P-842	DA	700	39,33	2,47	2540	10,0

* SA = single-acting; DA = double-acting.

STEEL HAND PUMPS



STEEL HAND PUMPS

- Durable, rugged metal design
- External load release valve
- Internal adjustable pressure relief valve
- For single- and double-acting cylinders and tools
- Footpump P-392FP: Steel frame and handle, aluminium reservoir, foot pedal lockable for easy carrying.

Model Number	For Cyl. *	Max. Pressure (bar)	Displacement per Stroke (cm ³)		Usable Oil Capacity (cm ³)	Usable Oil Capacity (kg)
			1st	2nd		
P-392FP	SA	700	11,26	2,47	492	7,0
P-39	SA	700	-	2,62	655	5,9
P-80	SA	700	16,22	2,46	2200	10,9
P-801	SA	700	16,22	2,46	4800	14,1
P-84	DA	700	16,22	2,46	2200	13,2
P-462	SA	700	126,20	4,75	7423	27,7
P-464	DA	700	126,20	4,75	7423	27,7

* SA = single-acting; DA = double-acting.

LOW PRESSURE HAND PUMPS



- Single speed pumps for single-acting cylinders and tools
- Bi-directional pumping (P-25, P-50) allows operation on both handle strokes
- P-51 can be operated in horizontal and vertical position
- External load release valve.

Model Number	Maximum Pressure (bar)	Displacement per Stroke (cm ³)		Usable Oil Capacity (cm ³)	Usable Oil Capacity (kg)
		1st	2nd		
P-18	200	2,62		295	5,0
P-25	175	9,50		3277	16,3
P-50	350	4,75		3277	16,8
P-51	200	4,10		819	5,4

HIGH PRESSURE HAND PUMPS



- Two-speed operation for faster hydraulic system fill, reduced cycle times for many testing operations (P-2282)
- 303 stainless steel construction for use with distilled water, diesters, silicones, soluble oils and petroleum (11-100, 11-400)
- Large release knob for improved control of pressure release.

Model Number	Maximum Pressure (bar)	Displacement per Stroke (cm ³)		Usable Oil Capacity (cm ³)	Usable Oil Capacity (kg)
		1st	2nd		
P-2282	2800	16,22	0,61	983	6,4
11-100	700	-	2,49	737	10,0
11-400	2800	-	0,62	737	10,0

The Industry Standard

Z-CLASS ELECTRIC DRIVEN HYDRAULIC PUMPS



ZU4 SERIES, PORTABLE PUMPS

- High oilflow: 10,5 l/min @ 85 bar; 1,0 l/min @ 700 bar
- LCD providing essential user information
- Self test, diagnostic and programming capabilities
- Z-Class high efficiency and lower operating costs: runs cooler and 18% less current draw
- 50/60-cycle universal motor 1,25 kW
- Very easy to service.

Modelnumber	For Cyl. *	Valve Type	Usable Oil Cap. (l)	Weight (kg)
230V / 1 ph, 1,25 kW				
Standard Electric	LCD Electric			
-	ZU4104DE	SA	Dump 3/2	4 28
ZU4204ME	ZU4204LE	SA	Man. 3/2	4 26
ZU4408ME	ZU4408LE	DA	Man. 4/3	8 31
-	ZU4204SE	SA	El. 3/2	4 28
-	ZU4408SE	DA	El. 4/3	8 38
ZU4204JE	ZU4204KE	SA	Man. 3/2	4 27
ZU4408JE	ZU4408KE	DA	Man. 4/3	8 32

* SA = single-acting; DA = double-acting.



ZE-SERIES, STATIONARY PUMPS

- Four oil flow groups and motor sizes
- LCD providing essential user information
- Self test, diagnostic and programming capabilities
- Z-Class high efficiency and lower operating costs: runs cooler and 18% less current draw
- Easy to customize with many factory options and plug-and-play accessory kits.

