

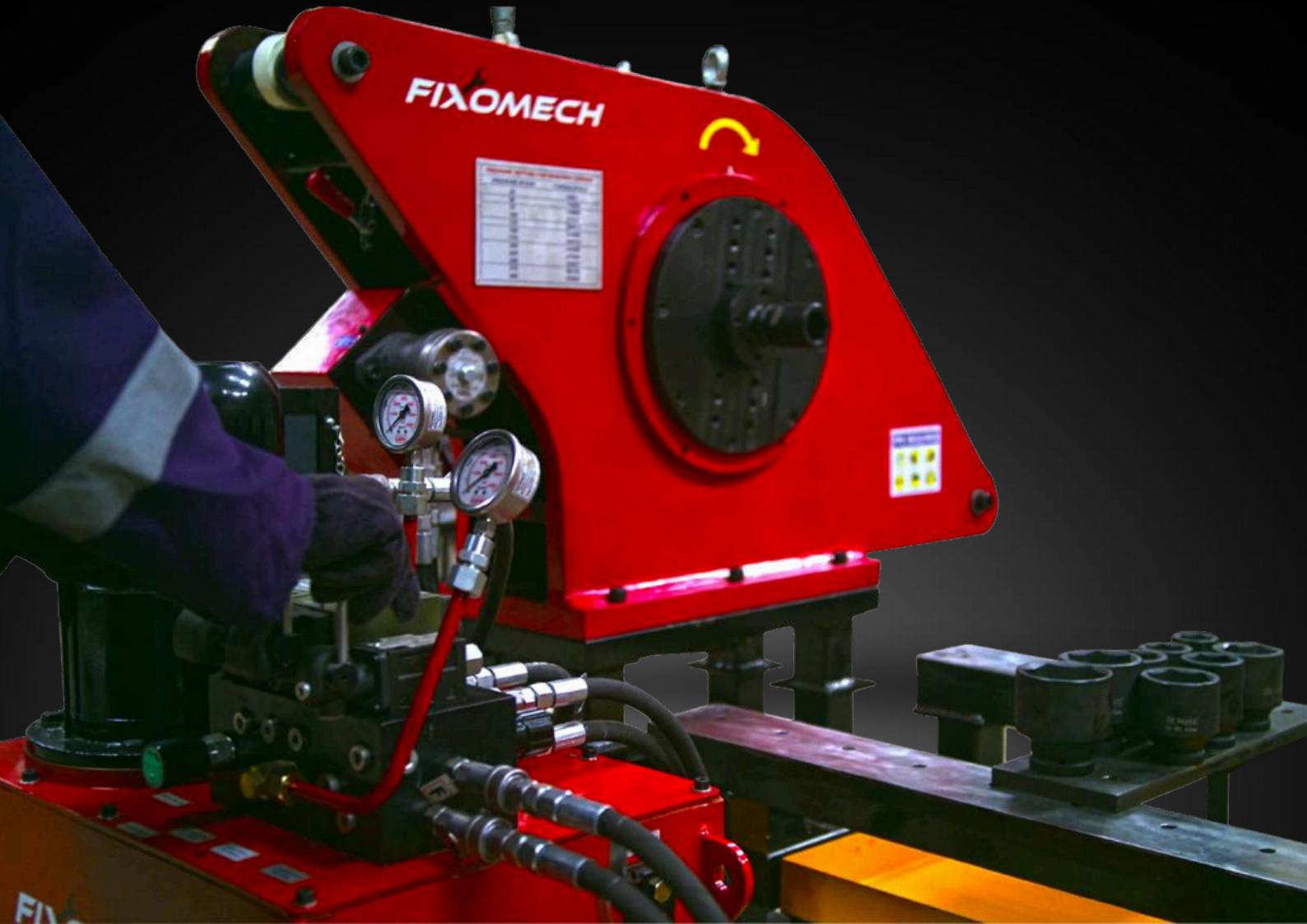


PIONEER MAC

Machinery Tooling Supplier

Saudi-Built, Globally Trusted.

**Powering Precision in
Heavy Equipment Tooling**





PIONEERMAC
Machinery Tooling Supplier

Pioneer Mac – Your Partner in Advanced Maintenance & Rebuild Tooling

Pioneer Mac is a Saudi-born, globally trusted company specializing in maintenance and rebuild tooling for heavy equipment and off-road machinery. With a focus on innovation, safety, and reliability, we serve world-leading brands like Caterpillar, Komatsu, Volvo, JCB, Perkins, Cummins, and Hitachi.

Our flagship Hydraulic Cylinder Repair Bench (F-CRTH-65) redefines industry standards in speed and operator safety. Backed by ISO 9001 certification, we continue to deliver solutions that power industries worldwide—from mining and oil & gas to construction, steel, and automotive engineering.

Industries We Serve

Pioneer Mac proudly supports key sectors



Construction



Steel Industry



Oil & Gas



Auto Engineering



Cement



Petro Chemical





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Why Choose Pioneer Mac?

