HYDRASTARK OFFICIAL ENGINEERING CATALOG (VECTOR PDF)

HYDRAULIC PUMPS & PLC POWER UNITS CATALOG

Two-Speed Hand Pumps, Pneumatic Air Pumps, Industrial Electric Pumps, PLC Sync Systems & UHP Tensioner Pumps

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Pump Oil Volume Sizing Calculator ->

OEM Cross-Reference Matrix ->

FACTORY DIRECT
HANGZHOU, CHINA

- Since 2008 OEM/ODM
- 700 to 4,000 Bar Rated
- ISO 9001 & CE Certified
- 100% Proof-Load Tested

Web: www.hydrastark.com
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INCLUDED PRODUCT SERIES DIRECTORY (17 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HPM-P Series Poly-Reservoir Hand Pumps
02. HPM-S Series All-Steel Heavy Hand Pumps
03. HPA Series Pneumatic Foot/Hand Air Pumps
04. HPE-C Series Compact Electric Hydraulic Pumps
05. HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps
06. HPB Series Brushless Cordless Battery-Powered Hydraulic Pumps
07. HPS-ECO Series PLC Synchronized Lifting Systems
08. HPS-PRO Series Heavy-Duty PLC Synchronized Lifting Systems
09. HPS-F Series Multi-Outlet Split-Flow Synchronized Hydraulic Pumps
10. HPM-UHP Series 1000-4000 Bar UHP Hand Pumps
11. HTP-EX Series Explosion-Proof Electric Pumps
12. HTP-E Series Ultra-High Pressure Electric Bolt Tensioner Pumps
13. HTP-A Series Pneumatic UHP Bolt Tensioner Pumps
14. HTW-P4E Series 4-Tool Compact Electric Torque Pumps
15. HTW-P3S Series High-Flow 3-Stage Electric Torque Pumps
16. HTW-PA Series Air-Driven High-Flow Torque Wrench Pumps
17. HTW-PEX Series Explosion-Proof Torque Wrench Pumps

HPM-P Series Poly-Reservoir Hand Pumps

Lightweight two-speed hydraulic hand pumps rated for 700 Bar (10,000 PSI), engineered with corrosion-resistant composite reservoirs for portable job-site actuation and utility maintenance across 500 to 3,000 cm³ oil capacities.



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MAX WORKING PRESSURE	OIL CAPACITY	OPERATION MECHANISM
700 Bar (10,000 PSI)	500 - 3,000 cm³ (ml)	Two-Speed Automatic High/Low Pressure Shifting

RESERVOIR CONSTRUCTION	PUMP BASE HOUSING	OPERATING HANDLE
Impact & Corrosion-Resistant Glass-Filled Nylon	Nylon-Encapsulated Lightweight Aluminum Alloy	Non-Conductive Dielectric Fiberglass with Bottom Lock

Model	Cylinder Type	Speed / Valve Type	Oil Capacity [cm³]	Pressure Stage		Flow Per Stroke		Handle Force [kg]	Oil Port Thread	Weight [kg]
				1st [bar]	2nd [bar]	1st [cm³]	2nd [cm³]			
HPM-P-142	Single Acting	Two Speed	500	15	700	3.5	2.3	35	1/4"-18 NPT	2.15
HPM-P-392	Single Acting	Two Speed	1000	15	700	11.4	2.3	42	3/8"-18 NPT	4.20
HPM-P-392B	Single Acting	Two Speed	1000	15	700	11.4	2.3	42	3/8"-18 NPT (Dual Port)	4.20
HPM-P-802	Single Acting	Two Speed	3000	15	700	11.4	2.3	42	3/8"-18 NPT	6.50
HPM-P-342	Double Acting	Two Speed (4-Way Valve)	1000	15	700	11.4	2.3	42	3/8"-18 NPT	5.30
HPM-P-842	Double Acting	Two Speed (4-Way Valve)	3000	15	700	11.4	2.3	42	3/8"-18 NPT	7.30

HPM-S Series All-Steel Heavy Hand Pumps

Heavy-duty all-steel two-speed hydraulic hand pumps rated for 700 Bar (10,000 PSI), engineered for industrial lifting, bolting, proof testing, and harsh field rigging across 330 to 7,500 cm³ oil capacities.



