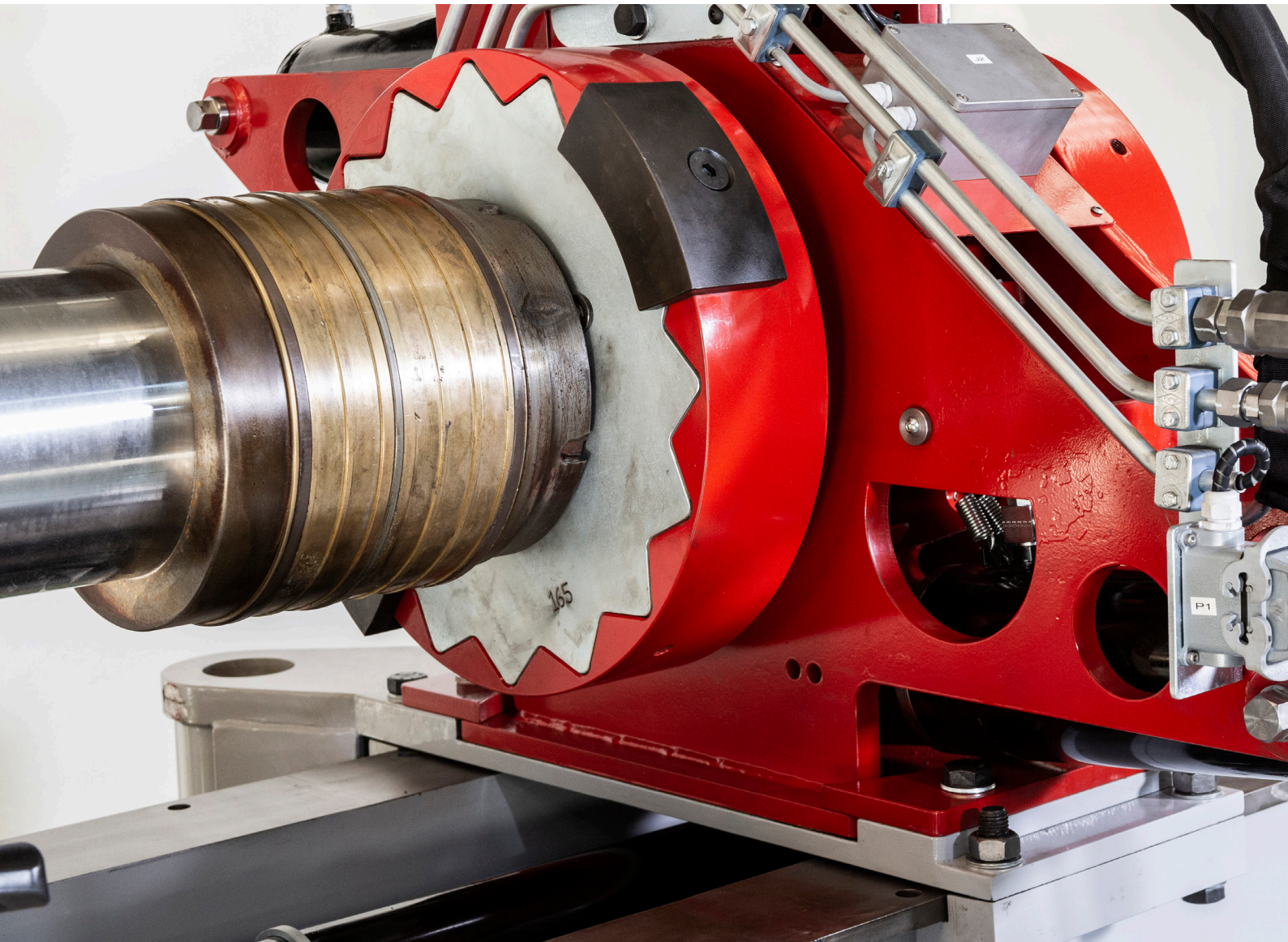


MICRON TECHNOLOGIES

HYDRAULIC CYLINDER REPAIR EQUIPMENT

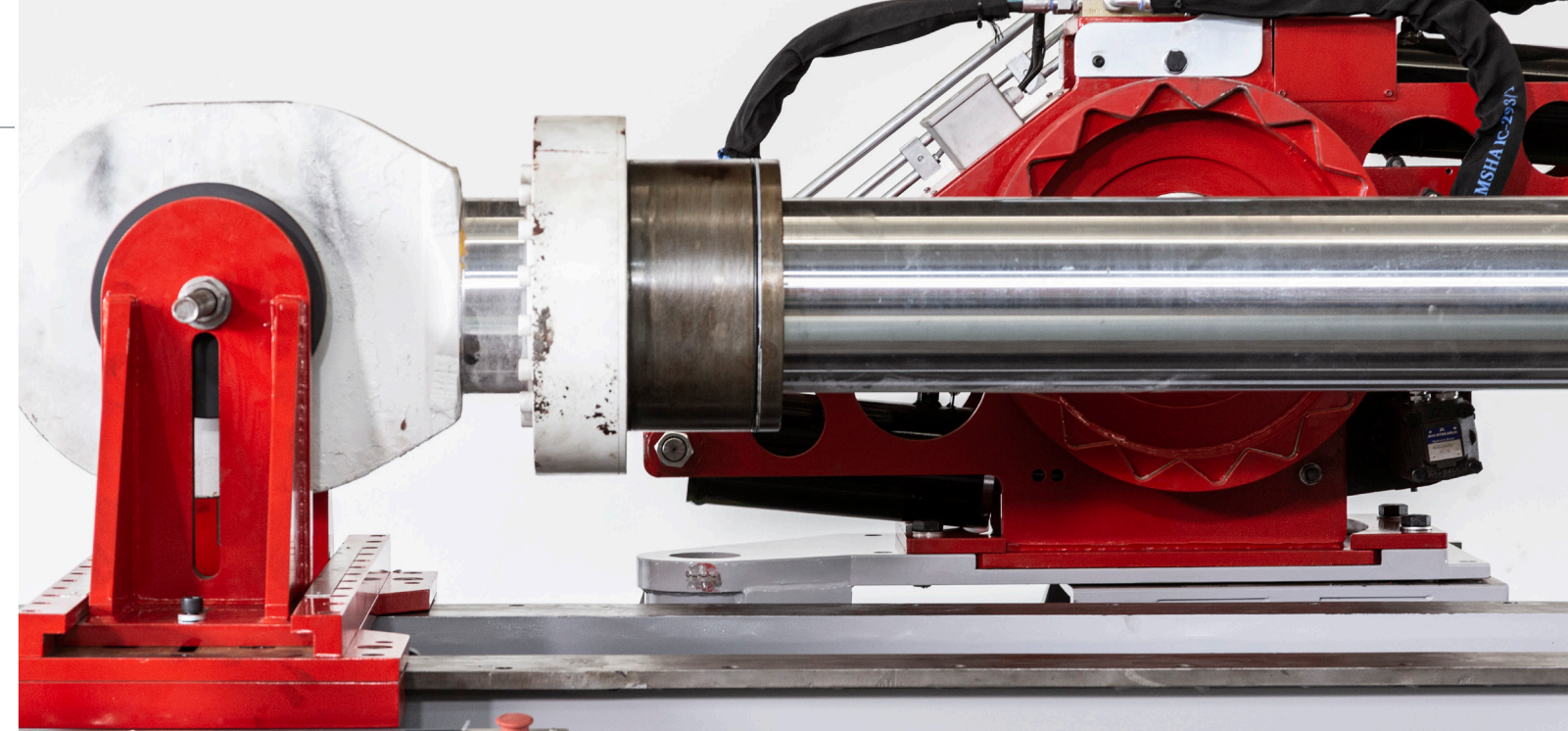


MCB-SERIES

**HEAVY DUTY
HYDRAULIC CYLINDER
REPAIR BENCH**

ADVANTAGES OF THE MICRON CYLINDER REPAIR BENCH

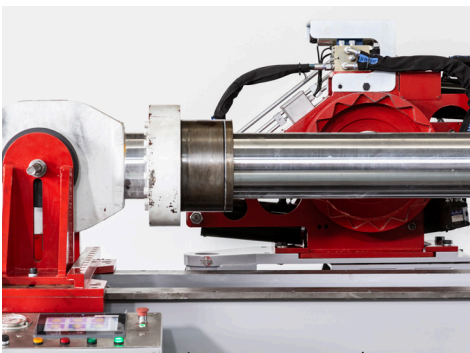
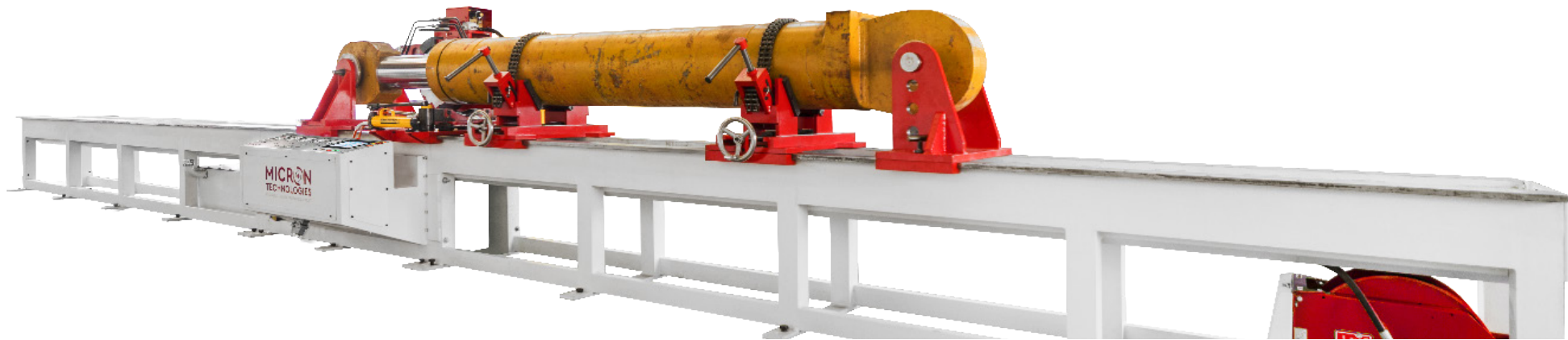
- Solid, full-length bench design provides more usable working space and the flexibility to accommodate additional repair functions
- Bench design is suitable for large, heavy cylinders (rated for 6000kg / fixture). Stronger design means machine longevity and improved operator safety.
- Tool slide plates, 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 centre height. This gives the user maximum flexibility in disassembling and reassembling any cylinder configuration.
- Windows™ embedded HMI and Wireless Remote used to control all bench functions and system limits (such as piston nut torque pre-sets). Complete with operator safety prompts.
- Integrated Cylinder Pressure Test function (to 300Bar) with digital export of cylinder test results. Optional 'Air/Oil' Intensifier for pressure testing up to 500Bar.
- Laser Encoder caters for actual stroke length measurement and automated multi-point cylinder test protocols. (Multi-point tests of both pressure differential and rod drift)
- True "Single Operator" functionality. Best-of-class operator safety.
- Optional Nut Cracker Swing Table facilitates access to the piston nut without turning the piston rod or removing the cylinder barrel as with competitive offerings.
- The Nut Cracker utilises a simple and effective ratchet mechanism for maximum power with hex socket type adapter for piston nuts up to 345mm across flats.
- Re-assembly is achieved through reverse rotation using the same tooling. Precise control of system pressure allows nuts to be re-torqued to OEM specifications using torque pre-sets entered into the HMI.
- Inexpensive tooling that can be easily set up and used. Tooling can be purchased individually as required. Tooling inserts can be fabricated to accommodate custom jobs.
- Bench design is modular and can be extended should the need arise.
- 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.



