TROIDON 55 XL

Front Face Jumbo for medium sections

TROIDON 55 XL is a 1.85 m wide face drilling jumbo recommended for medium sections.

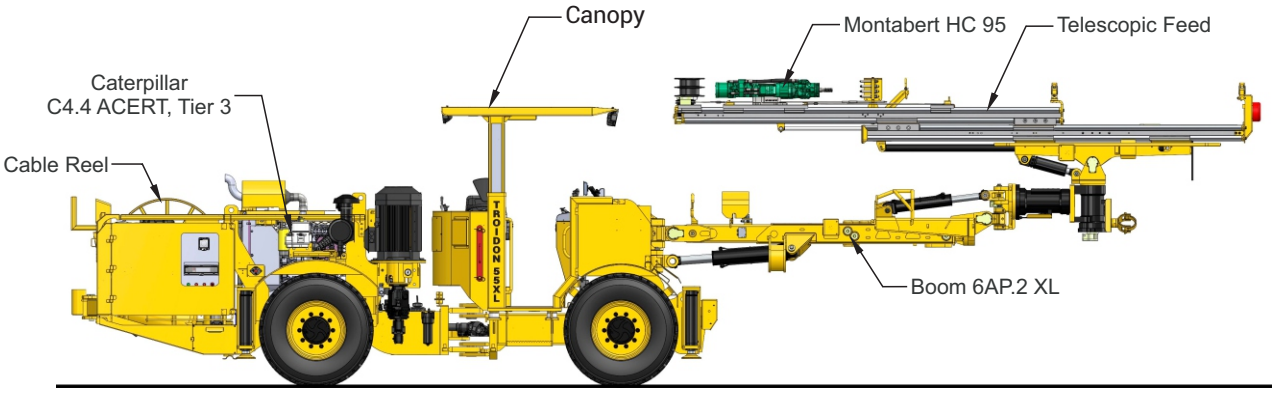
It comes equipped with the 21kW Montabert HC 95 drill that incorporates Back Hammering to prevent bars from getting stuck.

Its boom with automatic parallelism and its simple design, without technical complications and least maintenance.

The hydraulic system of direct controls with hydraulic controlled pilot, makes this rig highly reliable for the operation.

Chassis for heavy duty, articulated 4WD, self propelled with diesel engine.

SPECIFICATIONS



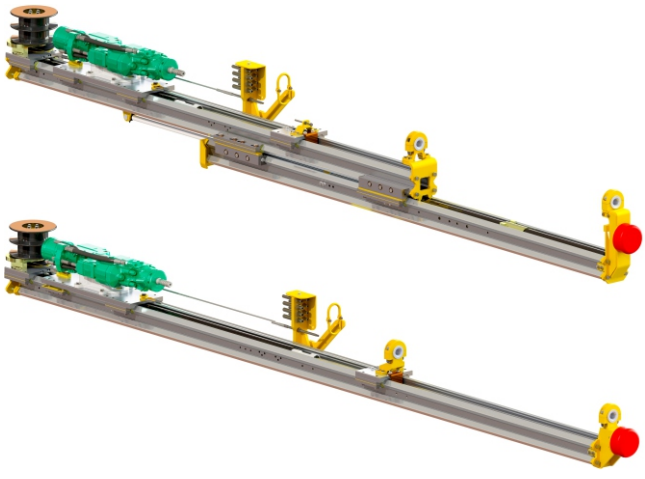
DRIFTER

• Model	Montabert HC 95 (095LMa)
• Percussion power	21kW
• Percussion pressure	180 bar -200 bar
• Frequency	62Hz (3700 bpm)
• Rotation Speed	0 - 296 rpm
• Rotation torque	764 Nm
• Hole diameter	45 - 76 mm
• Air consumption (flushing)	8000 l/min (7-10 bar)
• Air consumption (lubrication)	300 l/min (a 3 bar)
• Oil consumption (lubrication)	0.8cc /min
• Water consumption	60 - 120 l/min (8-20 bar)
• Shank Adapter	R38, T38, T45 - male
• Weight	186 kg

FEED

• Model	RE 2500 series
• Drifter advance	Hydraulic cylinder and steel rope
• Feed extension	1290 mm