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RATED PRESSURE
700 Bar (10,000 PSI)

PUMPING ACTION
Two-Speed Automatic Shifting

OIL CAPACITY
330 - 7,500 cm³ (ml)

BODY & RESERVOIR
Forged Heavy-Gauge All-Steel

VALVE COMPATIBILITY
Single-Acting & 4-Way 3-Position Valve

SAFETY MECHANISM
Factory-Calibrated Internal Relief

Model	Cylinder Type	Speed / Valve Type	Oil Capacity [cm³]	Pressure Stage		Flow Per Stroke		Handle Force [kg]	Dimensions (mm)								Oil Port Thread	Weight [kg]
				1st [bar]	2nd [bar]	1st [cm³]	2nd [cm³]		A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]		
HPM-S-280	Single Acting	Two Speed	330	14	700	7.8	0.8	35	375	290	-	80	110	67	-	143	3/8"-18 NPT	2.2
HPM-S-900A	Single Acting	Two Speed	900	25	700	33.0	3.3	49	585	505.5	47	108	130	82	82	162	3/8"-18 NPT	6.8
HPM-S-2300A	Single Acting	Two Speed	2300	25	700	33.0	3.3	49	585	508	47	125	138	-	82	162	3/8"-18 NPT	10.1
HPM-S-4500	Single Acting	Two Speed	4500	25	700	26.0	2.9	51	580	608	163	275	315	250	-	267	3/8"-18 NPT	22.5
HPM-S-7500	Single Acting	Two Speed	7500	25	700	125.0	5.8	51	800	904	211	275	315	250	-	315	3/8"-18 NPT	30.0
HPM-SD-900A	Double Acting	Two Speed (4-Way Valve)	900	25	700	33.0	3.3	49	642.5	505.5	47	108	130	82	82	162	3/8"-18 NPT	8.8
HPM-SD-2300A	Double Acting	Two Speed (4-Way Valve)	2300	25	700	33.0	3.3	49	642.5	508	47	125	138	-	82	-	3/8"-18 NPT	11.6
HPM-SD-4500	Double Acting	Two Speed (4-Way Valve)	4500	25	700	26.0	2.9	51	580	608	163	275	315	250	-	267	3/8"-18 NPT	23.0
HPM-SD-7500	Double Acting	Two Speed (4-Way Valve)	7500	25	700	125.0	5.8	51	800	904	211	275	315	250	-	315	3/8"-18 NPT	30.5

HPA Series Pneumatic Foot/Hand Air Pumps

Pneumatic-hydraulic air pumps converting shop air (6-10 Bar) into 700 Bar (10,000 PSI) fluid power, engineered with treadle foot or remote pendant control across 1,600 to 4,500 cm³ oil capacities.



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OUTPUT PRESSURE
0 - 700 Bar (0 - 10,000 PSI)

AIR INLET PRESSURE
6 - 10 Bar (85 - 145 PSI)

AIR CONSUMPTION
300 L/min (6 - 10 Bar Air Supply)

OIL CAPACITIES
1,600 / 2,300 / 4,500 cm³ (ml)

CONTROL METHOD
3-Position Treadle Foot Pedal or Handheld Remote

SAFETY OVERLOAD
Factory Pre-Calibrated Internal Relief Valve

Model	Cylinder Action	Output Pressure [Bar]	Air Inlet Pressure [Bar]	Air Consumption [L/min]	Oil Capacity [cm³]	No-Load Flow [L/min]	Loaded Flow [L/min]	Valve Function	Reservoir Material	Control Method	A (Height) [mm]	Pedal Height (B) [mm]	C (Tank H) [mm]	D (Tank L) [mm]	E (Mount L) [mm]	F (Tank W) [mm]	G (Mount W) [mm]	H (Pedal W) [mm]	K (Top Plate W) [mm]	Net Weight [kg]
HPA-001	Single Acting	0 - 700	6 - 10	300	2300	0.80	0.12	2W / 2P	High-Grade Polymer	3-Position Foot Pedal	189	154	109	282	258	143	122	92	179	11.8
HPA-002	Single Acting	0 - 700	6 - 10	300	1600	0.80	0.12	2W / 2P	Die-Cast Aluminum	3-Position Foot Pedal	186	154	109	249	232	121	107	92	136	8.6
HPA-003	Single Acting	0 - 700	6 - 10	300	1600	0.80	0.12	2W / 2P	High-Grade Polymer	3-Position Foot Pedal	188	154	108	320	-	180	-	92	180	7.8
HPA-004	Single Acting	0 - 700	6 - 10	300	4500	0.80	0.12	2W / 2P	Heavy-Duty Welded Steel	3-Position Foot Pedal	189	154	109	282	258	143	122	92	179	16.5
HPA-005	Single Acting	0 - 700	6 - 10	300	1600	0.80	0.12	2W / 2P	Die-Cast Aluminum	Handheld Remote Pendant	186	154	109	249	232	121	107	92	136	12.0

PORTABLE & INDUSTRIAL ELECTRIC PUMPS | OEM CROSS-REFERENCE: ENERPAC PU / PUD SERIES EQUIVALENT

HPE-C Series Compact Electric Hydraulic Pumps

Ultra-portable 0.37 kW two-speed electric hydraulic pumps rated for 700 Bar (10,000 PSI), engineered for punching, crimping, and medium cylinder actuation across 2.0 L oil capacity.



