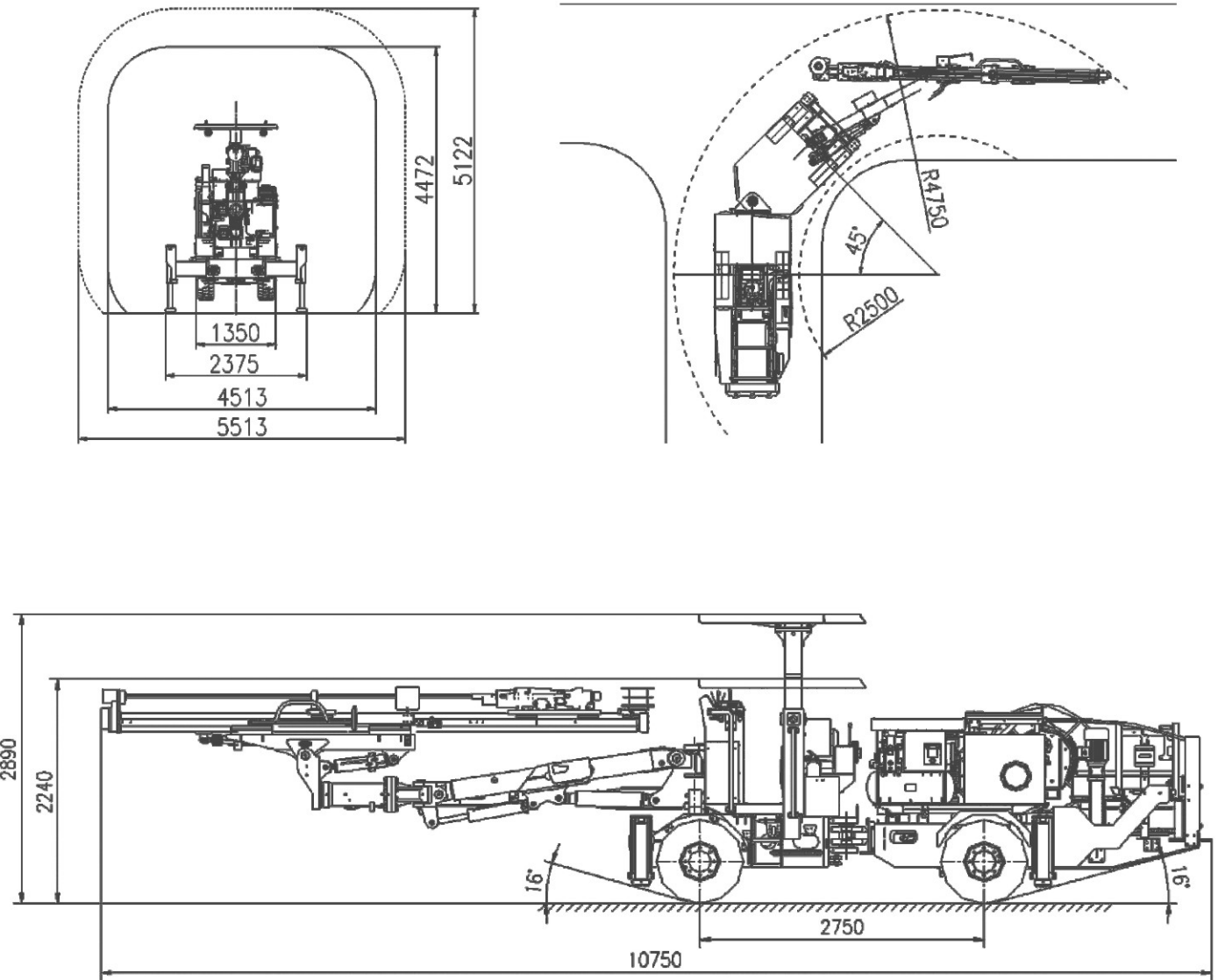


DJ1A S
One-boom drill jumbo

TECHNICAL DRAWING



Feeder and overall length			
Feeder model	ZTH-12'	ZTH-14'	ZTH-16'
Feed length	5336mm	5950mm	6560mm
Overall length	9980mm	10580mm	11180mm



