

# ENERPAC®



POWERFUL SOLUTIONS. GLOBAL FORCE.



GB

WCC

## WORLD CLASS COLLECTION

## GENERAL PURPOSE CYLINDERS



### RC-SERIES, GENERAL PURPOSE CYLINDERS

- Bearing system absorbs eccentric load to prevent galling cylinder parts
- Collar threads, plunger threads and base mounting holes enable easy fixturing on most models
- Single-acting, spring return.

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

## CYLINDER BASE PLATES



### JB1-SERIES, BASE PLATES

- To ensure the stability of cylinders for lifting applications
- Available for 10, 25 and 50 ton RC-cylinders
- Square footprint for 10 and 25 ton; Round base plate for 50 ton.

Model Number	For Cylinder	Footprint (mm)	Height (mm)
JB1-10	RC-10 ton	228 x 228	135
JB1-25	RC-25 ton	279 x 279	140
JB1-50	RC-50 ton	ø 304	31

## HOLLOW PLUNGER CYLINDERS



### RCH, RRH-SERIES, SPRING OR HYDRAULIC RETURN

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

Model Number	Cylinder Capacity (kN)		Stroke (mm)	Collapsed Height (mm)
	Push	Pull		
RCH-120	125	–	8	55
RCH-121	125	–	42	120
RCH-1211	125	–	42	120
RCH-123	125	–	76	184
RCH-202	215	–	49	162
RCH-206	215	–	155	306
RCH-302	326	–	64	178
RCH-306	326	–	155	330
RCH-603	576	–	76	247
RCH-606	576	–	153	323
RCH-1003	931	–	76	254
RRH-307	326	213	178	330
RRH-606	576	380	166	323
RRH-6010	576	380	257	438
RRH-1001	931	612	38	165
RRH-1006	931	612	153	342

## LOW HEIGHT CYLINDERS



### RCS, RSM-SERIES, LOW HEIGHT CYLINDERS

- Compact and portable
- Large plunger contact area with grooved end
- Single-acting, spring return.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
RCS-101	101	38	88
RCS-201	201	45	98
RCS-302	295	62	117
RCS-502	435	60	122
RCS-1002	887	57	141
RSM-50	45	6	32
RSM-100	101	11	43
RSM-200	201	11	51
RSM-300	295	13	58
RSM-500	435	16	66
RSM-750	718	16	79
RSM-1000	887	16	85
RSM-1500	1386	16	100

## ULTRA-FLAT CYLINDERS



### CULP-SERIES, WITH STOP RING

- Up to 4% side load of maximum capacity
- Stop ring for maximum stroke limitation
- Extremely low collapsed height
- Nitrocarburized surface treatment for harsh conditions.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
CULP-10	97	6	27,5
CULP-20	198	6	32,0
CULP-30	310	6	35,0
CULP-50	550	6	44,5

# Enerpac Hydraulic Cylinders

## CYLINDER-PUMP SETS



### SC SERIES, SINGLE-ACTING CYLINDER PUMP SETS

- Optimum component match
- 1,8 m safety hose, with gauge and adaptor
- 2-speed lightweight hand pump P-392
- Also available with XA-Series air hydraulic footpump - change H into XA in model number.

Model Number	Cylinder Capacity (kN)	Cylinder Model Nr.	Cylinder Stroke (mm)
SCR-102H	101	RC-102	54
SCR-106H	101	RC-106	156
SCR-154H	142	RC-154	101
SCR-156H	142	RC-156	152
SCR-252H	232	RC-252	50
SCR-254H	232	RC-254	102
SCR-256H	232	RC-256	158
SCL-101H	101	RCS-101	38
SCL-201H	201	RCS-201	45
SCL-302H	295	RCS-302	62
SCL-502H	435	RCS-502	60
SCH-202H	215	RCH-202	49
SCH-302H	326	RCH-302	64

## POWER-BOX



### POWER BOX – PORTABLE TOOL SETS

- Easy to carry sturdy tool box
- Includes a single-acting cylinder, P-392 two-speed lightweight hand pump, gauge adaptor assembly, 1,8 metre hose and couplers.

Model Number	Cylinder Capacity (kN)	Cylinder Model Nr.	Cylinder Stroke (mm)
SLW16PGH	157	LW-16	21
SWR5PGH	8,9	WR-5	94
SCR102PGH	101	RC-102	54
SCR106PGH	101	RC-106	156
SCR154PGH	142	RC-154	101
SCR156PGH	142	RC-156	152
SCL101PGH	101	RCS-101	38
SCL201PGH	201	RCS-201	45
SRS100PGH	101	RSM-100	11
SRS200PGH	201	RSM-200	11
SRS300PGH	295	RSM-300	13
SRS500PGH	435	RSM-500	16

## MAINTENANCE SETS



### MS-SERIES, THE UNIVERSAL HYDRAULIC TOOL BOX

- With hand pump, hose, cylinder(s), gauge, adaptor
- Quick configuration to push, pull, lift, press, straighten, spread and clamp:
  - base, collar and plunger attachments
  - chains and attachments for pulling
  - tubes, connectors and adaptors.

Model Number	Capacity * (kN)	Number of Attachments	Cylinder(s) Included
MS2-4	22	33	RC-55
MSFP-5	22	24	RC-55
MSFP-10	50	23	RC-106
MS2-10	50	35	RC-106
MS2-20	116	13	RC-256
MS2-1020	50 - 116	53	RC-102, 106, 256

\* When cylinders are used with attachments, the maximum system pressure must be limited to half the rated pressure (350 bar).

## PULL CYLINDERS



### SINGLE-ACTING, SPRING RETURN

- Chrome plated plunger
- Replaceable links on BRP models
- BRP-106 and BRP-306 models are fitted with rubber bellows for rod protection.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Extended Height (mm)
BRC-25	24	127	391
BRC-46	51	140	441
BRC-106	105	151	440
BRP-106C	105	151	738
BRP-106L	105	151	692
BRP-306	326	155	1240
BRP-606	505	152	871

## SPREADER CYLINDERS



### SINGLE-ACTING, SPRING RETURN

- WR-5: for use in very confined areas
- WR-15: for long stroke spreading
- A-92: spreader attachment.

Model Number	Capacity (kN)	Tip Clearance (mm)	Maximum Spread (mm)	Oil Capacity (cm <sup>3</sup> )
WR-5	8,9	12,8	94	10
WR-15	6,0	32,0	292	64
A-92 *	8,9	35,0	158	-

\* Threads onto RC-Series 10 ton cylinders (except RC-101).

## CUSTOM PRODUCTS AND SOLUTIONS



Although Enerpac has the broadest portfolio of high-pressure, controlled force hydraulic products, we know that some situations require a solution not available in our standard offering. These applications require a tailored solution to meet your needs. Whether you have a solution in mind or are not sure where to begin, we are committed to serving you. We welcome all requests, regardless of complexity.

