2026 MASTER PRODUCT CATALOG & OEM CROSS-REFERENCE

HYDRASTARK 700-4000 BAR HYDRAULIC TOOLS & BOLTING SYSTEMS

Complete 82-Series Specification Overview: Cylinders, Pumps, Torque Wrenches, 1500 Bar Tensioners, Pullers & Flange Tools

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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OEM Cross-Reference Matrix ->

INCLUDED PRODUCT SERIES DIRECTORY (45 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HSC Series Single-Acting General Purpose Cylinders
02. HSCU Series Ultra-Thin 1500 Bar Cylinders
03. HSCF Series Super-Flat Jack Cylinders
04. HSCL Series Low-Height Cylinders
05. HSCT Series Multi-Stage Telescopic Cylinders
06. HSCH Series Single-Acting Hollow Plunger Cylinders
07. HDCH Series Double-Acting Hollow Plunger Cylinders
08. HDC Series Double-Acting General Purpose Cylinders
09. HSC-LN Series Single-Acting Lock Nut Cylinders
10. HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders
11. HDC-LN Series Double-Acting Lock Nut Cylinders
12. HSC-LP Series Low-Height Pancake Lock-Nut Cylinders
13. HSCX Series Single-Acting High-Tonnage Cylinders
14. HSCP Series Single-Acting Hydraulic Pull Cylinders
15. HDCX Series Double-Acting High-Tonnage Cylinders
16. HSCA Series Lightweight Aluminum Single-Acting Cylinders
17. HDCA Series Lightweight Aluminum Double-Acting Cylinders
18. HSCHA Series Lightweight Aluminum Hollow Cylinders
19. HDCHA Series Lightweight Aluminum Double-Acting Hollow Cylinders
20. HSC-LNA Series Lightweight Aluminum Lock-Nut Cylinders
21. HPM-P Series Poly-Reservoir Hand Pumps
22. HPM-S Series All-Steel Heavy Hand Pumps
23. HPA Series Pneumatic Foot/Hand Air Pumps
24. HPE-C Series Compact Electric Hydraulic Pumps
25. HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps
26. HPB Series Brushless Cordless Battery-Powered Hydraulic Pumps
27. HPS-ECO Series PLC Synchronized Lifting Systems
28. HPS-PRO Series Heavy-Duty PLC Synchronized Lifting Systems
29. HPS-F Series Multi-Outlet Split-Flow Synchronized Hydraulic Pumps
30. HPM-UHP Series 1000-4000 Bar UHP Hand Pumps
31. HTP-EX Series Explosion-Proof Electric Pumps
32. HTP-E Series Ultra-High Pressure Electric Bolt Tensioner Pumps
33. HTP-A Series Pneumatic UHP Bolt Tensioner Pumps
34. HTW-P4E Series 4-Tool Compact Electric Torque Pumps
35. HTW-P3S Series High-Flow 3-Stage Electric Torque Pumps
36. HTW-PA Series Air-Driven High-Flow Torque Wrench Pumps
37. HTW-PEX Series Explosion-Proof Torque Wrench Pumps
38. HS-SKT Series Heavy-Duty Impact Sockets
39. HSW Series Square Drive Hydraulic Torque Wrenches
40. HS-RED Series Hexagon Cassette Reducer Bushings
41. HHW Series Low-Profile Hollow Torque Wrenches
42. HHW-S Series Slim-Profile Low Clearance Wrenches
43. HHW-R Series Ring & Open-End Spanner Wrenches
44. HST-S Series Single-Stage Topside Bolt Tensioners
45. HST-M Series Multi-Stage Compact Bolt Tensioners

SECTION 01: 700 BAR HYDRAULIC CYLINDERS & JACKS CATALOG

Single-Acting, Double-Acting, Hollow Plunger, Mechanical Lock-Nut, Low-Height & Aluminum Cylinders