Trusted by Global Brands

Partnering with leading OEMs and dealer networks such as Caterpillar, Komatsu, Volvo, Perkins, JCB, Cummins, and Hitachi.

Innovation & Safety First

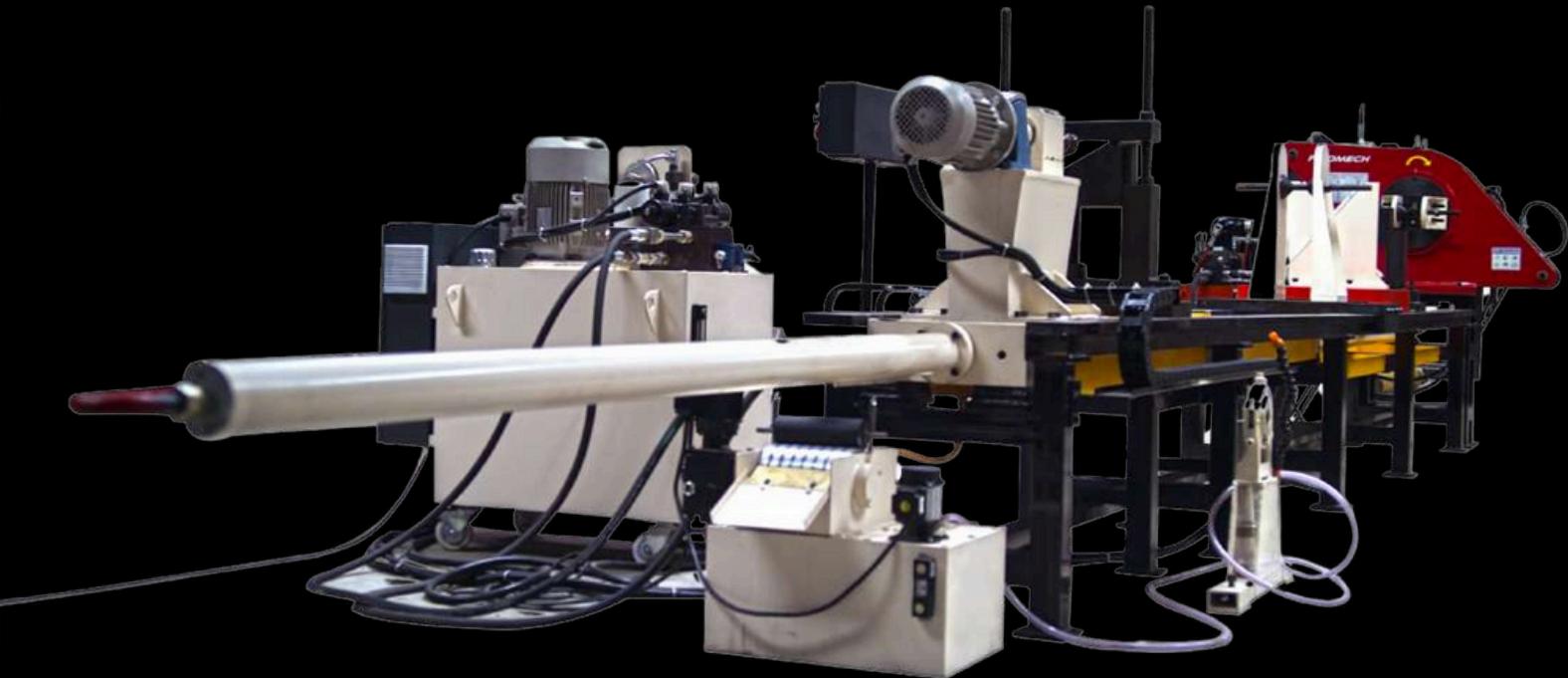
In-house R&D delivering solutions like the Hydraulic Cylinder Repair Bench (F-CRTH-65), engineered for superior safety, speed, and reliability.

Certified Quality

Commitment to international standards with ISO 9001 certification, ensuring excellence across products and services.

Global Reach, Local Support

Serving clients in 15+ countries with 500+ partners and 24/7 customer support availability.





Hydraulic Jacks — Heavy-Duty Lifting Tools

The Fixomech Hydraulic Jacks and Cylinders product line includes robust, industrial-grade lifting tools engineered for lifting, positioning, and servicing large-scale equipment and machinery.