- Special cylinders, pumps, presses, bolting tools
- Private-label products for OEM customers
- Special hydraulic systems
- Heavy lifting solutions.

## ALUMINIUM CYLINDERS - LIGHTWEIGHT



### RAC-SERIES, SINGLE-ACTING, SPRING RETURN

- Lightweight, easy to carry and position
- Handles standard on all models.



### RACL-SERIES, WITH LOCK NUT, SPRING RETURN

- With lock nut to secure loads mechanically
- Lightweight, easy to carry and position
- Handles standard on all models.

## DOUBLE-ACTING, LONG STROKE CYLINDERS



### RR-SERIES, HEAVY-DUTY, LONG-STROKE

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

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
RAC-202	218	50	174
RAC-204	218	100	224
RAC-206	218	150	274
RAC-302	309	50	181
RAC-304	309	100	231
RAC-306	309	150	281
RAC-502	496	50	186
RAC-504	496	100	236
RAC-506	496	150	286
RAC-1004	1002	100	271
RAC-1006	1002	150	321
RAC-1008	1002	200	371
RAC-1506	1589	150	343

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
RACL-302	309	50	231
RACL-304	309	100	281
RACL-306	309	150	331
RACL-502	496	50	236
RACL-504	496	100	286
RACL-506	496	150	336
RACL-1002	1002	50	296
RACL-1004	1002	100	346
RACL-1006	1006	150	396
RACL-1502	1589	50	323
RACL-1504	1589	100	373
RACL-1506	1589	150	423

\* Custom strokes available.

Model Number	Cylinder Capacity (kN)		Stroke (mm)	Collapsed Height (mm)
	Push	Pull		
RR-1010	101	33	254	409
RR-1012	101	33	305	457
RR-308	295	53	209	395
RR-3014	295	53	368	549
RR-506	498	103	156	331
RR-5013	498	103	334	509
RR-1006	933	435	168	357
RR-10013	933	435	333	524
RR-1506	1386	668	156	385
RR-15013	1386	668	333	582
RR-2006	1995	1017	152	430
RR-20013	1995	1017	330	608



### RACH-SERIES, HOLLOW PLUNGER, SINGLE-ACTING

- Hollow plunger design allows for both pull and push forces
- Lightweight, easy to carry and position
- Handles standard on all models.



### RAR-SERIES, SOLID PLUNGER, DOUBLE-ACTING

- Double-acting for rapid plunger retraction
- Safety valve prevents overpressurization
- Lightweight, easy to carry and position
- Handles standard on all models.



### PRECISION PRODUCTION, DOUBLE-ACTING

- Unique mounting configurations simplify fixturing
- Designed for long life; the best choice for production applications.

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
RACH-202	229	50	188
RACH-206	229	150	315
RACH-302	358	50	208
RACH-306	358	150	333
RACH-604	596	100	315
RACH-606	596	150	380
RACH-1002	1157	50	258
RACH-1006	1157	150	391
RACH-1502	1588	50	280
RACH-1506	1588	150	430

\* Custom strokes available.

Model Number *	Cylinder Capacity (kN)		Stroke (mm)	Collapsed Height (mm)
	Push	Pull		
RAR-202	218	130	50	189
RAR-206	218	130	150	289
RAR-302	309	179	50	201
RAR-306	309	179	150	301
RAR-502	496	187	50	201
RAR-504	496	187	100	251
RAR-506	496	187	150	301
RAR-1004	1002	557	100	301
RAR-1006	1002	557	150	351
RAR-1008	1002	557	200	401
RAR-1506	1589	924	150	348

\* Custom strokes available.

Model Number	Cylinder Capacity (kN)		Stroke (mm)	Collapsed Height (mm)
	Push	Pull		
BRD-41	35	16	28	186
BRD-43	35	16	79	237
BRD-46	35	16	155	313
BRD-91	80	44	28	223
BRD-93	80	44	79	274
BRD-96	80	44	155	350
BRD-910	80	44	257	452
BRD-166	142	77	159	389
BRD-1610	142	77	260	491
BRD-256	222	98	159	424
BRD-2510	222	98	260	526

# Enerpac Hydraulic Cylinders and Jacks

## SPECIALTY LIFTING TOOLS



- SOH-SERIES, HYDRAULIC MACHINE LIFTS**
- For lifting heavy equipment with minimal access
  - Separate hydraulic pump enhances safety
  - Adjustable toe starting height
  - Extendible support feet provide extra stability
  - Includes RC-DUO Series single-acting, spring return cylinder with CR-400 coupler.

Model Number	Capacity (kN)	Stroke (mm)	Toe Position (mm)			Oil Cap. (cm <sup>3</sup> )
			min.	central	max.	
SOH-10-6	75	136	20	95	169	224
SOH-23-6	178	157	30	110	190	525



- LW-SERIES, VERTICAL LIFTING WEDGE**
- Requires 10 mm access gap
  - 21 mm of vertical lift from each step (max. lift to 69 mm with optional LWB-1 stepped block)
  - Each step can spread under full load
  - Automatic mechanical retraction (single-acting).

Model Number	Capacity (kN)	Lifting Stroke (mm)	Tip Clearance (mm)	Oil Capacity (cm <sup>3</sup> )
LW-16	157	21	10	78

## STEEL BOTTLE JACKS



- GBJ-SERIES, INDUSTRIAL STEEL BOTTLE JACKS**
- Screw extension feature
  - Fully serviceable
  - Safety relief valve to prevent overload
  - Automatic by-pass port prevents over-extension
  - Wiper seal for extended life.

Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)	Screw Extension (mm)
GBJ002L	19	460	570	–
GBJ005	49	150	212	75
GBJ010	98	150	219	75
GBJ010S	98	62	131	30
GBJ015	147	150	128	75
GBJ020	196	150	234	75
GBJ020S	196	105	190	55
GBJ030	294	150	242	75

## POW'R-RISER® LIFTING JACKS



- PR-SERIES, DOUBLE-ACTING, HYDRAULIC RETURN**
- 54, 90, 136, 181 ton capacities with pneumatic or electric pumps for the toughest jobs
  - 3-pos. handle provides easy tilt and transport
  - Complies with ASME B30.1 specifications.

Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
PRAMA06014L	533	356	610
PREME06014L	533	356	610
PRAMA06027L	533	686	940
PREME06027L	533	686	940
PRAMA10016L	889	406	660
PREME10016L	889	406	660
PRAMA10027L	889	686	940
PREME10027L	889	686	940
PRASA15016L	1333	394	660
PRASA15027L	1333	673	940
PREME15016L	1333	394	660
PREME15027L	1333	673	940
PRASA20016L	1778	388	660
PRASA20027L	1778	617	940

## POW'R-LOCK™ PORTABLE LIFT SYSTEM



- PL-SERIES, DOUBLE-ACTING, HYDRAULIC RETURN**
- Pow'R-LOCK™ Self-Locking Portable Lift System
  - Provides continuous locking protection during lift, lower and hold functions
  - Patent-pending control technology synchronizes cylinder and lock nut for smooth and efficient lifting and lowering
  - Simple 2-button pendant allows operation of raise and lower functions from up to 6 m away
  - Meets ANSI B30.1-2015, AS/NZS-2538, AS/NZS-2693 certification criteria.

Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
PL20014-ASA	1779	356	864
PL20025-ASA	1779	622	1156

## ALUMINIUM AND STEEL JACKS



- JHA-SERIES SAF-T-LITE® ALUMINIUM JACKS**
- All-directional operation on 62, 133 and 311 kN
  - Vertical and horizontal operation other models
- JH-SERIES PREMIUM STEEL JACKS**
- Chrome plated plungers
  - Flat front and bottom surfaces.

Model Number	Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
JHA-73	62	76	133
JHA-156	133	153	247
JHA-356	311	155	257
JHA-756	667	153	285
JHA-1506	1335	155	327
JH-306	267	155	254
JH-506	445	154	260
JH-1006	890	153	287

# Enerpac High Tonnage Cylinders

## SINGLE-ACTING, HIGH TONNAGE



### HCG-SERIES, SINGLE-ACTING, GRAVITY RETURN

- Hardened surface resists side-loading and cyclic wear
- Designed to withstand 10% side-load of maximum capacity <sup>1)</sup>
- Stop ring to prevent plunger blow-out
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes and collar threads.

## DOUBLE-ACTING, HIGH TONNAGE



### HCR-SERIES, DOUBLE-ACTING CYLINDERS

- Fast advance and retract
- Designed to withstand 10% side-load of maximum capacity <sup>1)</sup>
- Hardened surface resists side-loading and cyclic wear
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes and collar threads.

## LOCK NUT CYLINDERS, HIGH TONNAGE



### HCL-SERIES, SINGLE-ACTING, GRAVITY RETURN

- Low friction to easily spin the load locking rings
- Designed to withstand 10% side-load up to 90% of maximum stroke
- Hardened surface resists side-loading and cyclic wear
- Overflow port as stroke limiter to prevent plunger blow-out
- Weather protected, inside and out
- Replaceable bearings enclose the plunger for support throughout the stroke
- Certified lifting eyes and base mounting holes.

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
HCG-502	550	50	183
HCG-506 <sup>1)</sup>	550	150	283
HCG-5010	550	250	396
HCG-1002	1002	50	202
HCG-1006	1002	150	302
HCG-10010	1002	250	429
HCG-1502	1497	50	220
HCG-1506	1497	150	320
HCG-15010	1497	250	447
HCG-2002	1985	50	231
HCG-2006	1985	150	331
HCG-20012	1985	300	508
HCG-2502	2541	50	241
HCG-2506	2541	150	341
HCG-25012	2541	300	531
HCG-3002	3036	50	296
HCG-3006	3036	150	396
HCG-30012	3036	300	546
HCG-4002	4008	50	321
HCG-4006	4008	150	421
HCG-40012	4008	300	571
HCG-5006	5114	150	444
HCG-50012	5114	300	594
HCG-6006	5987	150	452
HCG-60012	5987	300	602
HCG-8006	8149	150	504
HCG-80012	8149	300	654
HCG-10006	10.644	150	542
HCG-100012	10.644	300	692

\* All models are available in 50 mm stroke increments from 50 to 300 mm.  
<sup>1)</sup> HCG-506 and HCG-5012: 7% side-load of maximum capacity.

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
HCR-502	550	50	183
HCR-506 <sup>1)</sup>	550	150	283
HCR-5010	550	250	396
HCR-1002	1002	50	202
HCR-1006	1002	150	302
HCR-10010	1002	250	429
HCR-1502	1497	50	220
HCR-1506	1497	150	320
HCR-15010	1497	250	447
HCR-2002	1985	50	231
HCR-2006	1985	150	331
HCR-20012	1985	300	508
HCR-2502	2541	50	241
HCR-2506	2541	150	341
HCR-25012	2541	300	531
HCR-3002	3036	50	296
HCR-3006	3036	150	396
HCR-30012	3036	300	546
HCR-4002	4008	50	321
HCR-4006	4008	150	421
HCR-40012	4008	300	571
HCR-5006	5114	150	444
HCR-50012	5114	300	594
HCR-6006	5987	150	452
HCR-60012	5987	300	602
HCR-8006	8149	150	504
HCR-80012	8149	300	654
HCR-10006	10.644	150	542
HCR-100012	10.644	300	692

\* All models are available in 50 mm stroke increments from 50 to 300 mm.  
<sup>1)</sup> HCR-506 and HCR-5012: 7% side-load of maximum capacity.

Model Number *	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
HCL-502	550	50	164
HCL-506	550	150	264
HCL-5010	550	250	364
HCL-1002	1002	50	187
HCL-1006	1002	150	287
HCL-10010	1002	250	387
HCL-1502	1497	50	209
HCL-1506	1497	150	309
HCL-15010	1497	250	409
HCL-2002	1985	50	238
HCL-2006	1985	150	338
HCL-20012	1985	300	488
HCL-2502	2541	50	249
HCL-2506	2541	150	349
HCL-25012	2541	300	499
HCL-3002	3036	50	278
HCL-3006	3036	150	378
HCL-30012	3036	300	528
HCL-4002	4008	50	317
HCL-4006	4008	150	417
HCL-40012	4008	300	567
HCL-5006	5114	150	457
HCL-50012	5114	300	607
HCL-6006	5987	150	480
HCL-60012	5987	300	630
HCL-8006	8149	150	530
HCL-80012	8149	300	680
HCL-10006	10.644	150	584
HCL-100012	10.644	300	734

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

# Enerpac High Tonnage and Telescopic Cylinders

## LOW HEIGHT LOCK NUT CYLINDERS



### LPL-SERIES, SINGLE-ACTING, GRAVITY RETURN

- Lock nut provide mechanical load holding for a safe work environment
- Integrated tilt saddle allows for up to 5 degrees of misalignment
- Extreme low height for use in confined areas
- Side-load resistance 5-10% of maximum capacity
- Overflow port as stroke limiter to prevent plunger blow-out.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
LPL-602	606	50	126
LPL-1002	1002	50	137
LPL-1602	1589	45	148
LPL-2002	1985	45	155
LPL-2502	2541	45	159
LPL-4002	4008	45	178
LPL-5002	5114	45	192

## ULTRA-FLAT CYLINDERS



### CUSP-SERIES, SINGLE-ACTING, GRAVITY RETURN

- Extremely low collapsed height
- Up to 4% side load of maximum capacity
- Integrated tilting function up to 4 degrees
- Nitrocarburized surface treatment for harsh conditions
- "Red Line" for visual maximum stroke limitation.

