

ENERPAC 

Hydraulic Wrench Pumps



ENERPAC 
Hydraulic Technology Worldwide

Z Tough
Dependable
Innovative
CLASS

High-pressure hydraulic pumps designed specifically for bolting applications.

Introducing the Enerpac Z-Class hydraulic pumps – that run cooler, use less electricity and are easy to service compared to conventional pumps.



Z-Class pump element – heart of your ZU4 Series system

Highly efficient design provides increased flow rates, reduced heat generation and a decrease in power consumption. This means improved tool speed and increased service life – which results in higher productivity and lower operating costs.

Heavy-duty bearings extend pump life by reducing friction, reducing surface-loading and lowering bearing stresses.

Pump cavity oil bath extends pump life by reducing heat, improving lubrication and reducing wear.

Self-priming, high-flow 1st stage pump increases pump performance by super-charging the 2nd stage piston pump – improving oil flow in both hot and cold weather operation.

Balanced rotating components reduce vibration creating a smoother running pump – reducing wear, friction and sound levels.

Replaceable piston check-valves increase service life of major pump components.

Enerpac has used the latest metallurgical, bearing and seal technologies to produce a pump whose features and benefits far surpass the electric pumps that are available today. By reducing the number of moving parts, improving flow dynamics and decreasing friction, **Z-Class** pumps will stay on the job longer, require less energy to operate and when needed, have lower service costs.

ZU4 Series Electric pump – easy to service

Ergonomic heavy-duty composite shroud protects electric motor and key electrical components from environmental contamination, rain and debris and provides a non-conductive ergonomic handle for the operator.

Ergonomic and durable low-voltage pendant features sealed switches and operates on 15 Volts.

Easily accessible brush cavity allows rapid brush replacement in the field.

Brush design lasts 4-times longer than current designs and features “auto-stop” shunt to prevent commutator damage from normal brush wear.

Reduced current draw extends brush life and reduces electrical load on electrical circuits and generators.

Back-lit LCD

Display provides essential user information:

- Auto cycle for continuous cycle operation
- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test, diagnostic and read-out capabilities
- Information displayed in 6 languages
- Pressure read-out
- Adjustable trigger pressure setting.

Enerpac ZU4T Series hydraulic wrench pumps – simply the best pump you will ever use!

▼ ZU4204TE-EHK



ZU4 CLASS

Tough, Dependable and Innovative



Twin 3,5:1 Safety Hoses

Use only Enerpac THC-700 series twin 3,5:1 safety hoses with HXD and SQD-Series torque wrenches to ensure the integrity of your system.

6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122

- Can be used with any brand of 700 and 800 bar single- and double-acting hydraulic torque wrenches
- Auto cycle feature provides continuous cycle operation as long as the advance button is pressed (pump can be used with or without auto cycle feature)
- High-efficiency two speed pump – higher oil flow and bypass pressure (85 bar), cooler running 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
- High-strength, moulded composite shroud protects motor and electronics, while providing an ergonomic, non-conductive handle for easy transport
- Durable steel reservoirs
- LCD provides self test, diagnostic and read-out capabilities never before offered on a portable electric pump
- Manifold for simultaneous multiple wrench operations
- Designed to last – requires less maintenance, easy to service



◀ Easy and reliable service in the field using Enerpac hydraulic wrench pumps and torque wrenches.

▼ COMMON PUMP MODELS

For technical information and other options see next page.

BASIC PUMP TYPES

Select the model that suits your application. For special requirements contact your Enerpac office.

800 bar Pumps with Solenoid Valve for Enerpac torque wrenches

- For use with Enerpac SQD-75-I, 100-I, 160-I, 270-I and HXD-60, 120, 240 torque wrenches.
- Ideal for bolting applications that require remote pump and valve operation.
- Motor on/off and valve control in pendant. Pressing up arrow advances wrench, releasing up arrow retracts wrench (auto cycle off).
- Low-voltage control pendant with 6m cord for remote motor and valve operation.

700 bar Pumps with Solenoid Valve for all major brands torque wrenches

- For use with all major brands single- and double-acting torque wrenches.
- Ideal for bolting applications that require remote pump and valve operation.
- Motor on/off and valve control in pendant. Pressing up arrow advances wrench, releasing up arrow retracts wrench (auto cycle off).
- Low-voltage control pendant with 6m cord for remote motor and valve operation.

