FAMBITION
QINGDAO FAMBITION HEAVY MACHINERY CO.,LTD.

FHD2715 TECHNICAL SPECIFICATION



High-efficiency Equipment, Made by FAMBITION

FHD2715 is a compact and flexible single boom electro-hydraulic jumbo for development drilling in narrow vein and mass mining as well as in tunneling, in cross sections up to 34 m².

FHD2715 is equipped with the MONTABERT HC95 hydraulic rock drill, which delivers 21 kW of percussion power. It features a dual buffer design, high idle rotation efficiency, and anti-jamming design, achieving high penetration rate and good rock tool life under various rock conditions. The professionally designed drill arm is equipped with 360° feed rotation, automatic parallelism and a large and optimally shaped coverage for fast and accurate face drilling and versatility.

The whole machine adopts a 4-wheel hydrostatic drive chassis, central articulated steering, diesel power drive for walking, which features a FOPS-approved safety canopy, and layout designed for good visibility and stability in tramming in small mining drifts and tunnels with cross-section (width*height) minimum 2.7 m*3.0 m and maximum 6 m*6 m. The operating and maintenance interface are designed for easy access, safe operation.

Main technical features:

- Central articulated structure, fully hydraulic powered steering, hydrostatic four-wheel drive, small turning radius and strong passability
- High-quality alloy steel, advanced machining technology, heat treatment technology and innovative design ensure that the vehicle body structure is sturdy and durable
- Adjustable roof with FOPS certification to ensure driving safety
- Main components of the vehicle made of world-class brands to ensure stable and efficient operation
- Deutz low-pollution engines to meet the Euro Stage V emission standards

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Address: No.31, Beijing East Road, Longshui Subdistrict Office, Laixi City, Qingdao, Shandong, China.
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Key Features	
Coverage area	34 ㎡
Rock drill	1*HC95
Drill feed	1 * FDF600-12′ (12′ rods)
Boring length	3 440 mm (12′ rods)
Tunnel width	2 750 mm (FDF600-12′)
Transport width	1 600 mm
Transport height	2 070 mm/2 750 mm
Transport length	10 415 mm (FDF-600-12′)
Operating weight	11 900 kg

Hydraulic Rock Drill	
Type of rock drill	MONTABERT HC95
Percussion power	21 kW
Percussion pressure	Max. 180 bar
Percussion frequency	55-63Hz
Rotation speed	Max. 300 rpm
Rotation torque	477 Nm
Hole diameter (Face drilling)	43-64 mm
Hole diameter (Reaming)	76-127 mm
Recommended rod	T38-Hex 35-R32 T38-Hex 35-Alpha 330 T38-Hex 35 -R35
Shank adapter	T38
Weight	175 kg
Length	917.5 mm
Height	172 mm

Drilling Feed				
Type of drilling feed	FDF600-10′	FDF600-12′	FDF600-14′	FDF600-6′/12′
Feed force	Max. 25 kN			
Total length	4 660 mm	5 270 mm	5 880 mm	3 540/ 5 370 mm
Rod length	3 090 mm	3 700 mm	4 305 mm	1 830/ 3 700 mm
Hole length	2 830 mm	3 440 mm	4 050 mm	1 610/ 3 440 mm
Weight (without hoses)	470 kg	500 kg	530 kg	620 kg

Boom	
Type of boom	FD26F
Parallel coverage	29 ㎡ (Parallel holes)
Parallelism	Automatic hydraulic
Boom extension	1 200 mm
Feed extension	1 600 mm
Boom weight (net)	1 850 kg
Feed roll-over angle	360°

Hydraulic System	
Operating principle	Direct hydraulic control
Percussion, feed and boom pump	80 cc+46 cc+33 cc (Triple pump)
Travel pump	Rexroth
Travel motor	Pocalin
Brake pump	Marzocchi
Steering pump	Parker
Filtration size (pressure/return)	10μ/10μ
Oil tank volume	200 L
Filling pump for hydraulic oil	Electric
Cooler for hydraulic oil	OW30 oil-to-water (30 kW)
Low oil level indication	Level indicator and automatic switch-off

