



CREG

MakeTunnelling Safer,Better and Faster

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DJ2E S

**Two-boom
Dill Jumbo**

Technical Specification



Intelligence: Better, Faster, Safer Construction

KEY FEATURES

Coverage(H x W)(m)	7.8×10.3
Hydraulic rock drill	HC110
Drill feed	12-20ft
Boom	Telescopic square
Hole length(mm)	3425-5860
Hole diameter (drifting)(mm)	43-140
Automation package	Basic, Standard, Total
Turning radius(l/O)(m)	4.05/7.55
Transport width(mm)	2310
Transport height(mm)	3050
Transport length(mm)	14650
Total weight (with basket boom)(kg)	30000 depending on options

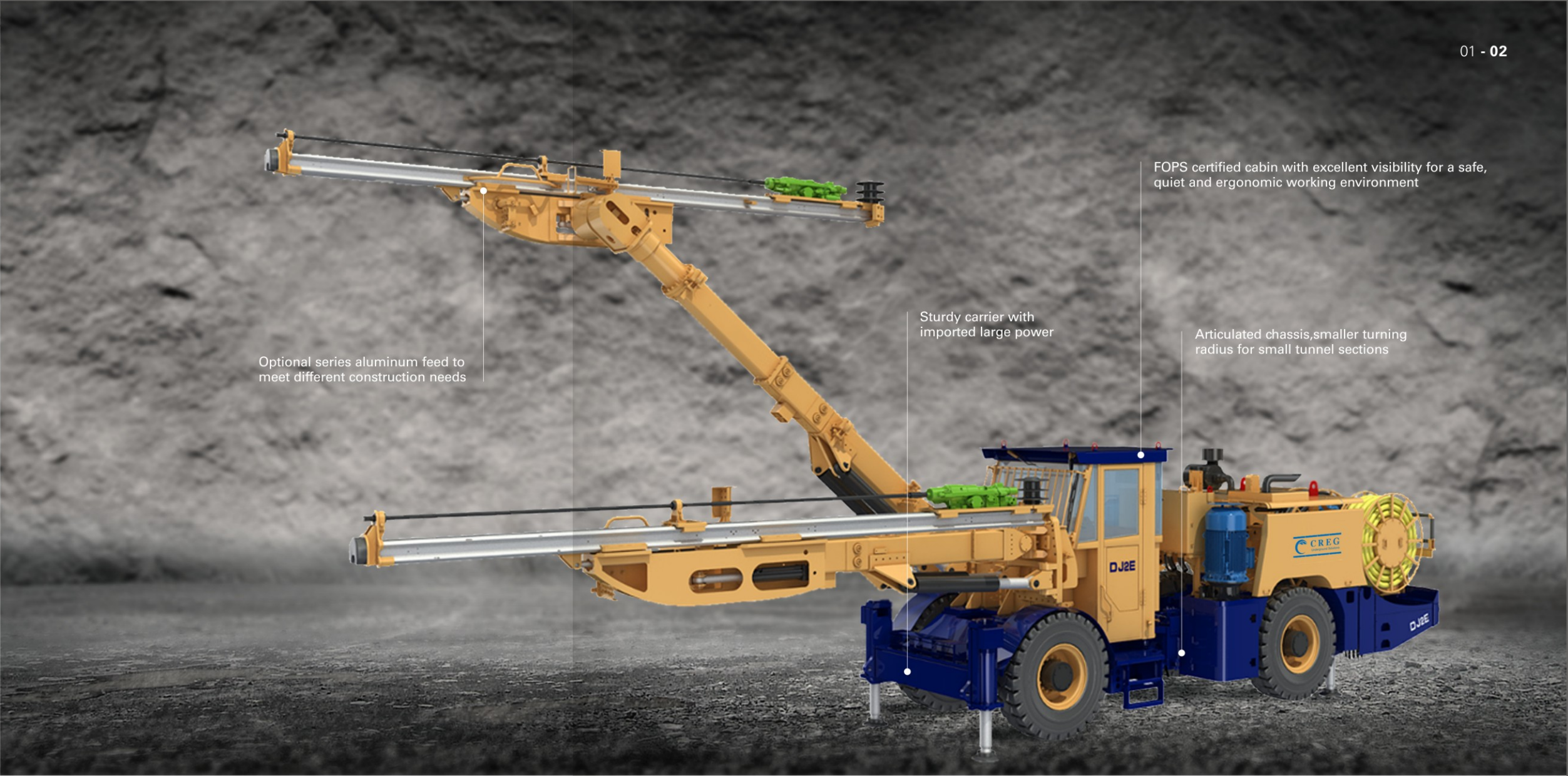
CREG DJ2E S is a fully automated E-series tunneling jumbo equipped with two electro-hydraulic booms for fast and accurate drilling in small scale tunneling and underground mine. This jumbo offers superior coverage 70m².

