MUKI LHBP

Long Hole rig for narrow vein

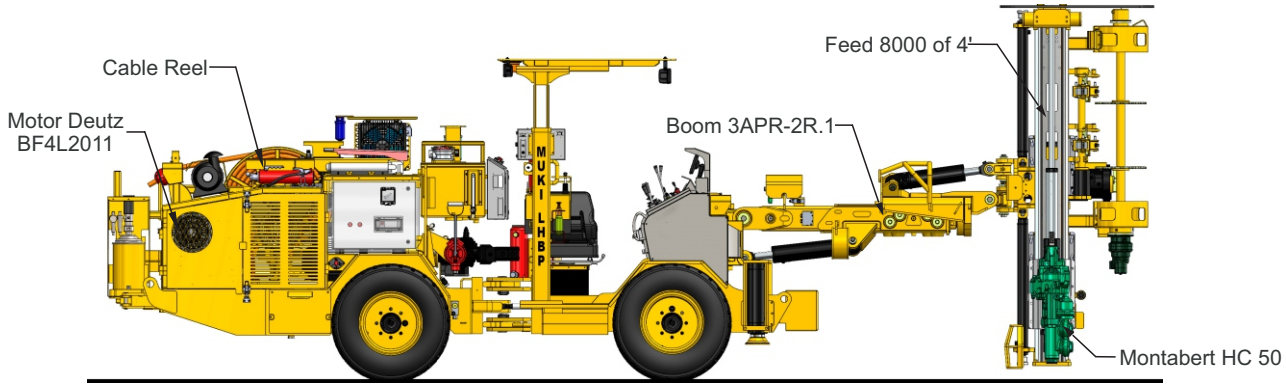
MUKI LHBP is an electrohydraulic rig for long hole drilling, its hydraulic boom has automatic parallelism, equipped with two rotary actuators allow drilling very close to both walls of the section of the mine.

Its Feed 8000 series, with 2 Stinger provides the best stability to reduce the deviation.
Equipped with Montabert HC 50 drifter with 12 kW and Back Hammering - rods extractor, the most modern on the market. Includes magazine and hydraulic clamp.

Chassis for heavy duty, articulated 4WD, self propelled with diesel engine, hydrostatic transmission, electrohydraulic system for drilling.

Aplications:
- Sub level and benching.
- Block caving
- VCR and cable bolting application.

SPECIFICATIONS



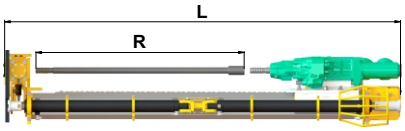
DRIFTER

• Model	Montabert HC 50
• Percussion power	12 kW
• Percussion pressure	110 - 130 bar
• Frequency	56 Hz
• Rotation Speed	0 - 193 rpm
• Rotation torque	385 Nm
• Hole diameter	45 - 76 mm
• Air consumption (flushing)	7m^3/min @250cfm (8-10 bar)
• Air consumption (lubrication)	5 l/s (a 3 bar)
• Oil consumption (lubrication)	0.8 cc/min
• Water consumption	30-60 l/min (12-20 bar)
• Shank adapter	T38 - macho
• Weight	104 kg

FEED

• Model	RE 8000 series
• Drifter advance	Hydraulic cylinder
• Feed extension	712mm
• Hydraulic clamp	Bull 122
• Stinger cylinder	2 units to stabilize while drilling
• Digital inclinometer	AMLH SYSTEM - Angle Measurement Long Hole & Software
• Magazine	T38 / 14 + 1 rods

Feed Type	Overall Length (mm) (L)	Rod Length (mm) (R)
Feed 8000 of 4' - HC50	2,600	1,219
Feed 8000 of 4' - HC95	2,800	1,219