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



MCB - SERIES
HYDRAULIC
CYLINDER
REPAIR
BENCH
PRODUCT RANGE



	HEAVY DUTY - DIGITAL DATA RECORDING	STANDARD DUTY - VISUAL TESTING	LEAN COST - NO PRESSURE TESTING	“SINGLE FUNCTION” / MODULAR
BENCH SPECIFICATIONS	MCB-HD130-15	MCB-SD65-10	MCB-LD65-10	MCB-SF-5
HYDRAULIC POWER UNIT	FULL ELECTRONIC CONTROL	ELECTRO-MECHANICAL CONTROL	ELECTRO-MECHANICAL CONTROL	ELECTRO-MECHANICAL CONTROL
TOUCH SCREEN INTERFACE / HMI	14" WINDOWS BASED	NO	NO	NO
PRESSURE TEST CAPABILITY	300 BAR	200 BAR	NO	NO
PRESSURE TEST	YES	VISUAL ONLY	N/A	N/A
MICRO PC (INTERNET CAPABILITY)	YES (LAN, WIFI, GSM)	NO	NO	NO
WIRELESS REMOTE	STANDARD	OPTIONAL	NO	NO
NUT CRACKER TORQUE	130'000 NM	65'000 NM / 130'000 NM	65'000 NM	OPTIONAL (65'000 NM)
HYDRAULIC NUT RUNNER - 7000 Nm	STANDARD	STANDARD	OPTIONAL	OPTIONAL
MAXIMUM ROD EXTRACTION FORCE	7 TONS	7 TONS	7 TONS	(OPTIONAL) 7 TONS
HYDRAULIC POWER TOOL / UTILITY POINT	YES	NO	NO	NO
OPTIONAL FEATURES	X	X	X	X
BENCH LENGTH EXTENSION (5 METERS)	YES	YES	YES	YES
NUT CRACKER SWING TABLE	STANDARD - HYDRAULIC	OPTIONAL - MANUAL ONLY	OPTIONAL - MANUAL ONLY	N/A
LASER STROKE MEASUREMENT	YES	NO	N/A	N/A
HIGH PRESSURE TEST INTENSIFIER	500 BAR	500 BAR	N/A	N/A
SIDE STREAM FILTRATION (1613 STANDARD)	OPTIONAL	OPTIONAL	N/A	N/A
OIL CONDITION MONITORING	OPTIONAL	NO	N/A	N/A
NUT CRACKER UPDATE	OPTIONAL 65'000 NM	UPGRADE 130'000 NM	NO	NO
PART CAPACITY	X	X	X	X
MAXIMUM CYLINDER LENGTH	7000MM (CLOSED CENTRE, AS STANDARD)	4500MM (CLOSED CENTRE, AS STANDARD)	4500MM (CLOSED CENTRE, AS STANDARD)	2000MM (CLOSED CENTRE, AS STANDARD)
MAXIMUM CYLINDER BARREL OD -	620MM	620MM	620MM	620MM
MAXIMUM CYLINDER FLARGE OD -	850MM	850MM	850MM	850MM
MAXIMUM CLEVIS WIDTH - STANDARD	700MM (TANDEM CLEVIS)	460MM	460MM	460MM
MAXIMUM CLEVIS DIAMETER -	620MM	620MM	620MM	620MM
HYDRAULIC FLUID RESERVOIR (250L)	1200	800	250	250
DIRTY OIL RESERVOIR - 200L	800	400	300	300

