ENERPAC

THE RIGHT TOOL MAKES ALL THE DIFFERENCE

SUBTITLE – DATE, LOCATION

Enerpac Tool Group

110
YEARS OF HISTORY

Menomonee Falls, WI
HEADQUARTERS

~2,600
EMPLOYEES

100+
MANAGEMENT TEAM YEARS EXPERIENCE

90+
OF COUNTRIES PRODUCTS SOLD INTO

Global leader in high precision tools, controlled force products and solutions for precise heavy lifting.

Products

Cylinders/Jacks, Pumps, Bolting tools, Machining, Presses, Pullers, Tools, Heavy Lifting Technology

Service and Rental

Bolting, machining and joint integrity

Extensive Global Distribution

2,500+ long-standing distribution relationships

4,000+ distributor locations

Diversified Customer Base

Large OEMs

Specialty Dealers

National Distribution

STRONG BRAND RECOGNITION

ENERPAC
Premium Industrial Tools
Heavy Lifting

hydratight
Service
Rental
Training

CORTLAND
Medical
Industrial Ropes



ENERPAC

Application Expertise



Complex Foundation Lift
After Earthquake



Rapid Vineyard Posts
Disassembly



1,500-ton River Bridge
Jack Up



Leak Free Connection of
Gas Flange



Precise & Safe Placement
of Stadium Roof Trusses



Precise Movement of Rail
Tunnel Boring Machine



Precise Crab Bolt Torqueing
of EMB Locomotive Engine



A 482-ton Turbine
Installation Lift

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Offerings

Cylinders & Jacks (Pg. 37-48)

Bolting Tools (Pg. 49-73)

Heavy Lifting Technology (Pg. 74-84)

Portable Machining (Pg. 85-95)

Pumps (Pg. 96-104)

Specialty Tools (Pg. 105-138)

Hydratight Services (Pg. 139-147)

Cylinders & Jacks



The Enerpac portfolio of 700 bar hydraulic cylinders and jacks with up to 1000-ton capacity are the industry standard. Tested under the most extreme conditions and prepared for harsh environments, customers are sure to find models for every lifting, pushing, pulling or pressing application.

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Cylinders & Jacks



General Purpose Cylinders



Hollow Cylinders



Low Height Cylinders



Aluminum Cylinders



Double Acting Cylinders



High Tonnage Cylinders



Lock Nut Cylinders



Lifting Jacks

ENERPAC

New Products: Hydraulic Cylinders



High Tonnage Cylinders

- Nitrocarburization surface treatment improves wear resistance and corrosion protection
- New bearing material and added bearing surface increase side-load protection
- Composite bearings surround the seal providing support for eccentric loads
- Low wear, high pressure seals provide longer service life



Ultraflat Cylinders

- Nitrocarburized surface treatment inside and out provides unparalleled sideload resistance and corrosion protection for safe use in the harshest conditions
- CULP has internal stop ring that prevents the plunger to accidentally drop out at the end of its stroke
- CUSP has a tilting plunger equal distribution of load over its full surface

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General Purpose Cylinders

Popular Applications

- General maintenance
- Lifting
- Pushing
- Pressing



Proven Performance

- Market standard
- Reliable performance
- Stock availability
- Broad range
- Series: RC, RCS, RR, RSM

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Hollow Cylinders

Popular Applications

- Bar tensioning
- Rod pulling
- Cable tensioning



Proven Performance

- Broad range
- Single and double acting
- Steel and aluminum
- Series: RACH, RARH, RCH, RRH

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Low Height Cylinders

Popular Applications

- Limited clearance applications
- Short stroke lifting
- Machine moving
- Load positioning



Proven Performance

- Telescopic models available
- Tilting plunger available
- Low collapsed height
- Series: CULP, CUSP, LPL, RLT, RSM

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Aluminum Cylinders

Popular Applications

- Difficult access lifting
- General maintenance
- Leveling



Proven Performance

- Hard anodized
- 50% lighter than steel
- Corrosion resistant
- Series: RAC, RACH, RACL, RAR, RARH

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Double Acting Cylinders

Popular Applications

- Push & pull applications
- High cycle applications
- Presses
- Long stroke lifts



Proven Performance

- Attachment threads
- Controlled lowering
- Very long strokes
- Series: BLS, BRD, HCR, HCRL, RAR, RARH, RD, RR, RRH

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High Tonnage Cylinders

Popular Applications

- Infrastructure
- Bridge maintenance
- Heavy equipment maintenance



Proven Performance

- High side load capacity
- Corrosion resistant
- Heavy duty
- Series: CUSP, HCG, HCL, HCR, HCRL, LPL

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Lock Nut Cylinders

Popular Applications

- Bridge maintenance
- Heavy load lift & support
- Extended time load holding



Proven Performance

- High side load capacity
- Corrosion resistant
- Replace mechanical support
- Series: HCL, HCRL, LPL, RACL

Telescopic Cylinders

Popular Applications

- Infrastructure projects
- Bridge maintenance
- Heavy equipment maintenance



Proven Performance

- Steel cylinder for maximum strength
- Nitrocarburized surface for unparalleled sideload & corrosion resistance
- Complies with ASME B30.1 & EN1494
- Series: RLT, RT

Lifting Jacks

Popular Applications

- Heavy vehicle maintenance
- Mining equipment maintenance

Proven Performance

- Self contained
- Mechanical jack ranges
- Series: GBJ, JH, JHA, PL, PR, RTJ, SOH, TJ, WJ



ENERPAC

Torque & Tensioning Products



Enerpac offers a variety of controlled tightening options to best meet your application from electric and pneumatic torque wrenches and manual torque multipliers to a comprehensive range of hydraulic torque wrenches and inter-connectable bolt tensioning tools.

Torque & Tensioning



S&W Series Torque Wrenches



RSL Torque Wrenches



Hydramax Tensioners



GT Tensioners



Aquajack Subsea Tensioners



PowerGen tensioners



Pneumatic Torque Wrenches



Electrical Torque Wrenches

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Low Profile Torque Wrenches

ENERPAC **Comparison Table** **Hexagon Low Profile Wrenches**		Heavy Users	MRO work	Cost Conscious Asset buyers	Lowest maintenance cost	Purchase + Maintenance cost = Total Cost of Ownership (lowest)	Suitable for Rental fleet	Quick Cassette change	Standard Calibration Certificate	Slimline Cassettes	Double swivel standard	Interchangeable with competition	One drive unit, 2 tool options	Wide range of accessories available
W-series		✔	✔		✔	✔	✔	✔	✔	✔				✔
W-L-series		✔	✔	✔			✔				✔	✔		
RSL-series		✔	✔	✔			✔			✔			✔	

Lowest Total Cost of Ownership
provides productivity, durability, reliability and proven in challenging environments.