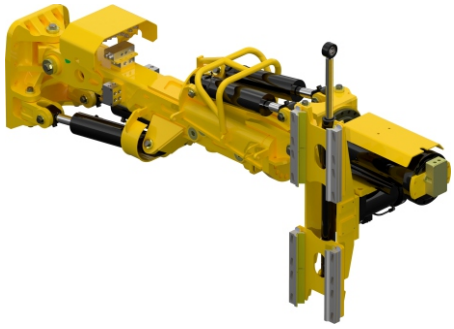


CARRIER

• Model	C22.1
• Diesel engine	Deutz BF4L2011, Tier I
- Power	55,1 kW @ 2300 rpm
• Exhaust catalyster	DOC (Diesel Oxidation Catalyst)
• Transmission	Hydrostatic
• Transmission pump	Poclain
• Hydrostatic motor	Four MSE 08 motors
• Rear axle oscillating	± 8°
• Tramming speed:	
- Horizontal	Máx. 7.5 km/h
- Positive ramp 15%	Máx. 7 km/h
• Positioning pump	Rexroth
• Service brakes	Hydrostatic
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Steering (articulated carrier)	±35°
• Tyres	8.25 x R15
• Hydraulic jacks	2 extendable front
• Canopy	FOPS / ROPS
• Fuel tank	10.8 gal / 41 l
• Battery	2x12 V, 95 Ah
• Electric system	24 VDC
• Tramming lights	6X, LED 28W, 9-32 V
• Centralized grease system	SKF
• Drilling lubrication system	SKF
• Automatic fire suppression system	ANSUL, 2 Boquillas
• Fire extinguisher	1x5 lb, (PQS)

BOOM

• Model	Boom 3APR-2R.1
• Boom extension	800 mm
• Lift angle	+48° / -19°
• Swing angle	±30°
• Rotation	360°
• Hydraulic cylinders	



HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Drifter control	DCS (Direct Control System)
• Percussion pump (compensated pressure)	Rexroth A10VO71
• Triple pump	Parker
• Working pressure	180 bar
• Hydraulic oil tank	35 gal / 134 l
• Hydraulic return filter	Parker, 10µ
• Tropical cooler	11 kW - 24 24V
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

WATER AND AIR SYSTEM

• Compressor	LE3 -10 UV
• Maximum capacity	5.1 l/s (10.8 CFM)@1800rpm
• Working pressure	3 bar
• Water pump and hydraulic motor	Grundfoss, 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

ELECTRIC SYSTEM

• Electric motor	55kW (75 HP)
• Voltage	380 - 1000 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	1.5 kVA
• Working lights	2x, LED 30W, 9-32 V
• Electric cable reel	60 m
• Electric cable	3x2 - AWG
• Degree of protection	IP 55

OPTION

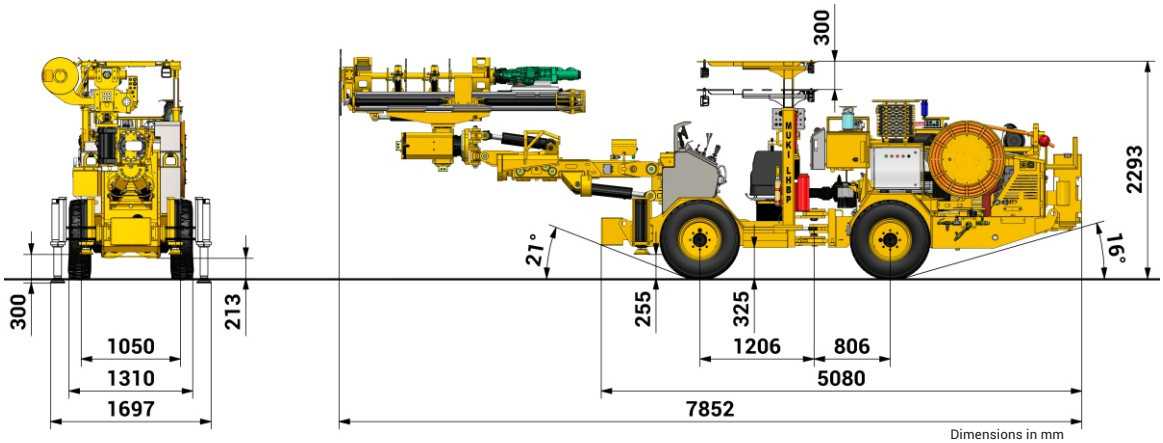
• Drifter HC95	24 kW

AMLH SYSTEM (Angle Measurement Long Hole)

The AMLH system (Angle Measurement Long Hole) is an electronic aid system for long hole equipment.
Its main systems are the following:

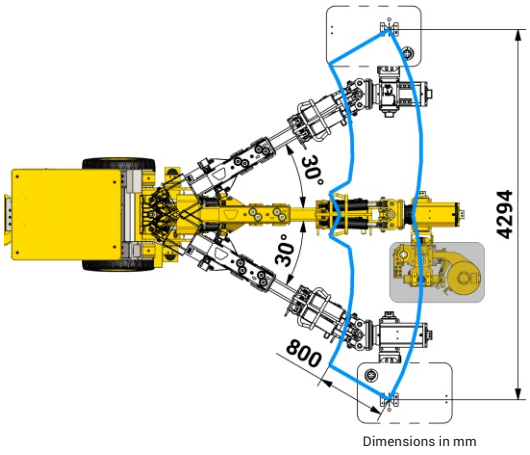
- Measurement of rotation angles, inclination and feed parallelism.
- Rods quantity display.
- Electronic carousel control.

DIMENSIONS

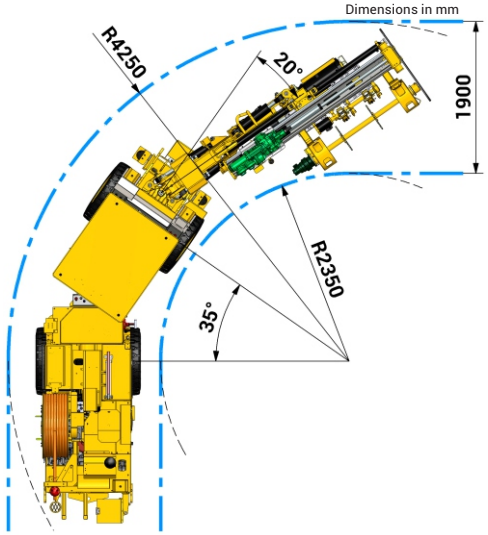


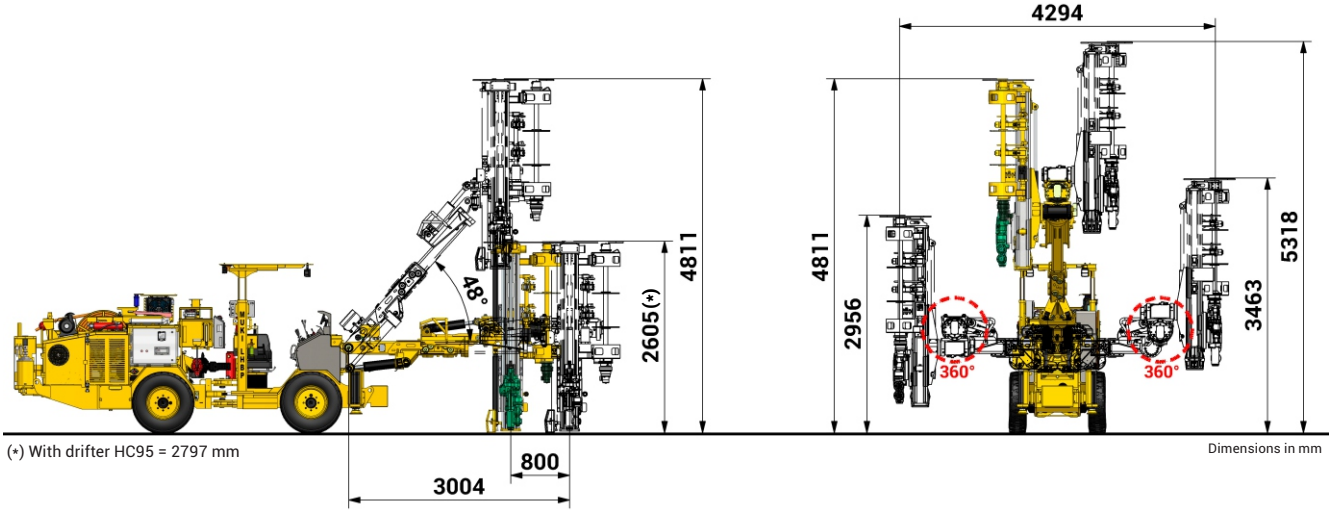
Total Weight
9,800 kg

COVERAGE



TURNING RADIUS





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