Model Number	Cylinder Capacity (kN)	Stroke (mm)	Collapsed Height (mm)
CUSP-10	97	6,7	35,5
CUSP-20	198	7,0	40,5
CUSP-30	310	7,3	42,5
CUSP-50	550	13,3	57,0
CUSP-75	792	14,0	60,5
CUSP-100	1078	14,7	63,5
CUSP-150	1589	14,3	65,0
CUSP-200	2090	14,9	69,0
CUSP-250	2542	15,5	72,5
CUSP-300	3167	14,1	72,5
CUSP-400	4008	14,6	77,5
CUSP-500	5115	15,2	82,5
CUSP-600	5987	15,6	87,5
CUSP-750	7527	16,3	93,5
CUSP-1000	10.165	17,4	103,0

## TELESCOPIC CYLINDERS



### RT-SERIES, MULTI-STAGE, LOAD RETURN

- Long cylinder strokes in confined space
- Nitrocarburized treatment for extreme conditions
- 3% side-load of full capacity
- Integral tilt saddle with maximum tilt angle up to 5 degree.

Model Number	Cylinder Capacity (kN)	Max. Stroke (mm)	Stages	Collapsed Height (mm)
RT-1510	14,0	270	2	283
RT-1817	17,0	435	3	345
RT-2111	20,2	300	2	317
RT-2119	20,2	500	3	395
RT-3311	31,5	300	2	352
RT-3323	31,5	600	3	476

## HYDRAULIC HAND PUMPS



### COMPOSITE HYDRAULIC HAND PUMPS

- Lightweight design; impact and corrosion resistant
- Two-speed operation for fast and easy operation (except P-141, P-391)
- Handle lock for easy carrying.



### STEEL HYDRAULIC HAND PUMPS

- Reduced handle effort and ergonomic grip for less operator fatigue
- Two-speed operation for fast and easy operation (except P-39)
- Quick grip handle allows for easy transport
- All steel construction, chrome plated plunger and wiper system for durable, long lasting performance.

## ALUMINIUM HAND PUMP



### LIGHTWEIGHT ALUMINIUM HAND PUMP

- Proven design for harsh conditions
- Compact durable design
- Two-speed operation for high efficiency
- Handle-lock and lightweight construction for easy carrying
- Internal pressure relief valve for overload protection.

Model Number	For Cylinder	Maximum Pressure (bar)	Displacement per Stroke (cm <sup>3</sup> )		Usable Oil Capacity (cm <sup>3</sup> )
			1st	2nd	
P-141	S/A	700	-	0,90	327
P-142	S/A	700	3,62	0,90	327
P-202	S/A	700	3,62	0,90	901
P-391	S/A	700	-	2,47	901
P-392	S/A	700	11,26	2,47	901
P-802	S/A	700	39,33	2,47	2540
P-842	D/A	700	39,33	2,47	2540

S/A = single-acting; D/A = double-acting.

Model Number	For Cylinder	Maximum Pressure (bar)	Displacement per Stroke (cm <sup>3</sup> )		Usable Oil Capacity (cm <sup>3</sup> )
			1st	2nd	
P-39	S/A	700	-	2,46	672
P-77	S/A	700	16,39	2,46	672
P-80	S/A	700	16,39	2,46	2200
P-801	S/A	700	16,39	2,46	4100
P-84	D/A	700	16,39	2,46	2200
P-462	S/A	700	126,20	4,75	7423
P-464	D/A	700	126,20	4,75	7423

S/A = single-acting; D/A = double-acting.

Model Number	For Cylinder	Maximum Pressure (bar)	Displacement per Stroke (cm <sup>3</sup> )		Usable Oil Capacity (cm <sup>3</sup> )
			1st	2nd	
P-392AL	S/A	700	11,26	2,47	820

S/A = single-acting.

## CORDLESS PUMPS



### BATTERY POWERED, PORTABILITY OF A HAND PUMP

- Lightweight design with integrated handle and carrying strap for portability
- Bladder reservoir prevents contamination and allows pump usage in any position
- Powerful 0,37 kW motor and 28 Volt Lithium-Ion battery deliver exceptional speed and run time.

## LOW PRESSURE HAND PUMPS



### WHEN LESS THAN 700 BAR IS ALL YOU NEED

- Bi-directional pumping (P-25 and P-50)
- For single-acting tools and cylinders
- Single-speed operation.

## HIGH PRESSURE HAND PUMPS



### ULTRA-HIGH PRESSURE UP TO 2800 BAR

- Two-speed operation for faster fill, reducing 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).

Model Number	For Cylinder or Tool	Charger Voltage (VAC)	Output Flow Rate (l/min)		Usable Oil Capacity (litres)
			No Load	700 bar	
XC-1201MB	S/A	115	2,0	0,25	1,0
XC-1202MB	S/A	115	2,0	0,25	2,0
XC-1201ME	S/A	230	2,0	0,25	1,0
XC-1202ME	S/A	230	2,0	0,25	2,0
XC-1401ME	D/A	230	2,0	0,25	1,0
XC-1402ME	D/A	230	2,0	0,25	2,0

S/A = single-acting; D/A = double-acting.

Model Number	Maximum Pressure (bar)	Displacement per stroke (cm <sup>3</sup> )	Usable Oil Capacity (cm <sup>3</sup> )
P-25	175	9,50	3277
P-50	350	4,75	3277
P-51	200	4,10	819

Model Number	Maximum Pressure (bar)	Displacement per stroke (cm <sup>3</sup> )		Usable Oil Capacity (cm <sup>3</sup> )
		1st	2nd	
P-2282	2800	16,22	0,61	983
11-100	700	-	2,49	737
11-400	2800	-	0,62	737



## Z-CLASS ELECTRIC HYDRAULIC PUMPS



### ZU4-SERIES, ELECTRIC PUMPS

- High-efficiency pump has higher oil flow and bypass pressure, runs cooler and requires 18% less current draw than comparable pumps
- Powerful 1,25 kW universal electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics.



### ZE-SERIES, ELECTRIC PUMPS

- High-efficiency pump has higher oil flow and bypass pressure, runs cooler and requires 18% less current draw than comparable pumps
- ZE3: 0,75 kW, 0,55 l/min at 700 bar;  
ZE4: 1,12 kW, 0,82 l/min at 700 bar;  
ZE5: 2,24 kW, 1,64 l/min at 700 bar;  
ZE6: 5,6 kW, 2,73 l/min at 700 bar.

## Z-CLASS AIR HYDRAULIC PUMPS



### ZA4-SERIES, AIR HYDRAULIC PUMPS

- High efficiency pump design; higher oil flow and bypass pressure than comparable pumps
- Two speed operation and high by-pass pressure reduces cycle time for improved productivity
- Output flow rate 1,3 l/min at 700 bar
- ATEX rated
- 2840 l/min air consumption.

