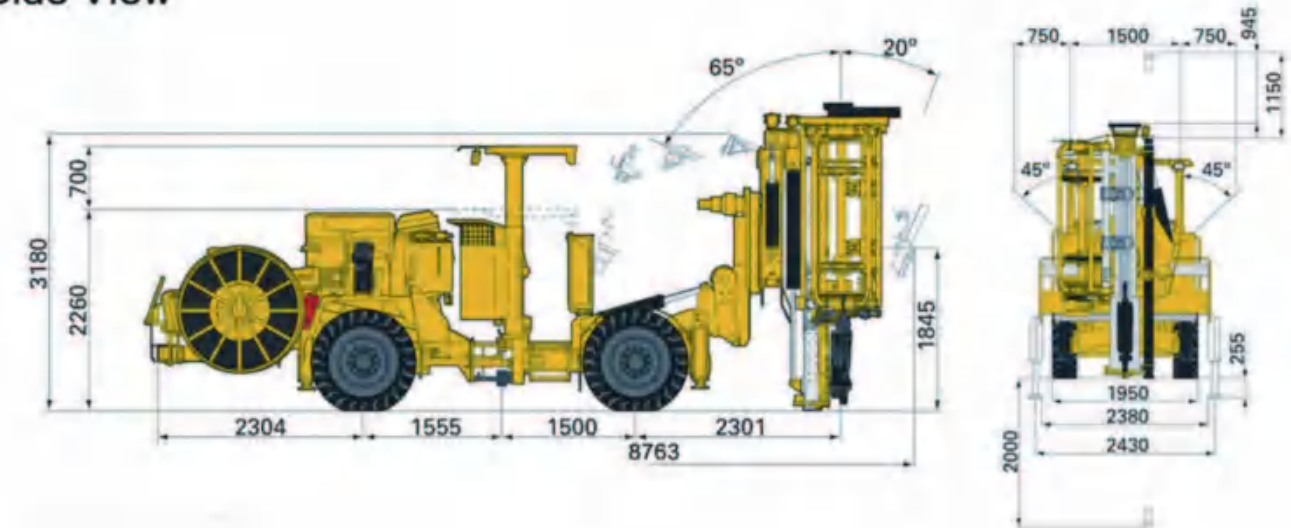




Side View

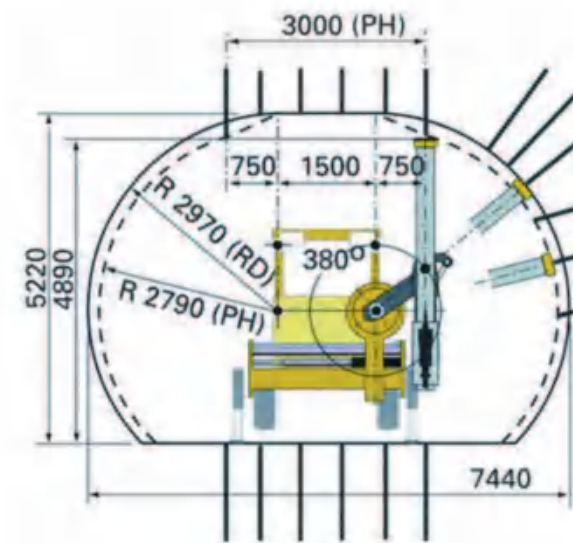


FKDR89Y2 underground remote-control production drilling rig is used for middle to large-vein tunneling and mining applications. It is equipped with a HYG top hammer hydraulic drilling machine for hole diameter from 51 to 89 (102) mm and a versatile positioning unit to match various methods in production drilling. The patent-winning FOCOR hydraulic rock drill with the impact frequency up to 60-75Hz is installed on the rig. Front- and rear-mounted stinger for optimized reach and flexibility. When you need a hard working, high-precision rig for long-hole drilling, you can choose FKDR89Y2.

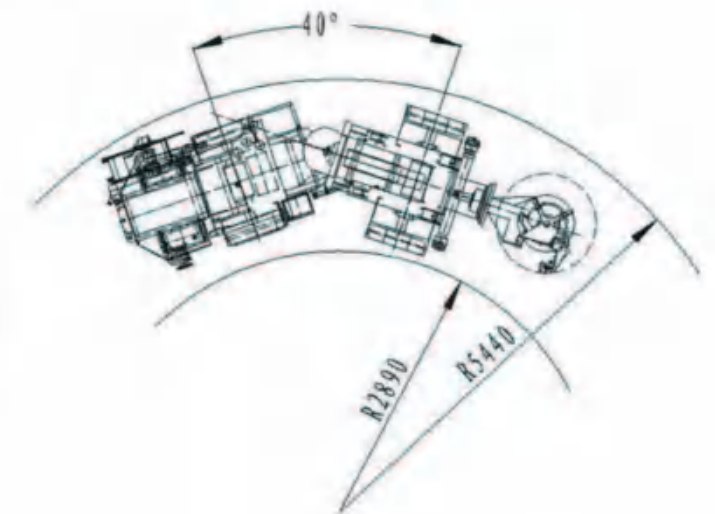
Standard Features

- The new Intelligent mining and positioning system shorten the drilling time, improve the drilling efficiency and save the costs of the miners
- Automatic Rod Handling System (RHS) with 27 rods for maximum drilling depth.
- A super sensitive anti-jamming system makes the automatic-adapted drilling process efficient
- Equipped with patent-winning HYG550 series hydraulic rock drill.
- FOCOR550 series can reach the impact frequency up to 60-75Hz under actual working environment.

Coverage area



Turning Radius



Technical Specifications

»» Rock Drill

- FOCOR550
- Shank adapter R32 T38 T45
- Hole diameter 51–89 mm
- 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, RHS27 27+1 rods
- Adaptable to 1.5m or 1.8m rods
- Adaptable to R32, T38, T45 Speedrods
- Mechanized drilling up to 50meters

»» 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 200
- Stringer forward on feed HYSD 115
- Feed dump, drilling +20° forward and -65° 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 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

»» 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 ø660/1400 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 1550 rpm 258 Nm
- Fixed seat for tramping with safety belt
- Articulated steering ± 41°
- Four-wheel drive
- FOPS-approved protective roof
- Hydrostatic power steering system
- Hydrostatic transmission Clart 12000
- Front axle Dana 123
- Rear axle Dana 123, ± 8° oscillation
- Front axle Automatic differential lock, limited slip
- Tyres 12.00 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
- Tramping 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
- Tramping speed on flat ground >10km/h
- Tramping speed on incline 1:8 >4km/h
- Horn, beacon, and reverse alarm
- Outlet for communication radio 12V