Best Value Solution
simple to use and compatible with other major brands.

Most Versatile Solution
reliable drive unit compatible with both square and hexagon cassettes.

W-Series Torque Wrenches

Popular Applications

- Oil & Gas flanges
- Blow Out Preventers (BOPs)
- Wind turbine erection



Proven Performance

- Simplicity
- Low maintenance cost

  Interchangeable head design

ENERPAC

RSL Torque Wrenches

Popular Applications

- Oil & Gas
- Small industry
- Wind power generation



Proven Performance

- One drive unit for square drive and low profile
- Direct fit hose, eliminating a swivel
- Simplicity in design, reduced number of parts

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Square Drive Torque Wrenches

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Comparison Table
Square Drive Wrenches

		Heavy Users	MRO applications	Cost Conscious Asset buyers	Lowest maintenance cost	Purchase + Maintenance cost = TC Total Cost of Ownership (lowest)	Most Suitable for Rental fleet	Small footprint	Steel	ALU	Lowest weight	Standard Calibration Certificate	'No-Drop' Safety features	double swivel standard	aesthetic Design	one drive unit, 2 tool options	Wide range of accessories available	
S-series		✔	✔		✔	✔	✔	✔	✔								✔	**Lowest Total Cost of Ownership** productivity, durability, reliability and proven in challenging environments.
DSX-series			✔	✔						✔	✔	✔	✔	✔	✔			**Best Light Weight Solution** Aluminum tool with patented features to reduce dropped-object incidents.
RSL-series		✔	✔	✔			✔	✔	✔							✔		**Most Versatile Solution** reliable drive unit compatible with both square and hexagon cassettes.

S-Series Torque Wrenches

Popular Applications

- Oil & Gas flanges
- All kinds of mining vehicles
- All industrial bolting applications



Proven Performance

- Durability
- Reliability
- Low maintenance cost resulting in favorable total cost-of-ownership

ENERPAC

DXR-Series Torque Wrenches

Popular Applications

- Oil & Gas flanges
- Power Generation
- All industrial bolting applications



Proven Performance

- Aluminum light weight
- Fully retained, quick release reaction arm
- No-drop safety tether connection point

ENERPAC

Hydramax Topside Tensioner

Popular Applications

- Pipe line flanges
- Heat exchangers



Proven Performance

- Spring support from HM06
- Long stroke
- Quick release bridge
- Captive socket

ENERPAC

GT Topside Tensioner

Popular Applications

- Oil & Gas applications
- Industrial applications
- Construction applications



Proven Performance

- Reduced number of load cells to cover 5/8” – 4”
- One size bridge per load cell
- Twin port
- Captive socket

ENERPAC

AquaJack Subsea Tensioner

Popular Applications

- Subsea Oil & Gas tensioning applications
- Alternative to Topside tensioning depending on application



Proven Performance

- Compact design
- Misalignment compensation
- Quick fastening or solid reaction nut

Power Generation Tensioners

Popular Applications

- PGT-Series for critical fastening application in wind, steam and gas turbines
- FTE-Series for difficult, narrow access foundation tensioning applications



Proven Performance

- Auto-retract piston
- Zinc coating for corrosion protection
- Over-stroke preventer
- Interchangeable bridge
- Long-life puller & seals

ENERPAC

E-Series Manual Multiplier

Popular Applications

- Off-road equipment maintenance
- Construction
- Cranes



Proven Performance

- Anti-backlash protects operator
- Reaction plate models offer increased versatility with reaction point locations
- Reaction bar or plate style
- High-efficiency – high-output torque from low input torque

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PTW Pneumatic Multiplier Torque Wrenches

Popular Applications

- Mining track, undercarriage, wheel & shovel maintenance
- Turbine bolts, casings and wind tower segments
- Oil & Gas flanges, valves, manway covers and pressure vessels



Proven Performance

- Air regulated design for speed and control
- Ergonomic, low-vibration design for improved safety
- Unique calibration certificate

ETW Electric Multiplier

Popular Applications

- Power generation
- Turbine bolts
- Tower segments
- Turbine Casings



Proven Performance

- Versatility
- Performance
- Simplicity
- Traceability
- Safety
- Precision

ENERPAC

BUS Back-up Spanners

Popular Applications

- Every torque application that has an accessible counter nut



Proven Performance

- Two sizers per tool
- Stops back rotation
- No drop land yard

MSC Mobile Calibration Stand

Popular Applications

- Calibration of pneumatic torque wrenches
- Calibration of electric torque wrenches
- Calibration of hydraulic torque wrenches



Proven Performance

- Accurately measures torque output
- Internal Li-on battery pack
- Tool database feature
- Compact design
- Integrated digital interface

ENERPAC

Flange Tools



When joints need to be assembled, separated or correctly aligned, nut cutters and flange spreaders offer controlled separation while flange alignment tools rectify twist and rotational misalignment without additional stress in pipelines after tightening.

Flange Tools



Flange Spreading Tools



Alignment Tools



Wind Tower Alignment Tool



Nut Cutters



Nut Splitters

New Products: Flange Maintenance





Equalizer Flange Maintenance Tools

- Equalizer tools provide a safe, cost effective and simple solution
- The innovative product range includes flange spreading, aligning and pulling tools together with a series of hand pumps

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Flange Spreading Tools

Popular Applications

- Oil & Gas flange maintenance
- Power generation flange maintenance
- Joint assembly and separation



Proven Performance

- Access gap requirement of only 6 mm
- Unique interlocking wedge design
- Durability and low maintenance

Flange Alignment Tools

Popular Applications

- Pipework construction
- Pipework maintenance
- Joint integrity



Proven Performance

- Portable, lightweight design
- Hand-adjustable base for easy positioning by a single operator
- Safety strap helps provide secure operation

ENERPAC

Wind Tower Flange Alignment

Popular Applications

- Wind tower assembly
- Wind tower maintenance



Proven Performance

- Bolt hole alignment in tower sections
- Compact lightweight design
- Effective for on-shore & off-shore turbines

Nut Cutters

Popular Applications

- Steel construction
- Piping industry
- Petrochemical



Proven Performance

- Compact, ergonomic and easy-to-use design
- Unique angled head allows flush access
- Heavy duty chisels

Nut Splitters

Popular Applications

- Oil & Gas flanges
- Petrochemical flanges
- Piping with bigger nut sizes that are accessible



Proven Performance

- Tri-blade technology
- Controlled blade extension to prevent bolt thread damage
- Internal pressure relief valve for overload protection

Heavy Lifting Technology



The comprehensive range of standard heavy lifting tools and equipment provide the safe and precise movement of heavy loads that customers expect, with the flexibility to customize solutions to meet the most demanding applications in Construction, Power Generation, Oil & Gas and Mining.