Modelnr.	For Cyl.	Oil Flow @ 700 bar (l/min)	Valve Type	Usable Oil Cap. (l)	Weight (kg)
400V-3ph (two stage)					
ZE3204LW	SA	0,55	Man. 3/2	4	42
ZE3420LW	DA	0,55	Man. 4/3	20	63
ZE3410SW	DA	0,55	Elect. 4/3	10	58
ZE4308SW	SA	0,82	Elect. 3/3	8	58
ZE4410SW	DA	0,82	Elect. 4/3	10	62
ZE5310SW	SA	1,64	Elect. 3/3	10	67
ZE5420LW	DA	1,64	Man. 4/3	20	72
ZE6440SW	DA	2,73	Elect. 4/3	40	120

Contact your distributor for other configurations.

Z-CLASS AIR HYDRAULIC PUMPS



ZA-SERIES, MODULAR AIR PUMPS

- Two speed pumps reduce cycle times
- ATEX 95 certified for use in potentially explosive atmospheres
- Optional heat exchanger warms exhaust air to prevent freezing and cools the oil
- Z-Class high efficiency design, higher oil flow and bypass pressure
- 3,0 kW air motor, 2840 l/min air consumption.

Model number	For Cyl.	Oil Flow @ 700 bar (l/min)	Manual Valve Type	Usable Oil Cap. (l)	Weight (kg)
ZA4204MX	SA	1,31	3/2	4	30
ZA4308MX	SA	1,31	3/3	8	34
ZA4410MX	DA	1,31	4/3	10	38
ZA4420MX	DA	1,31	4/3	20	52
ZA4440MX	DA	1,31	4/3	40	75

Contact your distributor for other configurations.

ELECTRIC PUMPS



ECONOMY PUMPS

- Lightweight and compact
- Highest oil-flow-to-weight ratio: 3,31 l/min up to 13 bar; 0,32 l/min up to 700 bar
- Motor and valve remote control
- 50/60-cycle universal motor 0,37 kW.

Modelnr.	For Cyl. *	Valve Type	Usable Oil Cap. (l)	Weight (kg)
230V-1ph				
PUD-1100E	SA	Dump valve	1,9	11,8
PUJ-1200E	SA	Manual 3/2	1,9	10,0
PUD-1300E	SA	Electric 3/2	1,9	12,0
PUD-1301E	SA	Electric 3/2	3,8	17,5
PUM-1201E	SA	Manual 3/2	3,8	15,4
PUJ-1401E	DA	Manual 4/3	3,8	18,6

SA = single-acting; DA = double-acting.

GASOLINE PUMPS



ZG-SERIES, Z-CLASS PUMPS

- Two speed pumps reduce cycle times
- Adjustable relief valve built-in on manual valve
- ZG6-model with wheeled cart, heat exchanger, electric start, 16 Amp output for accessories.

PGM-SERIES, ATLAS PUMPS

- Coaxial piston design.

Modelnr. with Roll Bar	For Cyl. *	Oil Flow @700 bar l/min	Motor (kW)	Use-able Oil (l)	Weight (kg)
ZG5310MX-R	SA	1,6	4,1	10	52
ZG5420MX-R	DA	1,6	4,1	20	64
ZG5320MX-BR	SA	1,6	4,8	20	63
ZG5420MX-BR	DA	1,6	4,8	20	63
ZG6440MX-BCFH	DA	3,3	9,7	40	152
PGM-2308R	SA	0,66	2,2	7,6	33
PGM-2408R	DA	0,66	2,2	7,6	33

TURBO II AIR HYDRAULIC PUMPS



TURBO II AIR HYDRAULIC PUMPS

- Operating air pressure: 1,7 - 8,6 bar
- High efficiency cast aluminium air motor
- Quiet, only 75 dBA with low air consumption of 340 l/min
- New generation air saver piston with rugged one piece design
- Heavy duty reservoir for tough applications
- External adjustable pressure relief valve
- Relief valve setting up to 700 bar.


Model Number*	For Cyl.	Oil Flow l/min	Usable Oil Cap.* (cm ³)	Weight (kg)	
PATG-1102N	SA	1,00	0,16	2081	8,2
PAMG-1402N	DA	1,00	0,16	2081	11,0

* 5 liter reservoir available: PATG-1105N, PAMG-1405N.

POST TENSIONING TOOLS



- Single-acting (PT) and double-acting (DPT)
- Standard with 3 inch nose assembly
- 1/2 inch gripper set with 201 kN models
- 0,60 inch gripper set with 295 kN models
- Quick and easy service with complete spare parts and soft kits offering
- 700 bar maximum operating pressure.