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RATED PRESSURE
700 Bar (10,000 PSI)

MOTOR & DUTY CYCLE
0.37 kW (0.5 hp) Universal Motor, Intermittent Duty

OIL RESERVOIR
2.0 Liters Reservoir Capacity

PUMPING ACTION
Two-Speed Automatic Shifting (3.0 / 0.33 L/min)

VALVE COMPATIBILITY
2/2 Dump, 3/2 Manual, 3/2 Solenoid & 4/3 Manual

PORTS & WEIGHT
3/8"-18 NPTF Main & 1/4"-18 NPTF Gauge Ports | 13.0 - 14.5 kg

Model	Voltage	Power [kW]	1st Stage Pressure [Bar]	2nd Stage Pressure [Bar]	1st Stage Flow [L/min]	2nd Stage Flow [L/min]	Valve Configuration	Pump Type	Dim A [mm]	Dim B [mm]	Dim C [mm]	Dim D [mm]	Dim E [mm]	Dim F [mm]	Dim J [mm]	Weight [kg]
HPE-C-1100	220/110VAC	0.37	13	700	3.0	0.33	Auto Dump Valve	Single Acting (Punch/Crimp)	251	251	405	120	162	203	133	14.5
HPE-C-1200	220/110VAC	0.37	13	700	3.0	0.33	3/2 Manual Valve	Single Acting (Adv-Hold-Ret)	251	251	405	120	162	203	133	13.0
HPE-C-1300	220/110VAC	0.37	13	700	3.0	0.33	3/2 Solenoid Valve	Single Acting (Adv-Hold-Ret)	251	251	405	120	162	203	133	14.5
HPE-C-1400	220/110VAC	0.37	13	700	3.0	0.33	4/3 Manual Valve	Double Acting (Adv-Hold-Ret)	251	251	405	120	162	203	133	14.0

HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps

Continuous-duty industrial electric hydraulic pumps rated for 700 Bar (10,000 PSI), powered by 0.75-5.55 kW TEFC motors for multi-cylinder jacking and heavy pressing across 5.0 to 40.0 L oil capacities.



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RATED PRESSURE	MOTOR POWER	RESERVOIR CAPACITY
700 Bar (10,000 PSI)	0.75 - 5.55 kW (1.0 - 7.5 hp) TEFC, IP55	5.0 - 40.0 Liters Steel
FLOW STAGES	**VALVE OPTIONS**	**SAFETY MECHANISM**
Single-Stage or Two-Stage @ 50 Hz	VD22, VM32, VM33, VM33L, VM43 & VM43L	70 - 700 Bar User-Adjustable Relief

Model Group	Motor Power [kW]	Circuit Stage	Flow @ 7 Bar (50 Hz) [L/min]	Flow @ 50 Bar (50 Hz) [L/min]	Flow @ 350 Bar (50 Hz) [L/min]	Flow @ 700 Bar (50 Hz) [L/min]	Available Reservoirs	Relief Valve Range [Bar]
HPE-3	0.75	Single-stage	0.59	0.59	0.57	0.55	5.0 / 8.0 / 10.0 / 20.0 / 40.0	70 - 700
HPE-3	0.75	Two-stage	6.15	5.26	0.57	0.55	5.0 / 8.0 / 10.0 / 20.0 / 40.0	70 - 700
HPE-4	1.12	Single-stage	0.87	0.87	0.84	0.82	5.0 / 8.0 / 10.0 / 20.0 / 40.0	70 - 700
HPE-4	1.12	Two-stage	8.88	8.20	0.84	0.82	5.0 / 8.0 / 10.0 / 20.0 / 40.0	70 - 700
HPE-5	2.25	Single-stage	1.75	1.72	1.68	1.64	10.0 / 20.0 / 40.0	70 - 700
HPE-5	2.25	Two-stage	11.61	11.27	1.68	1.64	10.0 / 20.0 / 40.0	70 - 700
HPE-6	5.55	Single-stage	3.00	2.94	2.86	2.73	10.0 / 20.0 / 40.0	70 - 700
HPE-6	5.55	Two-stage	12.29	12.15	2.86	2.73	10.0 / 20.0 / 40.0	70 - 700

HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps - Reservoir Dimensions (5L - 40L)

Reservoir Capacity [L]	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	Dim. E1 [mm]	Overall Height (H) [mm]
5	457	143	279	52	-	-	513
8	457	143	279	206	-	-	513
10	533	158	419	305	384	371	600
20	558	180	419	422	501	488	625
40	648	270	399	505	576	572	715

Engineering Note: All dimensions in mm. Pump with 5L/8L reservoir and optional roll cage measures 635 x 319 x 640 mm. Main A and B ports: 3/8" NPT; auxiliary ports: 1/4" NPTF.

HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps - Model Numbering & Valve / Motor Voltage Matrix

Selection Group	Option Code	Technical Specification & Function
Directional Valve	VD22 (VE32D)	2/2 or 3/2 Auto-Dump Valve for single-acting punching, crimping & spring-return tools
Directional Valve	VM32	3-Way, 2-Position Manual Valve for single-acting cylinders (Advance / Retract)
Directional Valve	VM33 (or Solenoid VE33)	3-Way, 3-Position Manual / Electric Valve for single-acting cylinders (Advance / Hold / Retract)
Directional Valve	VM33L	3-Way, 3-Position Manual Locking Valve with pilot-operated check for positive load holding

HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps - Model Numbering & Valve / Motor Voltage Matrix (Continued) | Click any row to open online interactive datasheet & quote

Selection Group	Option Code	Technical Specification & Function
Directional Valve	VM43 (or Solenoid VE43)	4-Way, 3-Position Manual / Electric Valve for double-acting cylinders (Advance / Hold / Retract)
Directional Valve	VM43L	4-Way, 3-Position Manual Locking Valve with pilot-operated check for double-acting load holding
Motor Voltage	B	115V, 1-Phase, 50-60 Hz (HPE-3 & HPE-4 only)
Motor Voltage	I (E)	208-240V, 1-Phase, 50-60 Hz (HPE-3 & HPE-4 only)
Motor Voltage	G	208-240V, 3-Phase, 50-60 Hz
Motor Voltage	W	380-415V, 3-Phase, 50-60 Hz
Motor Voltage	J	460-480V, 3-Phase, 50-60 Hz

Engineering Note: Single-phase motors (codes B and I) are not available on HPE-5 and HPE-6 flow groups. Main A and B working ports: 3/8" NPT; auxiliary gauge/return ports: 1/4" NPTF.

HPB Series Brushless Cordless Battery-Powered Hydraulic Pumps

Cordless brushless DC servo hydraulic pumps rated for 700 Bar (10,000 PSI), powered by 26 Ah lithium batteries for untethered field jacking and maintenance across 7.0 to 20.0 L oil capacities.



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MOTOR POWER **0.75 kW Brushless DC Servo Motor**	BATTERY MODULE **26 Ah High-Capacity Lithium-Ion with Charger**	MAX PRESSURE **700 Bar (10,000 PSI)**
PRESSURE REGULATION **70 - 700 Bar Target-Locking Valve**	NOISE LEVEL **< 75 dB Ultra-Quiet Operation**	FLOW RATE @ 50 HZ **4.80 L/min (7 Bar) / 0.45 L/min (700 Bar)**

Model	Cylinder Compatibility	Motor Power [kW]	Reservoir Size [L]	Flow @ 7 Bar [L/min]	Flow @ 700 Bar [L/min]	Relief Range [Bar]	Weight [kg]
HPB-07-VM33	Single Acting (3/3 Manual Valve)	0.75	7.0	4.8	0.45	70 - 700	26
HPB-07-VM43	Double Acting (4/3 Manual Valve)	0.75	7.0	4.8	0.45	70 - 700	26
HPB-20-VM33	Single Acting (3/3 Manual Valve)	0.75	20.0	4.8	0.45	70 - 700	38
HPB-20-VM43	Double Acting (4/3 Manual Valve)	0.75	20.0	4.8	0.45	70 - 700	38

SYNCHRONOUS LIFTING SYSTEMS | OEM CROSS-REFERENCE: ENERPAC EVO-LITE SERIES EQUIVALENT

HPS-ECO Series PLC Synchronized Lifting Systems

Compact economical PLC closed-loop synchronized hydraulic lifting systems rated for 700 Bar (10,000 PSI), engineered for multi-point synchronous advance and retract positioning across 4 to 8 points with <= 0.5 mm accuracy.