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HSC Series Single-Acting General Purpose Cylinders	Enerpac RC Series	RATED CAPACITY: 5 - 100 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hsc-series-s-a-general-purpose- cylind..
HSCU Series Ultra-Thin 1500 Bar Cylinders	Enerpac 1500 Bar UHP Cylinders	RATED CAPACITY: 56 - 207 Metric Tons | OPERATING PRESSURE: 1500 Bar (20,000 PSI)	/product/hscu-series-ultra-thin-1500-bar- cylind..
HSCF Series Super-Flat Jack Cylinders	Enerpac RSM Series	RATED CAPACITY: 5 - 150 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hscf-series-super-flat-jack-cylinders
HSCL Series Low-Height Cylinders	Enerpac RCS Series	RATED CAPACITY: 10 - 100 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hscl-series-low-height-cylinders
HSCT Series Multi-Stage Telescopic Cylinders	Enerpac RLS Series	RATED CAPACITY: 10 - 50 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hsct-series-multi-stage-telescopic- cyl..
HSCH Series Single-Acting Hollow Plunger Cylinders	Enerpac RCH Series	RATED CAPACITY: 13 - 100 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hsch-series-s-a-hollow-plunger- cylind..
HDCH Series Double-Acting Hollow Plunger Cylinders	Enerpac RRH Series	RATED CAPACITY: 30 - 150 METRIC TONS | STROKE RANGE: 38 - 258 MM (1.5 - 10.15 IN)	/product/hdch-series-d-a-hollow-plunger- cylin..
HDC Series Double-Acting General Purpose Cylinders	Enerpac RR Series	RATED CAPACITY: 10 - 300 METRIC TONS | STROKE RANGE: 57 - 511 MM (2.24 - 20.12 IN)	/product/hdc-series-d-a-general-purpose- cylin..
HSC-LN Series Single-Acting Lock Nut Cylinders	Enerpac CLL Series	CAPACITY RANGE: 50 - 1000 Metric Ton | STROKE RANGE: 50 - 300 mm	/product/hsc-ln-series-lock-nut-mechanical- cyl..
HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders	Enerpac HCL Series	RATED CAPACITY: 50 - 1,000 Metric Tons | STROKE RANGE: 50 - 300 mm (1.97 - 11.81 in)	/product/hsc-lnh-series-high-tonnage-lock-nut- ..
HDC-LN Series Double-Acting Lock Nut Cylinders	Enerpac HCRL / LPL	RATED CAPACITY: 50 - 300 Metric Tons | STROKE RANGE: 150 - 300 mm	/product/hdc-ln-series-d-a-lock-nut-cylinders
HSC-LP Series Low-Height Pancake Lock-Nut Cylinders	Enerpac CLP Series	RATED CAPACITY: 60 - 520 METRIC TONS | STROKE RANGE: 45 - 50 MM (1.77 - 1.97 IN)	/product/hsc-lp-series-low-height-pancake-lock..
HSCX Series Single-Acting High-Tonnage Cylinders	Enerpac HCG Series	RATED CAPACITY: 50 - 1000 METRIC TONS | STROKE RANGE: 50 - 300 MM (1.97 - 11.81 IN)	/product/hscx-series-s-a-high-tonnage-cylinders
HSCP Series Single-Acting Hydraulic Pull Cylinders	Enerpac BRP Series	RATED TENSILE CAPACITY: 2.5 - 50 METRIC TONS | STROKE RANGE: 127 - 154 MM (5.0 - 6.06 IN)	/product/hscp-series-hydraulic-pull-cylinders
HDCX Series Double-Acting High-Tonnage Cylinders	Enerpac HCRG Series	RATED CAPACITY: 50 - 1,000 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hdcx-series-d-a-high-tonnage-cylinders
HSCA Series Lightweight Aluminum Single-Acting Cylinders	Enerpac RAC Series	CAPACITY RANGE: 20 - 150 Metric Tons | STROKE RANGE: 50 - 250 mm	/product/hsca-series-lightweight-aluminum-s-a-
HDCA Series Lightweight Aluminum Double-Acting Cylinders	Enerpac RAR Series	CAPACITY RANGE: 20 - 150 Metric Ton (Advance) / 13 - 94 Metric Ton (Retract) | STROKE RANGE: 50 - 250 mm	/product/hdca-series-lightweight-aluminum-d-a-
HSCHA Series Lightweight Aluminum Hollow Cylinders	Enerpac RACH Series	CAPACITY RANGE: 20 - 150 Metric Tons | STROKE RANGE: 50 - 250 mm	/product/hscha-series-lightweight-aluminum- h..
HDCHA Series Lightweight Aluminum Double-Acting Hollow Cylinders	Enerpac RARH Series	CAPACITY RANGE: 30 - 150 Metric Ton (Advance) / 19 - 76 Metric Ton (Retract) | CENTER HOLE DIAMETER: 34 - 79 mm Hollow Core	/product/hdcha-series-lightweight-aluminum-d- ..
HSC-LNA Series Lightweight Aluminum Lock-Nut Cylinders	Enerpac RACL Series	CAPACITY RANGE: 20 - 150 Metric Tons | STROKE RANGE: 50 - 250 mm	/product/hsc-lna-series-lightweight-aluminum- l..