Model Number	Mono-Strand Ø (inch)	Capacity (kN)	Stroke (mm)	Oil Capacity (cm ³)	 (kg)
PT20-5SS	3/8 - 1/2	201	254	743	25
DPT20-5PS	3/8 - 1/2	201	216	869	19
PT30-6SS	3/8 - 0,60	295	254	1029	34
DPT30-6PS	3/8 - 0,60	295	216	1108	24

PULLERS



POSI LOCK® PULLERS

- Patented "safety cage" jaw retention system
- Roll-threaded shafts for less effort when applying high torque
- Available in 2- and 3-jaw design as well as inside and outside pulling configuration
- Available as 100 ton hydraulic grip puller.


Model Number	Capacity (kN)	Spread of jaws (mm)	Operation	 (kg)
EP-106	89	12-127	manual	3,6
EP-110	178	25-381	manual	7,3
EPHR-110 ¹⁾	142	25-381	hydraulic	23
EPHR-113 ¹⁾	232	63-457	hydraulic	48

¹⁾ Includes single-acting cylinder.



MULTI-PURPOSE PULLER SETS

- Set comes with pump, hose, cylinder, gauge, adaptor and case
- Includes also: grip puller, cross bearing puller, bearing cup and bearing puller attachment
- Quick set-up for a variety of jobs.

Model Number	Cap. (kN)	Grip Pullers		Cross Bearing		Bearing Cup		 (kg)
		R	S	R	S	R	S	
BHP-1752	71	252	249	462	266	110	110	37
BHP-2751G	178	300	499	571	351	140	220	90
BHP-3751G	267	387	800	711	454	145	359	172
BHP-5751G	445	700	1100	863	570	145	359	298

R= max reach in mm, S= max. spread in mm.

HYDRAULIC PUNCH



MUCH FASTER THAN DRILLING

- Punches mild steel up to 12,7 mm thickness
- Round, oblong and square punches and dies available.


Model Number	Capacity (kN)	Round Punch & Die Sets (included)
MSP-351 *	311	Ø 9,5 Ø 11,1 Ø 13,5 Ø 17,5

* Set weight 21 kg. Single-acting, spring return.

MAINTENANCE SETS - THE UNIVERSAL HYDRAULIC TOOL BOX



- Power to push, pull, lift, press, straighten, spread and clamp
- Sets include Enerpac lightweight hand pump, 1,8 m hose, cylinder(s), gauge and adaptor
- Numerous attachments permit quick configuration of specialized tools.

Model Number	Capacity (kN)	Nr of attachments	Cylinder Model Nr. included	 (kg)
MS2-4	22	35	RC-55	26
MS2-10	50	40	RC-106	63
MS2-20	116	19	RC-256	95
MS2-1020	50-116	59	RC-102, 106, 256	158

PIPE BENDERS




- Quick, safe and wrinkle-free bending
- Set includes pump, cylinder, hose, bender frame and bending shoes
- Pipe range 1/2 - 4 inch nominal size
- With bending angle indicator for accuracy and convenience.


HYDRAULIC CUTTERS



- Spring return for easy operation
- Self-contained (WMC) and pump powered (WHC) models available
- Guillotine action for easy operation
- Rotating head for operator convenience

Model Number	Cap. (kN)	Cutting Capacity			 (kg)
		Bar* Ø mm	Bolt* Ø mm	Wire* Ø mm	
WMC-750	40	17	17	19	3,6
WMC-1250	195	28	28	31	10,4
WMC-2000	127	31	22	50	10,9
WHC-750	40	19	19	19	3,2
WHC-1250	195	28	28	31	11,3
WHC-2000	127	31	22	50	10,4

* Contact Enerpac for details.

Set Model Number *	Pipe Range nominal size (inch)		 (kg)
	one shot	sweep	
STB-101E	1/2 - 2	-	57
STB-221H	1 - 2	2 1/2 - 4	130
STB-202E	1 1/4 - 4	-	212

* E with electric pump; H with hand pump.

The Industry Standard

PRESSES



BENCH AND WORKSHOP PRESSES

- Optimum daylight and bed width
- Height adjustment of lower bed width
- Moveable pump table on press with electric pumps allows easy side loading of workpieces
- Standard glycerine filled gauge dual scale reading in kN and bar.

