



CYTJ45 Underground Rock Drilling Jumbo

CYTJ45 rock drilling rig is a full hydraulic rock drilling rig for tunnels and mines. It covers an area of up to 33 square meters. It adopts hydraulic control mode and is equipped with a heavy drill boom. The RN-0338 rock drill can easily cope with harsh working conditions and provide powerful Power, strength and reliability to help you maximize productivity.

The rock drill adopts aerosol lubrication, the pressure oil film protects and lubricates the joint interfaces, reduces the internal pollution of the rock drill and prolongs the service life.

The slewing motor is bidirectionally reversible and has stepless speed regulation, which can provide the powerful torque required for efficient operation and reduce the risk of drilling tool jamming.

The double buffer system not only prevents the shock wave reflected from the rock from propagating back and forth in the drill rod, protecting the rock drill and the drilling tool, but also keeps the drill bit against the rock and keeps the drilling tool tight during the drilling process.

Heavy-duty booms supported by double delta suspension ensure accurate hydraulic parallel holding in all directions.

Heavy-duty aluminum alloy propelling beam has high bending and torsional strength and long service life.

Rugged articulated heavy duty chassis with four wheel drive. The rear axle oscillating device ensures good contact with the ground in harsh conditions.



SPECIFICATIONS

Dimensions (mm)	11267×2080×2900
Working arm	Single
Drilling depth	4000mm
Total Weight	12.5T
Cab lift height	700mm
Shank thread	R38
Drill thread	T38
Drill diameter	45mm
Minimum ground clearance	236mm
Steering angle	±41°

Forward & reverse speed (with CUMMINS QSF3. engine)

Flat ground	>10 km/h
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Rock drill (RN-0338)

Shank	T38
Length (without shank)	1008mm
Impact power	18kW
Impact frequency	60Hz
Hydraulic system pressure (Max)	230bar
Slewing system	Independent slew
Swing speed	0-215rpm
Swing torque (Max)	700Nm
Lubrication air consumption (3bar)	300l/min
Water Consumption	40-120L/min
weight	164.1kg



Propulsion beam			
Total length	5650mm		
Drill pipe length	4305mm		
Drilling depth	4000mm		
Weight, including rock drill	580kg		
Propulsion	13kN		
Drill arm			
Drill arm			
Propulsion beam compensation	1250mm		
Drill arm extension	1350mm		
Parallel retention	complete		
Propulsion beam flip	360°		
Drill arm lift angle (maximum)	+65° /-30°		
Drill arm swing angle (maximum)	± 35°		
Drill arm weight	1855kg		
Air system			
Sliding Vane Air Compressor	Xunteng		
Exhaust volume	0.53m ³ /min		
Barometer	8bar		
Water system			
Booster pump	Southern Pump Industry		
Limited Data	4m ³ /h		
Traffic usage range	1.5~7m ³ /h		
Control System			
Direct control hydraulic system DCS			
Basic function with automatic anti-card solder			
Electrical System			
Total installed power	60.5kW		
Main motor	1×55kW		
Rated voltage	380V		
Rated frequency	50Hz		
Startup mode	Star triangle		
Motor thermal overload protection			
Impact timer			
Phase sequence protector			
Earth leakage protector			
Charger	24V12A		
Cable reel	1100mm		
Transformer	1KVA		
		Hydraulic pump set	Main pump, double pump (rotary drill + air compressor motor)
		Pump unloading start	20bar
		System pressure	230bar
		Hydraulic tank. Maximum volume	200L
		Oil temperature gauge	
		Hydraulic oil filter display	
		Low oil level display	
		Water-cooled hydraulic oil cooler	
		Hydraulic oil filtration accuracy	10 μ
		Mineral based hydraulic oil	
		Chassis	
		CUMMINS QSF3.8 Diesel engines	
		Engine rated power	74kW@2200rpm
		Maximum torque	420Nm@1000~1600 rpm
		Fixed cab seat	
		Four-wheel drive	
		Hydrostatic Transmission	Integrated with rear axle
		Front axle	Made in China
		Rear axle	Made in China, With a ± 8° swing angle
		Tire	Front 315/70R15 Rear 8.25R15
		Approach angle and departure angle	15°
		Expandable front hydraulic leg	2 pcs
		Rear hydraulic leg	2 pcs
		Service brake	2 independent circuits, Hydraulic brake, spring release
		Emergency stop and parking brake	Spring brake hydraulic release
		Fuel tank volume	75L
		Exhaust gas catalytic purification device	
		silencer	
		Electrical System	24V
		Battery	2×12V 100Ah
		Driving lights	4×50W LED spotlight
		Work light	4×180W+1×60W LED spotlight
		brake light	
		Fire extinguisher	
		Spirit level	
		Climbing ability of the driving wheel at maximum load	25%
		Horn, reversing buzzer and lighting	