It is capable of comprehensive drilling and ground support features, include drilling blasting holes, anchor holes, grouting holes, pipe shed holes, advanced detection holes, etc.

DJ2E S is equipped with an intelligent drilling control system ICS4.0 which helps to minimize hole deviation during drilling, reduce jamming, and maximize the tool life and penetration rate.

It is available with scalable automation options, includes from boom with electronic parallel, up to fully automated drilling.

Comprehensive drill planning, reporting, and analyzing tools help to achieve high quality results in drilling and blasting precision for maximized excavations per blast.



Main Benefits

Versatile and highly productive

Articulated chassis and four-wheel drive make the equipment highly maneuverable.

Equipped with HC110 rock drill, DJ2E S has more rock drill power to improve drilling efficiency ,low drilling tools loss, saving time and money.

In addition to face drilling, DJ2E S can also be utilized in other applications such as: advanced long-hole drilling, advanced grouting drilling, bolt hole drilling.



Accurate positioning

- > Total station navigation positioning
- > Positioning accuracy ≤7cm



Drilling efficiency

- > 27kW HC110 rock drill for comprehensive drilling
- > Driling speed 3-4 m/min



Convenient operation

- > Multi-language operation interface, easy to use
- > Fault diagnosis module, easy maintenance trouble shooting

DJ2E S
Two-boom dill jumbo



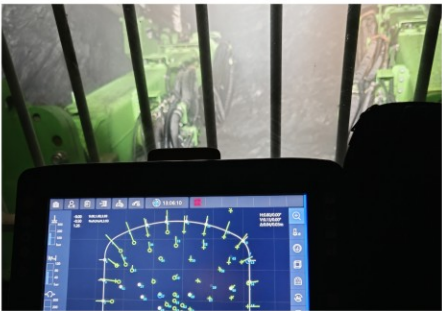
Sturdy articulated chassis

Articulated chassis and four-wheel drive make the equipment highly maneuverable. Large power ensure the driving capability.



Telescopic feed (Optional)

Optional series telescopic aluminum feed is to meet different construction needs. blasting holes, Bolter holes, grouting holes, pipe shed holes, advanced detection holes, in a limited space where both long and short rods have to be used.



Optimized working environment

FOPS certified cabin with excellent visibility for a safe, quiet and ergonomic working environment



Digital drilling trainer(Optional)

Through simulation, operators develop skills fully different type ofjumbo using various training scenarios.



Instrumented square boom

Standard telescopic instrumented square boom, double roll-over and self-parallel function, positioning efficient, stable, accurate, reduce over-digging.



Teleremote drilling(Optional)

Teleremote drilling allows a better utilisation of workforce and equipment and improved operator safety and performance.



All-round after-sales service of CREG

Adhering to the development concept of "professional manufacturing and professional service", we have established an after-sales service organization specializing in tunnel and mine construction equipment.

At present, the after-sales service center has nearly 200 service engineers, and has the after-sales ability to carry out multiple work points and various equipment at the same time. We can provide 24-hour comprehensive service for you.

TECHNICAL SPECIFICATION

Hydraulic rock drill	
Type of rock drill	HC110×2
Percussion power(kW)	27
Stabilizer	hydraulic
Hole size (drifting)(mm)	43 - 89
Hole size (cut hole)(mm)	76 - 140
Recommended rod	T38 - H35 - R32 T38 - R39 - R35 T45 - R46 - T45
Shank adapter	T38M/T45M
weight(kg)	215
length(mm)	1093
Profile height(mm)	100.5

Drilling feed					
Type of feed	Feed force (max.)(kN)	Total length (mm)	Hole length (mm)	Rod length (mm)	Net weight (kg)
BMH68-12	23	5485	3425	3700	640
BMH68-14	23	6090	4030	4305	670
BMH68-16	23	6700	4640	4915	700
BMH68-18	23	7310	5250	5525	730
BMH68-20	23	7920	5860	6135	760

Boom	
Type of boom	Telescopic square
Parallel coverage(m²)	70
Parallelism	Electric
Boom extension(mm)	1200
Feed extension(mm)	1800
Roll-over angle(°)	±180
Boom weight(kg)	3850