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HPM-P Series Poly-Reservoir Hand Pumps	Enerpac P-392 / P-142	MAX WORKING PRESSURE: 700 Bar (10,000 PSI) | OIL CAPACITY: 500 - 3,000 cm^3 (ml)	/product/hpm-p-series-poly-reservoir-hand- pu..
HPM-S Series All-Steel Heavy Hand Pumps	Enerpac P-80 / P-84	RATED PRESSURE: 700 Bar (10,000 PSI) | PUMPING ACTION: Two-Speed Automatic Shifting	/product/hpm-s-series-all-steel-heavy-hand- pu..
HPA Series Pneumatic Foot/Hand Air Pumps	Enerpac PA-133 / PA-1150	OUTPUT PRESSURE: 0 - 700 Bar (0 - 10,000 PSI) | AIR INLET PRESSURE: 6 - 10 Bar (85 - 145 PSI)	/product/hpa-series-pneumatic-foot-hand-air- p..
HPE-C Series Compact Electric Hydraulic Pumps	Enerpac PU / PUD Series	RATED PRESSURE: 700 Bar (10,000 PSI) | MOTOR & DUTY CYCLE: 0.37 kW (0.5 hp) Universal Motor, Intermittent Duty	/product/hpe-c-series-compact-electric- hydraul..
HPE Series Industrial Heavy-Duty Electric Hydraulic Pumps	Enerpac ZE Series	RATED PRESSURE: 700 Bar (10,000 PSI) | MOTOR POWER: 0.75 - 5.55 kW (1.0 - 7.5 hp) TEFC, IP55	/product/hpe-series-industrial-heavy-duty- elect..
HPB Series Brushless Cordless Battery-Powered Hydraulic Pumps	Enerpac XC Series	MOTOR POWER: 0.75 kW Brushless DC Servo Motor | BATTERY MODULE: 26 Ah High-Capacity Lithium-Ion with Charger	/product/hpb-series-brushless-cordless-battery..
HPS-ECO Series PLC Synchronized Lifting Systems	Enerpac EVO-Lite Series	MAX WORKING PRESSURE: 700 BAR (10,000 PSI) | SYNCHRONOUS ACCURACY: <= 0.5 MM DYNAMIC ELEVATION ACCURACY	/product/hps-eco-series-plc-synchronized- liftin..
HPS-PRO Series Heavy-Duty PLC Synchronized Lifting Systems	Enerpac EVO Series	MAX WORKING PRESSURE: 700 BAR (10,000 PSI) | SYNCHRONOUS ACCURACY: <= 0.5 MM DYNAMIC POSITIONING PRECISION	/product/hps-pro-series-heavy-duty-plc- synchr..
HPS-F Series Multi-Outlet Split-Flow Synchronized Hydraulic Pumps	Enerpac SFP Series	SPLIT-FLOW OUTLETS: 2, 4, 6 and 8 Independent Circuits | SYNCHRONOUS ACCURACY: <= ±4% Mechanical Equal Flow Division	/product/hps-f-series-multi-outlet-split-flow- pu..
HPM-UHP Series 1000-4000 Bar UHP Hand Pumps	Enerpac UHP Hand Pumps	RATED PRESSURE: 1,000 - 4,000 Bar (14,500 - 58,000 PSI) | PUMPING ACTION: Two-Speed Manual with Internal Automatic Shift Valve	/product/hpm-uhp-series-1000-4000-bar-uhp- h..
HTP-EX Series Explosion-Proof Electric Pumps	Enerpac Ex-Proof Pumps	EXPLOSION-PROOF RATING: Ex d IIB T4 Flameproof / IP55 Protection | OPERATING PRESSURE: 700 - 1800 Bar (10,150 - 26,100 PSI) Adjustable	/product/htp-ex-series-explosion-proof-electric-
HTP-E Series Ultra-High Pressure Electric Bolt Tensioner Pumps	Enerpac ZUTP Series	RATED PRESSURE: 1500 - 2500 BAR BOOSTER-FREE | PUMP MECHANISM: Booster-Free Double-Stage Piston Design	/product/htp-e-series-ultra-high-pressure- elect..
HTP-A Series Pneumatic UHP Bolt Tensioner Pumps	Enerpac ATP Series	MAX WORKING PRESSURE: 1500 to 2500 Bar (150 - 250 MPa) | DRIVE SOURCE: 6 - 10 Bar Compressed Air (Spark-Free Pneumatic)	/product/htp-a-series-pneumatic-uhp-bolt- tensi..
HTW-P4E Series 4-Tool Compact Electric Torque Pumps	Enerpac ZU4-4TW Series	RATED PRESSURE: 700 Bar (10,000 PSI) with Internal Relief Valve | MOTOR SPECIFICATION: 1.1 kW High-Efficiency Brushless Motor (220V, 50/60 Hz)	/product/htw-p4e-series-4-tool-compact-electric..
HTW-P3S Series High-Flow 3-Stage Electric Torque Pumps	Enerpac 3-Stage Pumps	OPERATING PRESSURE: 40 - 700 Bar (10,000 PSI) Continuously Adjustable | MOTOR SPECIFICATION: 1.1 kW Motor (220V, 50/60 Hz; Custom Voltages Available)	/product/htw-p3s-series-high-flow-3-stage- elec..
HTW-PA Series Air-Driven High-Flow Torque Wrench Pumps	Enerpac ZA4T Series	RATED OPERATING PRESSURE: 40 - 700 BAR (580 - 10,000 PSI) | AIR MOTOR DRIVE: 1.1 KW AIR MOTOR (3,000 RPM @ 4-8 BAR, 1.9 M^3/MIN)	/product/htw-pa-series-air-driven-high-flow- tor..
HTW-PEX Series Explosion-Proof Torque Wrench Pumps	Enerpac Ex-Proof Torque Pumps	MAX WORKING PRESSURE: 700 Bar (10,000 PSI) Adjustable | EXPLOSION-PROOF MOTOR: 1.5 kW Ex Motor (380V Std; Custom Voltages Available)	/product/htw-pex-series-explosion-proof-torque..

