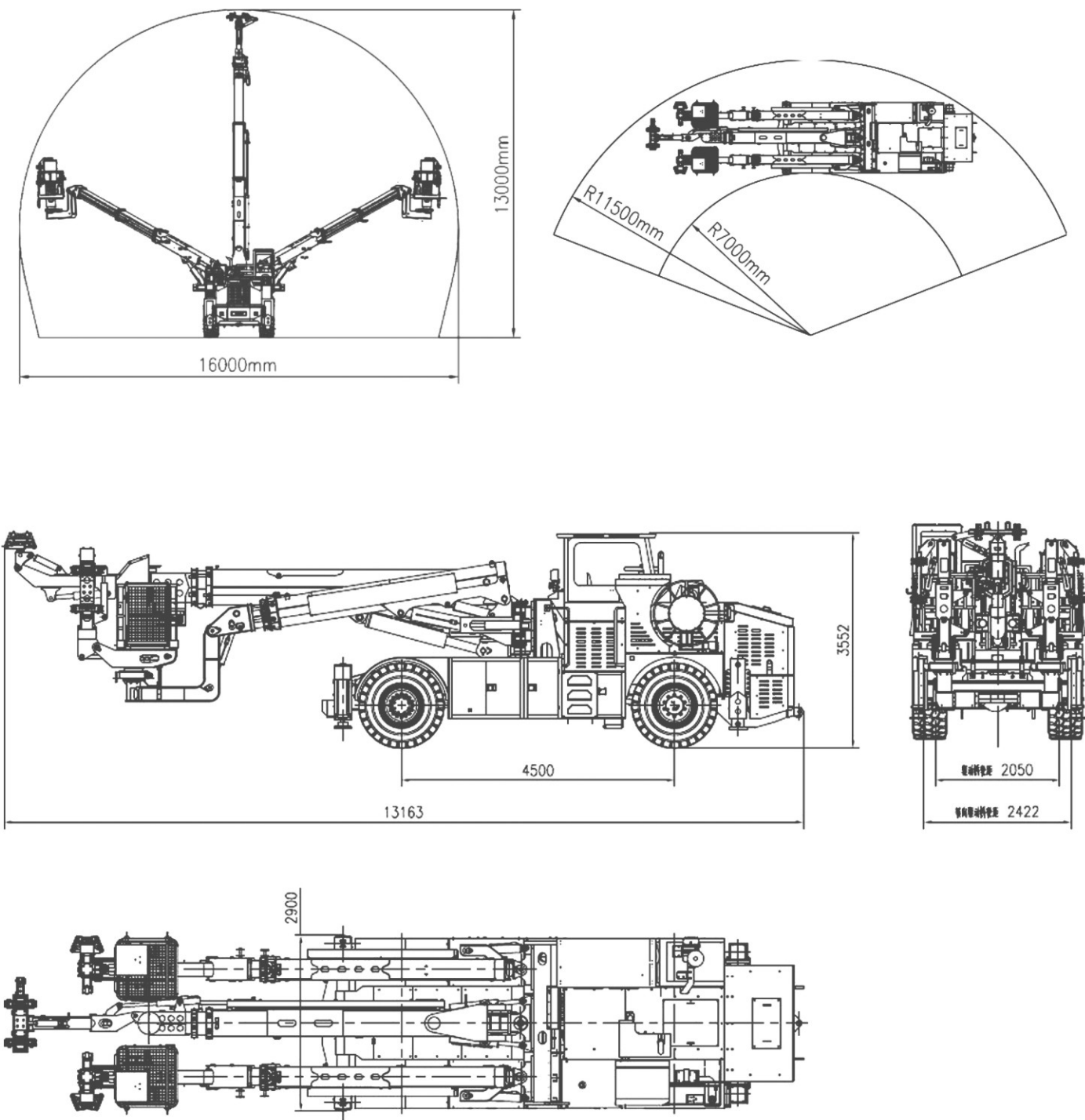


AJ3A
Arch installing jumbo

TECHNICAL DRAWING



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AJ3A

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Technical Specification



AJ3A
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Exceptional Value

KEY FEATURES

Coverage(HxW)(m)	13×16
Load of main boom(kg)	3000
Load of auxiliary boom(kg)	1500
Turning radius(l/O)(m)	70/11.5
Transport width(mm)	2900
Transport height(mm)	3500
Transport length(mm)	13000
Total weight(kg)	29500 depending on options

CREG arch installing jumbo AJ3A is designed for arch support operation for railway and highway tunnel constructions and underground chambers.