Hydraulic system	
Powerpack(kW)	2×90
Percussion pump(mL/min)	140
Rotation pump(mL/min)	50
Filtration size (pressure / return)(μm)	10 / 10
Oil tank volume(L)	500
Oil tank filling pump	Electric
Cooler for hydraulic oil	Oil to water

Electric system	
Voltage/Frequency(V/Hz)	380/50
Total input power(kW)	220
Starting method	Y-△
Cable reel control (in / out)	Operator station and remote control at rear machine)
Outlets on carrier(V)	220
Front lights (combined working and driving)	4×100 W+4×48W LED (24 V)
Rear lights(driving)	4×100 W+4×48W LED (24 V)
Amber flashing light	LED (24V)
Stair service lights	2×LED (24V)
Electric current draw reducer unit	Standard

Drilling control system	
Type of control system	ICS4.0
Higher level in automation	Upgradable
Diagnostic system	Comprehensive
Drilling control mode	Advanced torque control system / feed percussion/manual control
Boom control	Fully proportional
Touch screen display	15" full color
Control system software	Support and maintenance package
Total station navigation set	Excl. total station
Data Platform	Configurable

Automation package (Basic)	
ICS platform	
Human-computer interaction interface	
Anti-jamming drill	
Drill jumbo suitable with various navigation methods	
Fault diagnosis	
Boom electric parallelism	

Automation package(Standard)	
ICS platform	
Human-computer interaction interface	
Anti-jamming drill	
Boom electric parallelism	
Automatic feeder	
Drill plan visualisation on-board	
Display of drill bit location vs. given drill plan	
TAS software (license for free)	
Drill jumbo suitable with various navigation methods	
Fault diagnosis	
DrillConnect mobile application : Connectivity through Knowledge (optional)	

Automation package(Total)	
Automation Standard package content	
Automatic drilling	
Multi-machine cooperative obstacle avoidance	
Anti-personnel error entering system	
Advanced MVVD data collection with reporting and analyses tool	
DrillConnect mobile application : Connectivity through Knowledge box for easy data transfer to and from the jumbo	
Automatic navigation guidesystem	

DJ2E S
Two-boom drill jumbo

TECHNICAL SPECIFICATION

Air and water flushing

Water pump power(kW)	11
Water pump capacity(L/min)	260
Water pump inlet pressure(bar)	Min.2
Flushing water pressure(bar)	10-15
Water outlet(bar)	5-15
Shank lubrication device	Air/oil mist
Air compressor	1.6m³/min at 8bar
Rock drill oil consumption(mL/min)	0.7
Rock drill air consumption(L/min)	300

Operator's safety cabin

Safety cabin	FOPS/ROPS(ISO 3449/3471)
Seat	Fully adjustable seat
Cabin audio system	MP3 with radio
Electricity outlets(V)	220(16A)

