

MICRON TECHNOLOGIES

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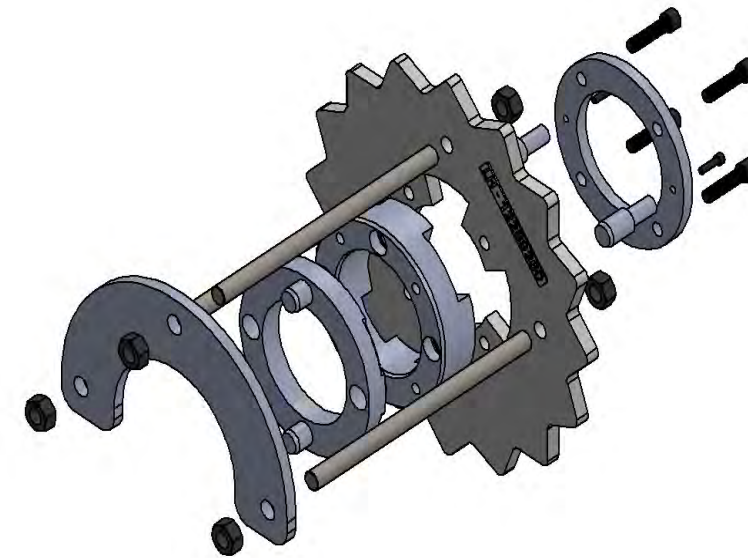
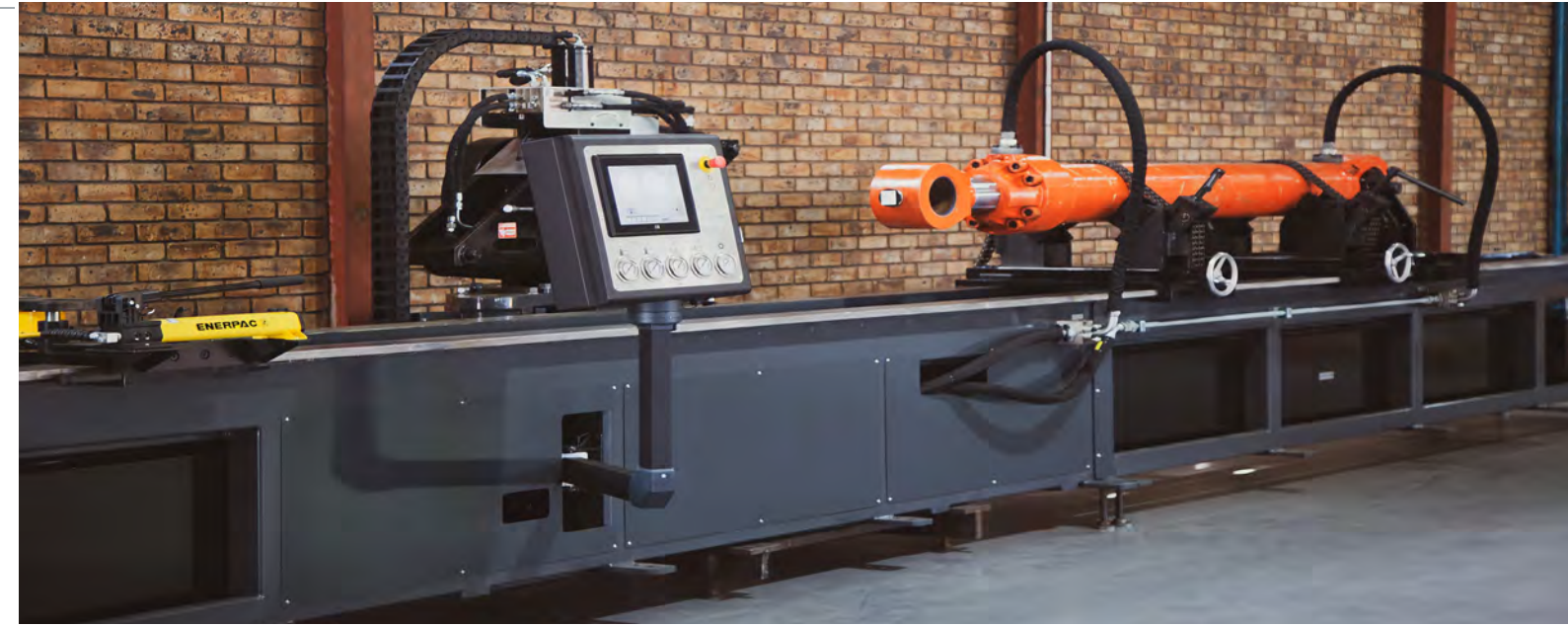