China:
China Railway Engineering Equipment Group Co.,Ltd.
E-mail: info_intl@crectbm.com
Tel: +86 0371 6581 5987
Address: No.99, 6th Avenue National Economic &
Technical Development Zone 450016 Zhengzhou,
Henan Province People's Republic of China

Europe & South & North Americans:
CREG TBM Germany GmbH
E-mail: info@creg-germany.com
Tel: +49 211 52288900
Address: CREG TBM Germany GmbH
Willstätterstraße 15 40549 Düsseldorf
Germany

Southeast Asia:
China Railway Engineering Equipment Group Co., Ltd.
Singapore Branch
E-mail: info_singapore@crectbm.com
Tel: +65 6747 8091
Address: 1004 Toa Payoh North, #06-15/16/17,
Singapore 318995

Italy:
China Railway Engineering Equipment Group Co.Ltd
Italy Branch
Email: creg.italy@legalmail.it
Address: Viale Giuseppe Mazzini 55, 00195
Roma

Korea:
CREG Co.,Ltd. South Korea Branch
E-mail: info_korea@crectbm.com
Tel: +82 010-2156-8662
Address: No.1521, Building B,
Terra-tower, 651, Songpa-gu,
Seoul, Republic of Korea

Oceania:
CREGA Australia Office
Email: info@crega.com.au
Tel: +612 9698 0018
Address: Unit 1, 118 Bourke Road
Alexandria NSW 2015
Australia

DJ1A S

One-boom Drill Jumbo

Technical Specification



DJ1A S
One-boom drill jumbo



Optimization of narrow tunnel Drilling

KEY FEATURES

Coverage(H×V)(m)	5.12×5.51 (manual override) 4.47×4.51 (parallel holding)
Hydraulic rock drill	1×A18D/L
Drill feed	ZTH-12, 10-16ft
Hole length(mm)	2820-4600
Hole diameter (drifting)(mm)	43-102
Drilling control system	Electronic pilot control
Turning radius(I/O)(m)	2.52/4.65
Transport width(mm)	1350
Transport height(mm)	2239
Transport length(mm)	10687(with ZTH-12 feed)
Total weight(kg)	9600 depending on options

CREG DJ1A S is a compact and flexible one-boom electro-hydraulic jumbo for tunneling, hydo-power and mining tunnel in cross sections up to 28m².

Electronic pilot control system with open body design makes easy operation and convinent maintenance, creating more value for customers.

Compact body of DJ1A M features a articulated chassis , can tramming fast in small tunnels.

The boom has the function of keeping parallel in all directions, which ensures that the feed can be positioned directly, quickly and accurately, and improves drilling efficiency.

Various options are available for all kinds of operation requests.

Main benefits

Efficient drilling proposal in small tunnels:

- DJ1A S covers a wide range in small section tunnel and can meet the construction requirements of tunnel section 2.5×2.5-5.9×5.2 meters.
- Articulated chassis, compact body layout and four-wheel drive ensure efficient transition and operation in small cross-section roadways.
- Cost-Effective Development: Small drifts reduce development costs significantly.
- Provide advanced mine drilling technology tailored to improve productivity and sustainability

Drilling control upgraded

- CREG DJ1A S is now equipped with new electric drilling control system, can upgraded enclosed cabin to improve the operator's comfortability.
- The new drilling control reduces the number of spare parts required and simplifies the machine drilling transitions process for operators.

TECHNICAL SPECIFICATION

Hydraulic rock drill					
Type of rock drill	A18D/L×1				
Percussion power(kg)	18				
Stabilizer	hydraulic				
Hole size (drifting)(mm)	43-76				
Hole size (cut hole)(mm)	76-102				
Recommended rod	T38 - H35 - R32 T38 - R39 - R35 T45-R46-T45				
Shank adapter	T38M, T45M				
weight(kg)	170				
length(mm)	1008				
Profile height(mm)	88				

Drilling feed					
Type of feed	Feed force (max.)(kN)	Total length (mm)	Hole length (mm)	Rod length (mm)	Net weight (kg)
ZTH-12	23	5336	3425	3700	640
ZTH-14 Standard	23	5950	4030	4305	670
ZTH-16	23	6560	4640	4915	700

