



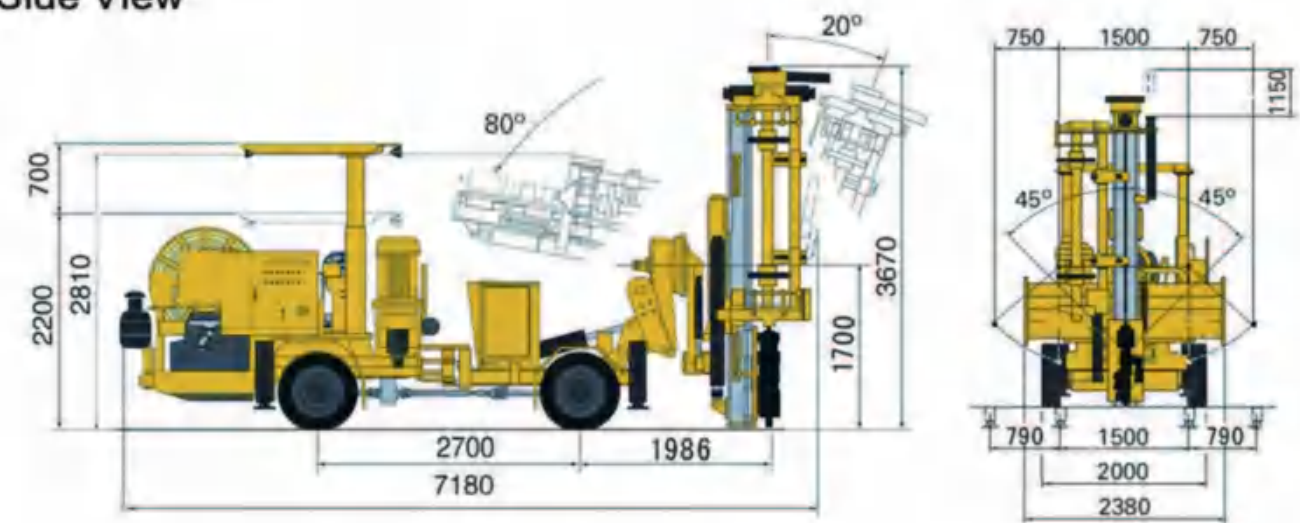
FKDR89Y remote-control underground production drilling rigs are used for non-pillar sublevel caving method in underground mining applications. It provides a large coverage area with feed dump of +20° forward and -80° backward. It is capable of 360° ring drilling parallel holes upwards and downwards and in the side walls. It is equipped with a rod carousel with 17 rods for drilling length up to 30 meters. With an automatic rod handling system (RHS), PLC control system, remote-control system, and computerized jamming system, we can guarantee the optimum long-hole drilling for every application. The rig offers miners not only top-notch precision, versatility and flexibility, but also the maximum safety during set up and positioning.

### Standard Features

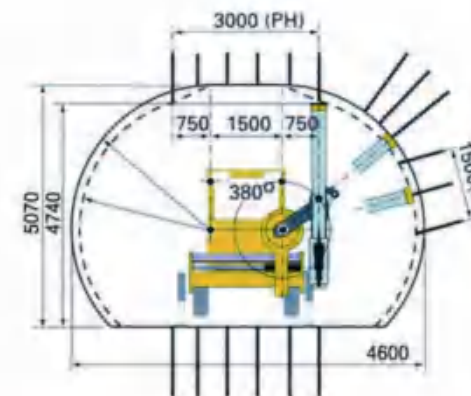
- Equipped with patent-winning FOCOR series hydraulic rock drill, FOCOR series can reach the impact frequency up to 60-75Hz under actual working environment. Powered by a 55KW electric motor, the drilling speed of HYG550 under working pressure of 16 to 17Mpa is obviously faster than similar products under working