Model Number	Press Cap. (kN)	Cyl. Stroke (mm)	Pump Type *	Max. Daylight (mm)		Max. Weight (kg)
				Vert.	Hor.	
VLP-106P142	101	155	H	430	432	49
VLP-256P392	232	159	H	1225	510	165
VLP-256PAT1	232	159	A	1225	510	161
VLP-506P802	498	159	H	994	1000	595
VLP-506ZE3C	498	155	E	994	1000	660
VLP-5013ZE5S	498	333	E	994	1000	700
VLP-1006ZE3C	933	168	E	989	1000	962
VLP-10013ZE3S	933	333	E	989	1000	993

* H = Hand Pump; E = Electric pump; A = Air hydr. pump.



C-CLAMP PRESSES

- 44, 89 and 178 kN capacity
- Operational in all positions.

ARBOR PRESSES

- Machined working surfaces for easier fixturing
- Foot mounding holes for horizontal or vertical positioning
- Slotted back simplifies loading and unloading of longer parts.

Model Number	Press Type	Press Cap. (kN)	Max. Daylight (mm)		Max. Weight (kg)
			Hor.	vert.	
A-205	C-clamp	45	51	165	7
A-210	C-clamp	101	57	228	17
A-220	C-clamp	178	70	305	38
A-310	Arbor	101	135	227	27
A-330	Arbor	295	178	260	86

GAUGES



DIGITAL PRESSURE GAUGE (DGR-1)

- Two modes: automatic shut off and continuous display
- Displays in bar, psi and MPa; low pressures in KPa, MPa, HPa and mbar.

GLYCERINE FILLED PRESSURE GAUGES (G)

- Dual scale reading in psi and bar.
- All pressure sensing parts sealed and dampened by glycerine
- Includes safety blow-out disk.

Model Number	Connection (NPTF)	Gauge Ø (mm)	Scale Reading (bar)
DGR-1	1/4" Lower Mount	76	0-1000
G-2531R	1/4" Center Rear	63	0-70
G-2535L	1/4" Lower Mount	63	0-700
G-2536L	1/4" Lower Mount	63	0-1000
G-4088L	1/4" Lower Mount	100	0-700
G-4039L	1/4" Lower Mount	100	0-700

HOSES, COUPLERS, OIL



- Thermoplastic hoses with 2800 bar burstpressure
- Hose lengths from 0,5 to 75 metres
- High flow coupler with 3/8" - 18 NPT oil connection, 17 l/min. maximum oil flow
- HF-95 hydraulic oil: prevents pump cavitation, additives prevents rust, oxidation and sludge.

Model Number	Description
H-7206	Hose length 1,8 m, 3/8" NPTF
H-7210	Hose length 3,0 m, 3/8" NPTF
H-7220	Hose length 6,1 m, 3/8" NPTF
HC-7206	Hose length 1,8 m, includes CH-604
HC-7210	Hose length 3,0 m, includes CH-604
CR-604	High Flow Coupler complete
C-400	Female High Flow Coupler Half
CH-604	Male High Flow Coupler Half
HF-95X	Premium hydraulic oil, 1 litre
HF-95Y	Premium hydraulic oil, 5 litres
HF-95Z	Premium hydraulic oil, 60 litres

CONTROL VALVES



PRESSURE AND FLOW CONTROL VALVES

- 700 bar maximum operating pressure
- NPTF porting to insure against leakage at rated pressure
- All valves are painted, coated, or plated for corrosion resistance.

Model Number	Description
V-82	Needle Valve 3/8", to control cylinder speed
V-182	Needle Valve 1/4", to control cylinder speed
V-8F	Needle Valve, as V-82 but very fine metering
V-91	Snubber Valve 1/2", or gauge shut-off valve
V-10	Auto Damper Valve 1/2"
V-17	Check Valve 3/8", closes smoothly w/o pounding
V-42	Pilot Operated Check Valve 3/8"
V-66	Manually Operated Check Valve 3/8", load holding
V-66F	Manually Operated Check Valve 3/8"
V-152	Pressure Relief Valve 3/8", limits pressure 55-700 bar
V-161	Sequence Valve 3/8", min. operating pressure 140 bar

DIRECTIONAL VALVES



DIRECTIONAL CONTROL VALVES

- 3-way to control single-acting cylinders and tools
- 4-way to control double-acting cylinders and tools
- VM- and VE-series valves have a built-in user adjustable pressure relief valve
- Manual and solenoid (24V) operation
- Max. pressure 700 bar, max. flow 17 l/min.