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MAX WORKING PRESSURE	SYNCHRONOUS ACCURACY	SYNCHRONIZED CHANNELS
700 BAR (10,000 PSI)	<= 0.5 MM DYNAMIC ELEVATION ACCURACY	4 OR 8 INDEPENDENT POINTS (ADVANCE / RETRACT)
RESERVOIR CAPACITY	**RATED PUMP FLOW**	**MOBILITY & CONTROL**
60 - 100 LITERS HEAVY WELDED STEEL RESERVOIR	0.8 - 1.5 L/min Rated High-Pressure Pump Flow	LARGE TOUCHSCREEN PLC & LOCKABLE SWIVEL WHEELS

Model Number	Pump Head	Sync Points	Synchronized Way	Oil Capacity	Weight [Kg]
HPS-ECO44L060	HPE-4	4	Advance / Return	60	160
HPS-ECO48L100	HPE-4	8	Advance / Return	100	220
HPS-ECO54L060	HPE-5	4	Advance / Return	60	170
HPS-ECO58L100	HPE-5	8	Advance / Return	100	230
HPS-ECO64L060	HPE-6	4	Advance / Return	60	175
HPS-ECO68L100	HPE-6	8	Advance / Return	100	235

SYNCHRONOUS LIFTING SYSTEMS | OEM CROSS-REFERENCE: ENERPAC EVO SERIES EQUIVALENT

HPS-PRO Series Heavy-Duty PLC Synchronized Lifting Systems

Heavy-duty PLC closed-loop synchronized hydraulic lifting systems rated for 700 Bar (10,000 PSI), engineered with VFD speed control and 50-1,000 mm displacement sensors for 4 to 16 points at <= 0.5 mm accuracy.



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MAX WORKING PRESSURE	SYNCHRONOUS ACCURACY	CLOSED-LOOP CHANNELS
700 BAR (10,000 PSI)	<= 0.5 MM DYNAMIC POSITIONING PRECISION	4, 8, OR 16 INDEPENDENT SYNCHRONIZED POINTS
RESERVOIR CAPACITY	**RATED PUMP FLOW**	**CONTROL & SAFETY**
100 - 300 LITERS HEAVY WELDED STEEL TANK	0.8 - 3.0 L/min Rated High-Pressure Pump Flow	PLC CLOSED-LOOP, VFD DRIVE, TOUCHSCREEN & HYDRAULIC LOCKS

Model Number	Pump Head	Sync Points	Synchronized Way	Oil Capacity	Weight [Kg]
HPS-PRO54H100	HPE-5	4	Advance / Return	100	300
HPS-PRO58H200	HPE-5	8	Advance / Return	200	450
HPS-PRO64H100	HPE-6	4	Advance / Return	100	320
HPS-PRO68H200	HPE-6	8	Advance / Return	200	470
HPS-PRO74H100	HPE-7	4	Advance / Return	100	340
HPS-PRO78H200	HPE-7	8	Advance / Return	200	500
HPS-PRO7716H300	HPE-7 * 2	16	Advance / Return	300	650

HPS-F Series Multi-Outlet Split-Flow Synchronized Hydraulic Pumps

Multi-outlet split-flow synchronized hydraulic pumps rated for 700 Bar (10,000 PSI), engineered for ±4% mechanical equal-flow lifting, lowering, and structural positioning across 2 to 8 outlets and 10 to 150 L reservoirs.



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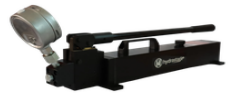
SPLIT-FLOW OUTLETS	SYNCHRONOUS ACCURACY	RATED WORKING PRESSURE
2, 4, 6 and 8 Independent Circuits	<= ±4% Mechanical Equal Flow Division	700 Bar (10,000 PSI) w/ HQC-201A Couplers
CIRCUIT FLOW & LOWERING	**ELECTRIC MOTOR OPTIONS**	**USABLE / TANK CAPACITY**
0.27 - 2.10 L/min + Per-Circuit Return Throttle	0.75 - 15.0 kW 3-Phase (W: 380-415V, J: 460-480V, G: 208-240V)	10, 40 & 135 L Usable (10, 40 & 150 L Steel Tanks)

Model	Outlets	Usable Oil Cap.	Flow/Outlet [L/min]	Valve Operation	Motor Power [kW]	Dimensions (H x W x L) [mm]	Weight [kg]
HPS-F-202-MW	2	10	0.27	Manual 4/3 Joystick	0.75	748 x 450 x 700	115
HPS-F-403-MW	4	40	0.30	Manual 4/3 Joystick	2.20	1016 x 640 x 970	257
HPS-F-403-SW	4	40	0.30	24V Solenoid Pendant	2.20	1016 x 640 x 970	257
HPS-F-409-MW	4	135	0.90	Manual 4/3 Joystick	5.50	1356 x 605 x 1160	475
HPS-F-409-SW	4	135	0.90	24V Solenoid Pendant	5.50	1356 x 605 x 1160	475
HPS-F-414-MW	4	135	1.40	Manual 4/3 Joystick	7.50	1356 x 605 x 1160	490
HPS-F-414-SW	4	135	1.40	24V Solenoid Pendant	7.50	1356 x 605 x 1160	490
HPS-F-421-MW	4	135	2.10	Manual 4/3 Joystick	10.00	1356 x 605 x 1160	596
HPS-F-421-SW	4	135	2.10	24V Solenoid Pendant	10.00	1356 x 605 x 1160	596
HPS-F-613-SW	6	135	1.30	24V Solenoid Pendant	10.00	1356 x 805 x 1200	562
HPS-F-803-SW	8	40	0.30	24V Solenoid Pendant	4.00	1163 x 830 x 1113	450
HPS-F-813-SW	8	135	1.30	24V Solenoid Pendant	15.00	1356 x 805 x 1200	620

