



FK20-2BCDL

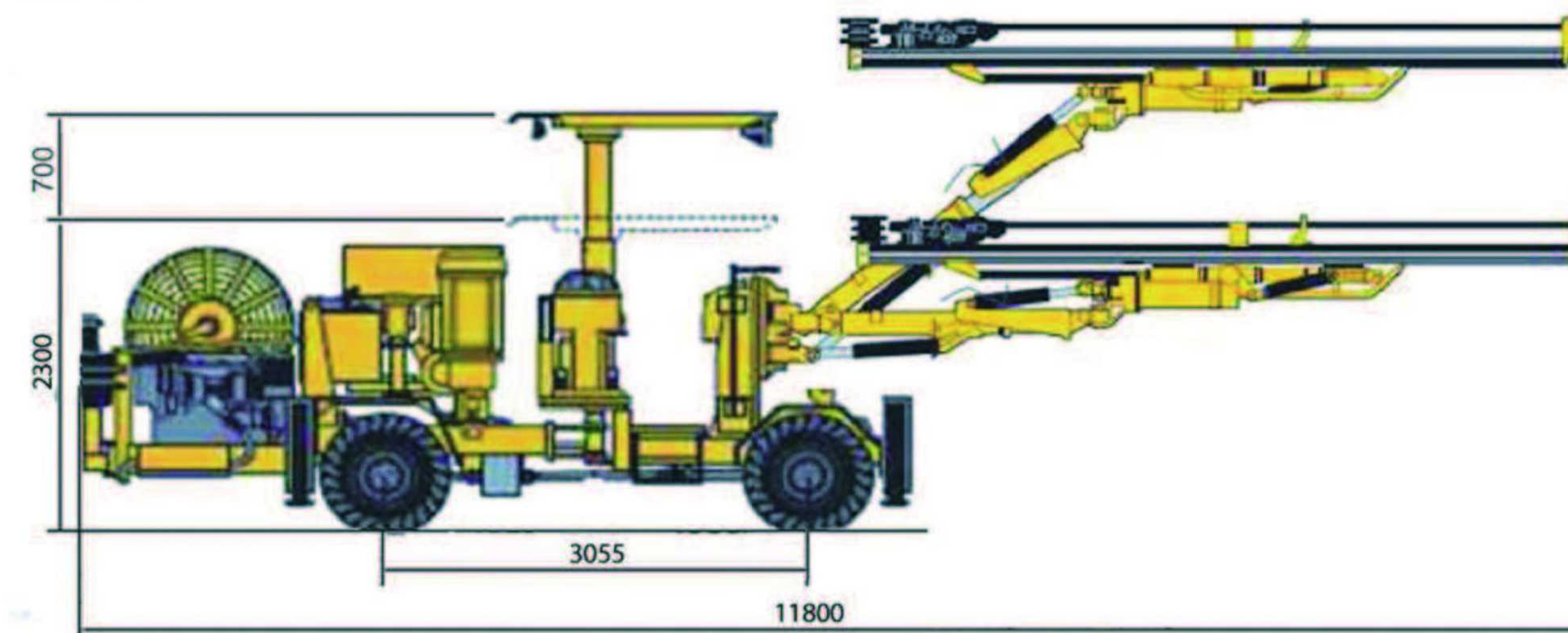
FK20-2BCDL twin-boom hydraulic face drilling rig, designed and produced by Focor, is used for medium underground mining and all the tunneling applications. The jumbo is equipped with a 360° roll-over heavy-duty boom, the intelligent anti-jamming system, and a compact, sturdy carrier for flexible movement and maximum grade ability. It can cover the cross section from 8 m² to 45 m². It can be used for drilling blast holes, as well as drifter rods. The patent-winning FOCOR hydraulic rock drill with the impact frequency up to 60 to 75 Hz is installed on the rig.