MCB-SERIES

**HYDRAULIC CYLINDER
REPAIR EQUIPMENT**

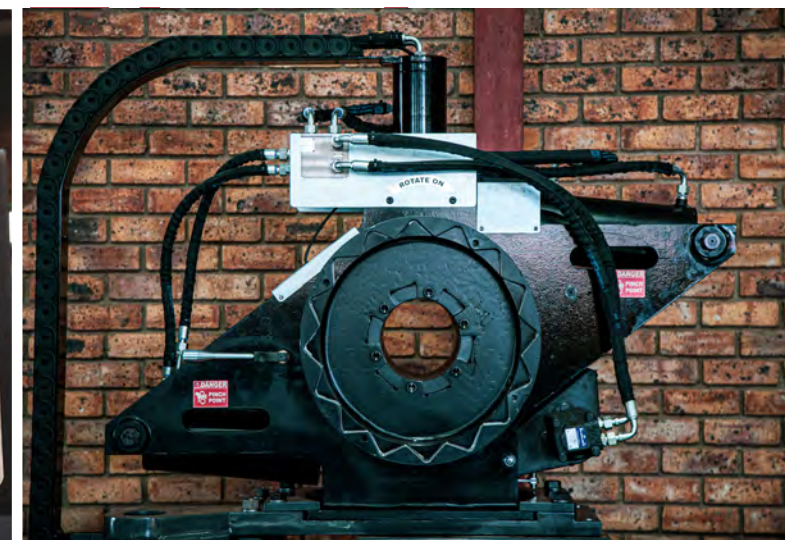
ADVANTAGES OF THE MICRON CYLINDER REPAIR BENCH

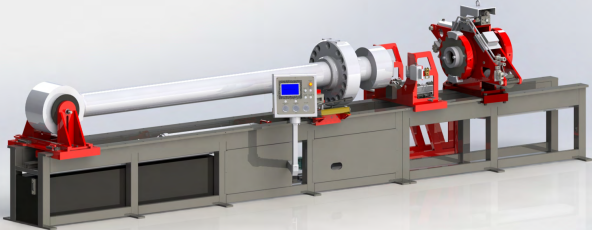


- Bench design is suitable for large, heavy cylinders up to a rating of 8000kg per fixture. Stronger design means machine longevity and improved operator safety.
- True “Single Operator” functionality. Best-of-class operator safety.
- Tool roller plates, together with our proprietary height-adjustable chain vice tools, ensure that any cylinder or rod configuration can be safely secured on the bench and adjusted *to a common tool center height*. This gives the user maximum flexibility in disassembling and reassembling any cylinder configuration.
- Windows™ embedded SCADA Operator Interface
 - Data Logging and Remote Access Enabled
 - 2-speed Wireless Remote used to control all bench functions
 - Industry 4.0 Ready
- 135'000Nm (100'000ft-lbs) Nut Cracker with Rotating Hydraulic and Electrical Union
 - Pre-set torque limits
 - Angular Torque Encoder Available for Liebherr OEM Requirements
 - Digital torque logging (Angular and/or Force)
- Laser Measuring caters for
 - Actual Stroke Length Measurement
 - Piston Rod Drift During Pressure Testing and
 - Automated "Multi-point" Cylinder Test Protocols.
- Digital Pressure Testing to 350 Bar As Standard
 - Optional 420 or 550 Bar Pressure Intensifier
 - Automatic Multi-Point Test Protocols
 - Filtration to ISO 10100 Standards
 - Mechanical Oil Heating
 - Oil Condition Monitoring
- Full-length oil collection tray and splash plates for cleaner operation. The oil collection system will capture the residual oil left in the cylinder and transport it back to a waste oil reservoir. This will reduce clean-up costs and improve workplace safety.
- Lower machine cost, lower tooling costs, easier set-up, safer, cleaner operation and more flexibility all add up to a more efficient use of your equipment investment and floorspace.