Heavy Lifting Technology



Hydraulic Gantries



Strand Jacks



Jack-up Systems



SPMTs



Skidding



Trolleys



Synchlift



Synchoist

ENERPAC

New Products: Heavy Lifting Technology



Cube Jack

- Compact and portable hydraulic solution for incremental lifting and lowering of heavy loads
- 4 Cube Jacks used together provide a very stable lift for loads up to 224 Tons and 81.4”
- Compared to other lifting and cribbing incremental lifting solutions, the Cube Jack is significantly faster



SL400N Super Lift Gantry

- The SL400N Gantry combines the heavy lifting capacity of 450 tons with the compact footprint of 2’ wide Track Gauge
- The narrow footprint allows the SL400N to operate in more confined spaces where other lifting solutions cannot operate
- SL400N includes wireless Intellilift controls, self-contained hydraulics, self-propelled wheels, and ASME B30.1 compliant

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Strand Jacks

Popular Applications

- Building construction
- Oil & Gas modular construction
- Segmental bridge construction





Proven Performance

- Fully computer controlled
- High lifting capacity
- Built for long-term outdoor use

Jack-up Systems

Popular Applications

- Bridge construction
- Mining shovel undecking
- Port crane lifting





Proven Performance

- Fully computer controlled
- High lifting capacity
- Mechicanically secured load

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Self-Propelled Modular Transporter (SPMT)

Popular Applications

- In-plant maintenance
- Power plant maintenance
- Large manufacturing



Proven Performance

- Wireless controls
- Modular design
- Low profile design



Skidding Systems

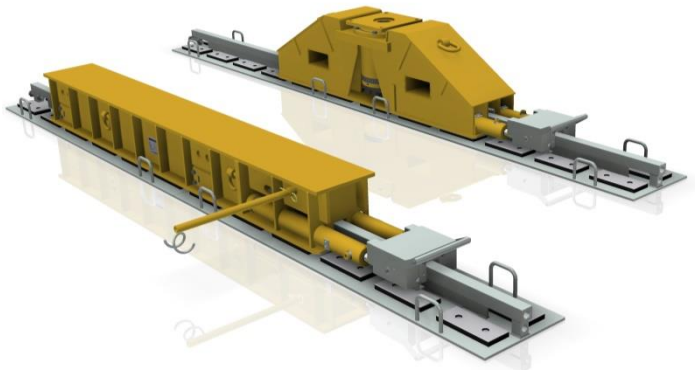
Popular Applications

- Transformer replacement
- Slide-in bridge construction
- Oil & Gas modular construction



Proven Performance

- Low friction PTFE skidding
- Scalable/portable design
- Ability to lift and skid



Trolley Systems

Popular Applications

- Ship building
- Off shore wind construction
- Long distance loadouts

Proven Performance

- High transport speed
- Wireless controls
- Scalable design





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Synchronized Lifting Systems

Popular Applications

- Bridge maintenance
- Steel mill maintenance
- Mining equipment maintenance



Proven Performance

- Computer controlled
- High accuracy lifting & lowering
- Networkable



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Synchronized Hoisting Systems

Popular Applications

- Road truss placement
- Segmental bridge construction
- Turbine maintenance





Proven Performance

- Wide variety of control options
- Scalable to multiple points
- Complies with crane rigging standards

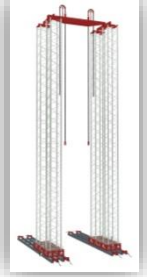
Custom Solutions: Heavy Lifting



Rotor Removal



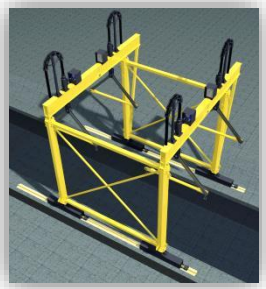
Vertical Cask Transporter



Self Erecting Lifting Tower



Custom Gantries



Strand Jack Gantry



Custom Trolleys



Custom Skidding



Travel Gantry

ENERPAC

Portable Machining



Mirage portable machining products tackle the most demanding in-situ machining applications. By replicating machine shop tolerances in-situ, customers can reliably get the job done faster, safer and smarter.

ENERPAC

Portable Machining



Flange Facing



Hot Tapping & Line Stopping



Clamshells



Orbital Milling



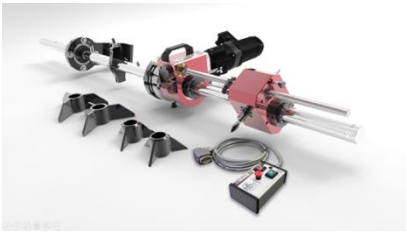
Drilling & Tapping



Linear & Gantry Milling



Portable Saws



Line Boring

ENERPAC

New Products: Portable Machining





Mirage Portable Machining Tools

- Mirage products offers a diverse range of heavy-duty on-site machining tools to our product portfolio
- Machines capable of handling the world's toughest on-site machining challenges

Flange Facing

Popular Applications

- Raised and RTJ flanges
- Compact flanges and hubs
- Heat exchangers



Proven Performance

- Accuracy of surface finish to ASME standards
- Quick to set up accurately
- Quality robust construction

ENERPAC

Hot Tapping

Popular Applications

- Pipeline repair under pressure
- New tie or branch into existing line while under pressure
- High pressure wellhead drilling



Proven Performance

- Drive as close to cut as possible – increased speed and stability of cut
- Robust construction
- High pressure variants

ENERPAC

Pipe Cutting and Beveling

Popular Applications

- Pipe cutting and weld preparation
- Pipe repair
- Casing cutting



Proven Performance

- Lightweight robust bearing – easy to handle
- Wide range of sizes to fit application especially in tight access areas
- Wide range of accessories to fit all applications

Orbital Milling

Popular Applications

- Wind turbine blades and towers
- Crane pedestal and thruster flanges
- Excavator slew ring bearing



Proven Performance

- Large precision drive bearing gives stability and accuracy
- High torque rotary drives
- Wind turbine blade hydraulic patented base for production environments

Drilling & Tapping

Popular Applications

- Flange stud removal
- Re-thread damaged holes
- Casing pin drilling – offshore decommissioning