SECTION 03: 700 BAR HYDRAULIC TORQUE WRENCHES CATALOG

Square Drive Wrenches (183-72,000 N.m), Low-Profile Hollow Hex Cassette Wrenches & Heavy Impact Sockets

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HS-SKT Series Heavy-Duty Impact Sockets	Enerpac BSH Series	Square Drive Sizes: 3/4", 1", 1-1/2", 2-1/2" Female Drive (DIN 3121) | Across-Flats Hex Range: 22 mm to 180 mm (Heavy-Duty 6-Point Hex)	/product/hs-skt-series-heavy-duty-impact- sock..
HSW Series Square Drive Hydraulic Torque Wrenches	Enerpac S Series / Hytorc	Torque Output Range: 183 to 72,000 N·m (135 to 53,280 Ft-lbs) | Square Drive Specifications: 3/4", 1", 1-1/2", 2-1/2" Quick-Release Reversible Drive	/product/hsw-series-square-drive-hydraulic- tor..
HS-RED Series Hexagon Cassette Reducer Bushings	Enerpac Reducer Bushings	PRODUCT CONFIGURATION: Hexagon Cassette Reducer Bushing Inserts & Locking Rings | MASTER CASSETTE RANGE: 32 - 155 mm Master Hex Link Sizes	/product/hs-red-series-hexagon-cassette- reduc..
HHW Series Low-Profile Hollow Torque Wrenches	Enerpac W Series / Hytorc	Torque Output Range: 228 to 44,593 N·m (168 to 32,889 Ft-lbs) | Hexagon Cassette Range: 19 mm to 175 mm (3/4" to 6-7/8") Across-Flats	/product/hhw-series-low-profile-hollow-torque- ..
HHW-S Series Slim-Profile Low Clearance Wrenches	Enerpac Ultra-Slim Wrenches	Torque Output Range: 228 to 44,593 N·m (168 to 32,889 Ft-lbs) | Hexagon Cassette Range: 19 mm to 175 mm (3/4" to 6-7/8") Across-Flats	/product/hhw-s-series-slim-profile-low- clearan..
HHW-R Series Ring & Open-End Spanner Wrenches	HTL-R / HTL-W	TORQUE OUTPUT RANGE: 346 - 18,165 N·m (255 - 13,400 Ft-lbs) | SPANNER ACROSS FLATS: 19 - 120 mm (3/4" - 4-5/8" Hex)	/product/hhw-r-series-ring-open-end-spanner- ..