Feed Type	Overall length (mm)	Rod length (mm)
Advance Feed 14'	5848	4305
Advance Feed 16'	6478	4915
Telescopic Feed 8'-14'	4073 / 5878	2475 (8') / 4305 (14')
Telescopic Feed 10'-16'	4549 / 6375	3085 (10') / 4913 (16')



CARRIER

• Model	C66.3
• Diesel engine	Caterpillar C4.4 ACERT, Tier 3
- Power	106 kW @ 2200 rpm
• Exhaust catalyster	DOC (Diesel Oxidation Catalyst)
• Transmission	Hydrodynamics
• Powershift gearbox	Dana, T12000
• Differential axle	Dana, Series 112
• Rear axle oscillating	± 8°
• Tramming speed:	
- Horizontal	max. 16 km/h
- Positive ramp 15%	max. 4 km/h
• Positioning pump	Parker
• Service brakes	Wet discs
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Steering (articulated carrier)	±40°
• Tyres	12.00 x R20
• Hydraulic jacks	2 extendable front, 2 rear
• Canopy	FOPS / ROPS
• Fuel tank	20.6 gal / 78 l
• Battery	2x12 V, 95 Ah
• Electric system	24 VDC
• Tramming lights	8X, LED 28W, 9-32 VDC
• Centralized grease system	SKF
• Drilling lubrication system	SKF
• Automatic fire suppression system	ANSUL, 4 nozzles
• Fire extinguisher	1x20 lb (PQS) manual
• High pressure wash	Manual
• Reel grease gun	Manual

BOOM

• Model	Boom 6AP.2 XL
• Boom extension	1200 mm
• Lift angle	+60° / -27°
• Swing angle	±35°
• Rotation	360°
• Hydraulic cylinders	

HYDRAULIC CONTROL SYSTEM

• Válvula de control directo	Parker KA-18
• Drilling Control	PCS (Pilote Control System)
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Double pump	Parker
• Working pressure	180 - 200 bar
• Hydraulic oil tank	37.5 gal / 142 l
• Hydraulic return filter	Parker, 10µ
• Hydraulic pressure filter	Parker, 10µ
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

WATER AND AIR SYSTEM

• Compressor	CTN3
• Maximum capacity	1.65 m³/min
• Working pressure	8 bar
• Water pump and hydraulic motor	CR5 - 9
• Maximum flow	6.9 m³/h (115 l/m)@3500rpm
• Minimum water inlet pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar
• Air tank	90 l

ELECTRIC SYSTEM

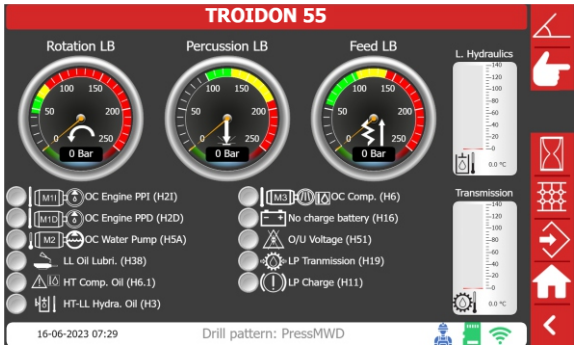
• Electric motor	75kW (100 HP)
• Voltage	380 - 440 VAC Options: 550 - 690 - 1,000 VAC
• Frequency	50 - 60 Hz
• Starting method	Star - Triangle
• Option to 1000 VAC	Direct start
• Overload protection and ground fault	
• Percussion horometer	24V
• Phase sequence indicator	
• Battery charger	IN 32 VAC, 300W 13A OUT 28 VDC
• Electric transformer	3.5 kVA
• Working lights	2X, LED 50W, 9-32 V
• Electric cable reel	90 m
• Electric cable	3x50 mm² - 1KV
• Degree of protection	IP 55

OPTIONS

• Diesel engine	Deutz BF4L914, Tier II, 72.4 kW @ 2300 rpm
• Tropical cooler for hot environments	
• A/C Enclosed Cabin	FOPS / ROPS certifications
• Data Logging y Sistema Tracking	