Proven Performance

- Linear guides provide accuracy and rigidity
- High torque drive
- Variable auto feed covers all materials

Linear & Gantry Milling

Popular Applications

- Motor and pump mounting pads
- Head exchanger division slots
- Turbine casing split line repairs



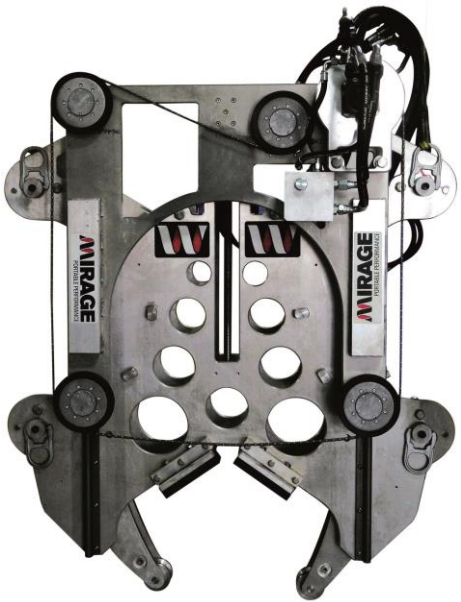
Proven Performance

- Heavy duty accurate construction
- Linear ground guideways provide accuracy through life of the tool
- Ball screw auto feed provides precision

Portable Saws

Popular Applications

- Platform removal
- Casing recovery
- Subsea cutting and decommissioning



Proven Performance

- Efficient cutting through different materials
- Use on surface or subsea

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Line Boring

Popular Applications

- Excavator bucket repair
- Stern tube and rudder stock bearings
- Crane boom pins



Proven Performance

- High torque drives
- Quick efficient set up
- Largest range available

Pumps



Enerpac pumps – hand, battery, electric, air or gasoline – are available in many configurations and power sources designed to meet the high-pressure needs of speed, control, intermittent or heavy-duty use for nearly any application.

Pumps



P-Series
Hand Pumps



XC/ZC-Series
Battery Pumps



E-Pulse/PU-Series
Electric Pumps



PA/XA Series
Air Hydraulic Pumps



ZU/ZE/ZA Series
Electric and Air Pumps



System Components

New Products: Hydraulic Pumps





E-Pulse Electric Pump

- Smart controls enable motor to maintain constant power across the pressure range
- Improved flow characteristics over traditional 0.5 hp pumps
- 24V DC power regulator minimizes effects of poor power supply
- Speed control with dial adjustment for precise operation

ZC Battery Pump

- 82V 4Ah Lithium Ion Battery improves portability and extends run time
- 1.4 hp Brushless DC Motor provides power to drive 3-stage pump for higher flow applications with longer service life and minimal noise and no emissions
- 3-Stage Pump maximizes flow for lower pressure applications

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P-Series Hand Pumps

Popular Applications

- Lifting
- Pulling
- Pressing
- Spreading
- Cutting
- Nut Splitting



Proven Performance

- Available in steel and glass-filled nylon reservoirs for less weight
- Two-speed operation on most models reduces handle strokes by as much as 78% over single speed pumps
- Lower handle effort to minimize operator fatique

ENERPAC

XC, ZC Series Battery Pumps

Popular Applications

- Bolting
- Cutting
- Lifting
- Pressing
- Pulling
- Spreading



Proven Performance

- Perfect for remote locations without access to power
- Flow rates and battery runtime to handle a wide variety of applications efficiently
- Saves users time & money by eliminating need for generators & extensions

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E-Pulse, PU Series Electric Pumps

Popular Applications

- Bolting
- Cutting
- Lifting
- Pressing
- Pulling
- Spreading



Proven Performance

- Lightweight, compact designs ideal for applications which require easy transport
- E-Pulse motor control technology provides faster speed to complete the job
- E-Pulse features adjustable speed control where precision is required

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PA, XA Series Air Pumps

Popular Applications

- Bending
- Clamping
- Lifting
- Pressing
- Pulling
- Punching



Proven Performance

- Rugged construction - built for long life and ease of service
- XA Series has variable oil flow and fine metering for precise control
- PA Series three-position treadle provides cylinder advance, hold and retract operation

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Z Series Electric and Air Pumps

Popular Applications

- Bending
- Lifting
- Nut Torqueing
- Nut Tensioning
- Pressing
- Pulling
- Punching



Proven Performance

- Provide high flow where productivity is paramount
- Heavy duty construction for long life in extreme conditions and high frequency applications
- Programming functionality on Pro Series pumps

System Components

Popular Applications

- Couplers
- Gauges
- Hoses
- Hydraulic Oil
- Manifolds
- Valves



Proven Performance

- Enerpac system components are designed and manufactured to the most exacting standards
- Enerpac has the accessories to compliment your system and ensure the efficient operation, long life, and safety of your hydraulic equipment

Specialty Tools









Safely improve your productivity with the trusted quality and reliability found in Enerpac specialty tools. From cutters and pullers to presses and workholding tools, all are designed to address the specific needs of specialty jobs.

Cutters



Bar



Chain



Wire & Cable



Flat Bar



Decommissioning



Self-Contained



Cutterheads

New Products: Enerpac Cutters



The broad range of hydraulic and mechanical Enerpac cutters eliminate time-consuming and unsafe cutting tasks while minimizing damage to parts through the use of controlled hydraulic power.

Bar Cutter

Popular Applications

- Cutting steel or aluminum round, hexagonal and square bars for industrial applications
- Cutting reinforced steel bar (rebar) for residential and commercial construction



Proven Performance

- Heavy-duty cutting head provides longer operational life
- Double-acting cylinder with advance and retract buttons improves control and reduces jamming
- Safety guard protects from injury

Chain Cutter

Popular Applications

- Perfect for manufacturing, mining, marine and oil & gas industries
- Cutting industrial chains used in load securement, towing, logging and overhead lifting



Proven Performance

- Highly durable blades cut through heavy-duty chain while maintaining effectiveness
- Safety guard protects throughout operation
- Minimal spark risk compared to alternative methods

Wire & Cable Cutter

Popular Applications

- Cutting through heavy-duty electrical and power cables
- Cutting through steel wire rope
- Used in interior cabling and commercial and residential construction



Proven Performance

- Durable, guillotine-style blades maintain effectiveness
- Hinged cutting head opens wide for easy positioning
- Double-acting cylinder with directional control reduces jamming and improves handling

Flat Cutter

Popular Applications

- Cutting metal flat bar
- Used in steel and aluminum fabrication
- Frame work, braces, supports, plates and straps for residential and commercial construction