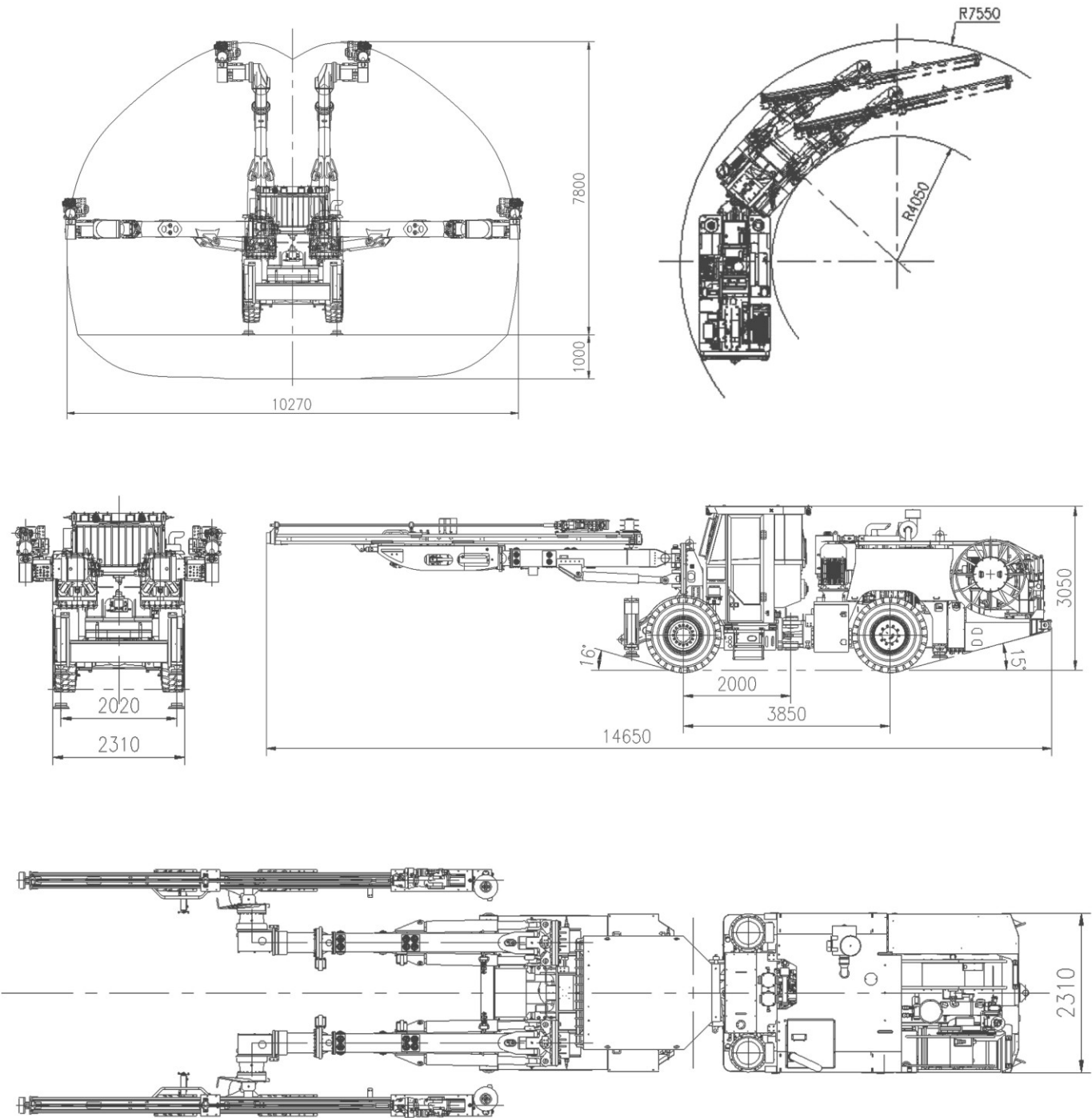
Carrier

Carrier articulation(°)	±40
Rear axle oscillation(°)	±6
Ground clearance(mm)	330
Diesel engine	162kW,Stage IV
Transmission	Hydromechanical
Tires	14.00-24
Brakes	Fail-safe wet disc brakes
Tramming speed(km/h)	15
Gradeability / sideways tilt(°)	15/5
Fuel tank(L)	200
Centralized greasing points	Manual
Hand held fire extinguisher	1×6kg
Tramming alarm	Standard
Colour scheme	CREG
Documentation	1 x Operator's manual 1 x Maintenance manual 1 x Parts manual (in English and according to customer needs)

Optional features and packages

Rock drill	
Rock drill type	HC110/HC95SA/A18D/L
Drilling feed	
Feed length(According to drill rod)	12'/14' /16' /18' /20'
Rod retainer	Adapts to various feeds
Pipe umbrella system	Pipe following drilling system
User interface	Configurable
Data transfer	Configurable
Electric system	
Multivoltage basic	400V/690V, 50 Hz/60 Hz
Electric cables	100m
Main motor	55kW/75kW/90kW depending on rock drill
Ground fault and overcurrent unit	Standard
Outlet on carrier	Standard
Spot lights	Standard
Air and water system	
Air compressor	Configurable
End of hole air flushing	Configurable
Air mist flushing kit	Configurable
Cleaning system	
HP system with reel	Up to 180bar
Greasing system	
Automatic system	Carrier, boom
Fire suppression system	
Spare hand held fire extinguisher	1 x 7.7 kg or 9 kg (type ABC)
Manual	Yes
Automatic system	Yes
Carrier	
Diesel engine	Stage V
Tramming cameras	Rear, side and front
Rod rack	Standard
Extra items	
Spare wheel assembly	Standard
Special tools for rock drill	Field tool set / complete tool set
Documentation	Extra manuals for free
Package: Country specific options	EUR, AUS, LAM,ME

TECHNICAL DRAWING



Feeder and overall length

Feeder model	BMH68-12'	BMH68-14'	BMH68-16'	BMH68-18'	BMH68-20'
Feed length	5485	6090	6700	7310	7920
Overall length	12700	13450	13900	14650	15260