Model Number	Valve Type	Function	Mounting Location	Weight (kg)
VM32	Man. 3/2	Advance/Retract	Pump	2,5
VM33	Man. 3/3	Adv./Hold/Retr.	Pump	3,0
VC-3	Man. 3/2	Adv./Hold/Retr.	In-line	2,9
VM43	Man. 4/3	Adv./Hold/Retr.	Pump	3,1
VC-4	Man. 4/3	Adv./Hold/Retr.	In-line	2,9
VE32	Elect. 3/2	Adv./Hold/Retr.	Pump	3,9
VE32D *	Elect. 3/2	Advance/Retract	Pump	3,9
VE33	Elect. 3/3	Adv./Hold/Retr.	Pump	9,2
VE43	Elect. 4/3	Adv./Hold/Retr.	Pump	9,3

* VE32D is a Dump Valve.



Enerpac's hydraulic torque wrench line offers the ultimate versatility for torquing requirements in today's

industrial environment. Available in both square drive and hexagon drive models, Enerpac torque wrenches are designed to meet any challenge.

FLANGE MAINTENANCE TOOLS




PARALLEL WEDGE SPREADERS

- Integrated wedge concept: Friction-free, smooth parallel wedge movement eliminates flange damage and spreading arm failure
- Lightweight, portable, easy to use, one person operation
- Unique interlocking wedge design- no first step bending and risk of slipping out of joint
- FSM-8 mechanical version
- FSH-14 hydraulic version also available as set STF-14H including pump, hose and gauge.




FLANGE ALIGNMENT TOOLS

- Lightweight, portable
- Easy to use, one person operation
- Corrects twist and rotational misalignment without additional stress in pipelines
- For most commonly used ANSI, API, BS and DIN flanges
- Can be used in any position
- Stable in position under full load
- ATM-1 and ATM-3 are mechanical types.
- Hydraulic ATM-5 includes P-142 hand pump, 1,8 m hose and single-acting cylinder RC-53.

Model Number	Maximum Spreading Force (kN)	Tip Clearance (mm)	Max. ¹⁾ Spread (mm)	Oil capacity (cm ³)	 (kg)
FSM-8	72	6	81	-	6,5
FSH-14	125	6	81	78	7,1


¹⁾ using stepped block FSB-1.

Model Number	Maximum Lifting Force (kN)	Bolt Hole Range (mm)	Flange Wall Thickness (mm)	 (kg)
ATM-1	3	17 - 27	17 - 50	2,0
ATM-3	27	25 - 54	30 - 115	9,1
ATM-5	45	≥ 31,5	80 - 203	16,2

HYDRAULIC NUT SPLITTERS



- Crack nuts the safe way
- Compact, ergonomic, lightweight design
- Includes spare chisel, spare set screw and wrench
- Also available in sets including lightweight hand pump, hose, gauge and adaptor.


Model Number	Capacity (kN)	Bolt Range (mm)	Hexagon nut sizes (mm)	Oil cap. (cm ³)	 (kg)
NC-1319	49	M6-M12	10 - 19	15	1,2
NC-1924	98	M12-M16	19 - 24	20	2,0
NC-2432	147	M16-M22	24 - 32	60	3,0
NC-3241	196	M22-M27	32 - 41	80	4,4
NC-4150	343	M27-M33	41 - 50	155	8,2
NC-5060	490	M33-M39	50 - 60	240	11,8
NC-6075	882	M39-M48	60 - 75	492	34,1

MANUAL TORQUE MULTIPLIERS



ACCURATE TORQUE MULTIPLICATION

- Reversible, tighten or loosen nuts and bolts
- When accurate make-up or break-out of stubborn fasteners requires high torque
- Overload protection and anti-backlash device
- Angle-of-Turn protractor on E300-models
- One replacement shear drive included
- 1/2 inch female input square drive.