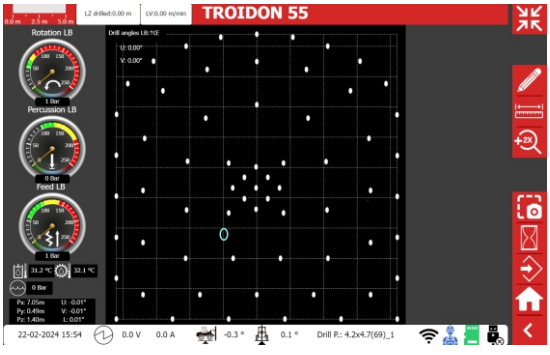
DATA LOGGING SYSTEM

- The system manages equipment diagnostics by logging alarms, bore pressures, and engine ECM readings.
- Reading of arm positions (tilt angle), drilling pressures, meters drilled, temperatures of the hydraulic system and transmission.
- Data collection via USB and/or Internet.

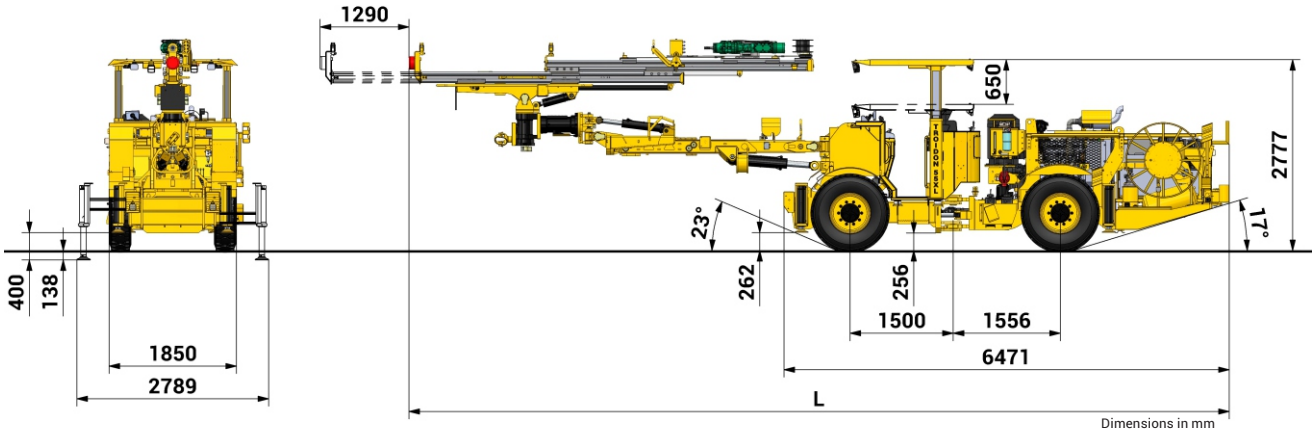


TRACKING SYSTEM

- PERFORATION patterns must be prepared in the IREDES standard, which basically generates an .xml / .dp file where the information of the digital perforation mesh is.
- Files are transferred to the front face jumbo using a USB device.
- Reading of arm positions (lift, lateral, rotation and tilt angles), drilling pressures, drilled meters, hydraulic system and transmission temperatures.



