

MUKI FF

Front Face Jumbo for Narrow Vein



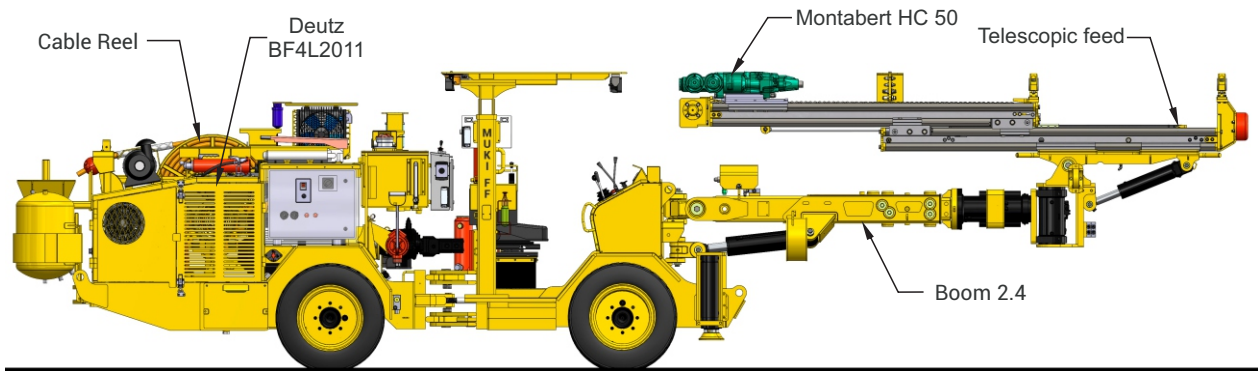
MUKI FF is an electrohydraulic front face drilling rig of 1.05 m width for recommend for small sections of 1.05 m width x 2.0 m high to sections of 3.5 m x 3.5 m.

Also it can be used for scaling. Another applications is for Cut & Fill mining method.

It come with square section hydraulic boom and advance feed with options: Telescopic Feed 6-10 ft and 8-10 ft. Another option is Feed fot 8 ft rods, equipped with drifter Montabert HC 50 of 14kW.

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

SPECIFICATIONS



DRIFTER

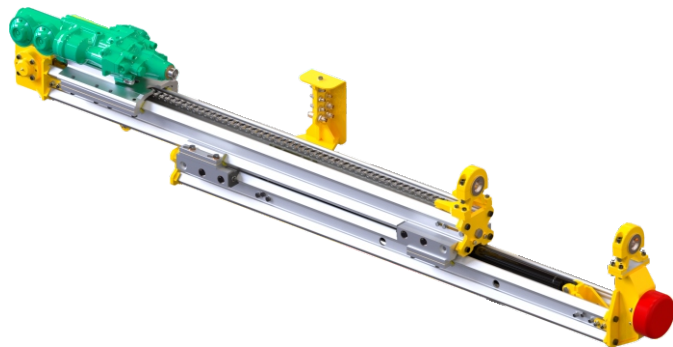
• Model	Montabert HC 50
• Percussion power	14 kW
• Percussion pressure	110 - 130 bar
• Frequency	62.5 Hz (3750 bpm)
• Rotation Speed	0 - 193 rpm
• Rotation torque	385 Nm
• Hole diameter	45 - 76 mm
• Air consumption (flushing)	7m³/min @250cfm (8-10 bar)
• Air consumption (lubrication)	5 l/s (a 3 bar)
• Oil consumption (lubrication)	0.8 cc/min
• Water consumption	30-60 l/min (12-20 bar)
• Shank adapter	R32 female
• Weight	104 kg

FEED

• Model	RE 2500 series
• Drifter advance	Hydraulic motor and chain
• Telescopic feed 6'-10'	6-10 ft rods
• Feed extension	600 mm

Options:

• Telescopic feed 8'-10'	8-10 ft rods
• Feed 8'	8 ft rods for Boom 2.1



CARRIER

• Model	C22.1
• Diesel engine	Deutz BF4L2011, Tier I
- Power	55,1 kW @ 2300 rpm
• Exhaust catalyser	DOC (Diesel Oxidation Catalyst)
• Transmission	Hydrostatic
• Transmission pump	Poclain
• Hydrostatic motor	Four MSE 08 motors
• Rear axle oscillating	± 8°
• Tramming speed:	
- Horizontal	max. 7.5 km/h
- Positive ramp 15%	max. 7 km/h
• Positioning pump	Rexroth
• Service brakes	Hydrostatic
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Steering (articulated carrier)	±35°
• Tyres	7.50 x R15
• Hydraulic jacks	2 extendable front
• Canopy	FOPS / ROPS
• Fuel tank	10.5 gal / 40 l
• Battery	2x12 V, 90 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 nozzles
• Fire extinguisher	1x5 lb, (PQS)