Industrial strength you can rely on – rugged construction handles challenging lifting tasks

Precision under pressure – optimized for safe positioning and alignment of large components

Wide-ranging versatility – suitable across various industrial, maintenance, and construction settings

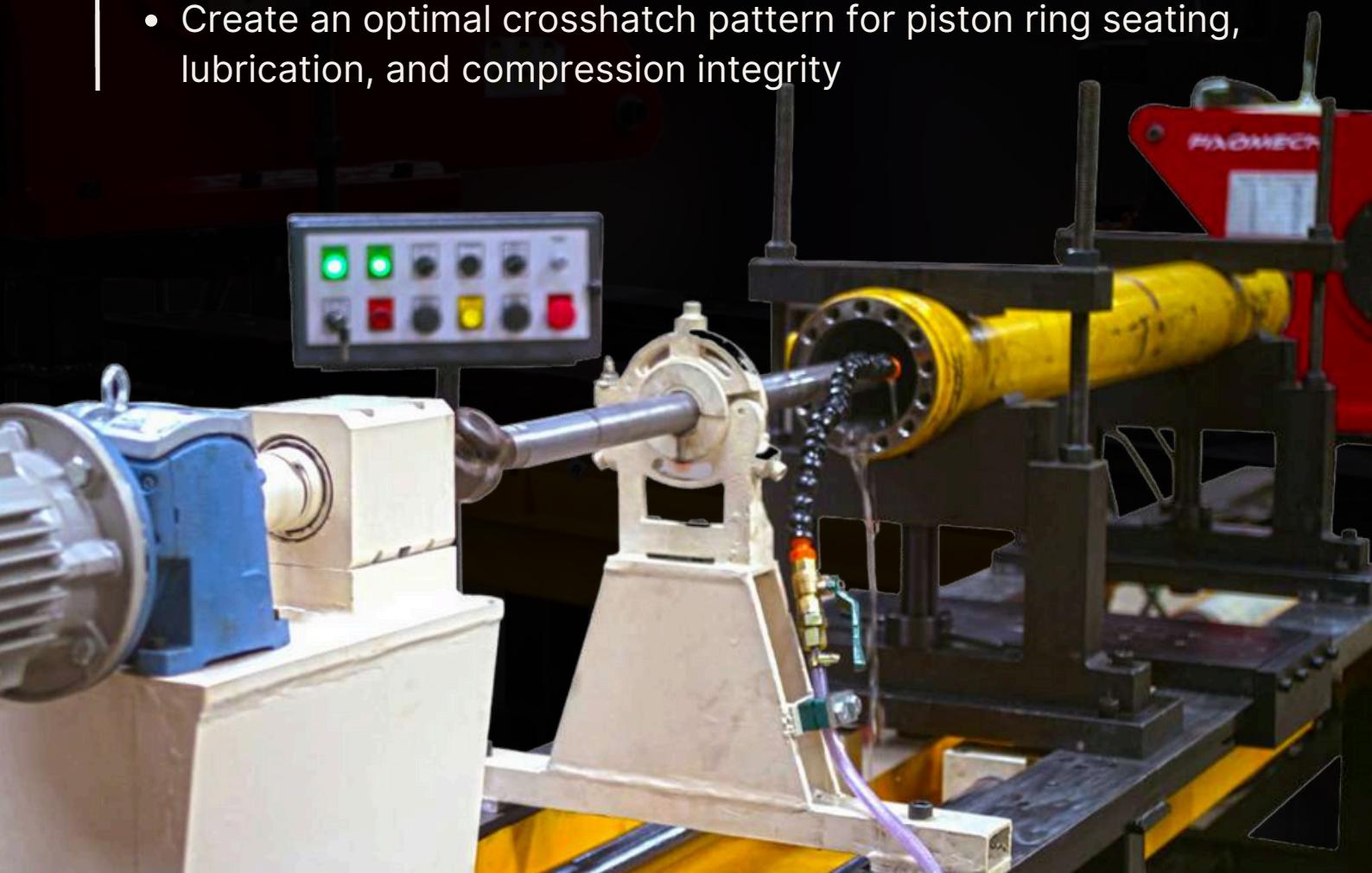


Cylinder Honing Station — Precision Resurfacing Tool

The Cylinder Honing Station by Fixomech is a specialized resurfacing tool built for hydraulic shops that demand accuracy, efficiency, and reliability in heavy-duty maintenance workflows.

Cylinder honing refines the interior surfaces of hydraulic or engine cylinders using abrasive stones to:

- Remove glazing, imperfections, or wear
- Restore bore geometry and surface finish
- Create an optimal crosshatch pattern for piston ring seating, lubrication, and compression integrity



Fixomech Nut Buster — Precision Dissassembly Tool

The **Fixomech Nut Buster** is a compact yet powerful tool purpose-built for dismantling and tightening piston nuts and cylinder glands. It combines precision with portability, making it ideal for workshop or field use.

Ideal For

- Maintenance and rebuild operations involving hydraulic cylinder.
- Ensuring secure disassembly and reassembly of piston nuts and gland assemblies

#Robust performance

#Ultra-compact design





Master Pin Pusher – Smaller Tracks

Precision removal and installation for pin diameters 18 mm – 36.3 mm

HEMS portable Master Pin Pushers (HEPP series) are engineered for safe, field-ready removal and installation of track pins, master pins, bushings, and master bushings—even in tight work environments. Each unit is a complete package, including all necessary pin sets, tooling, and attachments.