Model Number *	LCD	For Cyl. **	Valve Type	Usable Oil Capacity (litres)
ZU4108DE	•	S/A	Electric Dump 3/2	8,0
ZU4308ME	-	S/A	Manual 3/3	8,0
ZU4320ME	-	S/A	Manual 3/3	20,0
ZU4208SE	•	S/A	Electric 3/2	8,0
ZU4408SE	•	D/A	Electric 4/3	8,0
ZU4308JE	-	S/A	Manual 3/3	8,0
ZU4408JE	-	D/A	Manual 4/3	8,0

\* 240V-1phase, 50/60 Hz. Output oil flow 1,0 l/min at 700 bar.

\*\* S/A = single-acting; D/A = double-acting.

Model Number 400V - 3 ph	LCD	For Cyl. *	Valve Type	Usable Oil Capacity (litres)
ZE3108DW	•	S/A	Electric Dump 3/2	8,0
ZE3208MW	-	S/A	Manual 3/2	8,0
ZE4308MW	-	S/A	Manual 3/3	8,0
ZE4420LW	•	D/A	Manual 4/3	20,0
ZE4308SW	•	S/A	Electric 3/3	8,0
ZE5410SW	•	D/A	Electric 4/3	10,0
ZE5420SW	•	D/A	Electric 4/3	20,0
ZE6440SW	•	D/A	Electric 4/3	40,0

\* S/A = single-acting; D/A = double-acting.

Model Number	For Cylinder *	Valve Type	Usable Oil Capacity (litres)
ZA4204MX	S/A	Manual 3/2	4,0
ZA4308MX	S/A	Manual 3/3	8,0
ZA4220MX	S/A	Manual 3/2	20,0
ZA4404MX	D/A	Manual 4/3	4,0
ZA4408MX	D/A	Manual 4/3	8,0
ZA4410MX	D/A	Manual 4/3	10,0
ZA4420MX	D/A	Manual 4/3	20,0
ZA4440MX	D/A	Manual 4/3	40,0

\* S/A = single-acting; D/A = double-acting.

## ELECTRIC HYDRAULIC PUMPS



### PU-SERIES, ECONOMY PUMPS

- Lightweight and compact
- Highest oil-flow-to-weight ratio: 3,31 l/min at 13 bar; 0,32 l/min at 700 bar
- Single-phase 50/60-cycle universal 0,37 kW motor.

Model Number 230V - 1 ph	For Cylinder *	Valve Type	Usable Oil Capacity (litres)
PUD-1100E	S/A	Dump valve 3/2 **	1,9
PUJ-1200E	S/A	Manual 3/2	1,9
PUJ-1201E	S/A	Manual 3/2	3,8
PUJ-1400E	D/A	Manual 4/3	1,9

\* S/A = single-acting; D/A = double-acting.

\*\* Electric dump valve for auto-retract.

## AIR HYDRAULIC PUMPS



### PA-SERIES, TURBO II AIR PUMPS

- Operating air pressure: 2,8 - 8,8 bar
- Quiet 76 dBA, low air consumption 340 l/min

### XA-SERIES, FOOT PUMPS

- Ergonomic design for less operator fatigue
- Variable oil flow and fine metering for precise control.

Model Number	For Cyl. ***	Oil Flow (l/min)		Valve Type	Usable Oil Capacity (litres)
		No Load	700 bar		
PATG-1102N	S/A	1,0	0,16	3/3	2,0
PAMG-1402N	D/A	1,0	0,16	4/3	2,0
PARG-1102N *	S/A	0,76	0,10	3/3	2,0
XA11	S/A	2,0	0,25	3/3	1,0
XA11G **	S/A	2,0	0,25	3/3	1,0

\* Remote pendant controlled. \*\* With integrated pressure gauge.

\*\*\* S/A = single-acting; D/A = double-acting.

## GASOLINE HYDRAULIC PUMPS



### ZG-SERIES, Z-CLASS PUMPS

- Features high efficiency pump design; higher oil flow and bypass pressure than comparable pumps.

Model Number	For Cyl. *	Engine (kW)	Oil Flow ** (l/min)	Valve Type	Usable Oil Capacity (litres)
ZG5410MX-R	D/A	4,1	1,60	4/3	10,0
ZG5410MX-BR	D/A	4,8	1,60	4/3	10,0
ZG6440MX-BCFH	D/A	9,7	3,30	4/3	40,0

\* D/A = double-acting.

\*\* Oil flow at 700 bar.

## 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 designs as well as inside and outside pulling configurations
- Available in 100 ton hydraulic grip puller.



### MULTI-PURPOSE PULLER SETS

- Set comes with hand pump, hose, cylinder, gauge, adaptor and case
- Also includes: grip puller, cross bearing puller, bearing cup and bearing puller attachments
- Quick set-up for a variety of jobs.

## PIPE BENDERS



### QUICK, SAFE AND WRINKLE-FREE BENDING

- Set includes pump, cylinder, hose, bender frame and bending shoes
- Pipe range ½ - 4 inch nominal bore size
- With bending angle indicator for accuracy and convenience.

Model Number (3 jaws)	Capacity (kN)	Spread of Jaws (mm)	Operation
EP-106	89	12 - 178	Manual
EP-110	178	25 - 381	Manual
EPH-110	142	25 - 381	Hydraulic *
EPH-113	232	63 - 457	Hydraulic *

\* Cylinder not included.

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

\* R = maximum reach in mm,  
S = maximum spread in mm.

Model Number *	Pipe Range Nominal Bore (inch)	
	one shot	sweep
STB-101E	½ - 2	-
STB-221H	1 - 2	2½ - 4
STB-202E	1¼ - 4	-

\* E = with electric pump,  
H = with hand pump.

## HYDRAULIC PUNCH



### MUCH FASTER THAN DRILLING

- Punches mild steel up to 12,7 mm thickness
- Durable steel case keeps tools and dies together and provides for easy carrying and storage
- Round, oblong and square punches and dies available
- Available as Tool-Pump Sets with hose, gauge, adaptor and pump.

Model Number	Capacity (kN)	Round Punch & Die Sets				
		Included	Hole Size		Bolt Size	
SP-35S	311	SPD-438	11,1	0,44	M10	¾
		SPD-563	14,3	0,56	-	½
		SPD-688	17,5	0,69	M16	¾
		SPD-813	20,6	0,81	-	¾

## HEAVY DUTY LOAD SKATES SETS



### MOVE HEAVY LOADS EASILY AND SAFELY

- Rugged and sturdy construction for long life
- Low profile construction for increased stability
- Low rolling-resistance allows for easy transportation
- Attachable load leveling plates and swivel turntables for turning corners.

Set Model Number	Capacity * (kN)	Sets include		
		Load Skates (4x)	Turntable Swivels (2x)	Leveling Plates (2x)
ERS-20	178	ER-10	ES-10	ELP-10
ERS-30	267	ER-15	ES-15	ELP-15
ERS-60	533	ER-30	ES-30	ELP-30

\* Sets are designed to enable two skates to take full load for extra safety on uneven floor surfaces.