ULTRA-HIGH PRESSURE TENSIONER PUMPS | OEM CROSS-REFERENCE: ENERPAC UHP HAND PUMPS EQUIVALENT

HPM-UHP Series 1000-4000 Bar UHP Hand Pumps

Two-speed ultra-high pressure manual hydraulic hand pumps rated for 1,000 to 4,000 Bar (14,500 to 58,000 PSI), engineered for bolt tensioning, shaft oil-injection disassembly, and hydraulic expansion sleeves across 1.6 to 2.2 L reservoirs.



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RATED PRESSURE
1,000 - 4,000 Bar (14,500 - 58,000 PSI)

PUMPING ACTION
Two-Speed Manual with Internal Automatic Shift Valve

RESERVOIR CAPACITY
1,600 cm³ Standard (2,200 cm³ Extended Optional)

1ST STAGE DISPLACEMENT
32.0 cm³ / stroke (18 Bar Fast Pre-Filling)

2ND STAGE DISPLACEMENT
0.6 - 2.1 cm³ / stroke (High-Pressure Metering)

PORT & GAUGES
BSP 1/4" Outlet with Pressure Gauge Assembly

Model Number	Speed Type	Oil Capacity [cm³]	Pressure Rating (Bar)		Displacement / Stroke (cm³)		Max Handle Effort [Kg]	Port Thread	Weight [Kg]
			1st Stage [Bar]	2nd Stage [Bar]	1st Stage [cm³]	2nd Stage [cm³]			
HPM-UHP-1500	2-Speed	1600	18	1000	32.0	2.1	20	1/4" BSP	10.8
HPM-UHP-2000	2-Speed	1600	18	1500	32.0	1.2	20	1/4" BSP	10.8
HPM-UHP-3000	2-Speed	1600	18	2100	32.0	1.2	20	1/4" BSP	10.8
HPM-UHP-4000	2-Speed	1600	18	2800	32.0	0.8	20	1/4" BSP	10.8
HPM-UHP-5000	2-Speed	1600	18	3500	32.0	0.6	35	1/4" BSP	10.8
HPM-UHP-6000	2-Speed	1600	18	4000	32.0	0.6	39	1/4" BSP	10.8

ULTRA-HIGH PRESSURE TENSIONER PUMPS | OEM CROSS-REFERENCE: ENERPAC EX-PROOF PUMPS EQUIVALENT

HTP-EX Series Explosion-Proof Electric Pumps

Two-stage explosion-proof electric bolt tensioner pump rated for 700 to 1800 Bar (Ex d IIB T4, IP55), engineered for ultra-high pressure bolting across Zone 1 and Zone 2 offshore oil, gas, and petrochemical facilities.



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EXPLOSION-PROOF RATING **Ex d IIB T4 Flameproof / IP55 Protection**	OPERATING PRESSURE **700 - 1800 Bar (10,150 - 26,100 PSI) Adjustable**	MOTOR SPECIFICATION **0.75 kW Flameproof Three-Phase Motor (380V / 220V)**
TWO-STAGE FLOW RATE **Stage 1: 2.7 L/min (Rapid) | Stage 2: 0.4 L/min (UHP)**	RESERVOIR & DIMENSIONS **5.0 L Industrial Oil Reservoir | 468 × 442 × 604.5 mm**	NET OPERATING WEIGHT **37.0 kg Compact Protective Frame Construction**

Model	Max. Pressure [Bar]	Voltage	Flow Rate Output		Oil Capacity	Motor [kW]	Weight [kg]
			Stage 1 [L/min]	Stage 2 [L/min]			
HTP-EX-2000FBP	1800	380 / 220	2.7	0.4	5.0	0.75	37

ULTRA-HIGH PRESSURE TENSIONER PUMPS | OEM CROSS-REFERENCE: ENERPAC ZUTP SERIES EQUIVALENT

HTP-E Series Ultra-High Pressure Electric Bolt Tensioner Pumps

Ultra-high pressure electric tensioner pumps delivering 1500 to 2500 Bar (150-250 MPa) direct-piston output without external boosters. Engineered with 0.8 kW brushless motors, ±1.5% precision relief calibration, and 5.0 L lightweight aluminum reservoirs for high-torque critical bolting.