SECTION 04: 1500 BAR BOLT TENSIONERS & HYDRAULIC NUTS CATALOG

Single-Stage Topside Tensioners (M24-M100), Multi-Stage Tensioners & Mechanical Lock-Ring Hydraulic Nuts

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HST-S Series Single-Stage Topside Bolt Tensioners	Enerpac GT1-GT4 Tensioners	OPERATING PRESSURE: 1500 BAR HYDRAULIC TOPSIDE TENSIONING | TENSIONING FORCE: 282 to 3216 kN (28.7 to 328 Metric Tons)	/product/hst-s-series-single-stage-topside-bolt-
HST-M Series Multi-Stage Compact Bolt Tensioners	Enerpac Multi-Stage Tensioners	OPERATING PRESSURE: 1500 BAR HYDRAULIC TOPSIDE TENSIONING | CYLINDER ARCHITECTURE: Coaxial Multi-Stage Stacked Piston (Double Force Envelope)	/product/hst-m-series-multi-stage-compact-bolt..
HHN-M Series Heavy Industrial Mounting Nuts	Enerpac Mounting Nuts	Max Pressure: 70-80 MPa (700-800 Bar) | Shaft Thread Envelope: M50 to Tr900 (Metric & Trapezoidal)	/product/hhn-m-series-heavy-industrial- mounti..
HHN-L Series Mechanical Lock-Ring Hydraulic Nuts	Enerpac HHL Lock Nuts	RATED PRESSURE: 1500 BAR ULTRA-HIGH PRESSURE | PRELOAD CAPACITY: 226 to 3864 kN (23 to 394 Metric Tons)	/product/hhn-l-series-mechanical-lock-ring- hyd..

SECTION 05: HYDRAULIC PULLERS & BEARING PULLER SETS CATALOG

Integrated Pullers, Self-Centering Safety-Cage Pullers, 4-in-1 Master Bearing Sets & 55-100T Mobile Rail Pullers