Drilling Control System	
Type of control system	Hydraulic control
Parameterized control	Automatic drilling and feed/percussion control
Automatic function	Anti-jamming system

Electrical System	
Standard voltage	380 V (±10%)
Frequency	50-60 Hz
Total installed power	70 kW
Main motor	WEG W21-55 kW (IP66)
Degree of protection	IP66
Starting method	Star-delta starter380-575V
Automatic cable reel	CR with tramming interlock
Cable reel control	At the operator station
Cable specification	TROFLEX MYPB 0.66/1.14 4*50K

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Phase relay protection	Automatic
Front lights (Combined working and driving)	4*20 W LED (24 V)
Rear lights	2*20 W LED (24 V)
Operator station light	1*5 W (24 V)
Amber flashing light	LED (24 V)
Batteries	2*12 V, 80 Ah

Air and Water System	
Flushing of holes	By water
Water booster pump type	3 kW
Water pump capacity	33 L/min, 15 bar (Inlet pressure=4 bar)
Water pump inlet pressure	2-5.4 bar
Flushing water pressure	10-15 bar
Shank lubrication device	air/oil mist
Air compressor	1.0 m³/min, 7 bar
Rock drill oil consumption	180-250 g/h
Rock drill air consumption	250-350 L/min

Operator’ s Canopy	
FOPS/ROPS Certification	FOPS (ISO 3449: 2004)
Unit height in tramming (FOPS)	High position: 2 750 mm Low position: 2 070 mm
Operator’ s seat	For working Adjustable with seat belt

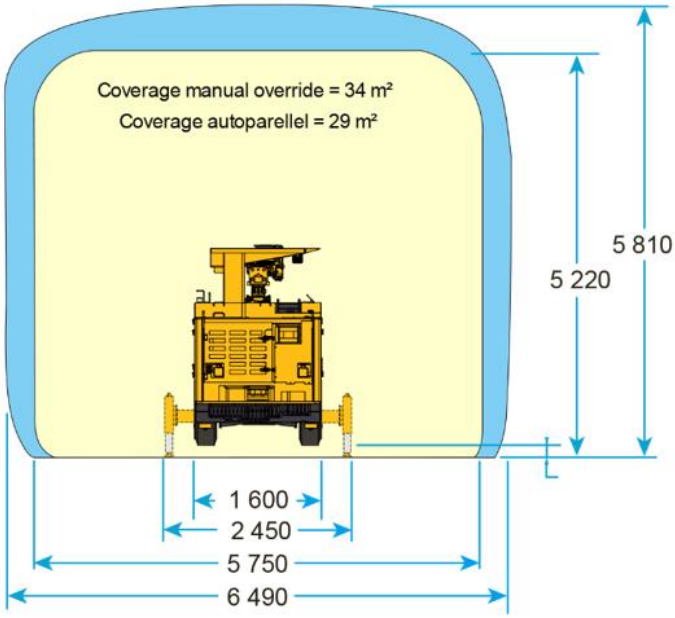
Carrier	
Type of carrier	Central articulation
Carrier articulation	±35°
Rear axle oscillation	±6°
Ground clearance	295 mm
Diesel engine	Deutz TCD 3.6L4 (74 kW, Stage V)
Exhaust catalyzer	Standard
Transmission	Hydrostatic
Wheel drive type	4-wheel drive
Tires	10.00-15
Service brakes	Hydrostatic and positive braking
Parking and emergency brakes	SAHR wet disc brakes
Tramming speed	8 km/h (Horizontal) 4 km/h (14%=1:7=8°)
Gradeability / sideways tilt	15°/5°
Fuel tank	60 L
Boom stabilization	2*hydraulic cylinder (Front) 2*hydraulic cylinder (Side)
Brake release	Manual hand pump
Hand held fire extinguisher	1*6 kg (Type ABC)
Tramming alarm	Standard
Documentation	4*operator’ s manual 4*maintenance manual 4*parts manual 4*electronic manual (PDF files)