Proven Performance

- Robust handle enables easy positioning and transport
- Cutter head specially designed to cut wider dimension flat bar
- Piston-release mechanism allows blade to be retracted to reduce jamming

Decommissioning Cutter

Popular Applications

- Structural, facility and building demolition services
- Recycling facilities for scrap metal recovery and automotive recycling
- Metal fabrication and electrical installation and maintenance



Proven Performance

- Control knob immediately stops the tool when released, improving safety
- External hydraulic pump helps keep tool cooler and working longer
- Heavy-duty steel piston/cylinder increase durability

Self-Contained Cutter

Popular Applications

- Cutting cable of low volumes
- Interior cabling and commercial and residential construction
- Wind turbine tendons and towing ropes



Proven Performance

- Rotating heads for operator convenience
- Spring return on all models
- Lightweight, self-contained tools can be used anywhere

Cutterhead

Popular Applications

- Cut steel rope
- Cut heavy duty cable
- Used in commercial, industrial and residential construction



Proven Performance

- Single-acting, spring return on all models
- Guillotine action for efficient operation
- Carrying bag included for easy carrying and tool protection

Presses



Press frames are welded construction for maximum strength and durability, and when combined with the power of high-pressure hydraulics, will provide years of safe and dependable service in your workshop. Available in a wide variety of standard configurations, or “build your own” with the easy-to-use matrix.

Presses



H-Frame



Roll Frame



Arbor



Bench



C-Frame



Custom Built

Pullers



Enerpac pullers provide maintenance crews a safer, faster and synchronized way to remove gears and bearings from shafts. Objects are firmly controlled during the extraction process with the unique cage and locking mechanisms, nearly eliminating the risk of flailing.

Pullers



Lock-Grip Pullers



Sync Grip Pullers



Basic Pullers



Puller Sets

Work holding Tools



Enerpac offers manufacturers a complete range of high-quality Work holding products for building work holding fixtures. From clamping and positioning cylinders, hoses, fittings and control valves, to various types of power units, Enerpac work holding solutions enhance workplace safety, productivity and performance.

ENERPAC

Workholding Tools



Clamps



Work Supports



Linear Cylinders



Collet Lok



Pumps



Valves



System Components



Palletizing Components

ENERPAC

Workholding: Clamps

Popular Applications

- Holds parts on machining or welding fixtures



Proven Performance

- Patent pending simple mount clamp arm attachment design
- Full swing clamp line
- Durable/long life in machining environment

Workholding: Work Supports

Popular Applications

- Supports parts for machining operations
- Prevents part flexing from machining or clamping forces



Proven Performance

- Low lock-up pressure
- Designed for long life in machining environment

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Workholding: Linear Cylinders

Popular Applications

- Part clamping
- Part positioning
- Punching, stamp or pressing operations



Proven Performance

- Wide variety of styles and features
- Designed for long life in machining environment

Workholding: Collet Lok

Popular Applications

- Welding fixtures
- Large machining fixtures
- Safety – especially where long clamping times are required



Proven Performance

- Unique feature uses hydraulics to activate a mechanical locking feature
- Once hydraulically clamped, hydraulics are removed – remains clamped indefinitely with no holding hydraulics

ENERPAC

Workholding: Pumps

Popular Applications

- Provide hydraulic power for workholding devices



Proven Performance

- Wide variety of power units available for every application
- Available in electric, air or manual styles with a wide variety of accessories

Workholding: Valves

Popular Applications

- Controlling the operation of clamping systems
- Manual or automated applications



Proven Performance

- Complete line of valving components
- Manual, electrical and pneumatic control options
- Valves for directional control, flow control, pressure control and specialty valves

ENERPAC

Workholding: System Components

Popular Applications

- Any hydraulic system



Proven Performance

- Required components to complete a hydraulic design
- Includes gauges, pressure switches, couplers and hoses

Workholding: Palletizing Components

Popular Applications

- Palletized fixtures
- Manual or automated coupler systems
- Rotary or continuous connection systems



Proven Performance

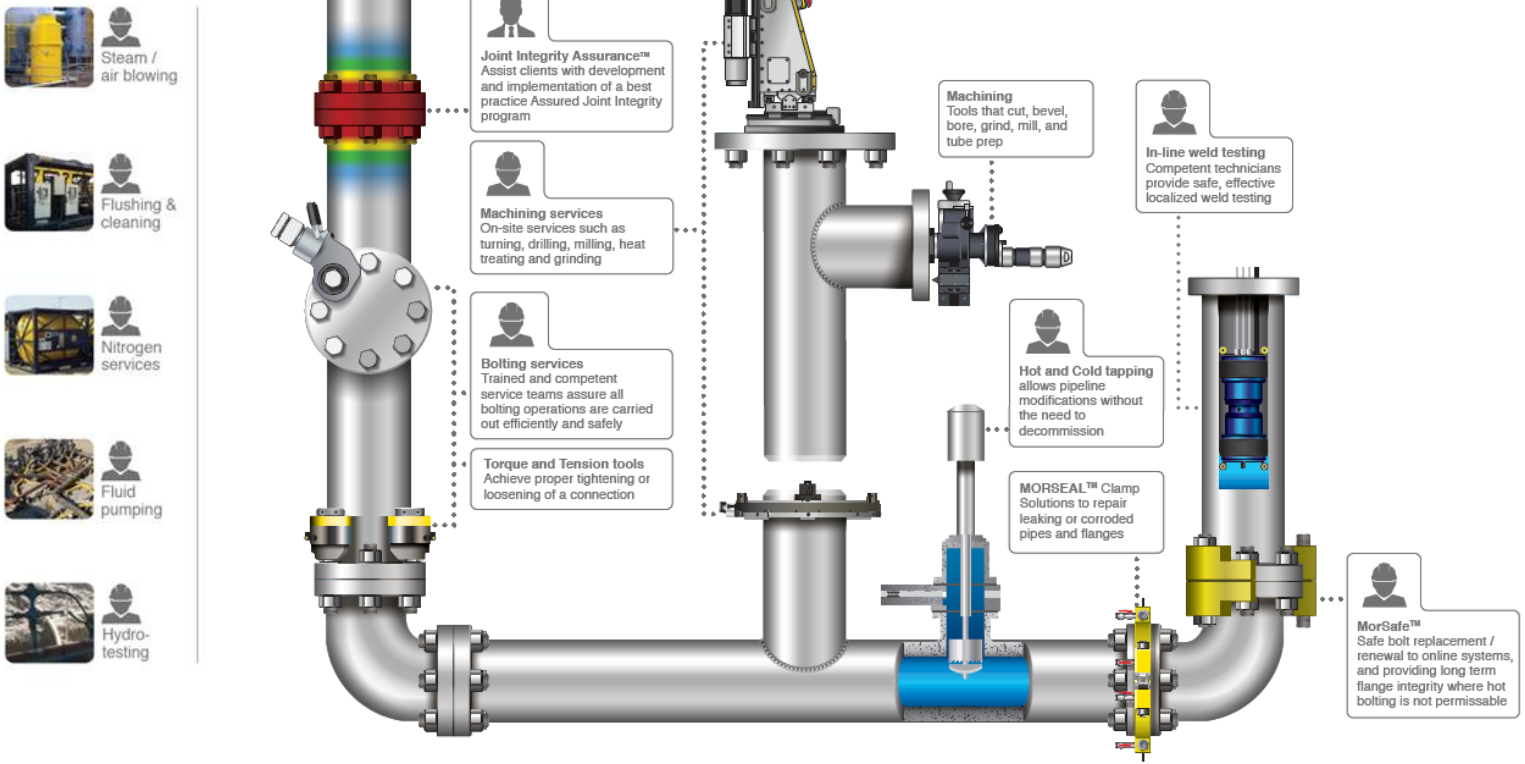
- Complete line of coupling solutions
- Designed for long life in machining environment