HEPP-30 M (Manual) / HEPP-30 E (Electric)

- Capacity: 30 ton
- Stroke: 200 mm
- Tooling covers pin diameters from 18 mm to 36.2 mm (5 sets)



HEPP-30

HEPP-50 M (Manual) / HEPP-50 E (Electric)

- Capacity: 50 ton
- Stroke: 250 mm
- Tooling covers pin diameters 19.3 mm to 36.3 mm (4 sets)



HEPP-30E

HEPP-50 M





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HEAVY EQUIPMENT MAINTENANCE SOLUTIONS

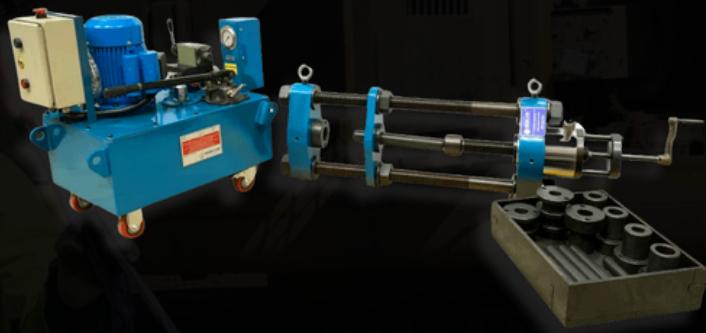


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Master Pin Pusher – Medium Tracks

Efficient, mid-sized tooling for 19.3 mm – 70 mm pin diameters

The Medium Track range of HEMS Master Pin Pushers enables disassembly/reassembly of track chains, driving wheels, pulleys, and more—optimizing uptime and safety. All variants are equipped with universal tooling sets suitable for a variety of OEM configurations.

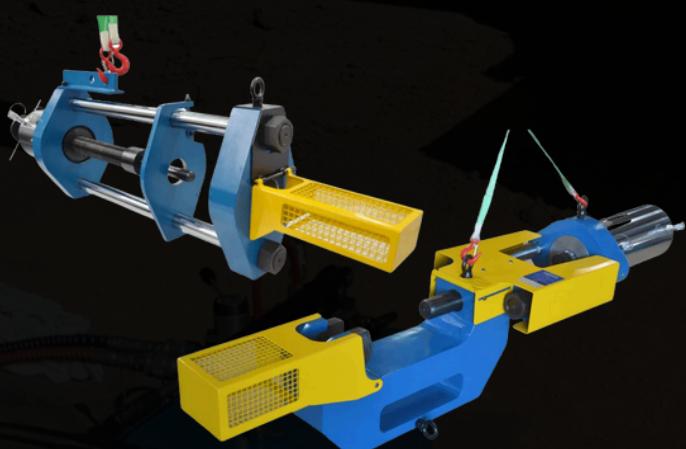


HEPP-65 includes 6 tooling sets to cover 30.1 mm to 52.3 mm diameter pins

HEPP-100 includes 10 tooling sets for 19.3 mm to 60.2 mm diameter pins



HEPP-150 includes 12 tooling sets for 23.7 mm to 70.0 mm diameter pins





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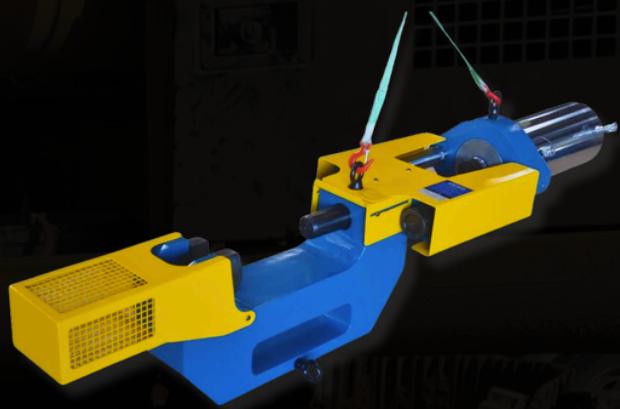
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Master Pin Pushers – Larger Tracks by HEMS