BOOM

• Model	Boom 2.4
• Boom extension	1000 mm
• Lift angle	+48° / -24°
• Swing angle	±30°
• Rotation	360°
• Hydraulic cylinders	

Options:

• Boom 2.1	for Feed 8 ft
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HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Drifter control	DCS (Direct Control System)
• Percussion pump (compensated pressure)	Rexroth A10V071
• Triple pump	Parker
• Working pressure	180 bar
• Hydraulic oil tank	35 gal / 134 l
• Hydraulic return filter	Parker, 10μ
• Tropical cooler	11 kW - 24V
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

WATER AND AIR SYSTEM

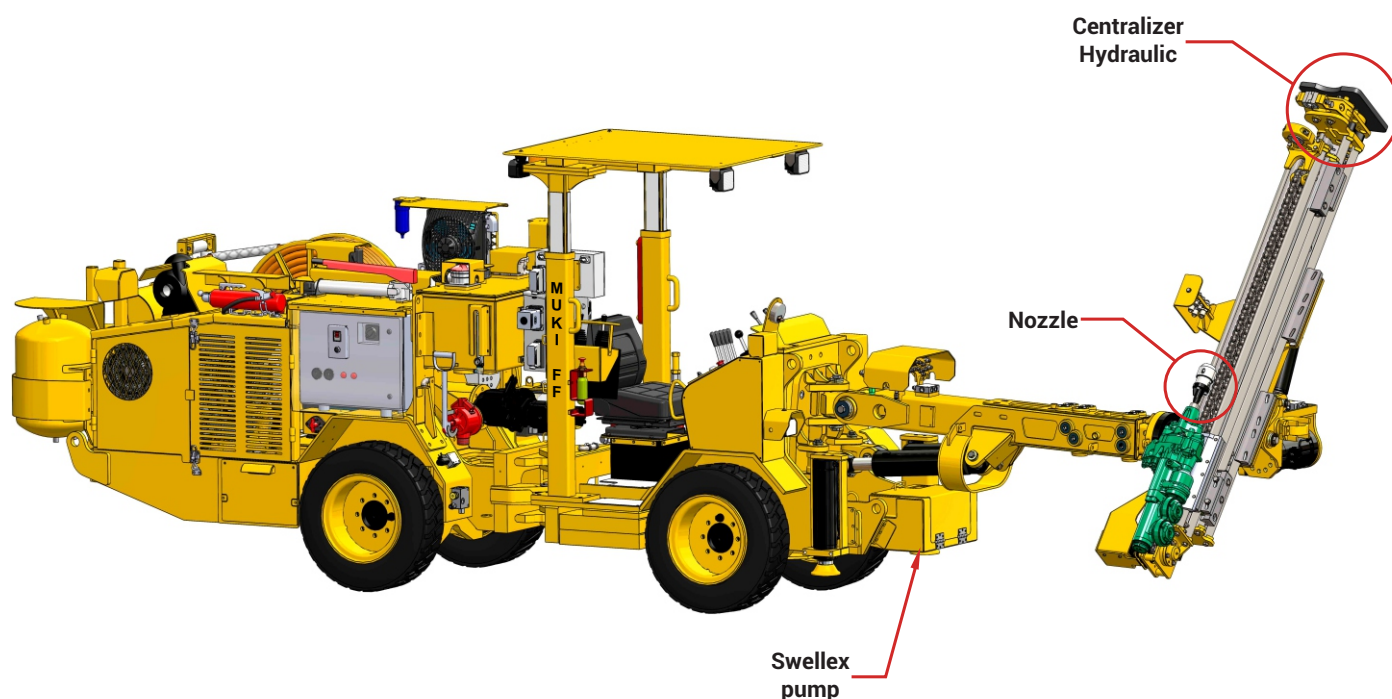
• Compressor	LE3-10UV
• Maximum capacity	5.1 l/s (10.8 CFM)
• Working pressure	3 bar
• Water pump and hydraulic motor	Grundfoss, CR5 - 9
• Maximum flow	6.9 m³/h (115 l/m)@3500rpm
• Minimum water inlet pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar

ELECTRIC SYSTEM

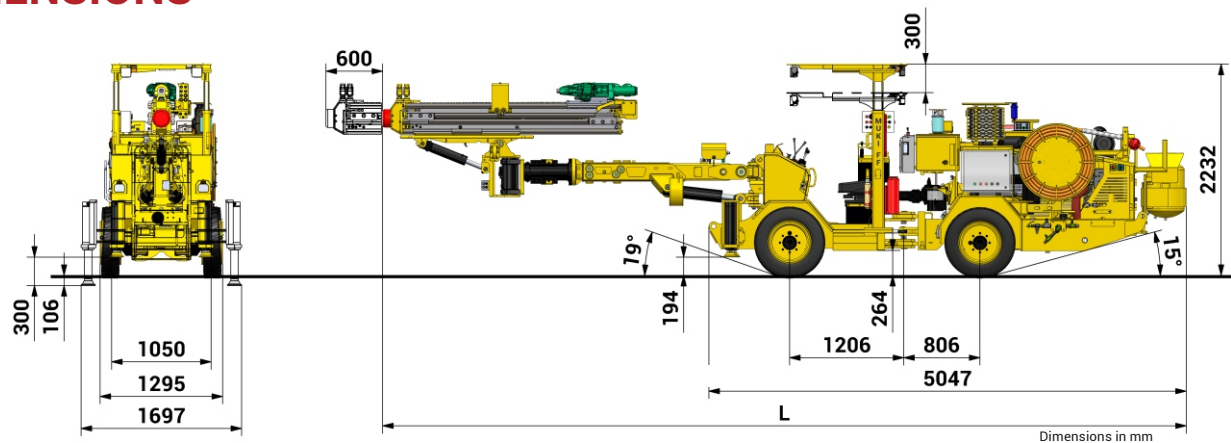
• Electric motor	55kW (75 HP)
• Voltage	380 - 1000 VAC
• Frequency	50 - 60 Hz
• Starting method	Star - Triangle
• Option to 1000 VAC	Direct start
• Overload protection and ground fault	
• Percussion horometer	24V
• Phase sequence indicator	
• Battery charger	IN 32 VAC, 300W 13A OUT 28 VDC
• Electric transformer	1.5 kVA
• Working lights	2X, LED 50W, 9-32V
• Electric cable reel	60 m
• Electric cable	3x2 - AWG
• Degree of protection	IP 55

OPTIONS

• Bolting kit	BULL 163 Cat pump Hydrabolt or Swellex Nozzle
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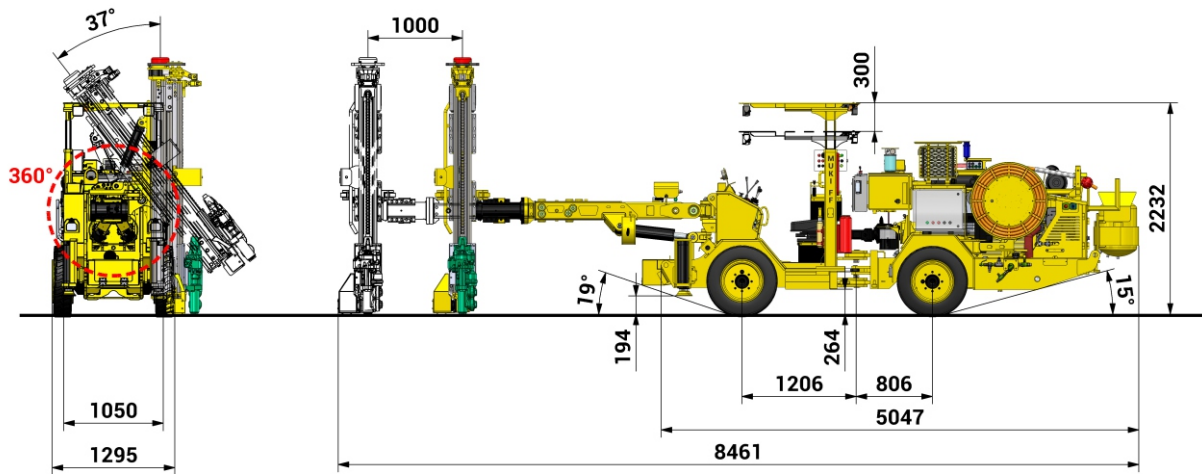
MUKI FF (semimecanized Roof Bolting option)