Hydratight Services



Hydratight on-site services and specialized solutions deliver unrivalled levels of safety, reliability and performance. We have provided qualified manpower, engineering and equipment at your location on your assets for over 35 years, with an unbeatable track record in Integrity Assurance.

Hydratight Services



ENERPAC

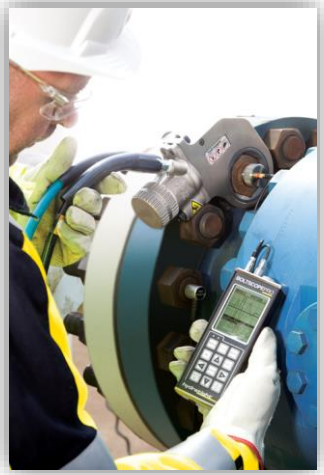
Core & Specialty Services



Machining



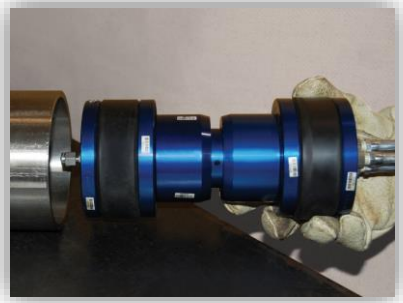
Hot Bolting



Controlled Bolting



Leak Sealing



Weld Testing

Process & Pipeline Services



Steam & Air Blowing Services



Flushing & Cleaning Services



Nitrogen Services



Fluid Pumping Services



Filtration Services



Pigging & Testing Services



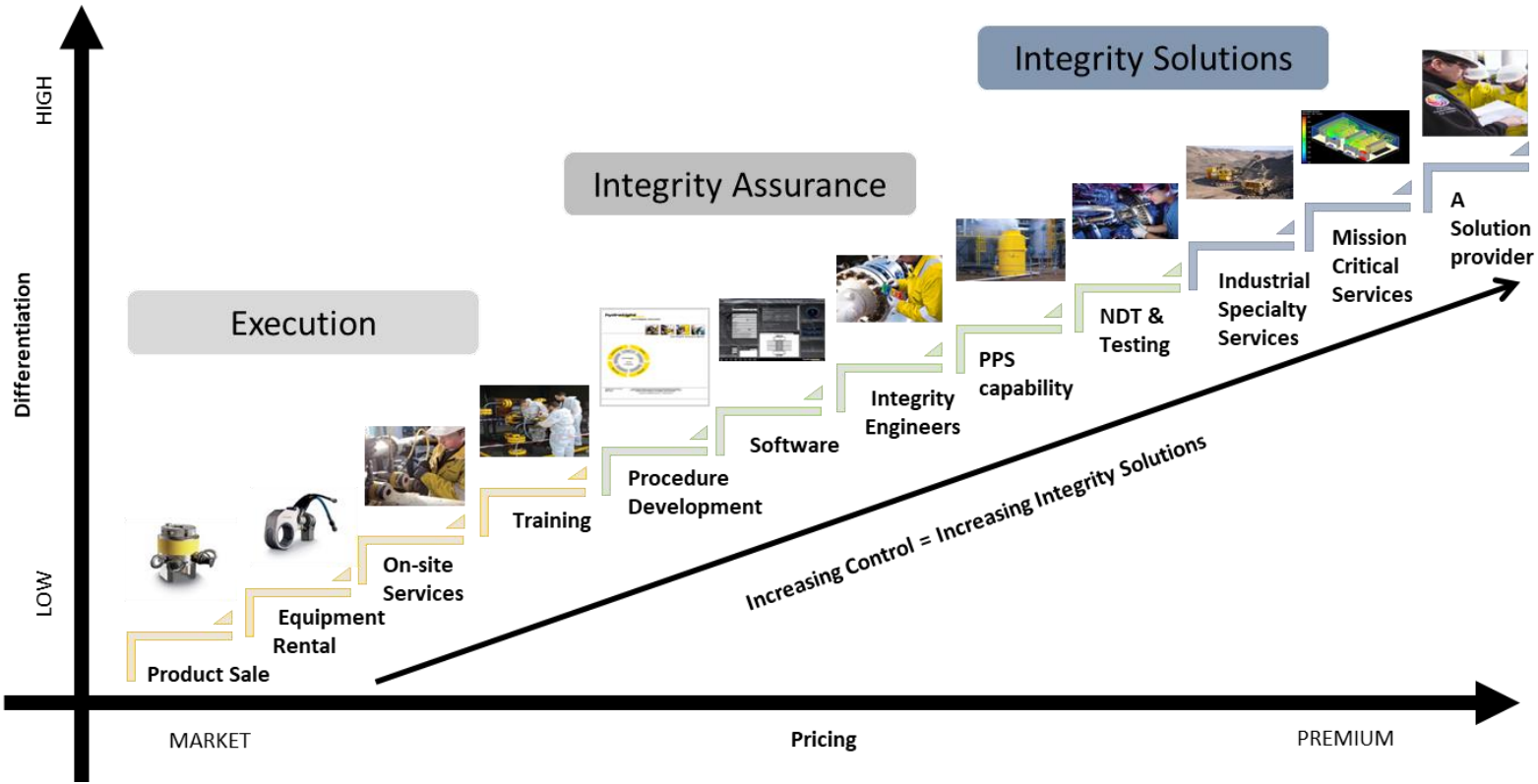
Hydro-Milling Services



Degassing and Decontamination Services

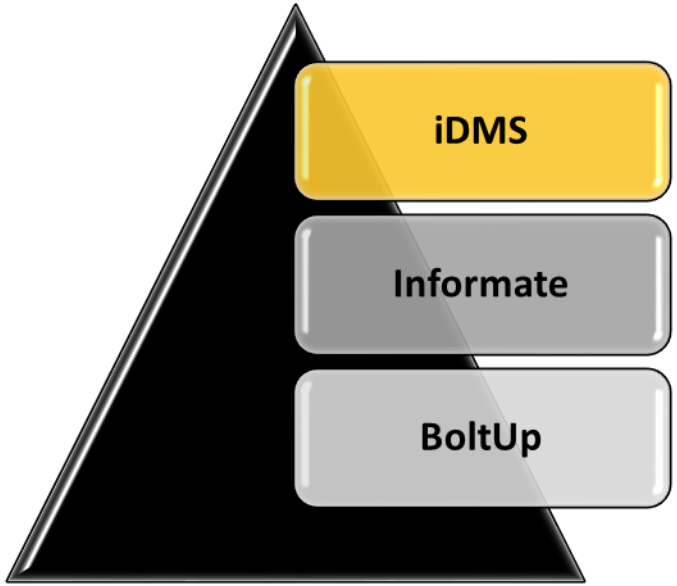
ENERPAC

Evolution of Services



ENERPAC

Integrity Software



iDMS

Integrity Assurance and Flange Management software. Integrated with Informate calculation engine.

informate

Desktop or online bolted joint calculator, advanced features, large material database.

BoltUp

Free online bolted calculator, limited features, limited materials

ENERPAC

Informate Bolting Calculator

INPUTS

Standard Flanges
- ASME B16.5
- API 6A & 17D
- NORSOK L005

Large Material Database
- 400+ Flange Materials
- 200+ Bolt Materials
- 70+ Gasket Materials
- 30+ Lubricants

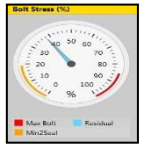
Engineered joint – single bolt calculations

4 Bolt Hub Connectors (clamps)
- 5 manufacturers
- All available material combinations



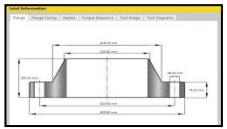
OUTPUTS

Simple visualisations of calculation results.



Output options including datasheets, excel based outputs and joint completion certificates

Dimensioned drawings and torque sequences



ENERPAC

IDMS Integrity Software

INPUTS

Blind Lists

Piping Specifications

Drawings

Procedures

Onsite Inspection

Flange Tracking

Leak testing