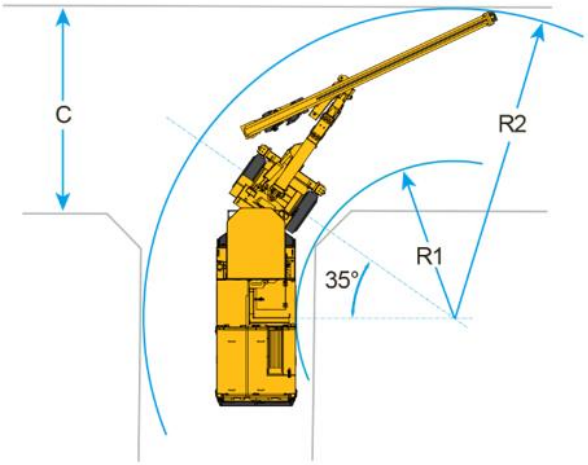
Options	
Drilling Feed	
Feed length	FDF610 (10’ rods) or FDF614 (14’ rods)
Telescopic feed length	TFX6/12
Retainer	Safety wire 35 mm
Air and Water System	
Air mist flushing kit	CTN16 with 1*60 L air receiver
End-of-hole flushing	1*60 L air receiver
Dry drilling	CTN16 with 1*60 L air receiver Air/oil cooling
Lubrication System	
Manual system	Greasing unit with pump, reel and nozzle (Spec. 5-2110)
Fire Suppression System	
Manual system	Ansul, 6 nozzles (Spec. 5-9800)
Carrier	
Tubeless tire	4 pcs
Wheel chocks and holders	2 sets
Extra Items	
Towing socket	
Spare rock dril	Perald (China)

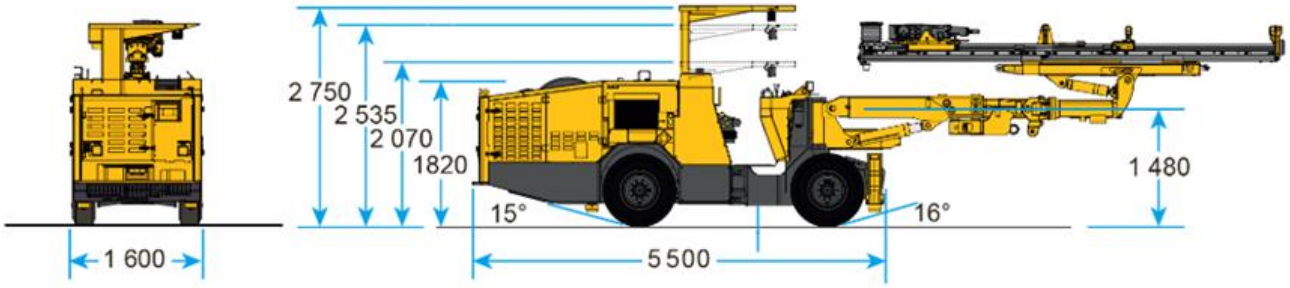
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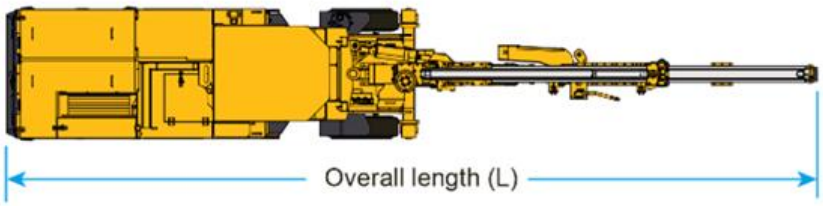
Spare rim

Type of feed	R1	R2	C	L
FDF600-10	2 900 mm	4 980 mm	2 630 mm	9 835 mm
FDF600-12	2 900 mm	5 100 mm	2 750 mm	10 415 mm
FDF600-14	2 900 mm	5 235 mm	2 880 mm	10 635 mm
FDF600-6/12	2 900 mm	4 930 mm	2 510 mm	10 160 mm









Parameters may vary due to different customer requirements.
Qingdao Fambition Heavy Machinery Co., Ltd. reserves the right of final interpretation.

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