Hydraulic system

Rock drill lubrication alarm device

Automatic centralized lubrication device

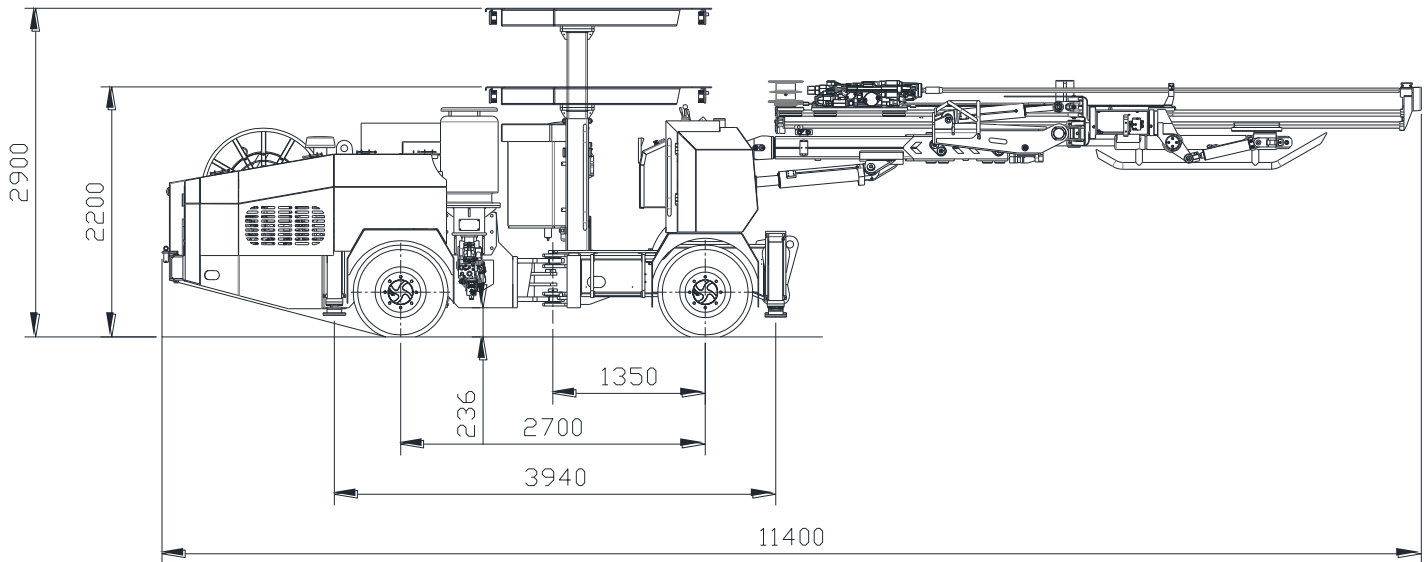
Drill pipe

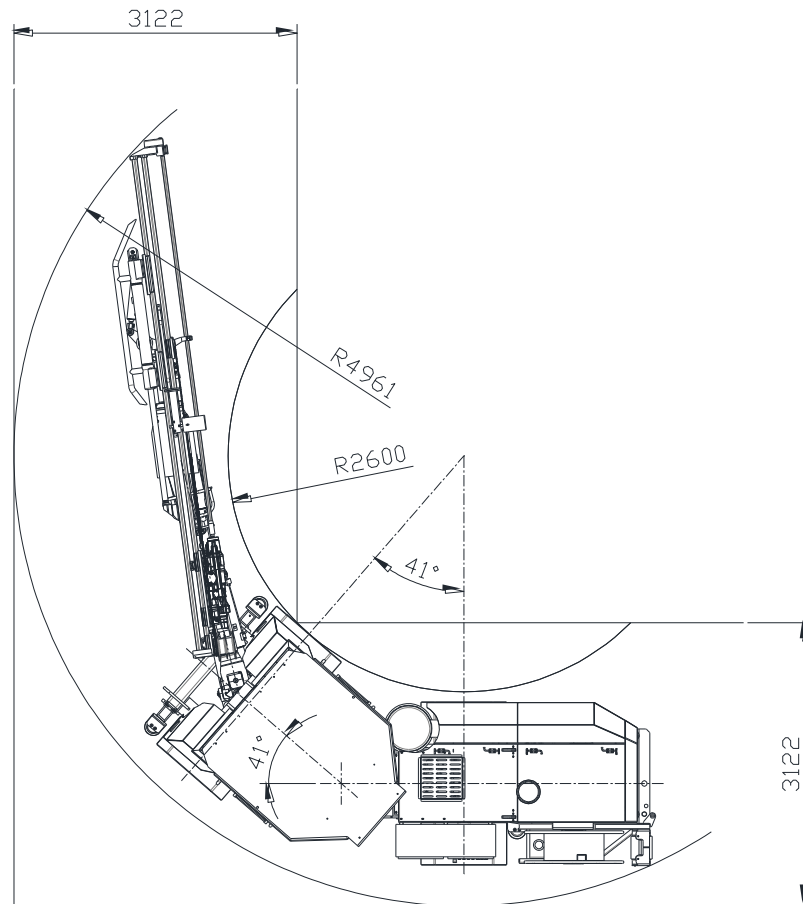
Specification		Minimum rock drilling aperture
mm	R32-H35-R38	45
	R32-H35-T38	45

Shank

Thread		Diameter	Llength
mm	R38	38	381mm
	T38	38	438mm

Equipment size





Equipment coverage is about 33 m²