ZU4T Series, Hydraulic Wrench Pumps



ZU4T Series Pump Applications

The ZU4T Series pump is best suited to power medium to large size torque wrenches or hydraulic tools, or wherever high speed, intermittent duty cycle is needed.

Patent-pending **Z-Class** technology provides high by-pass pressures for increased productivity.

Its high power to weight ratio and compact design make it ideal for applications which require easy transport of the pump. It utilizes a universal motor which will work well on long extension cords or generator driven electrical power supplies.

For further application assistance contact your local Enerpac office.



ZU4 Series



Reservoir Capacity:
4 and 8 litres

Flow at Rated Pressure:
0,9 - 1,0 l/min

Motor Size:
1,25 kW

Maximum Operating Pressure:
700 and 800 bar




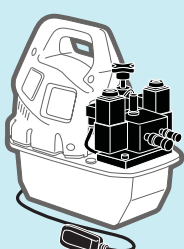
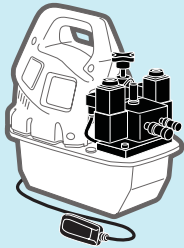
Ordering Example 1 Model Nr. ZU4204TE-EHK

800 bar pump for use with Enerpac torque wrenches, 230V motor with European plug, 4 litres reservoir, optional heat exchanger and skidbar.

Ordering Example 2 Model Nr. ZU4208TB-QMHK

700 bar pump for use with all major brand torque wrenches, 115V motor, 8 litres reservoir, 4 wrench manifold, heat exchanger and skidbar.

See page 5 for pump specifications and option details.

Pump Type	For use with single- and double-acting hydraulic torque wrenches as from 4000 Nm or more	Maximum Operating Pressure (bar)	Coupler Type	Motor Voltage (1,25 kW)	Usable Oil Capacity (litres)	Model Number ¹⁾	 ⁴⁾ (kg)
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	115 V / 1ph	4,0	ZU4204TB-E	32
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	115 V / 1ph	8,0	ZU4208TB-E	36
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	230 V / 1ph	4,0	ZU4204TE-E ²⁾	32
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	230 V / 1ph	8,0	ZU4208TE-E ²⁾	36
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	230 V / 1ph	4,0	ZU4204TI-E ³⁾	32
	Enerpac HXD, SQD ⁵⁾	800	Enerpac Lock-Ring	230 V / 1ph	8,0	ZU4208TI-E ³⁾	36
	For all major brands	700	Parker Spin-On	115 V / 1ph	4,0	ZU4204TB-Q	32
	For all major brands	700	Parker Spin-On	115 V / 1ph	8,0	ZU4208TB-Q	36
	For all major brands	700	Parker Spin-On	230 V / 1ph	4,0	ZU4204TE-Q ²⁾	32
	For all major brands	700	Parker Spin-On	230 V / 1ph	8,0	ZU4208TE-Q ²⁾	36
	For all major brands	700	Parker Spin-On	230 V / 1ph	4,0	ZU4204TI-Q ³⁾	32
	For all major brands	700	Parker Spin-On	230 V / 1ph	8,0	ZU4208TI-Q ³⁾	36

¹⁾ All models meet CE safety requirements and all CSA requirements.

²⁾ With European Plug and EMC Directive Compliant. ³⁾ With NEMA 5-15 Plug

⁴⁾ Subtract 1 kg per litre oil for competitive weight comparison.

⁵⁾ For SQD-75-l, 100-l, 160-l, 270-l and HXD-60, 120, 240.