The main boom load capacity is 3t. The auxiliary boom load capacity is 1.5 t, which can meet the assembly of multiple prefabricated arch frames, and the efficiency can be increased by more than 50%.

With the ability of switch between diesel engine mode and electric mode the machine can still work effectively in the event of one power failure.

Remote and local dual-mode control, supplemented by an electronic pilot control mode, features convenient operation and easy maintenance, thus creating greater value for customers.

Two-way driving and four-wheel driving enhances the vehicle's turning capability and passability.

Various options are available for all kinds of operation requests.

Main benefits

Versatile and high productive

Equipped with three booms and two service platforms, CREG AJ3A can install three prefabricated steel arch frames at one time, greatly improving operation efficiency, saving time and cost.

In addition to arch installation, AJ3A can also be used for work-at-height operations such as explosive charging, duct installation, etc.Dnd the optional drilling system can be equipped for synchronous construction of feet-lock bolts.

50%

Improved productivity

Up to 50% efficiency improvement compared to traditional construction processes

50%

Reduce labor

Reduce the number of workers by more than 50%, while reducing the labor intensity

30%

Maximized utilization

One machine with multiple functions, reducing process conversion time

AJ3A
Arch installing jumbo

TECHNICAL SPECIFICATION

Main boom

Type of control	Remote
Load(kg)	3000
Boom extension(mm)	2×3000
Type of clamping manipulator	Multi-degree-of-freedom rigid manipulator
Boom pitch(°)	-20/50
Boom swing(°)	±45
Boom weight, net(kg)	3500

Auxiliary boom

Type of control	Remote + Local control
Load(kg)	1500
Boom extension(mm)	2×2735
Type of clamping manipulator	Multi-degree-of-freedom rigid manipulator
Boom pitch(°)	-20/60
Boom swing (°)	0-40
Boom weight, net(kg)	4000

Hydraulic system

Powerpack(kW)	1×55
Nominal pressure(bar)	250
Main hydraulic pump flow(ml/r)	105
Filtration size (pressure / return)(μm)	10/10
Oil tank volume(L)	520
Filling pump for hydraulic oil	Electric

Electric system

Voltage / Frequency(V/Hz)	380/50
Total input power(kW)	60
IP classification	> IP55
Automatic cable reel	Standard
Starting method	Y-Δ
Cable reel control (in / out)	Remote control
Front lights (combined working and driving)	3 x 100 W(24V)+1×90W(24 V) +1×48W(24V)+2×27W(24V) LED
Rear lights (combined working and driving)	1 x 90 W(24V)+1×48W(24V) +2×27W (24 V) LED
Amber flashing light	LED (24V)
Electric current draw reducer unit	Standard

Carrier

Carrier type	Integrated
Rear axle oscillation(°)	± 8
Ground clearance(mm)	300
Diesel engine power(kW)	129
Transmission	hydromechanical
Tires	14.00-24
Steering mode	Rear wheel steering
Service brakes	Wet disc brakes
Tramming speed(km/h)	Max.18
Gradeability / sideways tilt(°)	15/5
Fuel tank(L)	135
Carrier stabilization	Telscopic(front) Vertical(rear)
Centralized greasing points	Manual
Hand held fire extinguisher(kg)	1×6(type ABC)
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

Drill rig package	Drill rig: W21B/D(Woserld),HC95(Monterbet),18kW; Hole length: 4m;
Engine preheating	Used for engine cold start
Automatic fire extinguishing system	Fire prevention for engines and electrical components
HP cleaning system with reel	Up to 180 bar
Diseal engine	EU-Stage V,Tier 4F
Tramming cameras	Rear,side and front
Automatic greasing system	Automatic lubrication system for boom and centralized greasing point for carrier
Air conditioner in cabin	Improved cab temperature condition for comfort

Informatization function package	Total station assisted positioning; tunnel profile 3D scanning and over excavation analysis; operating process simulation reality; construction log generation and transmission.
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