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HAP-S Series Separate Heavy-Duty Hydraulic Pullers	Enerpac Separate BHP	RATED CAPACITY: 4 - 100 Metric Tons (39 to 980 kN) | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hap-s-series-separate-heavy-duty- hyd..
HAP-C Series Sync Self-Centering Pullers	Enerpac Self-Centering Pullers	RATED CAPACITY: 7 - 60 Metric Tons (69 to 588 kN) | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hap-c-series-sync-self-centering- pulle..
HAP-I Series Integrated Self-Contained Pullers	Enerpac Integrated BHP	RATED CAPACITY: 4 - 50 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hap-i-series-integrated-self-contained-
HAP-M Series Multi-Functional Hydraulic Puller Sets	Enerpac Grip Puller Sets	RATED CAPACITY: 5 - 50 Metric Tons (49 to 490 kN) | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hap-m-series-multi-functional- hydraul..
MAP-L Series Mechanical Lock-Nut Safety Cage Pullers	Enerpac Mechanical Lock-Nut Pullers	RATED CAPACITY: 2 - 40 Metric Tons | JAW CONFIGURATION: 2-Jaw (2-35 Ton) & 3-Jaw (5-40 Ton) Models	/product/map-l-series-mechanical-lock-nut- saf..
HAP-L Series Hydraulic Self-Locking Puller Sets	Enerpac Self-Locking Pullers	RATED CAPACITY: 5 - 50 Metric Tons (49 to 490 kN) | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hap-l-series-hydraulic-self-locking- pul..
HBP-B Series Bearing Cup Pullers & Bearing Splitter Attachments	Enerpac Bearing Cup Pullers	Capacity Range: 8 to 50 Ton (78 to 490 kN) | Tool Attachments: Internal Bearing Cup Puller (HBP-180) & Knife-Edge Bearing Splitter (HBP-181)	/product/hbp-b-series-bearing-cup-cross- beari..
HBP-G Series Hydraulic Grip Puller Sets	Enerpac Grip Puller Sets	RATED CAPACITY: 8 - 50 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hbp-g-series-hydraulic-grip-puller- ma..
HBP-X Series Cross-Bearing Puller Sets	Enerpac Cross-Bearing Sets	RATED CAPACITY: 8 - 50 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hbp-x-series-cross-bearing-puller-sets
HBP-M Series 4-in-1 Master Hydraulic Puller Sets	Enerpac 4-in-1 Master Sets	RATED CAPACITY: 8 - 50 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hbp-m-series-4-in-1-master-hydraulic- ..
HVP-W Series Wheel-Mounted Mobile Bearing Pullers	Enerpac Mobile Bearing Pullers	RATED CAPACITY: 50 - 500 Metric Tons | OPERATING PRESSURE: 700 Bar (10,000 PSI)	/product/hvp-w-series-wheel-mounted-mobile- ..
HVP-55 Series 2/3-Jaw Mobile Hydraulic Pullers	Enerpac 50T Mobile Jaw Pullers	Capacity Rating: 55 Ton (539 kN) Pulling Thrust | Hydraulic Pressure: 700 Bar (10,000 PSI) Max Working Pressure	/product/hvp-55-series-3-jaw-rail-mounted- hyd..
HVP-100 Series 2-Jaw Synchronized Mobile Hydraulic Pullers	Enerpac 2-Jaw Locomotive Pullers	Capacity Rating: 100 Ton (980 kN) Pulling Force | Working Pressure: 700 Bar (10,000 PSI) Rating	/product/hvp-100-series-2-jaw-synchronized- w..
HVP Series Heavy-Duty Vehicle-Mounted Hydraulic Pullers	Enerpac Mobile Vehicle Pullers	RATED CAPACITY: 100 - 200 Metric Tons | SPREAD RANGE: 191 - 1,778 mm (100T) / 203 - 1,334 mm (200T)	/product/hvp-series-heavy-duty-vehicle- mount..

SECTION 06: FLANGE TOOLS, NUT SPLITTERS & RIGGING CATALOG

Hydraulic Flange Wedges, Alignment Tools, Angled & Tri-Blade Nut Splitters, Toe Jacks & Heavy Moving Skates