Standard Features

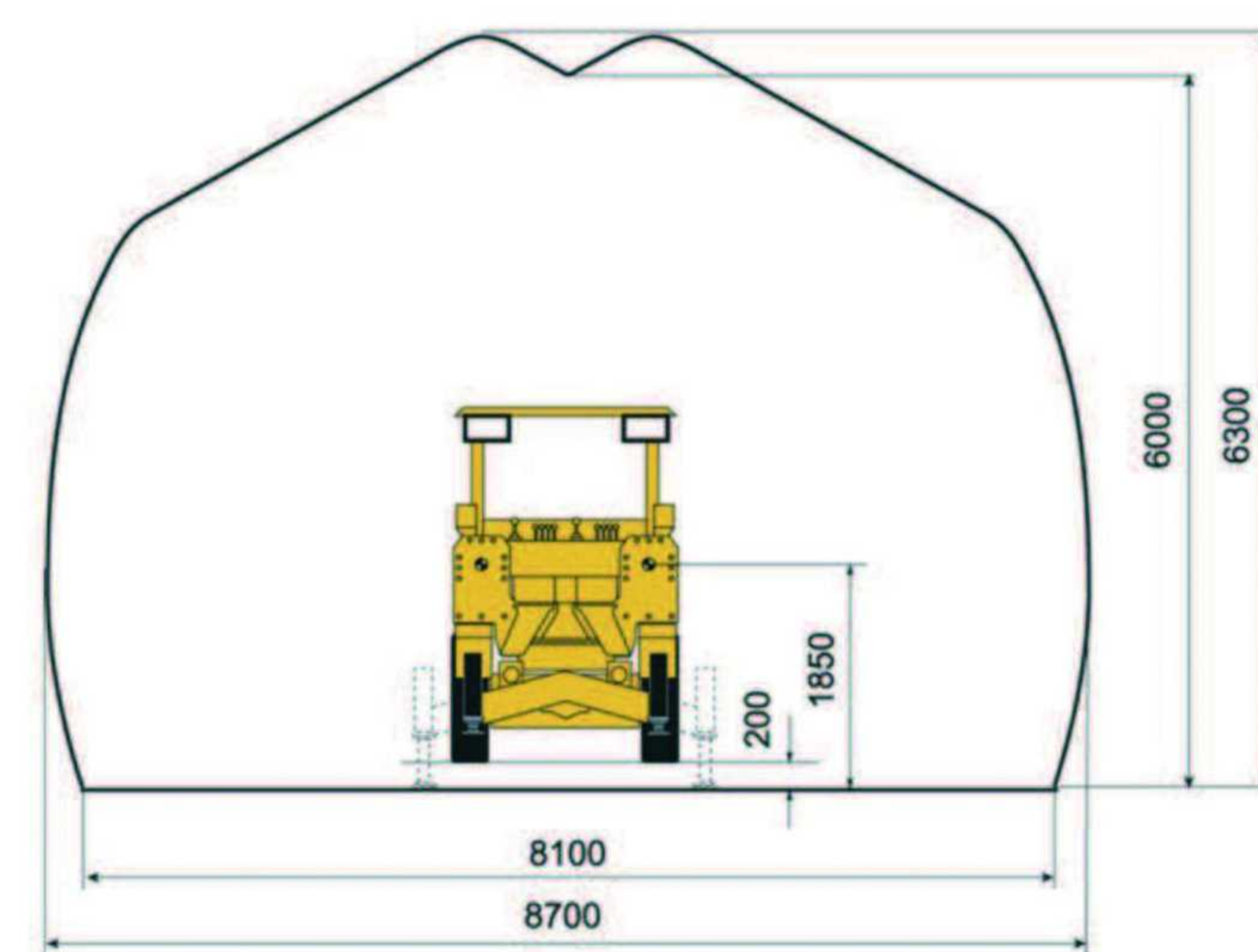
- A FOPS-approved ergonomically designed telescopic protective roof ensures safety plus excellent visibility and surveillance for the operator in control.
- A telescopic feed for blast hole drilling, face drilling, and cross cutting, in a limited space where both long and short rods have to be used.
- The telescopic feed consists of upper and lower feed. When the feed is at minimum length, short holes can be drilled. When the feed is at maximum length, long holes can be drilled.
- Equipped with patent-winning FOCOR series hydraulic rock drill, FOCOR

series rock drilling machine has dual-damping system for shock wave absorption and continuous rock contact for high penetration. Lubricated and pressurized surfaces give long service intervals.

