



TERRA MINI-JET MJLV 1600

Horizontal Directional Drilling System
TERRA MINI-JET MJLV 1600

Swiss made



TERRA MINI-JET MJLV 1600



with optional surface launch equipment



with TERRA-ROCK Air Percussion Head

- Fluid assisted horizontal directional drilling system (HDD)
- For bores in lengths up to 120 m (400 ft) and backream diameters up to \varnothing 300 mm (12"), depending on ground conditions
- With ADBS II (thrust control)
- Special double chain drive, no loss of power at low speed
- Rock Drilling possible with the TERRA-ROCK Air Percussion Head
- Can be launched from a pit or from the surface
- Dimensions of the starting pit:
L = 2.50 m (8.25 ft), W = 1.30 m (4.3 ft), D = 0.3 m (1 ft) deeper than the bore axle.
- Drill rods 1.5 m (5 ft) long with minimum bending radius R = 25 m (82 ft)
- Locating depth up to 33 m (100 ft) (with locating system DCI Falcon F2 or F5)
- The mixing and pumping station mixes bentonite through a hopper injector. This makes the TERRA MINI-JET a real HDD drilling machine.

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The drill rig TERRA MINI-JET MJLV 1600 with drill head



The clearly arranged control panel



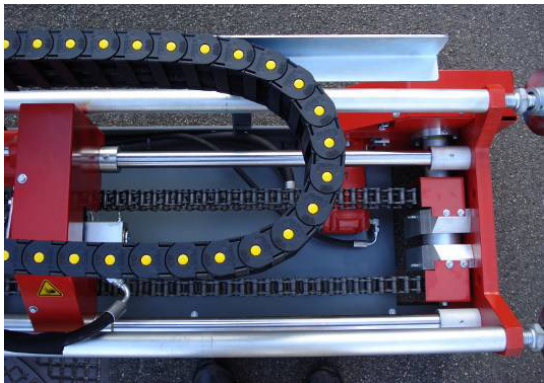
Hydraulic and electric connections



Fittings for hydraulics and drilling fluid



The star knob adjusts the ADBS II pressure. The right knob adjusts the drill rod rotation speed.



View at the driving saddle and the double chain drive



- with 3 cylinder KUBOTA Diesel engine with 24 kW (33 HP)
- the Diesel engine operates at 2'500 r.p.m.
- electrical adjustment of the engine speed
- supersilent
- low Diesel fuelconsumption
- with 2 independenthydrauliccircuits
 - 56 ltr/min @ 175 bar (15 gpm @ 2'500 psi) for the pit frame
 - 28 ltr/min @ 125 bar (7.5 gpm @ 1'800 psi) for the mixing + pumping station
- box for documents
- large oil cooler with 6.4 kW cooling power, allows even tropical and desert operation
- service friendly
- environmentally friendly. It fulfils today's Emission Limits, (EURO 3A, TIER 4i)
- Optional with particle filter
- 12 Volt plug with 5 A (60 W)
- weight: 600 kg (1'300 lbs)
- with separate 1'100 ltr tank (290 gal) or 2'000 ltr tank (530 gal)
- for Bentonite or Ejactomer
- with support plate for 2 bags of Bentonite each 25 kg (50 lbs)
- the Bentonite can be easily filled into the funnel
- mixing pump with 800 ltr/min (210 gpm)
- injector (venturi hopper)
- 1'100 ltr (290 gal) of drilling fluid are mixed with Bentonite within 4 minutes
- high pressure drilling fluid pump of FMC
- maximum drilling fluid volume: 52 ltr/min (14 gpm)
- maximum drilling fluid pressure: 55 bar (800 psi)
- weight without tank: 175 kg (385 lbs)

Technical Data TERRA MINI-JET MJLV 1600

Pullback force	60 kN (6 tonnes) @ 175 bar 13'200 lbs @ 2'500 psi	Max. ϕ backream diameter*	300 mm	12"	
Thrust force	60 kN (6 tonnes) @ 175 bar 13'200 lbs @ 2'500 psi	Max. drilling length*	120 m	400 ft	
Torque	1'600 Nm	1'200 ft. lbs	Rotation speed drill rods	0 – 125 rpm	0-125 rpm
Drilling fluid volume	0 - 52 ltr/min	0-14 gpm	Drill rod, length	1.5 m	5 ft
Drilling fluid pressure	0 - 55 bar	0-800 psi	Drill rod, ϕ	45 mm	1.77"
Speed quick gear	14 m/min	46 ft/min	Min. bending radius	25 m	82 ft
			L x W x H	2.30 x 0.60 x 1.27 m	90" x 24" x 50"
Speed drilling	2.5 m/min	8.25 ft/min	Weight of drilling	430 kg	946 lbs
Speed backreaming	2.5 m/min	8.25 ft/min			

*depending on ground conditions

*technical data may change without prior notice

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