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HNC Series Tri-Blade Heavy-Duty Flange Nut Cutters	Enerpac Tri-Blade Cutters	CUTTING CAPACITY: 103 to 193 Metric Tons Force | NUT RANGE (HEX AF): 70 - 130 mm Across Flats	/product/hnc-series-tri-blade-heavy-duty-flange..
HNS Series Compact Angled Hydraulic Nut Splitters	Enerpac NC Series	CUTTING CAPACITY: 5 to 90 Metric Tons Force | NUT RANGE (HEX AF): 13 to 75 mm Across Flats	/product/hns-series-compact-angled-hydraulic- ..
HFS-S Series Classic Stepped Flange Spreaders	Equalizer SW / Enerpac	SPREADING CAPACITY: 9 Ton (Mechanical) & 15 Ton (Hydraulic) | MIN ACCESS GAP: 6 mm Ultra-Thin Tip Clearance	/product/hfs-s-series-classic-stepped-flange- s..
HFS-W Series Hydraulic & Mechanical Flange Wedges	Enerpac FSH / FSM Series	MAX PRESSURE: 700 Bar (10,000 PSI) Rating | CAPACITY RANGE: 8 to 14 Ton Spreading Force	/product/hfs-w-series-hydraulic-mechanical- fla..
HFS-I Series Stepped Hydraulic Flange Spreaders	Equalizer SWI / Enerpac	SPREADING FORCE: 140 - 240 kN (14 - 24 Metric Tons) | MAX WORKING PRESSURE: 700 Bar (10,000 PSI)	/product/hfs-i-series-stepped-hydraulic-flange- ..
HFA Series Mechanical & Hydraulic Flange Alignment Tools	Enerpac ATM / Equalizer FA Series	MAX ALIGNMENT FORCE: 1 to 10 Ton (10 to 90 kN) | MINIMUM BOLT SIZE: 16 mm to 31.5 mm (0.63" to 1.24")	/product/hfa-series-mechanical-flange- alignme..
HLW Series Vertical Hydraulic Lifting Wedges	Enerpac LW-16 Series	LIFTING CAPACITY: 16 to 18 Metric Tons Rated Force | MIN ACCESS GAP: 10 mm Ultra-Low Initial Clearance	/product/hlw-series-vertical-hydraulic-lifting- w..
HTJ Series Heavy-Duty Hydraulic Toe Jacks	Enerpac TJ / Simplex	LIFTING CAPACITY: 2 - 25 Ton (Toe) / 3 - 50 Ton (Head) | MIN ACCESS CLEARANCE: 16.0 - 58.0 mm Ultra-Low Toe Access	/product/htj-series-heavy-duty-hydraulic-toe- ja..
HMS-C Series Fixed Machinery Moving Roller Skates	Heavy-Duty Fixed Roller Skates	CAPACITY RANGE: 2 to 12 Metric Tons per Skate | ROLLER MATERIAL: 82 × 100 mm & 115 × 100 mm Heavy-Duty Nylon / Polyurethane	/product/hms-c-series-caterpillar-tracked-heavy..
HCJ Series Self-Contained Hydraulic Jacks	Hi-Force JCS / JSC Series	RATED CAPACITY: 10 Metric Tons (100 kN) | MAX WORKING PRESSURE: 700 Bar (10,000 PSI)	/product/hcj-series-self-contained-hydraulic- ja..
HMS-T Series Turntable Heavy Machinery Skates	Enerpac MLS / MLSS Series	RATED LOAD CAPACITY: 6 to 30 Metric Tons Working Load | STEERING MOBILITY: 180° Swivel Turntable & Tow Handle	/product/hms-t-series-turntable-heavy- machine..
HTM-P Series Precision Planetary Torque Multipliers	Enerpac Precision Multipliers	OUTPUT TORQUE: 1,000 - 2,000 N·m (740 - 1,450 lbf·ft) | MULTIPLICATION RATIOS: 4.5:1, 5:1, 22:1, and 25:1 Planetary	/product/htm-p-series-precision-planetary- torq..
HTM-H Series Heavy Planetary Torque Multipliers	Enerpac E-Series Multipliers	TORQUE OUTPUT: 3,000 to 4,500 N·m (2,200 to 3,300 lbf·ft) | GEAR REDUCTION RATIOS: 15.5:1 (HTM-H-3000) & 26:1 (HTM-H-4500)	/product/htm-h-series-heavy-planetary-torque- ..
HBB Series Off-The-Road Tire Bead Breakers	Enerpac OTR Bead Breakers	BEAD-BREAKING FORCE: 10 Metric Ton Rated Thrust | WORKING PRESSURE: 700 Bar (10,000 PSI) Rating	/product/hbb-series-off-the-road-tire-bead- brea..

SECTION 07: 700-2800 BAR HOSES, COUPLERS & VALVES CATALOG

Thermoplastic UHP Hoses, 3/8" NPT Quick-Disconnect Couplers, Glycerin Pressure Gauges, Valves & Manifolds