Heavy-duty solutions for 22.0 mm – 85 mm pin diameters

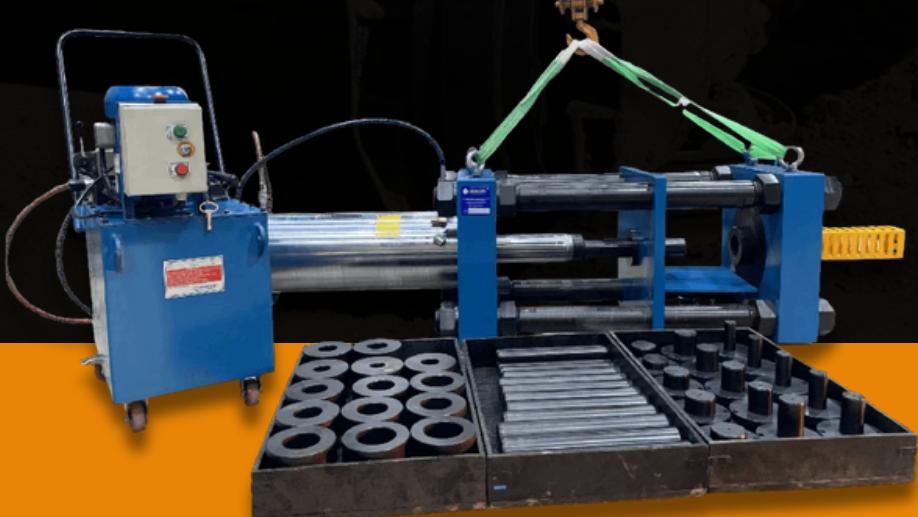
The HEPP-200, HEPP-230, and HEPP-300 Master Pin Pushers are engineered for large track systems, delivering precision, safety, and speed in both workshop and field environments. Offered as full kits, each includes complete tooling sets and attachments for seamless, efficient operation.

HEPP-200 offers both manual and electric configurations with extensive tooling versatility.



HEPP-230 provides robust electric-only performance, ideal for deeper pin operations.

HEPP-300 delivers maximum lifting and pin coverage capacity, tailored for the largest and most demanding applications.





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Undercarriage Repair Tools

Maximize the life and performance of your machine's undercarriage.

HEMS undercarriage tooling allows you to reposition, rebuild, and repair critical parts such as track links, rollers, idlers, and sprockets —adding up to 50% extra life to worn tracks.

Track Press

Rigorous testing ensures performance under high volumes; built for continuous use.

Facilitates safe assembly/disassembly of chains up to 325 mm pitch

Models include HEM-UC 200T, 300T, 400T, 500T with specs like:

- Capacities: 100–250 Ton
- Press daylight: up to 800–900 mm
- Stroke: 150 mm
- Working pressure: ~380–400 bar





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Undercarriage Repair Tools

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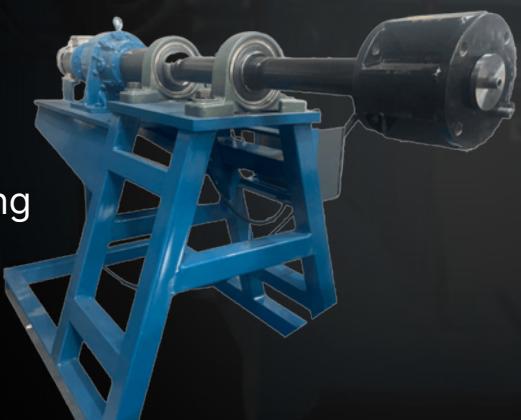
Hydraulic Torque Wrench

- Provides precise torque for bolts in undercarriage rebuilds
- Integrated power pack and compact design for field or shop use



Track Winder

- Tool to wind or tension track chains during assembly
- Helps speed up workflow and maintain correct tension during rebuilds



Roller Conveyor System

- Facilitates smooth movement and handling of track components in workshop
- Improves ergonomics, safety, and efficiency during undercarriage repairs



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Undercarriage Repair Tools

Maximize the life and performance of your machine's undercarriage.

Hydraulic Pin Puller

- Designed for precise, hands-free removal of pins and bushings
- Kits include one of: two-stage hand pump, hydraulic power pack, or solenoid-operated directional control valve
- Key safety features: spring-balancer, aluminum alloy body, hands-free operation options

Sample specs:

- **HE PP 30/50:** max pin Ø up to 38 mm (30T) / 55 mm (50T)
- **HE PP 100, 150, 200 models:** with larger bore & ram diameters and greater pin removal capacities