Day to Day Flange Disturbances.

Ongoing addition of Flanges into iDMS.

Modifications / Additions to plant



OUTPUTS

Joint Data Sheets

Tags

Inspection Sheets

BoM

Marked Up Drawings

Equipment Lists

Manpower Estimations

Shutdown Progress Charts

MCC Reports

PSSR Reports

Remedial Works Lists

Colour Coded Joint Status' on Drawings

Joint Completion Certificates

Leak Repair.

System / Unit Handover Report.

Trend Analysis.

Review of Defects or Inspection Failures.

Shutdown Review.



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Markets

- Aerospace
- Manufacturing
- Infrastructure
- Oil & Gas
- Mining
- Power Generation

Aerospace



Turbine Engine Assembly & MRO



Aircraft Component Manufacturing



Ground Support



Repair & Calibration

Enerpac is a leader in providing specialized tools for the high-technology manufacturing, assembly and maintenance of critical components for commercial and military aircraft.

Turbine Engine Assembly & MRO



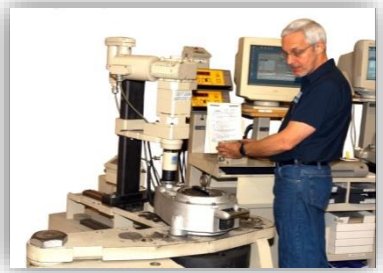
Engine Transportation / Maintenance Stand Lifting



Turbine Engine Bearing Torque



Engine Mount Bolt Torque



Aftermarket Repair & Calibration



Coupling Nut Torque for Turbine/Compressor Sections



OEM Tooling



Turbine Engine Turning Tool for Borescope Inspection

ENERPAC

Manufacturing, Ground Support and Maintenance



Small Engine Stands



Aircraft maintenance with Pumps and Cylinders



Propeller Handling Tools C-130



Helicopter Tower Hoist Rotor Maintenance



Jacks for Wheel Replacement



Bearing Removal on NASA's Transporter



Component Manufacturing



Aircraft Spar Manufacturing

Infrastructure



Roads & Bridges



Buildings & Stadiums



Ports & Waterways



Mass Transit

For those who do the heavy lifting today, the stakes are higher and the challenges more complex. From the very first discussion about your application, you'll find that Enerpac has the people, products and expertise to support your success in any infrastructure project.