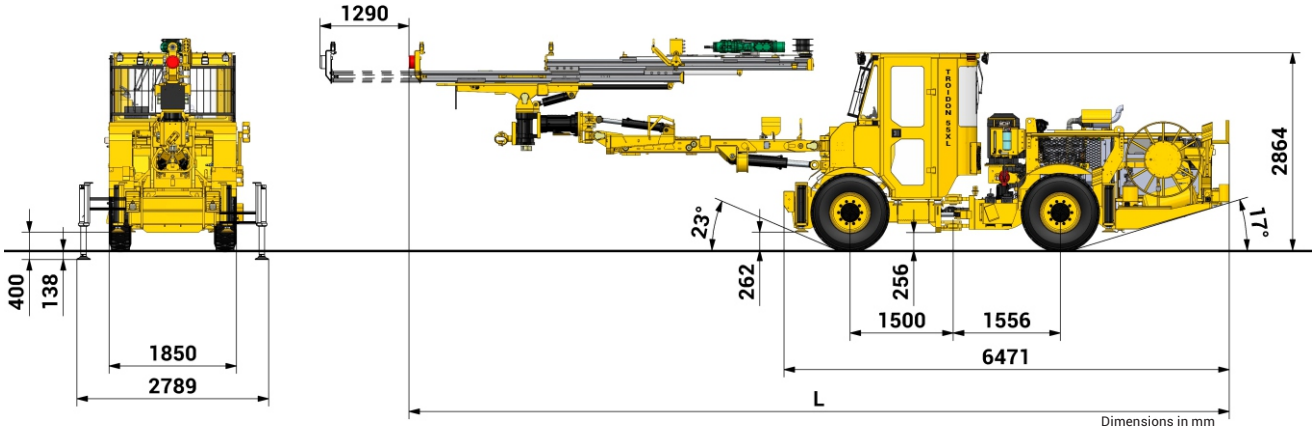
DIMENSIONS



Feed	Advance		Telescopic	
	14'	16'	8'/14'	10'/16'
Length of rig (L)	12,137	12,660	11,638	12,198

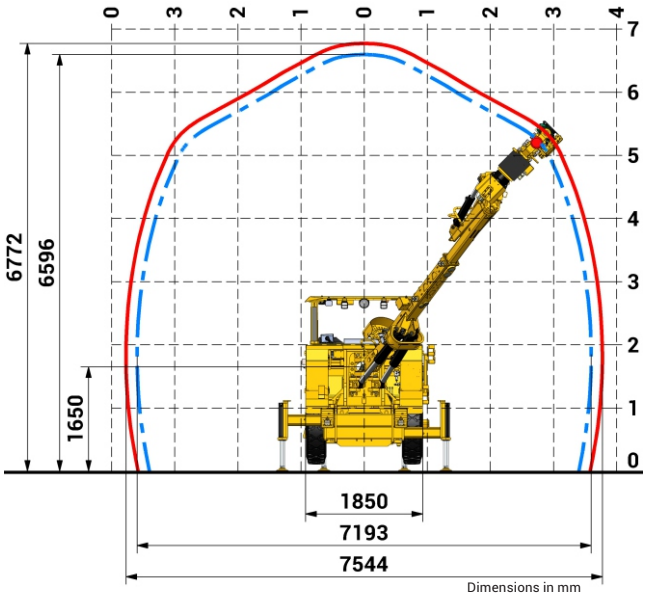
Total Weight
15,100 kg

Option: A/C Enclosed Cabin



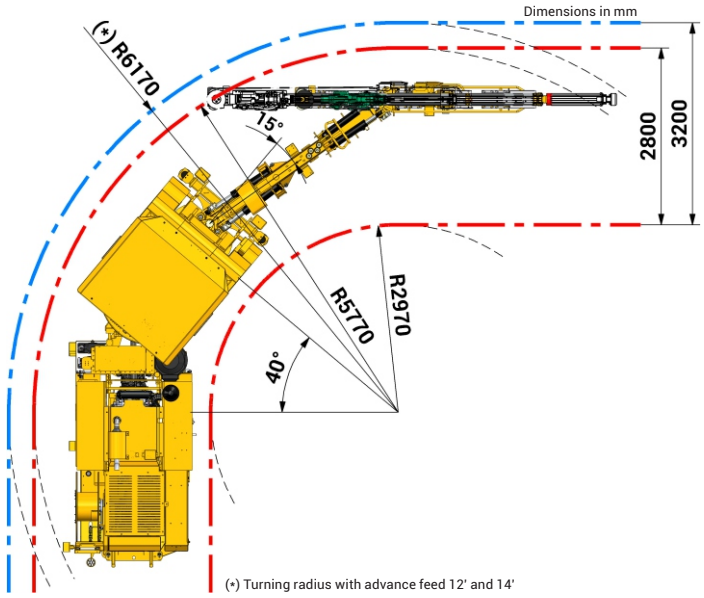
Total Weight
15,300 kg

COVERAGE



Total area	Advance	Telescopic
	40 m²	43 m²

TURNING RADIUS



(*) Turning radius with advance feed 12' and 14'

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