Undercarriage Repair Tools

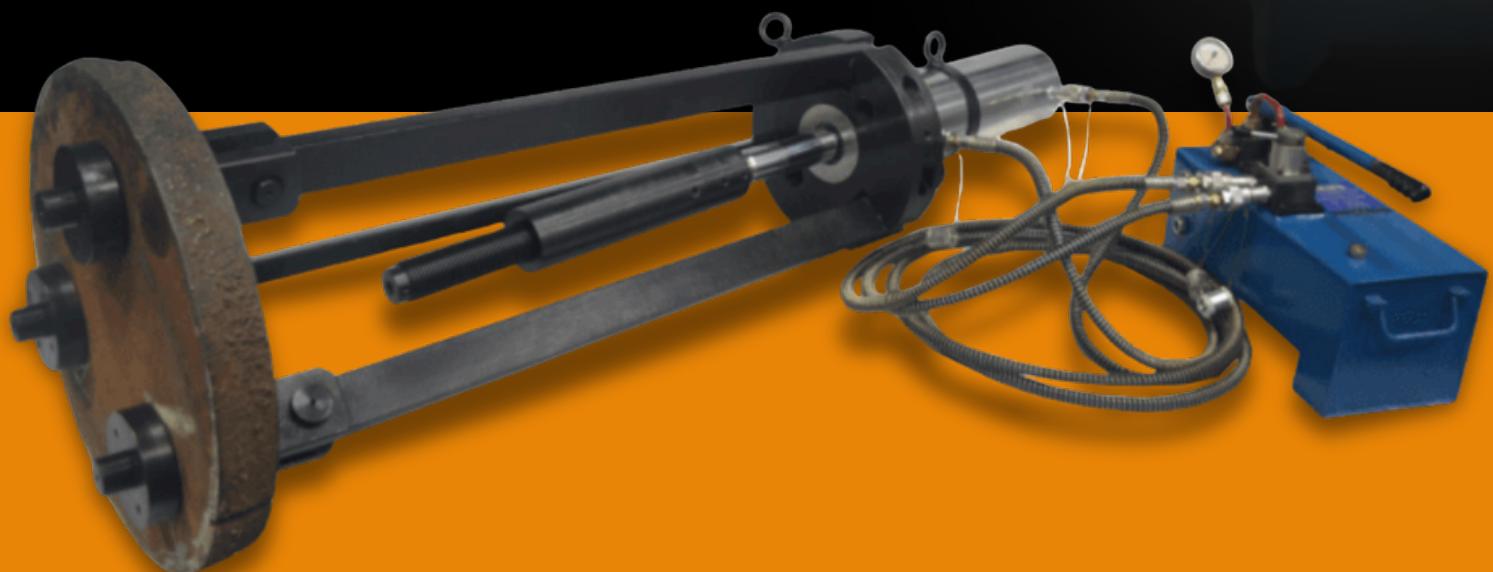
Maximize the life and performance of your machine's undercarriage.

Sprocket Puller

- HE-SP 100T is a portable hydraulic tool for safe removal of sprockets from undercarriage systems
- Uses a 3-jaw design which bolts to the sprocket, combined with a threaded bar and ram to pull the sprocket cleanly without damage
- Available in Manual or Dual-control (manual + electric) versions

Sample specs (HE-SP 100T):

- Capacity: 100 ton
- Stroke, closed height, arm length, cylinder dimensions, effective area, weight, etc.



Undercarriage Repair Tools

Maximize the life and performance of your machine's undercarriage.

Dual Action Press (DAP / HE-DAP series)

- A press with dual-direction action capability—i.e. pushing and pulling functions in one machine
- Useful for tasks like pressing bushings, sleeves, or components both ways in undercarriage service
- Integrated into HEMS' undercarriage repairs line as a versatile tool

HE-DAP 65T/E



HE-DAP 65T/M





Portable Hydraulic Tester — HE-PHT 415

Bring the Test to the Cylinder, Not the Other Way Around

The HEMS HE-PHT 415 is a mobile hydraulic cylinder tester engineered for field and workshop use. With wheels for portability and a built-in compressor for post-test evacuation, it enables you to perform full diagnostics right at the site.

Key Features:

- Mobile unit for ease of access in the workshop environment.
- Control by a touch-screen display.
- Test hydraulic cylinders with up to 6000 psi (415 bar) pressure.
- Operate in manual or semi-automatic mode.
- Save reports digitally via USB stick.



HEMS Tyre Press

Heavy-Duty Workshop Press for Industrial Tyres

The HEMS HTP Tyre Press range is designed for busy workshops and tyre service depots, engineered to handle a broad spectrum of tyre sizes — from small pallet truck tyres to heavy industrial tyres for lifting trucks and machinery.

Benefits & Use Cases:

- Enables safe and efficient mounting / dismounting of solid tyres on heavy machinery
- Broad capacity ensures almost any solid tyre (industrial, lifting trucks, heavy equipment) can be serviced
- Optional extra tooling sets available to adapt to various tyre rim profiles and sizes
- Ideal for tyre workshops wanting to expand their service offering to larger and more challenging tyre jobs



HEMS Heavy-Duty Portable Lifting Jack

Lift Heavy with Confidence — 100T Portable Jack

The HEMS Lifting Jack is a compact, powerful tool capable of vertically lifting loads up to 100 tons. It is designed for rugged environments and heavy equipment maintenance tasks.

Key Features & Highlights

- Capacity: Up to 100 tons vertical lift.
- Portable & compact: Easy to transport, with a welded steel chassis and just ~3" ground clearance for rough environments.
- Simple controls: Only three controls — Up, Hold, Down — for ease of use.
- Power options: Standard electric pump, with optional pneumatic/air-operated pump available.
- Stroke extension: Additional accessories to increase stroke capacity for varied applications.