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RATED PRESSURE	PUMP MECHANISM	MOTOR & REMOTE
1500 - 2500 BAR BOOSTER-FREE	Booster-Free Double-Stage Piston Design	0.8 kW Brushless Motor (220V) w/ Aluminum Remote Handle
NO-LOAD ADVANCE FLOW	**HIGH-PRESSURE FLOW**	**PRESSURE ACCURACY**
1.50 L/min Rapid Tensioner Stroke Extension	0.15 L/min (1500 Bar) / 0.12 (2000 Bar) / 0.10 L/min (2500 Bar)	±1.5% High-Precision Adjustable Relief Valve

Model	Max Pressure [Bar]	Flow @ No Load [L/min]	Rated Flow [L/min]	Oil Capacity	Oil Port Thread	Quick Coupling	Weight [kg]
HTP-E-1500	1500	1.5	0.15	5	G1/4	CEJN: 116	21
HTP-E-2000	2000	1.5	0.12	5	G1/4	CEJN: 125	21
HTP-E-2500	2500	1.5	0.10	5	G1/4	CEJN: 125	25

ULTRA-HIGH PRESSURE TENSIONER PUMPS | OEM CROSS-REFERENCE: ENERPAC ATP SERIES EQUIVALENT

HTP-A Series Pneumatic UHP Bolt Tensioner Pumps

Air-driven ultra-high pressure hydraulic bolt tensioner pumps rated for 1500 to 2500 Bar (21,750 to 36,250 PSI), engineered for spark-free flange bolting and hydraulic pulling across 4 to 8 L reservoirs.



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MAX WORKING PRESSURE	DRIVE SOURCE	HYDRAULIC FLOW RATE
1500 to 2500 Bar (150 - 250 MPa)	6 - 10 Bar Compressed Air (Spark-Free Pneumatic)	0.10 - 0.40 L/min (Continuous High-Pressure)
OIL RESERVOIR	**HYDRAULIC OUTLET PORT**	**ENCLOSURE & MOBILITY**
4, 5, and 8 Liters Heavy-Gauge Reservoir	G-1/4" with High-Pressure Quick Coupler	Steel Frame w/ Dual Gauges & Air Filter-Regulator | 16-24 kg

Model Number	Max Pressure [Bar]	Required Air Input [Bar]	High-Pressure Flow Rate [L/min]	Dimensions (L×W×H) [mm]	Oil Capacity	Outlet Port Size	Weight [Kg]
HTP-A-1500	1500	6 - 10	0.4	600 × 460 × 500	4	G 1/4"	16
HTP-A-2100	2100	6 - 10	0.2	600 × 460 × 500	5	G 1/4"	24
HTP-A-3000	2500	6 - 10	0.1	600 × 460 × 500	8	G 1/4"	24

HTW-P4E Series 4-Tool Compact Electric Torque Pumps

Two-stage compact electric hydraulic torque wrench pump rated for 700 Bar (10,000 PSI), powered by a 1.1 kW brushless motor (75 dB) to drive 2, 3, or 4 torque wrenches across wind turbine and petrochemical applications.



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RATED PRESSURE
700 Bar (10,000 PSI) with Internal Relief Valve

MOTOR SPECIFICATION
1.1 kW High-Efficiency Brushless Motor (220V, 50/60 Hz)

NOISE RATING
75 dB Low Operating Noise Level

TWO-STAGE FLOW
Stage 1: 7.0 L/min (Rapid) | Stage 2: 0.8 L/min (High Pressure)

MANIFOLD CONFIGURATION
1 to 4 Outlet Ports (Order Suffix -2, -3, -4)

RESERVOIR & WEIGHT
5.0 L Oil Reservoir with Protective Frame, 22.0 kg

Model	Rated Pressure [Bar]	Voltage	Flow Rate Output		Oil Capacity	Power [kW]	Weight [kg]
			Stage 1 [L/min]	Stage 2 [L/min]			
HTW-P4E-2	700	220	7	0.8	5	1.1	22

Engineering Note: Pump can be configured with 1 to 4 outlet ports; append port suffix (-2, -3, -4) to model code when ordering (e.g., HTW-P4E-4 drives 4 torque wrenches simultaneously).