Boom	
Type of boom	Telescopic square
Parallel coverage(m²)	28
Parallelism	Hydraulic
Feed extension(mm)	1600
Roll-over angle(°)	±180
Boom pitch(°)	-16/45
Boom swing(°)	-31/26
Boom weight,net(kg)	2700

Hydraulic system	
Powerpack(kW)	1×55
Percussion pump(mL/r)	100
Rotation pump(mL/r)	160
Filtration size (pressure / return)(µm)	10 /10
Oil tank volume(L)	200
Oil tank filling pump	Electric
Cooler for hydraulic oil	Oil to water

Electric system	
Standard voltage(V)	380(±10%)
Voltage frequency(Hz)	50/60
Total input power(kW)	63k
Starting method	Y-△
Cable reel control (in / out)	Operator station and remote control at rear machine)
Cable length(m)	70m
Cable overdischarge protection	Standard
Carrier electric system	Continuous 120 A 27 VDC
Outlets on carrier	1×230V(16A)
Front lights (combined working and driving)	8 x 100 W+4×48W LED (24 V)
Rear lights (driving)	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	Electric pilot
Manual boom control	Direct control Fully proportional Hydraulic parallelism
Drilling control	Feed / percussion control Flushing control Anti-jamming system
Control system software	Support and maintenance package, Full life cycle
TF feed adjustment	Electric

Air and water flushing	
Water pump power(kW)	4
Water pump capacity(L/min)	66
Water pump inlet pressure(bar)	Min.2
Flushing water pressure(bar)	5-15
Shank lubrication device	Air/oil mist
Air compressor	0.6m³/min at 6bar
Rock drill oil consumption(ml/min)	0.7
Rock drill air consumption(L/min)	300

Operator's safety cabin	
Safety cabin	FOPS
Cabin height (tramming / inside height)	2865/2230mm
Operation	Standing drilling, seated tramming
Operator's seat	For tramming Adjustable with seat belt
Air conditioning / heating	Optional
Cabin audio system	MP3 with radio
Electricity outlets	1×220V(16A)

Carrier	
Carrier articulation(°)	±35
Rear axle oscillation(°)	±7
Ground clearance(mm)	330
Diesel engine	CN-Stage IV
Transmission	Hydrostatic
Tires	9.00-20 16PR ZM722
Service brakes	Hydrostatic and positive braking
Tramming speed(km/h)	Max. 12
Gradeability / sideways tilt(°)	15/5
Fuel tank(L)	90
Carrier stabilization	Hydraulic telescopic outjumboger (front) Hydraulic telescopic outjumboger (rear)
Hand held fire extinguisher(kg)	1×6.0
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)

DJ1A S
One-boom drill jumbo

Optional features and packages	
Rock drill	
Rock drill type	HC110/HC95SA
Drilling feed	
Feed length(According to drill rod)	12',14',16'
Telescopic feed	6'/12',8'/14'
Rod retainer	Adapts to various feeds
Rod handling system	Incl. rod retainer+ PE for 8' or 10' or12' extension rods, 8 + 1 extension rods)
Pipe umbrella system	Pipe following drilling system

Electric system	
Optional voltage basic	400/690/1000V, 50 /60 Hz
Electric cable(m)	80/100
Ground fault and overcurrent unit	Standard
Outlet on carrier	Standard
Spot lights	Standard
Cable plug holder	Optional

Air and water system	
End of hole air flushing	Configurable
Air mist flushing kit	Configurable
Water hose reel with water hose	Optional

Cleaning system	
HP system with reel	Up to180bar

Greasing system	
Automatic system	Carrier, boom

Fire suppression system	
Spare hand held ffre extinguisher	1 x 7.7 kg or 9 kg (type ABC)
Manual system	Optional
Automatic system	Optional

Carrier	
Diesel engine	EU-Stage V, Tier 4F
Tramming cameras	Rear, side and front
Rod rack	Standard

Extra items	
Spare wheel assembly	Standard
Special tools for rock drill	Complete tool set
Documentation	Extra manuals for free
Package: Country speciffc options	EUR,AUS,LAM,ME