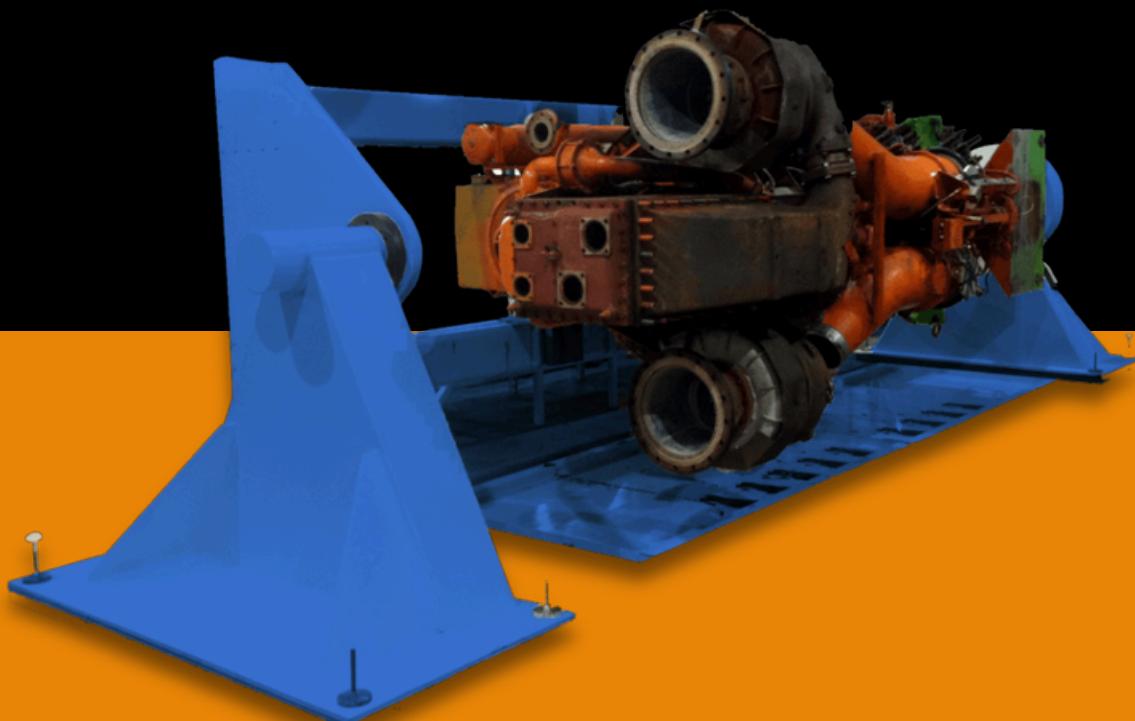
HEMS Engine & Transmission Repair Stands

Spin, Service, Simplify – Engine Work Redefined

HEMS supplies rotation-capable engine and transmission repair stands, complete with adapter plates for current engine models. These stands significantly improve manoeuvrability and reduce labor time by up to 50 %, while complying with safety standards.

Key Features & Highlights

- Increased manoeuvrability
- Cuts down repair time
- Reduces risk of workplace injury
- Time saving on labour increases profitability
- Complies with all current working practices
- Complies with all safety regs
- From 759kgs up to 20,000kgs
- Suitable for new build, repair and refurbishment operations





Workshop Presses (Vertical / H-Frame Presses)

From Bearings to Gears — One Press Does It All

From bearing mounting to gear fitting, HEMS workshop presses are designed to deliver robust, reliable force for general shop tasks. Their vertical press structures offer versatile use across many maintenance operations.

Benefits / Why Use HEMS Workshop Presses

- Central shop tool for component assembly / disassembly
- Reduces manual labor and risk compared to brute force methods
- Reusable across multiple machine types / tasks
- Durable and built for continuous shop use





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HEMS Oil Filtration Units — Clean Oil, Long Life

From Bearings to Gears — One Press Does It All

HEMS' oil filtration systems deliver superfine contaminant filtration and advanced dehydration to maintain fluid purity, which in turn protects your machinery and extends service intervals.

HE-MF-15 provides a compact yet powerful filtration unit for lubricating or hydraulic oil use.



HE-MF-40 comes with a high accumulation power filtering unit, electric pump with 40Lt/min flow rate and filter to protect the pump.



HE-MF-20 offers higher capacity model with enhanced dehydration and multi-stage filtration capabilities.



Stationary Hydraulic Cylinder Repair Benches

Heavy-duty benches for fast, safe, and precise cylinder repairs

HEMS offers the most comprehensive range of static repair benches in the market today. All benches come complete with accessories, enabling immediate start of repairs. With skilled operation, even the largest cylinders can be disassembled, repaired, and reassembled in under an hour.

Models & Capacity Highlights

- HCS-25-LS — 25,000 lb·ft torque; supports cylinder lengths up to 5.8 m; diameter up to 406.4 mm.
- HCS-2520 — same torque, extended support: up to 7.9 m length; diameter up to 558.8 mm.
- HCS-30 / HCS-40 / HCS-60 / HCS-60-L — higher torque, larger dimensions, double-acting capabilities.



Automatic / Digital Testers

Smart, automated systems ensuring repaired cylinders meet OEM standards.