Model Number	Output capacity (Nm)	Input Torque (Nm)	Torque Ratio	Output Male Sq. (inch)	 (kg)
E391	1625	271	6 : 1	³ / ₄	4,1
E392	2980	219	13,6 : 1	1	6,9
E393	4340	234	18,5 : 1	1	8,3
E492	2980	219	13,6 : 1	1	7,8
E493	4340	234	18,5 : 1	1	8,8
E494	6780	256	26,5 : 1	1 1/2	15,4
E495	10845	208	52 : 1	1 1/2	22,8

TORQUE WRENCH HOSES



THERMOPLASTIC TWIN SAFETY HOSES

- Outside jacket is polyurethane for maximum abrasion resistance
- Four layer design with two high strength steel wire braids
- THQ-serie with 1/4" Spin-on couplers for use with 700 bar S and W-series wrenches
- THC-serie with 1/4" Lock-ring couplers for use with 800 bar SQD and HXD-series wrenches.

Model Number	Description	For use with Enerpac torque wrenches series
THQ-706T	6 m long, 2 hoses	700 bar S and W
THQ-712T	12 m long, 2 hoses	700 bar S and W
THC-7062	6 m long, 2 hoses	800 bar SQD, HXD
THC-7122	12 m long, 2 hoses	800 bar SQD, HXD

The Industry Standard

RIGID STEEL HYDRAULIC TORQUE WRENCHES



SQUARE DRIVE TORQUE WRENCHES

- Push button drive release for quickly reversing from tightening to loosening
- 360 degree swivel manifold
- Large nut rotation (35 degree), rapid return stroke and double-acting
- Constant torque output with $\pm 3\%$ accuracy across full stroke
- Optional Allen-key drives from 14-85 mm and 1/2 - 2 1/4 inch
- 700 bar maximum operating pressure.

Model Number	Socket Size Range		Square Drive (inch)	Max. Torque (Nm)	Weight (kg)
	(mm)	(inch)			
S1500	15 - 50	5/8 - 1 7/8	3/4	1898	2,7
S3000	20 - 100	7/8 - 3 7/8	1	4339	5,0
S6000	41 - 155	1 5/8 - 6 1/4	1 1/2	8144	8,5
S11000	41 - 155	1 5/8 - 6 1/4	1 1/2	14.914	15,0
S25000	60 - 255	2 3/8 - 10	2 1/2	34.079	31,0



LOW PROFILE HEXAGON WRENCHES

- No tools needed to change hexagon cassettes
- 360 degree swivel manifold
- Large nut rotation (35 degree), rapid return stroke and double-acting
- Constant torque output with $\pm 3\%$ accuracy
- Interchangeable hexagon cassettes and reducer inserts from 30-115 mm and 1 1/4-4 5/8"
- 700 bar maximum operating pressure.

Modelnr. Drive Unit	Hexagon Cassette Range		Maximum Torque (Nm)	Weight (kg)
	(mm)	(inch)		
W2000	36 - 60	1 7/8 - 2 9/8	2712	1,4
W4000	55 - 80	1 5/8 - 3 1/8	5423	2,0
W8000	70 - 95	2 3/16 - 3 7/8	10.846	3,0
W15000	80 - 115	2 9/16 - 5	20.337	5,0

Z-CLASS WRENCH PUMPS



- For use with any brand of 700 or 800 bar single- or double-acting torque wrenches
- Oil flow 0,9 - 1,0 l/min at maximum pressure

ZA4T - AIR HYDRAULIC WRENCH PUMPS

- Heat exchanger and regulator-filter-lubricator
- Gauge with transparent overlays in Nm and Ft.lbs for Enerpac wrenches
- ATEX 95 certified for use in potentially explosive atmospheres.

ZU4T - ELECTRIC WRENCH PUMPS

- Auto-cycle feature
- LCD provides self test, diagnostic and read-out capabilities
- Universal 1,25 kW-1ph-50/60Hz motor.

Model Number *	Max. Pressure (bar)	Usable Oil Cap. (litres)	Use with Enerpac wrench series	Weight (kg)
ZU4208TE-Q	700	8,0	S, W	36
ZU4208TE-E	800	8,0	SQD, HXD	36
ZA4208TX-Q	700	8,0	S, W	47
ZA4208TX-E	800	8,0	SQD, HXD	47

* ZU4T = 230V (115V available). ZA4T air consumption 2840 l/min.