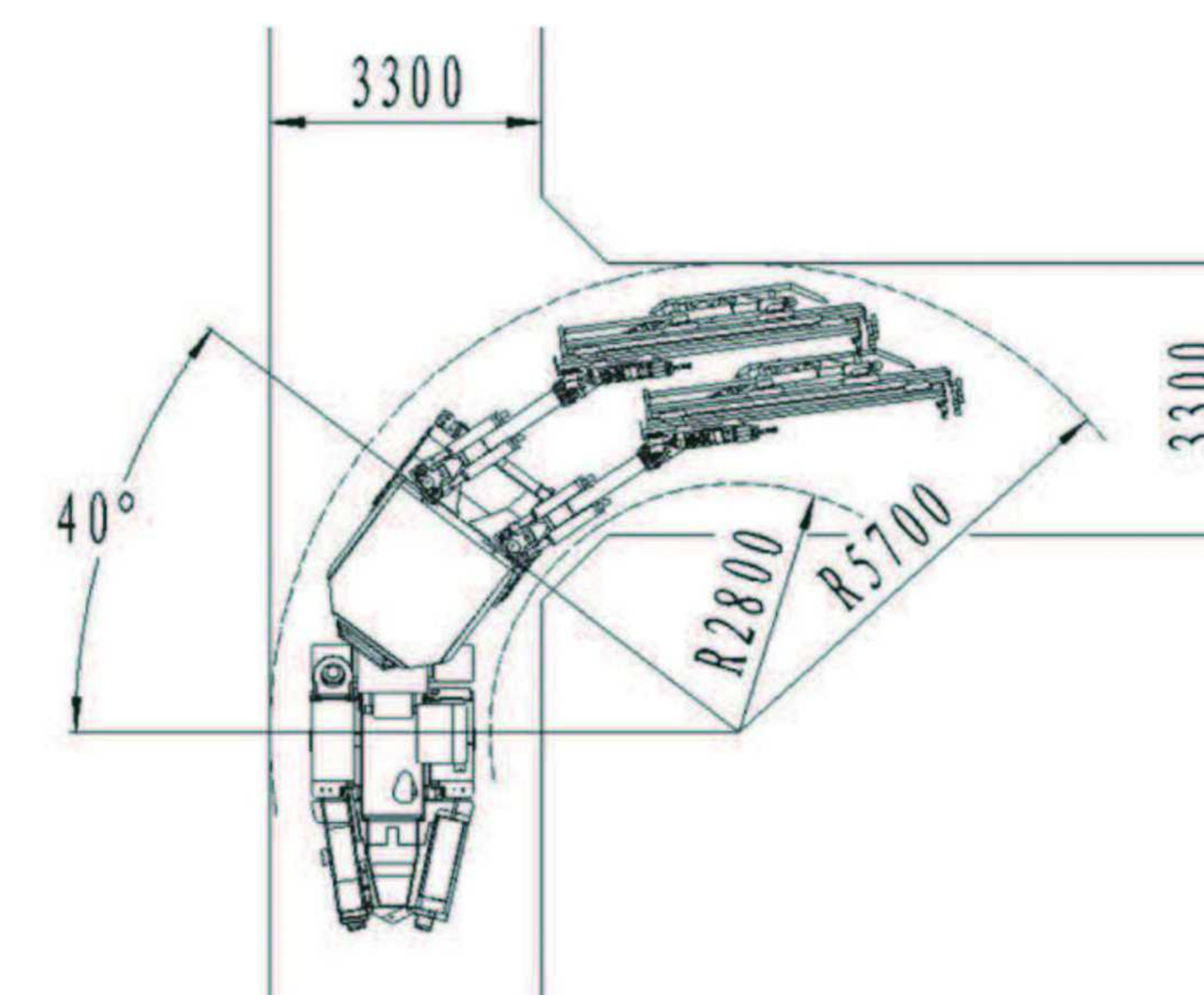
Side View



Coverage area



Turning Radius



Technical Specifications

» Rock Drill

- FOCOR550
- Shank adapter R32 R38 T45
- Impact power 24kW
- Impact rate 60–75 Hz
- Hydraulic pressure, max 230bar
- Rotation motors: Separate rotation
- Rotation speed 0–300 rpm
- Rotation torque 980Nm
- Lub. air consumption 5L/s
- Water consumption 50L/min
- Weight 190 kg

» Feed

- HYTL
- Total length: 5850 mm
- Drill rod length: 4310 mm

» Boom

- Feed extension 1250 mm
- Boom extension 1250 mm
- Parallel holding Complete
- Feed roll-over 360°
- Feed dump +65° /–30°
- Max. swinging angle ± 35°

» Control system

- Direct Electric Control System (DES)
- Anti-jamming included

» Hydraulic system

- Hydraulic pump Two separate units
- Pump unloaded at start
- System pressure. Max 200 bar
- Hydraulic oil tank, volume max 195L
- Low oil level indicator including shut down
- Oil temperature gauge on oil tank, electronically supervised
- Electric oil filling pump
- Filtration 10 um
- Oil filter indicator
- Water cooled oil cooler in stainless container
- Mineral hydraulic oil
- Two separate remote-controls

» Electrical system

- Total installed power 62 kW
- Main motors 55kW
- Voltage 380–1000V
- Frequency 50 – 60 Hz
- Starting metho star/delta (380V– 690V)
direct (1000V)
- Thermal overload protection for electric motor
- Percussion hour meter on operator display
- Digital voltmeter / amperage meter in electric cabinet
- Phase sequence indicator/ Earth fault indicator

/Battery charger

- Transformer 1.5 kVA
- Cable reel, inner / outer diameter, mm
..... Ø660/1195 mm

» Air system

- Compressor High quality
- Capacity max at 6bar 10 L/s
- Air pressure gauge

» Water system

- Hydraulic driven water booster pump
- Water booster pump max capacity at 7 bar
..... 200 l/min
- Min. water inlet pressure, bar 2 bar
- Water flow guard

» Carrier

- Diesel engine Deutz D914L04
- Power rating at 2200 rpm 58kW
- Torque at 1500 rpm 258Nm
- Fixed seat for tramming with safety belt
- Articulated steering ± 41°
- Four-wheel drive
- FOPS roof
- Hydrostatic power steering system
- Front axle Dana 112
- Rear axle Dana 112, ± 8° oscillation
- Tyres 12.0 x R20
- Clearance outside axles 15°
- Hydraulic jacks, front 2 extendable

- Hydraulic jacks, rear 2
- Service brakes 2 separate circuits (hydraulically applied, fully enclosed wet disc. brakes)
- Emergency and parking brakes SAHR
- Fuel tank, volume 60L
- Electric system 24V
- Batteries 2x70 Ah
- Tramming lights 8 x 70 W
- Illuminated stairs for platform/ brake lights
- Central lubrication system
- Catalyser, silencer, spirit levels
- Gradeability at max load on drive wheels ... 1:4
- Tramming speed on flat ground >10km/h
- Tramming speed on incline 1:8 >4km/h
- Horn, beacon, and reverse alarm