MBC SERIES HYDRAULIC CYLINDER REPAIR BENCH PRODUCT RANGE

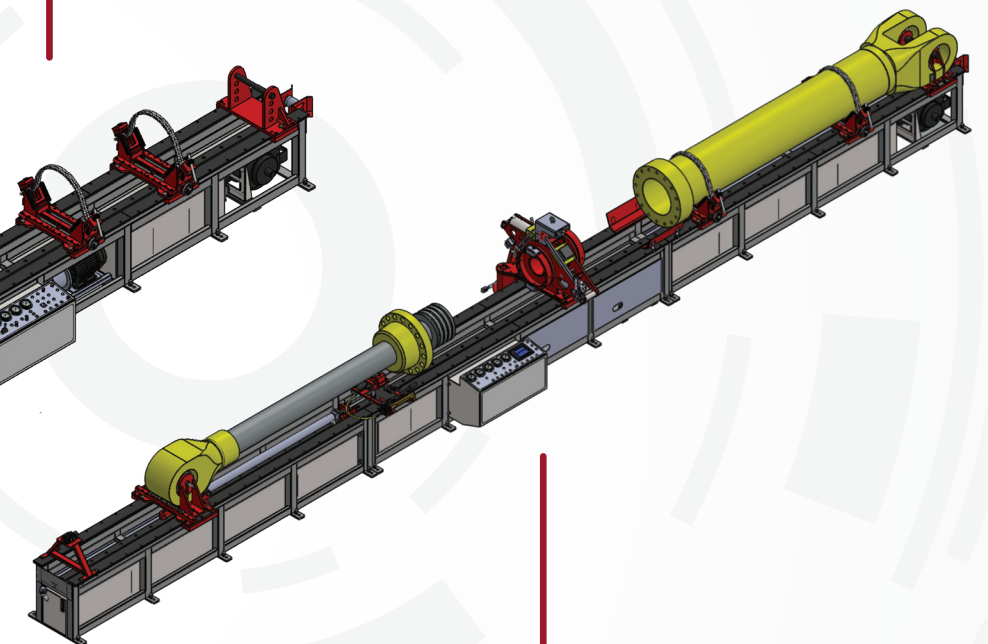
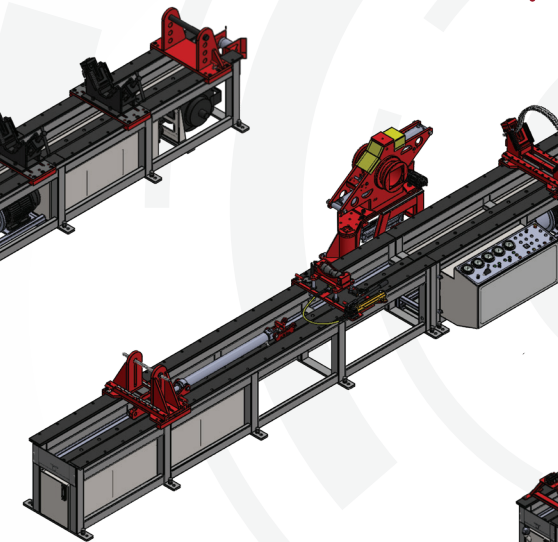
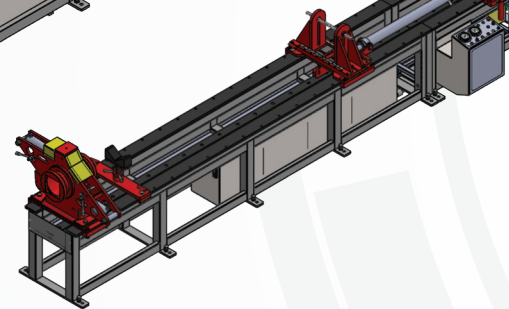
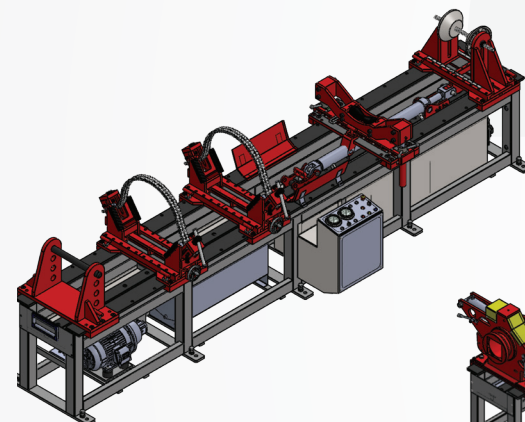
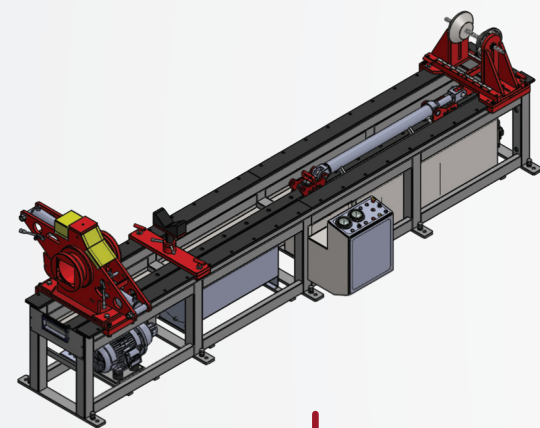
LD STRIPPING BENCH 5M