Series & Product Line	OEM Interchange Benchmark	Key Engineering Highlights	Online Spec & CAD
HSH Series 700-2800 Bar High Pressure Hydraulic Hoses	Enerpac HC Series Hoses	Product Series: HSH Series 700-2800 Bar High-Pressure Hydraulic Hoses | Rated Working Pressure: 700 Bar (10,000 PSI) to 2,800 Bar (40,000 PSI)	/product/hsh-series-700-2800-bar-high-pressur..
HSG Series Stainless Steel Liquid-Filled Pressure Gauges	Enerpac G Series Gauges	Product Series: HSG Series Stainless Steel Liquid-Filled Pressure Gauges | Pressure Measurement Range: 0-700 Bar, 0-1,000 Bar, 0-1,600 Bar (Up to 23,000 PSI)	/product/hsg-series-stainless-steel-liquid-filled-
HGA Series 700 Bar Precision Gauge Adaptors	Enerpac GA Series Adaptors	Product Series: HGA Series 700 Bar Precision Gauge Adaptors | Rated Working Pressure: 700 Bar (10,000 PSI) Continuous Operating Pressure	/product/hga-series-700-bar-precision-gauge- a..
HSV Series 700 Bar Directional & Flow Control Valves	Enerpac V Series Valves	Product Series: HSV Series 700 Bar Directional & Flow Control Valves | Rated Working Pressure: 700 Bar (10,000 PSI) Continuous Industrial Rating	/product/hsv-series-700-bar-directional-flow- co..
HSM Series 700 Bar Multi-Port Manifold Distribution Blocks	Enerpac AM Series Manifolds	Product Series: HSM Series 700 Bar Multi-Port Manifold Distribution Blocks | Rated Working Pressure: 700 Bar (10,000 PSI) Continuous Operating Pressure	/product/hsm-series-700-bar-multi-port- manifol..
HQC Series High-Flow Quick-Disconnect Couplers	Enerpac CR-400 / C-604	Product Series: HQC Series High-Flow Quick-Disconnect Couplers | Rated Working Pressure: 700 Bar (10,000 PSI) to 1,400 Bar (20,000 PSI)	/product/hqc-series-high-flow-quick-disconnect..
HFT Series 700 Bar High-Pressure Forged Pipe Fittings	Enerpac FZ Series	Product Series: HFT Series 700 Bar High-Pressure Forged Pipe Fittings | Rated Working Pressure: 700 Bar (10,000 PSI) Continuous Industrial Rating	/product/hft-series-700-bar-high-pressure-pipe- ..

APPENDIX: ASTM A193 GRADE B7 STUD BOLT TORQUE & 1500 BAR TENSIONER SIZING REFERENCE CHART (M24 - M100)

Basis: 50% Yield Target Preload (Rp0.2 = 725 MPa for <=M64; 655 MPa for >M64), Copper/Graphite Lubricant (u = 0.12), Tensioner Load Loss Factor = 1.18x.

Stud Size	Pitch [mm]	Heavy Hex AF [mm]	Stress Area [mm2]	Yield [MPa]	Preload @50% [kN]	Target Torque [N.m]	Matched 700 Bar Wrench	Pull Force +18% [kN]	Matched 1500 Bar Tensioner
M24	3.0	36	353	725	128	**485**	HSW-1 / HHW-2	151	HST-S1-M24 (801 Bar)
M27	3.0	41	459	725	166	**706**	HSW-1 / HHW-2	196	HST-S1-M27 (1042 Bar)
M30	3.5	46	561	725	203	**962**	HSW-3 / HHW-2	240	HST-S2-M30 (796 Bar)
M33	3.5	50	694	725	252	**1,302**	HSW-3 / HHW-2	297	HST-S2-M33 (984 Bar)
M36	4.0	55	817	725	296	**1,674**	HSW-3 / HHW-2	349	HST-S3-M36 (725 Bar)
M39	4.0	60	976	725	354	**2,155**	HSW-3 / HHW-4	418	HST-S3-M39 (867 Bar)
M42	4.5	65	1121	725	406	**2,668**	HSW-3 / HHW-4	479	HST-S3-M42 (995 Bar)
M45	4.5	70	1306	725	473	**3,322**	HSW-5 / HHW-4	559	HST-S4-M45 (756 Bar)
M48	5.0	75	1473	725	534	**3,998**	HSW-5 / HHW-4	630	HST-S4-M48 (852 Bar)
M52	5.0	80	1758	725	637	**5,134**	HSW-5 / HHW-8	752	HST-S4-M52 (1017 Bar)
M56	5.5	85	2030	725	736	**6,371**	HSW-8 / HHW-8	868	HST-S5-M56 (804 Bar)
M64	6.0	95	2676	725	970	**9,544**	HSW-10 / HHW-8	1,145	HST-S5-M64 (1060 Bar)
M72	6.0	105	3460	655	1,133	**12,462**	HSW-10 / HHW-14	1,337	HST-S6-M72 (864 Bar)
M80	6.0	115	4344	655	1,423	**17,298**	HSW-20 / HHW-18	1,679	HST-S6-M80 (1085 Bar)
M90	6.0	130	5591	655	1,831	**24,965**	HSW-20 / HHW-18	2,161	HST-S7-M90 (1008 Bar)
M100	6.0	145	6995	655	2,291	**34,620**	HSW-35 / HHW-30	2,703	HST-S7-M100 (1261 Bar)