## HYDRAULIC CUTTERS



### IDEAL FOR A WIDE RANGE OF MATERIALS

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

Model Number	Capacity (kN)	Maximum Cutting Capacity (ø mm)			
		Bar	Bolt	Wire	Cable
WMC-750	40	17	17	19	17
WMC-1250	195	28	31	31	-
WMC-2000	127	31	22	50	50
WHC-750 *	40	19	19	19	-
WHC-1250 *	195	28	28	31	-
WHC-2000 *	127	31	22	50	50

\* Recommended hand pump for WHC-Cutterheads: P-392.

## PRESSES



### BENCH AND WORKSHOP PRESSES

- Height adjustment of upper or lower bed with winch (XLP 50 and 75 ton)
- Width adjustment allows cylinder to move from side-to-side
- Pump options include XA-Series air-operated foot pump: suitable for delicate pressing jobs from variable oil flow.

Model Number	Capacity (kN)	Pump Type	Cylinder Stroke (mm)	Maximum Daylight H x W (mm)
VLP-106P142	101	Manual	156	430 x 435
XLP-256P392	232	Manual	158	1225 x 510
XLP-256XA11G	232	Air	158	1225 x 510
XLP-506P802	498	Manual	159	993 x 990
XLP-506XA12G	498	Manual	159	993 x 990
XLP-5013ZES	498	Electric	334	993 x 990
XLP-756XA12G	718	Air	156	989 x 990
VLP-10013ZES	933	Electric	333	989 x 990
VLP-20013ZES	1995	Electric	330	1340 x 1220



### ROLL-FRAME PRESSES

- Roller head design to allow lateral movement and locking of the cylinder
- Frame rolls easily on four steel roller bearings
- Effortless adjustment of vertical daylight
- With ZE-Series electric pump.

Model Number	Capacity (kN)	Vertical Daylight min. - max. (mm)	Max. Bed Width (mm)	Cylinder Stroke (mm)
BPR-5075	498	152 - 942	730	334
BPR-10075	933	159 - 1048	889	333
BPR-20075	1995	279 - 1295	1219	330



### C-CLAMP PRESSES

- 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 Capacity (kN)	Maximum Daylight H x W (mm)
A-205	C-Clamp	45	51 x 165
A-210	C-Clamp	101	57 x 228
A-220	C-Clamp	178	70 x 305
A-310	Arbor	101	135 x 230
A-330	Arbor	295	178 x 260

## PRESSURE GAUGES



### GLYCERINE FILLED PRESSURE GAUGES

- Dual scale reading in psi and bar
- All pressure sensing parts sealed and dampened by glycerine for long life
- Includes safety blow-out disk and pressure equalizing membrane
- GA45GC includes gauge, coupler and 45° adaptor.

Model Number	Face Ø (mm)	Connection (NPTF)	Pressure Range (bar)	Pressure Range (psi)
G2531R	63	1/4" Center Rear	0-70	0-1000
G4088L	100	1/4" Lower Mount	0-700	0-10.000
G4039L	100	1/2" Lower Mount	0-700	0-10.000
GA45GC	63	3/8" Lower Mount	0-700	0-10.000



### HOSES, COUPLERS AND HYDRAULIC OIL

- Thermoplastic hoses, 2800 bar burstpressure
- 700 bar high flow coupler, 3/8"-18 NPTF, 17 l/min maximum oil flow
- Premium hydraulic oil: prevents pump cavitation, additives prevents rust, oxidation and sludge.

Model Number	Description
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, 3/8" includes CH-604
HC-7210	Hose, length 3,0 m, 3/8" includes CH-604
HC-7220	Hose, length 6,1 m, 3/8" includes CH-604
C-604	3/8" High flow coupler complete
CR-400	3/8" Female half high flow coupler
CH-604	3/8" Male half high flow coupler
HF-95X	Premium hydraulic oil, 1 litre
HF-95Y	Premium hydraulic oil, 5 litres
HF-95T	Premium hydraulic oil, 20 litres



### FLOW CONTROL VALVES

- Rated for 700 bar 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
V-182	Needle valve
V-8F	Needle valve
V-91	Snubber valve
V-10	Auto damper valve
V-17	Check valve
V-42	Pilot operated check valve
V-66	Manually operated check valve
V-66F	Manually operated check valve
V-152	Pressure relief valve
V-161	Sequence valve

## MANUAL TORQUE MULTIPLIERS



### E-SERIES, ACCURATE TORQUE MULTIPLICATION

- Reversible, tighten or loosen nuts and bolts
- Provides high output torque for accurate make-up or break-out of fasteners
- 1/2 inch female input square drive.

Model Number	Nominal Output Torque (Nm)	Input Torque (Nm)	Torque Ratio	Output Male Square Drive (inch)
E391	1625	271	6 : 1	3/4
E392	2980	219	13,6 : 1	1
E393	4340	234	18,5 : 1	1
E492	2980	219	13,6 : 1	1
E493	4340	234	18,5 : 1	1
E494	6780	256	26,5 : 1	1 1/2
E495	10.845	208	52 : 1	1 1/2

## RIGID STEEL HYDRAULIC TORQUE WRENCHES



### S-SERIES, SQUARE DRIVE TORQUE WRENCHES

- Compact, high-strength uni-body construction with small nose radius
- 35° rotation angle and rapid return stroke for fast operation
- Constant torque output provides accuracy of ±3% across full stroke
- Includes handle and tilt & swivel manifold
- All X-Edition tools are CE-ATEX declared.

Model Number	Socket Size Range *		Square Drive (inch)	Nominal Torque at 690 bar (Nm)
	(inch)	(mm)		
S1500PX	3/4 - 2	19 - 50	3/4	1952
S3000PX	3/4 - 3 7/8	19 - 100	1	4373
S6000PX	1 7/16 - 4 5/8	36 - 115	1 1/2	8338
S11000PX	1 7/16 - 4 5/8	36 - 115	1 1/2	15.151
S25000PX	2 1/16 - 6 1/8	65 - 155	2 1/2	35.455

\* See our BSH-Series heavy-duty sockets at [enerpac.com](http://enerpac.com)



### W-SERIES, LOW-PROFILE HEXAGON WRENCHES

- Superior strength to size ratio provides easy access to difficult to reach applications
- Fast release drive unit enables rapid exchange of cassettes, no tools required
- Constant torque output provides accuracy of ±3% across full stroke
- Includes handle and tilt & swivel manifold
- All X-Edition tools are CE-ATEX declared.

Drive Unit Model Nr.	Hexagon Cassette Range		Nominal Torque at 690 bar (Nm)
	(inch)	(mm)	
W2000PX	1 1/16 - 2 3/8	24 - 60	2766
W4000PX	1 5/16 - 3 3/8	36 - 85	5661
W8000PX	1 7/8 - 4 1/8	50 - 105	11.484
W15000PX	2 1/16 - 4 5/8	65 - 115	20.785
W22000PX	2 15/16 - 5 3/8	75 - 135	30.506
W35000PX	3 1/8 - 6 1/8	80 - 155	47.454

## ULTRASLIM CASSETTES



### W-SERIES, ULTRASLIM BI-HEXAGONAL CASSETTES

- Lean, stepped width design allows tool to be mounted over bolts where other tools won't fit
- Premium components provide best-in-class endurance compared to other limited access tools
- Uses same drive unit as standard cassettes.