- pressure of 19Mpa. Thanks to FOCOR550, the straightness, compactness and slipperiness of the production hole are outstanding.
- PLC model wireless control system provides high mobility and maximum safety for the miners
- A super sensitive anti-jamming system makes the automatic-adapted drilling process efficient and rod saving

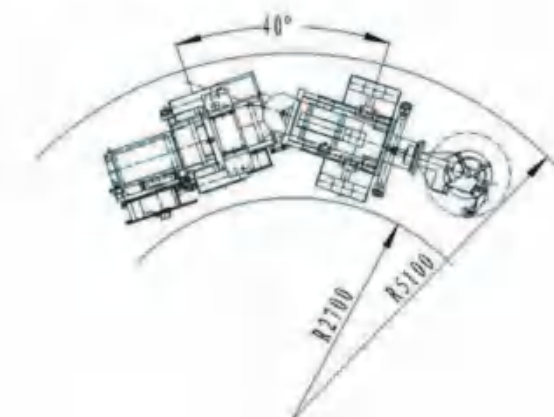
### Side View



### Coverage area



### Turning Radius





## Technical Specifications

### »» Rock Drill

- FOCOR550
- Shank adapter R32 T38 T45
- Hole diameter 51–76mm
- Impact power 24kW
- Impact rate 60–75 Hz
- Hydraulic pressure, max 230bar
- Rotation motors: Separate rotation
- Rotation speed 0–300 rpm
- Lub. air consumption 5L/s
- Water consumption 50L/min
- Weight 190 kg

### »» Feed

- HYTL
- Total length: 3770mm
- Drill rod length: 1830mm

### »» Drilling unit

- Rod Handling system, RHS17 ..... 17+1 rods
- Adaptable to 1.5m or 1.8m rods
- Adaptable to R32, T38, T45 Speedrods
- Mechanized drilling up to 32meters

### »» Positioning system

- Feed extension (with 1.5 m/1.8 m drill steel) ...  
..... 1200 mm
- Rotary Acuator HYXZ 76 for 360° ring drilling
- Sliding table HYHT 8 gives 1.5 m feed parallel

positioning

- Pendulum arm HYBB 10 gives 1.5 feed parallel positioning in the side walls. Adds further 1.5m feed parallel positioning upwards/ downwards.
- Stringer backward on feed ..... HYXD 115
- Stringer forward on feed ..... HYSO 115
- Feed dump, drilling ..... +20° forward and  
-80° backward

### »» Control system

- Electrical Direct System, EDS
- Basic functions such as anti-jamming included

### »» Power pack

- Hydraulic pump for percussion
- Hydraulic pump for rotation, positioning, feed
- Pump unloaded at start
- System pressure, max ..... 200 bar
- Hydraulic oil tank, volume max ..... 165L
- 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

### »» Electrical system

- Total installed power ..... 68kW
- Main motors ..... 55kW
- Voltage ..... 380–1000V
- Frequency ..... 50–60 Hz
- Starting method ..... 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 ..... 4kVA
- Working lights on tripods ..... 2 x 200W, 24V
- Cable reel, inner / outer diameter, mm .....  
..... Ø660/1195 mm

### »» Air system

- Compressor ..... High quality
- Capacity at 10 bar ..... 10 L/s
- Hole blowing kit with external air

### »» Water system

- Electric water boost pump
- Capacity at 10bar boost ..... max 200L/min
- Min water inlet pressure ..... 2 bar
- Water pressure gauge / water flow guard

### »» Carrier

- Diesel engine ..... Deutz D914L04
- Power rating at 2200 rpm ..... 58kW

- Torque at 1500 rpm ..... 258 Nm
- Fixed seat for tramming with safety belt
- Articulated steering ..... ± 41°
- Four-wheel drive
- FOPS–approved protective roof
- Hydrostatic power steering system
- Front axle ..... Dana 112
- Rear axle ..... Dana 112, ± 10° oscillation
- Front axle Automatic differential lock, limited slip
- Tyres ..... 8.25x R15
- 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
- Outlet for communication radio ..... 12V