LIGHTWEIGHT ALUMINIUM HYDRAULIC TORQUE WRENCHES



SQUARE DRIVE TORQUE WRENCHES

- High repeatability with $\pm 3\%$ accuracy
- Never-jam mechanism
- Optional Allen-key drives from 14-70 mm and 1/2 - 2 1/4 inch
- High speed, double-acting operation
- Slim nose radius
- 360 degree swivel manifold
- 800 bar maximum operating pressure.

Model Number	Socket Size Range		Square Drive (inch)	Max. Torque (Nm)	Weight (kg)
	(mm)	(inch)			
SQD-25-I	15 - 50	1 1/16 - 1 7/8	3/4	2350	2,5
SQD-50-I	20 - 100	7/8 - 3 7/8	1	4800	4,3
SQD-75-I	30 - 110	1 1/8 - 4 3/8	1 1/2	7560	6,7
SQD-100-I	40 - 120	1 5/8 - 4 3/4	1 1/2	10.000	8,0
SQD-160-I	60 - 155	2 3/8 - 6 1/8	1 1/2	16.000	12,0
SQD-270-I	80 - 255	3 1/8 - 10	2 1/2	27.000	24,5



HEXAGON CASSETTE TORQUE WRENCHES

- High repeatability with $\pm 3\%$ accuracy
- Interchangeable hexagon cassettes and reducer inserts from 30-130 mm and 1 1/4-5"
- High speed, double-acting operation
- Slim nose radius, flat design
- 360 degree swivel manifold
- 800 bar maximum operating pressure.

Modelnr. Drive Unit	Hexagon Cassette Range		Maximum Torque (Nm)	Weight (kg)
	(mm)	(inch)		
HXD-30	32 - 60	1 1/4 - 2 3/8	3290	1,6
HXD-60	41 - 80	1 5/8 - 3 1/8	6190	2,5
HXD-120	55 - 100	2 3/16 - 3 7/8	12.500	4,8
HXD-240	65 - 130	2 9/16 - 5	24.210	8,2

TORQUE WRENCH PUMPS



- Gauge with transparent overlays in Nm and Ft.lbs for Enerpac wrenches.

PMU - PORTABLE ELECTRIC PUMPS

- Standard heat exchanger
- Universal 0,37 kW, 1ph-50/60Hz motor
- Oil flow 0,34 l/min at maximum pressure.

PTE - PORTABLE ELECTRIC PUMPS

- Submerged motor for reduced heat build-up
- 1,8 kW electric motor
- Oil flow 0,9 l/min at maximum pressure.

Model Number	Max. Pressure (bar)	Usable Oil Cap. (litres)	Use with Enerpac wrench series	Weight (kg)
PMU10422-Q	700	2,8	S, W	24
PMU10422	800	2,8	SQD, HXD	24
PTE3404E-Q	700	1,7	S, W	31
PTE3404E	800	1,7	SQD, HXD	31

* Other voltages available, contact Enerpac.

700 bar Hydraulics



ENERPAC 
Hydraulic Technology Worldwide

The Industrial Tools Line

Cylinders

- General Purpose
- Pancake
- Aluminium Lightweight
- Low Height
- Heavy Duty
- Hollow Plunger
- Industrial
- Pull
- Long Stroke
- Jacks
- Spread

Pumps

- Manual
- Electric Driven
- Compressed Air Driven
- Petrol Driven

System Components

- Hoses, Couplers, Oil
- Gauges, Adaptors
- Manifolds, Fittings

Valves

- 3-and 4-Way Directional
- Pressure and Flow Control

Presses

- Bench and Workshop
- Roll Frame Presses
- Arbor and C-Clamps

Pullers

- Master Pullers Sets
- Multi Purpose Puller Sets
- Posi Lock® Pullers

Tools

- Maintenance Sets
- Punches
- Lifting Wedge
- Machine Lifts
- Load Skates
- Cutters
- Pipe Benders
- Post Tensioning Tools

Bolting Tools

- Nut Splitters
- Flange & Wedge Spreaders
- Flange Alignment Tools
- Manual Torque Multipliers
- Torque Wrenches
- Torque Wrench Pumps
- Twin Safety Hoses

Integrated Hydraulic Solutions

- Stage Lift Systems
- Synchronous Lifting Systems
- Synchronous Hoisting Systems

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