UltraSlim Cassette Model Nr.	Hexagon Size		Nominal Torque at 690 bar (Nm)
	(inch)	(mm)	
W2113SL	1 13/16	46	2712
W2203SL	2 3/16	55	2712
W2206SL	2 3/8	60	2712
W4203SL	2 3/16	55	5830
W4206SL	2 3/8	60	5830
W4209SL	2 9/16	65	5830
W4212SL	2 3/4	70	5830
W4215SL	2 15/16	75	5830

## PNEUMATIC TORQUE WRENCHES



### PTW-SERIES, PNEUMATIC TORQUE WRENCHES

- High speed continuous rotation for constant torque output
- Ergonomic, low vibration design reduces fatigue and the risk of vibration related injuries for the operator
- Provided with standard reaction arm; wide assortment of custom arms and accessories are available.

Model Number *	Nominal Torque Output (Nm)	Square Drive (inch)	Speed (RPM)
PTW1000C	1355	1	12,6
PTW2000C	2710	1	8,0
PTW3000C	4067	1	3,1
PTW6000C	8135	1 1/2	2,5

\* (FRL and air hose included). To order without FRL and air hose, remove "C" suffix (example: PTW3000).

## ELECTRIC TORQUE WRENCHES



### ETW-SERIES, ELECTRIC TORQUE WRENCHES

- High speed continuous rotation for constant torque output
- Patented firmware provides accurate fastening on soft or pre-tightened joints
- Control box with 7-inch touchscreen
- Fastening record can be viewed on-screen and transferred through standard USB connection
- Use of ETW requires both wrench and control box. These may be purchased separately, or as a calibrated set.

Set Model Nr. 230V, 50 Hz * (set includes wrench & box)	Nominal Torque Output (Nm)	Square Drive (inch)	Speed (RPM)
ETW1000E	1355	1	12,6
ETW2000E	2710	1	8,0
ETW3000E	4065	1	3,1
ETW6000E	8135	1 1/2	2,5

\* Change "E" behind model number in "B" for 115V, 60Hz or in "I" for 230V, 60Hz.

# Enerpac Professional Bolting Tools

## TORQUE WRENCH PUMPS



### ZU4T-SERIES, ELECTRIC WRENCH PUMPS

- Powerful universal motor draws lower amps for superior performance in remote locations
- Two-speed operation and high by-pass pressure reduces cycle time for improved productivity

### ZA4T-SERIES, AIR DRIVEN WRENCH PUMP

- Two-speed operation and high by-pass pressure reduces cycle time for improved productivity
- Heat exchanger cools oil and warms exhaust air to prevent freezing.

Model Number *	Max. Pressure (bar)	Useable Oil Capacity (litres)	Motor Voltage (VAC)	Air Pressure (bar)
ZU4204BE-QH	700	4,0	230	-
ZU4208BE-QH	700	8,0	230	-
ZA4204TX-Q	700	2,7	-	4,0 - 6,9
ZA4208TX-Q	700	6,6	-	4,0 - 6,9

\* ZU4T: 1,25 kW universal motor, 230 V - 1 phase.  
ZA4T: Air consumption 600 - 2840 l/min.



### TQ-SERIES, ELECTRIC WRENCH PUMPS

- Optimized flow technology delivers up to 50% faster bolting than competing pumps
- Compact and lightweight design fits through tight openings and provides easy handling
- Built-in protection for controls and gauge for job-site durability
- IP55 rating for superior dust and water protection.

Model Number	Max. Pressure (bar)	Useable Oil Capacity (litres)	Motor Voltage (V - Ph - Hz)	Motor Power (kW)
TQ-700B	700	4,0	115 - 1 - 50/60	0,75
TQ-700E	700	4,0	230 - 1 - 50	0,75
TQ-700I	700	4,0	230 - 1 - 60	0,75



### PMU-SERIES, PORTABLE ELECTRIC WRENCH PUMP

- Powerful two-speed pump is lightweight and easy to carry
- Standard heat exchanger package keeps pump cool under extreme use
- 0,37 kW universal motor for a high power-to-weight ratio; generates full pressure on as little as 50% of the rated line voltage.

Model Number	Max. Pressure (bar)	Useable Oil Capacity (litres)	Motor Voltage (V - Ph - Hz)
PMU-10427-Q	700	1,9	115 - 1 - 50/60
PMU-10447-Q	700	3,8	115 - 1 - 50/60
PMU-10422-Q	700	1,9	230 - 1 - 50/60
PMU-10442-Q	700	3,8	230 - 1 - 50/60

## TORQUE WRENCH PUMPS



### ZE-SERIES, ELECTRIC WRENCH PUMP

- Auto-Cycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed
- LCD readout provides pressure and torque display and a number of diagnostic and readout capabilities never before offered on a portable electric pump
- With Heat Exchanger and Roll Cage.

Model Number	Max. Pressure (bar)	Useable Oil Capacity (litres)	Motor Voltage (V - Ph - Hz)
ZE4204TB-QHR	700	4,0	115 - 1 - 50/60
ZE4204TE-QHR	700	4,0	230 - 1 - 50/60
ZE4204TG-QHR	700	4,0	230 - 3 - 50/60
ZE5204TW-QHR	700	4,0	400 - 3 - 50/60

## HYDRAULIC BOLT TENSIONERS & TENSIONING PUMPS



### GT-SERIES, HYDRAULIC BOLT TENSIONERS

- Maximum operating pressure: 1500 bar
- Twin ports for quick connection of multiple tools
- For available adapter kits and additional technical details visit [www.enerpac.com](http://www.enerpac.com)

Load Cell and Bridge Reference	Threaded Fastener Range		Cylinder Effective Area (mm <sup>2</sup> )	Max. Load Capacity (kN)
	(inch)	(mm)		
GT1-LCB	5/8 - 1	M16-M30	1495,4	224,3
GT2-LCB	1 1/8 - 1 1/2	M30-M39	2677,2	401,5
GT3-LCB	1 1/2 - 2	M39-M52	5127,1	768,9
GT4-LCB	2 - 2 1/2	M52-M68	9782,1	1466,9
GT5-LCB	2 1/2 - 3 1/4	M68-M80	15079,7	2261,4
GT6-LCB	3 1/4 - 3 3/4	M80-M95	18972,1	2845,1



### ZUTP-SERIES, ELECTRIC TENSIONER PUMP

- 1,25 kW universal motor draws lower amps for superior performance in remote locations
- Panel mounted 153 mm pressure gauge, with polycarbonate cover for improved visibility and safety

### ATP-SERIES, AIR DRIVEN TENSIONER PUMP

- Compact, lightweight, rugged steel frame for protection and easy handling
- ATEX declared.