TORQUE WRENCH DEDICATED PUMPS | OEM CROSS-REFERENCE: ENERPAC 3-STAGE PUMPS EQUIVALENT

HTW-P3S Series High-Flow 3-Stage Electric Torque Pumps

Three-stage high-flow electric hydraulic torque wrench pump rated for 700 Bar (10,000 PSI), engineered for high-cycle multi-point bolting, wind turbine nacelle assembly, and petrochemical piping turnaround.



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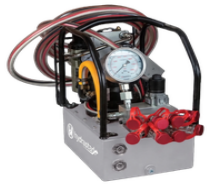
OPERATING PRESSURE	**40 - 700 Bar (10,000 PSI) Continuously Adjustable**
MOTOR SPECIFICATION	**1.1 kW Motor (220V, 50/60 Hz; Custom Voltages Available)**
THREE-STAGE FLOW	**7.0 L/min (Stage 1) | 1.6 L/min (Stage 2) | 0.8 L/min (Stage 3)**
VALVE & DRIVE CAPACITY	**HAWE Solenoid Valve, Synchronously Drives 2 or 4 Wrenches**
COOLING & RESERVOIR	**Integrated Oil Cooler Fan with 8.0 L Aluminum Alloy Tank**
NET OPERATING WEIGHT	**26.5 kg Compact Lightweight Construction**

Model	Pressure Output [Bar]	Voltage	Flow Rate Output			Oil Capacity	Power [kW]	Weight [kg]
			Stage 1 [L/min]	Stage 2 [L/min]	Stage 3 [L/min]			
HTW-P3S-200	40-700	220	7	1.6	0.8	8	1.1	26.5

TORQUE WRENCH DEDICATED PUMPS | OEM CROSS-REFERENCE: ENERPAC ZA4T SERIES EQUIVALENT

HTW-PA Series Air-Driven High-Flow Torque Wrench Pumps

Air-driven three-stage hydraulic torque wrench pumps rated for 40 to 700 Bar (10,000 PSI), powered by a 1.1 kW air motor (4-8 Bar supply) with solenoid valve control, 8.0 L reservoir, and 20 kg compact frame.



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RATED OPERATING PRESSURE	AIR MOTOR DRIVE	THREE-STAGE DISPLACEMENT
40 - 700 BAR (580 - 10,000 PSI)	1.1 KW AIR MOTOR (3,000 RPM @ 4-8 BAR, 1.9 M³/MIN)	7.0 / 1.6 / 0.8 L/MIN
RESERVOIR & WEIGHT	**VALVE & CONNECTION**	**EXHAUST ARCHITECTURE**
8.0 LITERS OIL RESERVOIR (20 KG WEIGHT)	SOLENOID VALVE CONTROL & TWIN-HOSE NPT 1/4" PORTS	EXTREME-ENVIRONMENT AIR OUTPORT & OIL/MIST SEGREGATION

Model	Pressure Output [Bar]	Air Input [Bar]	Air Consump. [m³/min]	Valve	Air Motor [kW]	Flow Rate Output			Oil Capacity	Out / Return Ports	Weight [kg]
						Stage 1 [L/min]	Stage 2 [L/min]	Stage 3 [L/min]			
HTW-PA-200Q	40-700	4-8	1.9	Solenoid	1.1 (3000 RPM)	7.0	1.6	0.8	8.0	1/4" NPT	20

TORQUE WRENCH DEDICATED PUMPS | OEM CROSS-REFERENCE: ENERPAC EX-PROOF TORQUE PUMPS EQUIVALENT

HTW-PEX Series Explosion-Proof Torque Wrench Pumps

Explosion-proof electric hydraulic torque wrench pumps rated for 700 Bar (10,000 PSI), powered by a 1.5 kW Ex-rated motor with a 10 L wheeled reservoir delivering 8.0 / 0.8 L/min dual-stage flow for 2 or 4 synchronized wrenches.



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MAX WORKING PRESSURE	EXPLOSION-PROOF MOTOR	TWO-STAGE FLOW RATE
700 Bar (10,000 PSI) Adjustable	1.5 kW Ex Motor (380V Std; Custom Voltages Available)	8.0 L/min (1st Stage) / 0.8 L/min (2nd Stage)
OIL TANK & WEIGHT	**MULTI-TOOL DRIVE**	**COOLING & CONTROL**
10.0 Liters Aluminum Alloy Tank with Wheels (40 kg)	Twin-Hose Drive for 2 or 4 Wrenches (Optional 4-Tool Block)	Integrated Oil Cooler Fan & 6m Remote Pendant

Model	Pressure Output [Bar]	Voltage	Motor Power [kW]	Flow Rate Output		Oil Capacity	Weight [kg]
				Stage 1 [L/min]	Stage 2 (700 Bar) [L/min]		
HTW-PEX-200FBP	700	380	1.5	8.0	0.8	10.0	40.0