DIMENSIONS



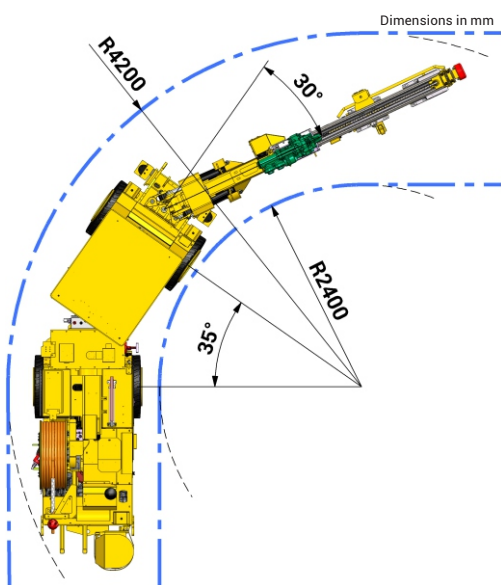
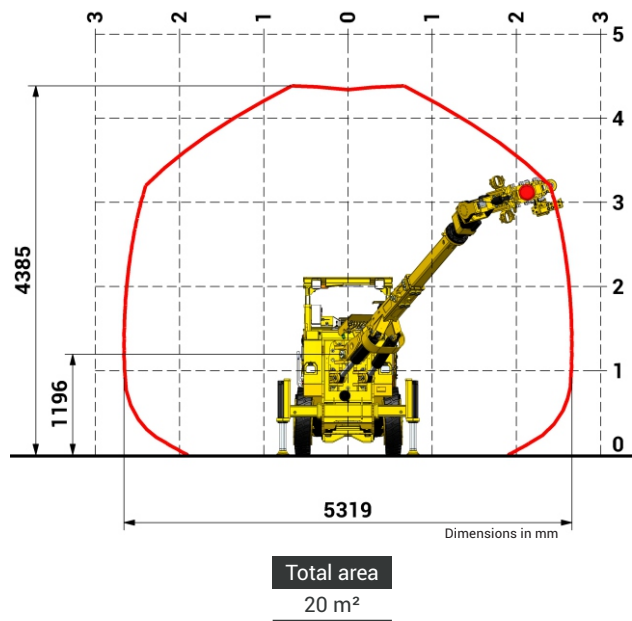
Feed	Telescopic	
	6'/10'	8'/10'
Length of rig (L)	8,496	8,563

Total Weight
8,020 kg

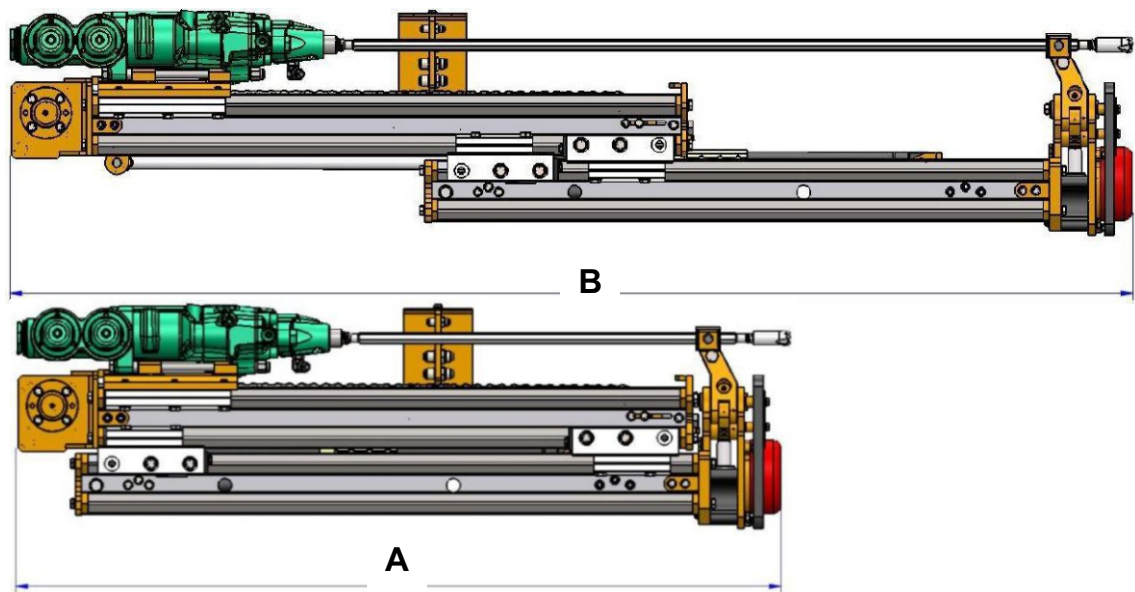


COVERAGE

TURNING RADIUS



Telescopic Feed options (Bolting)



Telescopic Feed	Retracted (A) mm	Extended (B) mm	Drill Steel Retracted	Drill Steel Extended	Bolt Length Intended
8 - 10	3320	3927	8' - R32 - Hex 28 - R28	10' - R32 - Hex 28 - R28	7' (2.1 m)
6 - 10	2710	3927	6' - R32 - Hex 28 - R28	10' - R32 - Hex 28 - R28	5' (1.5 m)
6 - 8	2710	3320	6' - R32 - Hex 28 - R28	8' - R32 - Hex 28 - R28	5' (1.5 m)
5 - 8	2410	3320	5' - R32 - Hex 28 - R28	8' - R32 - Hex 28 - R28	4' (1.2 m)
4 - 7	2020	3007	4' - R32 - Hex 28 - R28	7' - R32 - Hex 28 - R28	3' (0.9 m)