Model Number	Max. Pressure (bar)	Useable Oil Capacity (litres)	Motor Voltage (VAC)	Air Pressure (bar)
ZUTP-1500B	1500	4,0	115	-
ZUTP-1500E	1500	4,0	230	-
ATP-1500 *	1500	3,8	-	5,5 - 6,2

\* ATP air consumption 594 l/min.

## FLANGE MAINTENANCE TOOLS



### PARALLEL WEDGE SPREADERS

- Lightweight, portable, easy to use, one person operation
- FSM-8 mechanical version
- FSH-14 hydraulic version also available as set STF-14H including pump, hose and gauge.



### ATM-SERIES, FLANGE ALIGNMENT TOOLS

- 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.



### FS-SERIES, PIN TYPE FLANGE SPREADERS

- Lightweight and ergonomic design
- Adjustable jaw widths from 70 to 216 mm for a wide range of applications
- Available as a complete set including tool, pump, hose, coupler, gauge and adaptor:  
STF-56H set with P-392 hand pump;  
STF-109H set with P-392 hand pump;  
STF-109A set with PATG-1102N Turbo Air hydraulic pump.

Model Number	Max. Spreading Force (kN)	Tip Clearance (mm)	Max. Spread * (mm)	Oil Capacity (cm <sup>3</sup> )
FSM-8	72	6	80	-
FSH-14	125	6	80	78

\* Using optional stepped block FSB-1.

Model Number	Max. Lifting Force (kN)	Minimum Bolt Size		Flange Wall Thickness	
		(inch)	(mm)	(inch)	(mm)
ATM-2	10	.63	16	.55 - 3.29	14 - 82
ATM-4	40	.95	24	1.18 - 5.23	30 - 133
ATM-9 *	90	1.24	31,5	3.66 - 9.00	93 - 228

\* At 700 bar max. pressure. ATM-9 includes Enerpac P-142 hand pump and HC-7206C 1,8 m hydraulic hose.

Model Number	Capacity (kN)	Maximum Flange Thickness (mm)	Stud Size (mm)	Stroke (mm)
FS-56	45	2 x 57	19 - 28	38
FS-109	101	2 x 92	31 - 41	54

## ENERPAC BOLTING SERVICE



### ENERPAC BOLTING SERVICE

- On-site demonstrations of Enerpac bolting tools
- Repair and calibration services
- Training for the safe and efficient use of Enerpac bolting tools

Offering full bolting tool service and maintenance wherever you need it. We provide you with personalized bolting demonstrations and training, and the bolting service vehicle is equipped to perform torque wrench and other equipment calibrations and repairs on site. We can give you advice on the best solutions and the bolting tools that are most suited to your application, thus enabling safe and controlled performance of your bolting activities.

### Bolting Service Demonstration

Use the distributor search at [enerpac.com](http://enerpac.com) to find the nearest Enerpac bolting service van to schedule a demonstration. These distributors display the bolting service icon.



## HYDRAULIC NUT SPLITTERS



### NC-SERIES NUT CUTTERS

- Compact, ergonomic, lightweight design
- Single-acting, spring return
- NC-D models: Two blade design for time saving operations – nuts are split from two sides in one action.

Model Number	Capacity (kN)	Bolt Range (mm)	Hexagon Nut Size (mm)	Oil Capacity (cm <sup>3</sup> )
NC-1319	49	M6 - M12	10 - 19	15
NC-1924	98	M12 - M16	19 - 24	20
NC-2432	147	M16 - M22	24 - 32	60
NC-3241	196	M22 - M27	32 - 41	80
NC-4150	343	M27 - M33	41 - 50	155
NC-5060	490	M33 - M39	50 - 60	240
NC-6075	882	M39 - M48	60 - 75	492
NC-2432D	147	M16 - M22	24 - 32	60
NC-3241D	196	M22 - M27	32 - 41	80



### NS-SERIES NUT SPLITTERS

- Designed to suit ANSI B16.5/BS1560 flanges
- Interchangeable heads for max nut range flexibility
- Tri-blade technology provides three cutting surfaces on a single blade
- Preset scale allows controlled blade extension, which avoids damage to bolt threads
- Single-acting, spring return.

Model Number	Capacity (kN)	Bolt Range (mm)	Hexagon Nut Sizes (mm)	Oil Capacity (cm <sup>3</sup> )
NS-7080	917	M45 - M52	70 - 80	377
NS-7085	917	M45 - M56	70 - 85	377
NS-7095	917	M45 - M64	70 - 95	377
NS-70105	917	M45 - M72	70 - 105	377
NS-110115	1711	M76 - M80	110 - 115	819
NS-110130	1711	M76 - M90	110 - 130	819

# Enerpac Heavy Lifting Technology

## JACK-UP SYSTEMS



### JS-SERIES, JACK-UP SYSTEMS

The jack up system is a custom developed multi-point incremental lifting system – synchronously lift and mechanically hold. A typical system setup includes four jack up units positioned under each corner of a load.

## TELESCOPIC HYDRAULIC GANTRIES



### SL, SBL, MBL-SERIES, HYDRAULIC GANTRIES

Heavy lifting systems that offer control and stability, even in confined spaces. For your most demanding lifting and rigging operations.

## STRAND JACKS



### HSL-SERIES, STRAND JACKS

Compact high capacity system for controlled lifting and lowering. Strand jack systems that provide fully controlled precise lifting.

## SYNCHRONOUS HOISTING



### SHS, SHAS-SERIES, SYNCHOIST – HIGH PRECISION LOAD POSITIONING SYSTEMS

Accurate hoisting and load positioning system to enhance a crane's capability. SHAS-Series, – Wireless remote control and integrated hydraulics.

## SKIDDING SYSTEMS



### HSK, LH-SERIES, SKIDDING SYSTEMS

A system comprised of a series of skid-shoes powered by hydraulic push-pull cylinders, traveling over a pre-constructed track.

## MODULAR TRANSPORTER



### SPMT-SERIES, SELF-PROPELLED MODULAR TRANSPORTER

A trailer with a slim design to transport large and heavy objects. Hydraulic strength in a linear drive transport system.

## CLIMBING JACKS



### BLS-SERIES, CLIMBING JACKS

Double-acting stage lift cylinders with solid plunger design allows for a load to be lifted many times the stroke of the cylinder. The solution for incremental lifting.

## SPLIT FLOW PUMPS



### SFP-SERIES, SPLIT FLOW PUMPS

The split flow pump is an economical solution for multi-point controlled lifting applications. Multiple outlets with equal oil flow.

## SYNCHRONOUS LIFTING SYSTEMS



### EVO-SERIES, SYNCHRONOUS LIFTING SYSTEMS

High-pressure hydraulics combined with PLC-controlled monitoring systems for precise lifting applications. The multi-functional lifting system.

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