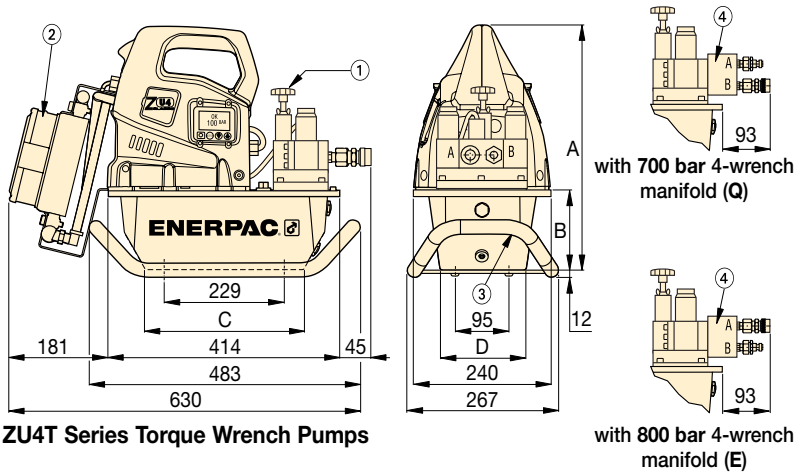
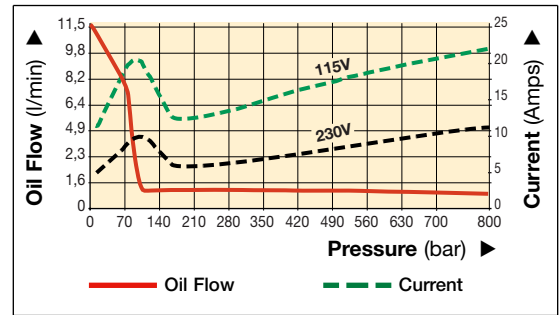
ZU4T Series, Pump Specifications & Options

▼ ZU4T SERIES PERFORMANCE CHART

Motor Size (kW)	Output Flow Rate (l/min)					Motor ¹⁾ Electrical Specification (Volts-ph-Hz)	Relief Valve Adjustment Range (bar)	Current Draw (Amps)
	7 bar	50 bar	350 bar	700 bar	800 bar			
	11,5	8,8	1,2	1,0	0,9			
1,25	11,5	8,8	1,2	1,0	-	115-1-50/60 230-1-50/60	70-700	21 11
1,25	11,5	8,8	1,2	1,0	0,9	115-1-50/60 230-1-50/60	70-800	24 11

¹⁾ Isolation- and protectionclassification IPX4 / NEMA 3R.
Sound Level 85-90 dBA.

▼ OILFLOW and CURRENT versus PRESSURE



ZU4T Series Torque Wrench Pumps

- ① User adjustable relief valve.
- ② Heat Exchanger.
- ③ Skid Bar.
- ④ 4-wrench manifold.

▼ ZU4T SERIES PUMP DIMENSIONS (mm)

Reservoir Size ¹⁾ (litres)	A	B	C	D
4,0	432	142	279	152
8,0	495	203	287	167

¹⁾ Usable oil capacity.



Back-lit LCD and Pressure Transducer

- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Information can be displayed in six different languages ¹⁾
- Pressure transducer is more accurate and durable than analog gauges
- Easy-viewing variable rate display
- Display pressure in bar, MPa or psi

¹⁾ English, French, German, Italian, Spanish and Portuguese.



Heat Exchanger ²⁾

- Removes heat from the bypass oil to provide cooler operation
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components

²⁾ Heat Exchanger adds 4,1 kg to pump weight.

Thermal Transfer *	Max. pressure	Max. oil flow	Voltage
Btu/h kJoule	(bar)	(l/min)	(VDC)
900 950	20,7	26,5	12

* At 1,9 l/min at 21 °C ambient temperature.
Do not exceed maximum oil flow and pressure ratings. Heat exchanger is not suitable for water-glycol or high water based fluids.



ZU4T Series Features & Options

Add following suffix at end of pump model number for ordering with factory installed options:

- H** Heat Exchanger;
- K** Skidbar;
- M** 4-wrench manifold.



4-Wrench Manifolds

For simultaneous operation of multiple wrenches, order the optional 4-wrench manifold:

ZTM-U4E For use with 800 bar Enerpac wrenches with lock-ring couplers (shown here).

ZTM-U4Q For use with any other brand of 700 bar wrenches with Parker spin-on couplers.



Skidbar SBZ-4

Provides greater pump stability on soft or uneven surfaces, and easy two-hand lift. Skidbar adds 2,2 kg to pump weight.

Hydraulic Wrench Pumps



ENERPAC

The Industrial Tools Line

Cylinders

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

Pumps

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

System Components

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

Valves

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

Presses

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

Pullers

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

Tools

- Maintenance Sets
- Punches
- Machine Lifts
- Load Skates
- Cutters
- Pipe Benders

Bolting Tools

- Nut Splitters
- Flange/Wedge Spreaders
- Flange Alignment Tools
- Torque Wrenches
- Hydraulic Wrench Pumps
- Twin Safety Hoses

Integrated Hydraulic Solutions

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

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