STRIPPING / ASSEMBLY
FUNCTION ONLY

SD STRIPPING BENCH 10M

NUT CRACKER & STRIPPING /
ASSEMBLY FUNCTIONS

VISUAL PRESSURE TESTING
CAPABILITY TO 200 BAR



LD STRIPPING BENCH 5M

NUT CRACKER FUNCTION ONLY

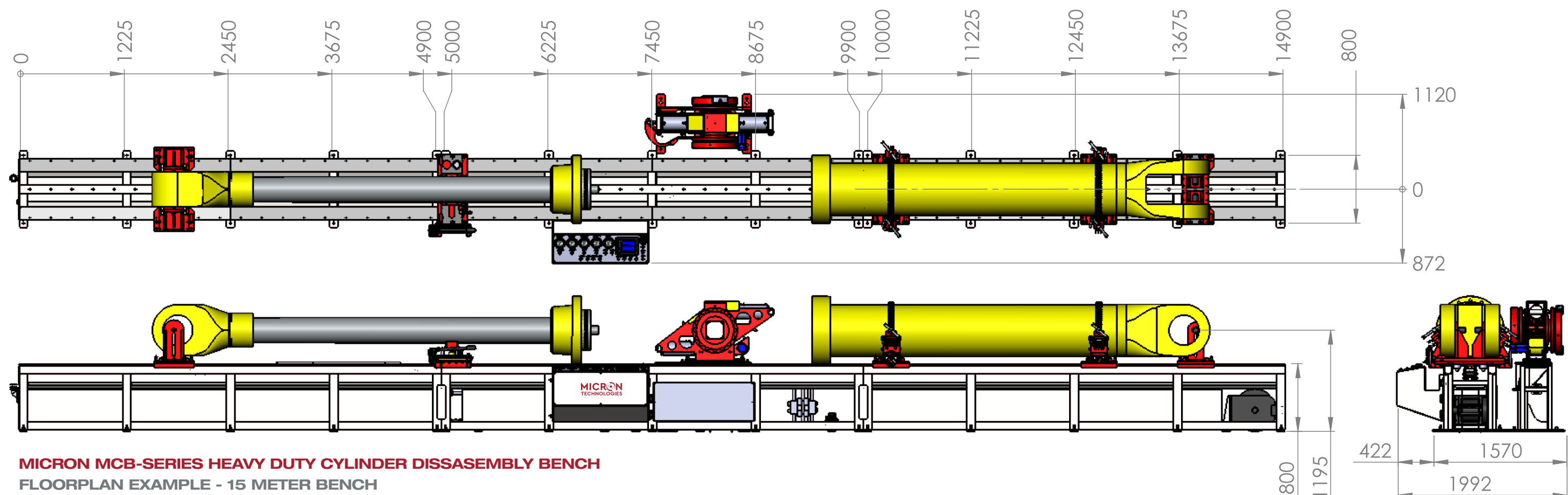
LD STRIPPING BENCH 10M

NUT CRACKER & STRIPPING /
ASSEMBLY FUNCTIONS
(NO PRESSURE TESTING
CAPABILITIES)

HD STRIPPING BENCH 15M

130'000NM NUT CRACKER &
STRIPPING / ASSEMBLY FUNCTIONS

DIGITAL PRESSURE TESTING WITH
LASER STROKE MEASUREMENT AND
DATA LOGGING



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) 500 Bar (With Optional Intensifier)
Hydraulic Fluid Reservoir	1200L
Waste Oil Reservoir	800L
Colour	Grey and Red
Electrical System	380/415/460V, 50/60 Hz, 3 phase, 15 amp
Floor Space (15-meter bench)	15000mm (L) x 1250mm (w) x 1620mm (h)

CYLINDER DISSASSEMBLY/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:
These are standard specifications. Special systems can be designed to suit specific requirements.

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.