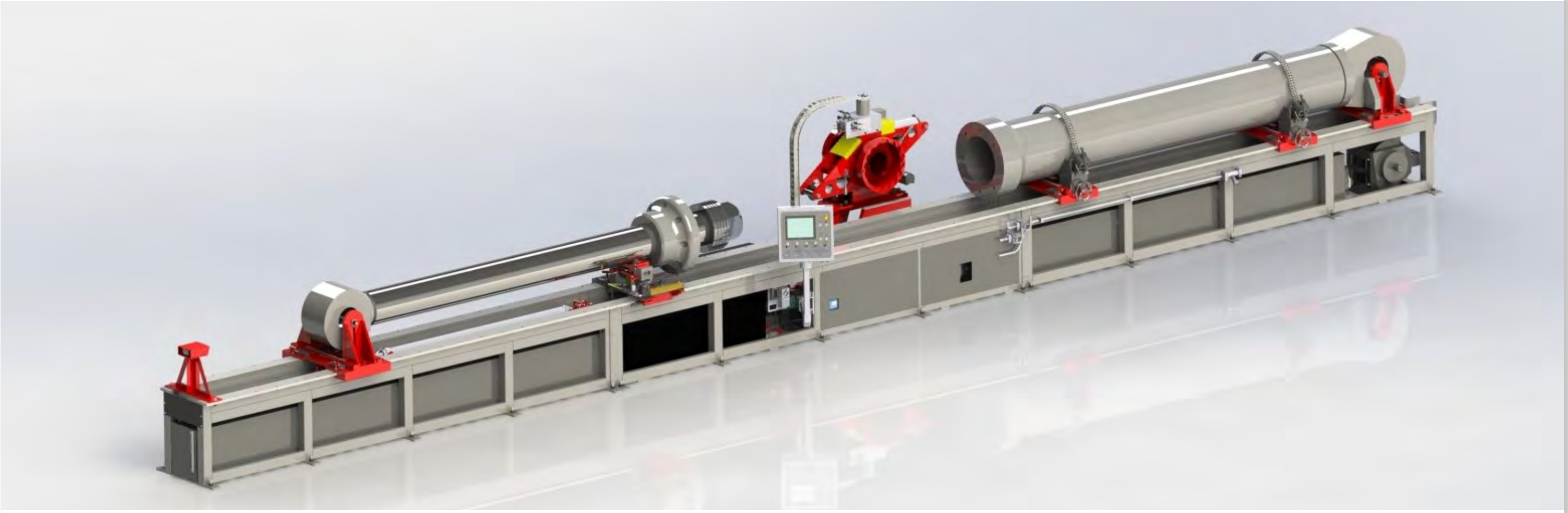


CUSTOMISED TOOLING SOLUTIONS

**MCB-SERIES
BENCHES**
ARE BUILT TOUGH,
FOR THE TOUGHEST
JOBS!



HYDRAULIC CYLINDER REPAIR BENCH - PRODUCT RANGE -	MCB-HDS135.280 PISTON ROD ASSEMBLY BENCH	MCB-SDHO.65.280 STANDARD DUTY WITH PRESSURE TEST	MCB-HDHO.135.600 HEAVY DUTY WITH PRESSURE TEST
			
CYLINDER BENCH CAPACITY			
Bench Frame (OAL)	7m	9'500 / 12'00 / 13'500 +	13'500 / 15'000 / +
Nut Cracker Torque	3'000Nm - 135'000Nm	3'000Nm - 65'000Nm	3'000Nm - 135'000Nm
Torque Limits / Logging	YES	YES	YES
Angular Torque Encoder	YES	YES	YES
Pump - As Standard	MOOG 280 Bar	MOOG 280 BAR	MOOG 350 BAR
Operator Interface	SCADA	SCADA	SCADA
Wireless Remote	YES	YES	YES
System Oil Volume	400	800	1200
Barrel OD Range	N / A	100- 450 mm	100- 630 mm
Maximum Barrel Flange OD	N / A	700mm	850mm
Maximum Clevis Width	700 mm	450 mm	700 mm
Maximum Clevis Diameter	680mm	540mm	680mm
PRESSURE TESTING CAPABILITY			
Test pressure (As Standard)	N / A	280 Bar	350 Bar
Test Pressure Intensifier	N / A	Up To 350 / 420 Bar	Up To 420 / 550 Bar
Laser Stroke Measurement	N / A	YES	YES
Printable Test Report	N / A	YES	YES



BENCH SPECIFICATIONS:

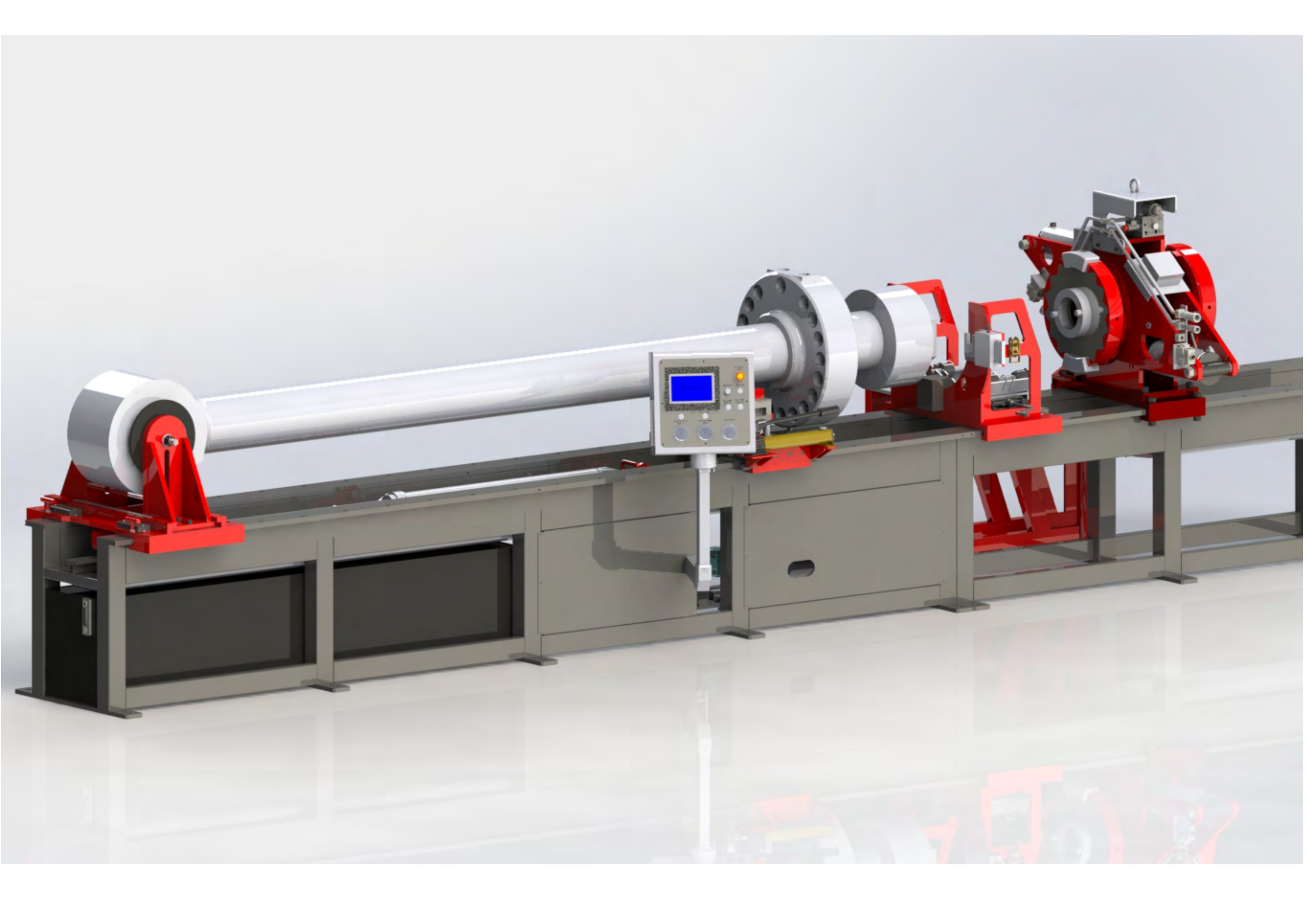
Maximum Rotational Torque	65'000 Nm or 130'000 Nm Options
Maximum Rod Extraction Force	7 Tons
Max Rod Extraction Speed	1200 mm/20 sec
Hydraulic System Pressure	300 Bar
Hydraulic Nut Runner	6000 Nm at 8 RPM
Cylinder Pressure Test Capacity	300 Bar (Standard) 350 Bar (Optional) 500 Bar (With Optional Intensifier)
Hydraulic Fluid Reservoir	1200 L
Waste Oil Reservoir	700 L
Colour	Black & Grey
Electrical System	380/415/460 V, 50/60 Hz, 3 Phase, 60 amps
Floor Space (15-meter bench)	15000mm (L) x 1250mm (w) x 1620mm (h)

CYLINDER DISASSEMBLY/ASSEMBLY SPECIFICATIONS

Maximum Part Weight	6000kg / fixture
Maximum Cylinder Length	Not Applicable - Modular Base
Maximum Cylinder Barrel OD	620 mm
Maximum Cylinder Flange OD	800 mm
Maximum Clevis Width	700 mm
Maximum Clevis Diameter	620 mm

Please Note:
Actual machine spec could differ from this sales brochure

Technical Changes Reserved.





A MICRON Technical Specialist will work with you to
determine the best solution for your needs –
it's all part of the added value you get from
MICRON. Plus, our sales and service team provides
comprehensive support for the installation and
operation of every system we make.

Whatever your need, we have the expertise and
flexibility to create the right solution for you and the
dedication to support you for the long run.