ENERPAC

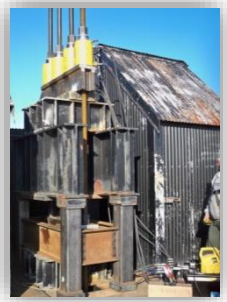
Roads & Bridges



Bridge Construction
Jack-up System



Stand Tensioning
Hollow Cylinder with Pump



Lift Bridge Counterweight Maintenance



Hydraulics for Bridge Construction Equipment



Bridge Construction
Strand Jacks



Bridge Girder Placement
Synchoist System



Bridge Construction
Hydraulic Gantry



Bearing Replacement
Locknut Cylinders

Buildings & Stadiums



Modular Building
Strand Jacks



Load Transfer
Synchlift System



Foundation Repair
Synchlift and Cylinders



Roof Truss Erection
Synchoist System



Stadium Roof Placement
Skidding System



Pile Testing
High Tonnage Cylinders



Roof Construction
Synchoist System



Retractable Roof Maintenance
Locknut Cylinders

ENERPAC

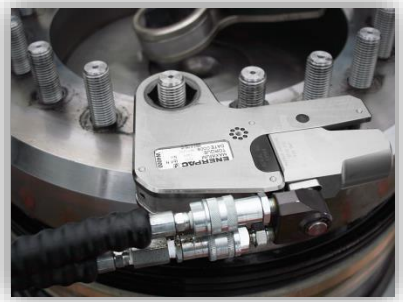
Ports & Waterways



Lifting Port Cranes
Jack-up System



Lock Gate Maintenance
Synchlift System



Surge Barrier Sluice Gate
Torque Wrench



Harbor Construction
Slip Form Hydraulics



Caisson Construction
Skidding System



Caisson Lowering
Synchoist System & Cylinders



Boardwalk Construction
Synchoist System

ENERPAC

Mass Transit



Rail Bridge Replacement
Hydraulic Gantry



Railcar Decommissioning
Hydraulic Gantry



Lowering TBM Subway Expansion
Hydraulic Gantry



Torqueing Crab Bolts on EMD
ETW Torque Wrench



Aircraft Maintenance
Cylinders & Pumps



Shipbuilding
Synchoist System



Rail Car Maintenance Synchlift and Locknut Cylinders

ENERPAC

Mining



Oil & Gas



Metals



Non Metals



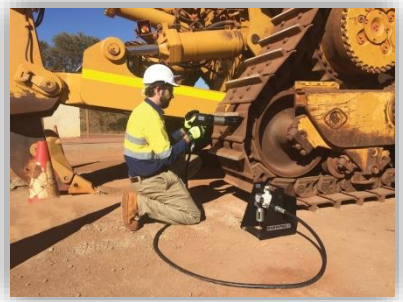
Minerals

Enerpac has decades of experience in providing the right tools for mining applications, supported by a worldwide network of distributors. The easy-to-use industrial tools deliver safe, reliable and dependable performance.

Surface Mining



Ball Mill Installation
Strand Jacks



Dozer Track Adjustment
Pneumatic Torque Wrenches



Haul Truck Maintenance
Pow'R-LOCK/Pow'R-RISER



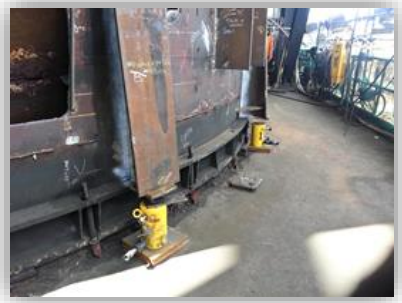
Dragline Maintenance
Synchronous Lifting Systems



Crusher Maintenance
Hydraulic Cylinders



Front Strut Repair
Hydraulic Torque Wrench



Refinery Overhaul
Hydraulic Cylinders & Pumps



Conveyor Maintenance
Battery Hydraulic Pump

ENERPAC

Underground Mining



Mine Conveyor Maintenance
Hydraulic Pull Cylinders



Cart Lift
Toe Jack Cylinder & Hand Pump



Rail Alignment
Hydraulic Cylinder & Hand Pump



Roof Bolting
Hydraulic Air Pump



Longwall Shearer Maintenance
Hydraulic Hollow Cylinder



Mine Loader Overhaul
Hydraulic Torque Wrenches



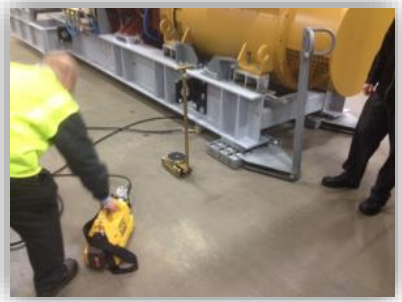
Mine Vehicle Lift
Low Height Air Jack



Shearer Drum Maintenance
Roof Supports

ENERPAC

Manufacturing



Primary Metals



Machinery



Transportation Equipment



Fabricated Metal Products

Enerpac offers the broadest line of hydraulic tools for the most demanding manufacturing environments. From hydraulic presses, workholding tools, cylinders and more, find the quality you need for your manufacturing process or maintenance of your equipment and facility.

ENERPAC

Oil & Gas



Upstream



Downstream



Midstream



LNG

From upstream to downstream, offshore to onshore and topside to subsea, our product and service expertise support a multitude of oil and gas projects around the globe.

Power Generation



Fossil Fuel



Wind



Nuclear



Hydro

From bolting, flange and machining tools to heavy lifting technology and on-site services, Enerpac has the application expertise to meet the installation, maintenance or decommissioning needs of nearly any type of power generation station.

Fossil Fuel



Gas Turbines



Steam Turbines



Generators



HRSG

Popular Applications

- Torqueing for separation of GE frame rotors
- Bolting kits for installation and service
- Machining for GT casing repair
- Cylinders & Jacks for lifting cases & generators
- Gantries, Skidding and Synchronous lifting systems for heavy equipment installation & removal

Wind Power



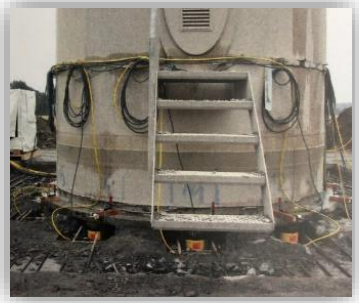
Ensure Joint Integrity
Bolt Tensioners



Easily Align Bolt Holes
Wind Flange Alignment Tool



Perform 10% Bolt Checks
Low-profile Torque Wrenches



Low Clearance Lifting
Low Height Cylinders



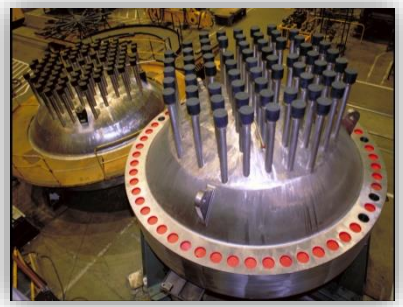
Safely Cut Wind Tower Foundations
Diamond Wire Saws



Precisely Lift & Move Tower Sections
Trolley Systems

ENERPAC

Nuclear



Pressurized Water Reactor (PWR)



Boiling Water Reactors (BWR)



Generators



Cooling Systems

Popular Applications

- Reactor pressure vessel open/closure systems for refueling operations
- Lifting systems for safe installation & removal of primary manways on generators
- Multi-stud tensioning systems for generator manways removal
- Gantry systems for fuel removal
- EDM services for pipework repair
- Specialized nuclear machining services

Hydro



Hydroelectric Turbine



Hydro Generators



Hydro Inlet Valve



Hydro Outlet Valves

Popular Applications

- Flange alignment tools for valve maintenance and pipe work replacement
- Bolting kits for turbine repairs and overhaul activity
- Specialized machining services for valve corrosion related repairs – Boring Bar and geniSYS applications for high tolerance

ENERPAC®

THE RIGHT TOOL
MAKES ALL THE DIFFERENCE

NEVER COMPROMISE