HEMS provides Automatic Hydraulic Cylinder Testers including automatic digital units and portable testers. These testers validate repaired cylinders via programmable cycles, ensuring integrity before reinstallation.

Benefits

- Guarantees cylinder performance post-repair
- Reduces human error and improves testing consistency
- Enables traceability and data documentation for quality assurance in repairs



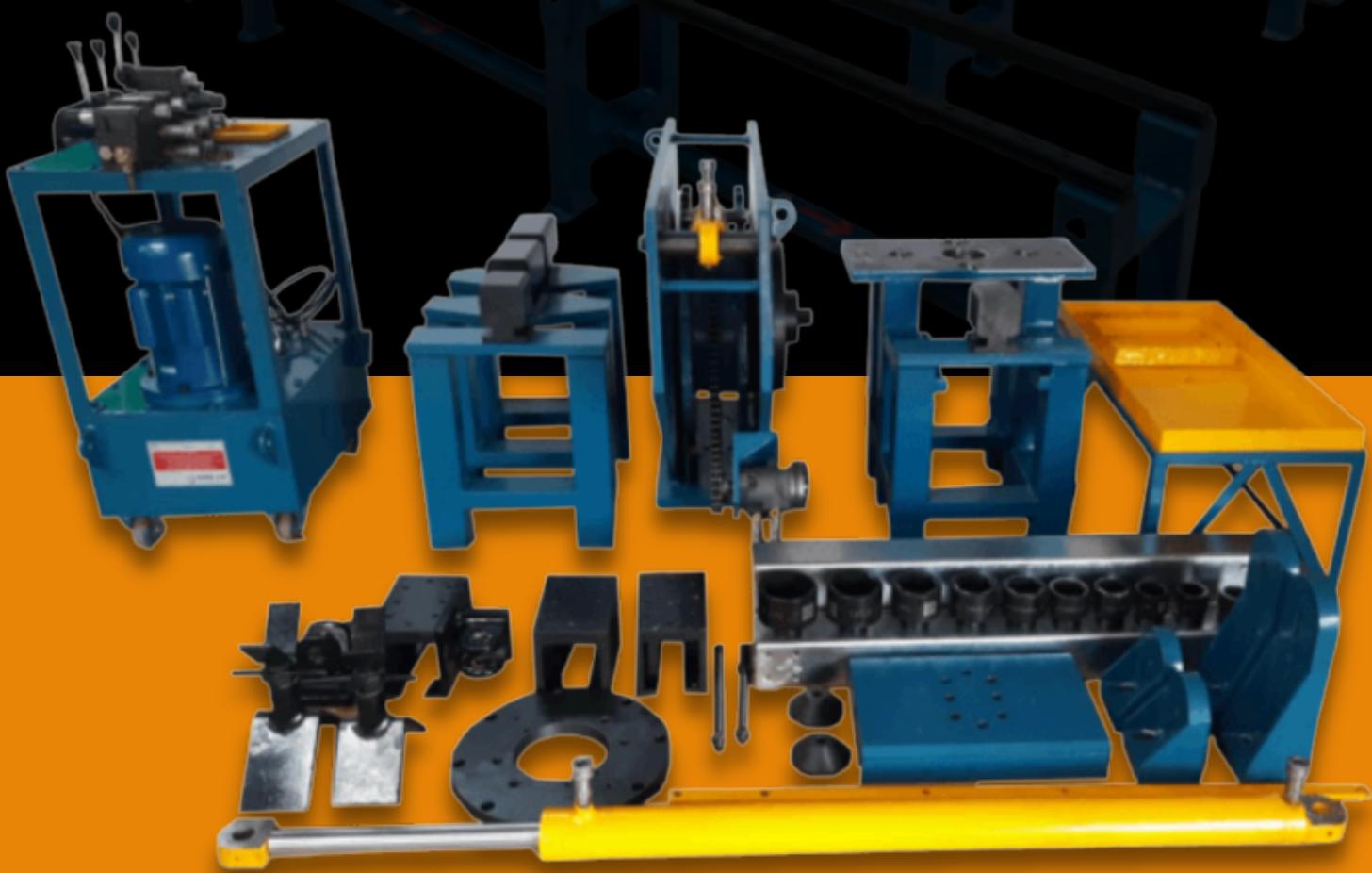
Portable Kits (PCRB-4000)

Lightweight, mobile repair kit for on-site and workshop flexibility.

The PCRB-4000 is a lightweight, portable repair kit designed for field and workshop use. It is not a heavy-duty bench replacement but provides flexibility and convenience.

Capabilities & Specs

- Cylinder extraction length: up to 1.0 m standard; with extended forks up to 3.0 m
- Maximum barrel diameter: 200 mm
- Load capacity: 1 ton





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We are dedicated to delivering innovative solutions that drive success for our clients. With a global presence and a commitment to excellence, we're leading the way in cutting-edge technology and customer satisfaction.

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