

DCR20 Down-the-Hole-Drill

The DCR20 has established itself as a reliable, productive resource for drilling operations around the world. These drills have been tested in soft, medium and hard rock conditions with multiple end-users and applications providing deep holes from 3.5" to 6.5" at fast drilling rates with low maintenance.

Servicing the DCR20 is easy with access to all key components such as the engine, fluid levels and compressor through large panel doors located at ground level for maintenance when needed.

The cabs have been redesigned to provide operators maximum comfort with single-lever drilling controls, large gauges, and superior views of drilling operation.





Maximize operator performance with the ultimate in ergonomic cab design.

When it comes to ergonomically-friendly cabs, Furukawa offers various options to minimize operator fatigue. Cabs are 51" wide (1,300 mm) with ROPS/FOPS. In addition, all cabs are air-conditioned and continuously pressurized with filtered air to maintain a comfortable operating environment. Other features include:

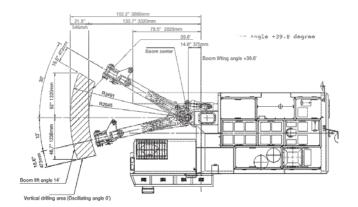
- > Single-lever drilling control for easy operation.
- Large windows maximize operator visibility.
- ➤ High-visibility gauges allow operator to monitor machine functions while remaining focused on the drilling.
- > Walk-around ground level maintenance provides fast, easy upkeep or repair.
- > Rubber-mounted engine frame isolates cab from engine vibrations.
- > AM/FM radio is standard.

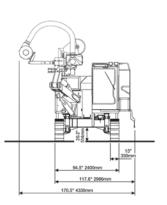
Combining performance and economy.

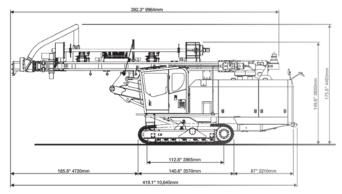
- > Angle indicator for quick and easy drilling alignment.
- > Drill hole diameter 3.5" 6.5".
- Reliable dust control system increases suction capacity and provides effective pre-cleaner to reduce the escape of drilling dust. An optional dust suppression system is available for difficult drilling conditions.
- > Advanced rotary pipe changer allows easy drill pipe changes.
- High-output compressor increases flushing air, provides faster drilling and decreases bit wear.



Drilling Pattern for DCR20







| | DCR20 | US Standard | Metric |
|-----------|-----------------------------|------------------|------------------------------|
| General | Overall Weight* | 46,200lb | 21,000kg |
| | Track Length | 11' 9" | 3,570mm |
| | Length of Ground Contact | 9' 5" | 2,865mm |
| | Track Width | 1' 1" | 330mm |
| . | Ground Contact Pressure* | 15.8psi | 10.9N/cm² |
| TrackUrit | Min. Ground Height | 1' 8" | 502mm |
| | Oscillating Angle | +7.5 degrees | |
| | Max. Tramming Speed | 1.9mile/h | 3.0km/h |
| | Gradeability | 25 deg. | |
| | Tramming Motor | Hydraulic Motor | |
| | Max. Traction Force | 23,604lb-force | 105kN |
| Ergine | Model | CAT C13 Tier III | |
| | Туре | Diesel Engine | |
| | Rated Output | 440hp/2,100rpm | 328kW/2,100min ⁻¹ |
| | Fuel Tank Capacity | 185gal | 700L |

| DCD20 | | | |
|------------------------------|---------------------------------------|---|----------------------|
| | DCR20 | US Standard | Metric |
| Hydraulic Pump (For Main) | Variable Displacement Pump | Variable Displacement PV Pump x 2 | |
| | Model | K5V80DT | |
| | Capacity | 11.6in² x 2 | 75cm² x 2 |
| | Working Pressure | 3,000psi | 20.6MPa |
| Conpressor | Model | PDSK900 | |
| | Туре | Screw Rotation Type 2 Step Compression, Oil-Cooled | |
| | Manufacturer | Airman | |
| ē | Discharge Pressure | 363psi | 2.5MPa |
| | Free Air Delivery (at 140F) | 847ft³/min | 24m³/min |
| Boom | Boom Swing Angle | 35 ∼10 deg. | |
| | Guide Lift Angle | 40 ~25 deg. | |
| Dill Motor | Model | DOWMAX / ME350 | |
| | Reduction Gear Rate | 3.071 | |
| | Max. Torque | 2,397lb-ft | 3.25kNm |
| | Max. Number of Rotation | 120rpm | 120min ⁻¹ |
| | Drill Hole Diameter (Bit Diameter) | 3.5"- 6.5" | 89 - 165mm |

| Succested | Hammer | Option |
|-----------|--------|--------|

| | D0D00 | | |
|--------|-----------------|-------------|------------|
| | DCR20 | US Standard | Metric |
| 'n | Manufacturer | MINCON | |
| Hammer | Model (Example) | MP55 | |
| | Bit Range | 3.5"- 6.5" | 89 - 165mm |

| | D0000 | | |
|----------------|-----------------------------|---|------------------|
| | DCR20 | US Standard | Metric |
| Guide Shell | Overall Length | 31' 2" | 9,500mm |
| | Feed Length | 18' 7" | 5,678mm |
| | Guide Slide Length | 3' 11" | 1,200mm |
| | Hood Slide Length | 12" | 300mm |
| | Swing Angle | 30 ~30 deg. | |
| | Max. Drawing Force | 6,744lb-force | 30kN |
| | Feed Type | Hyd. Motor Drive | |
| Pipe Carousel | Number of Pipes | 8 (16' 5" Pipe) | 8 (5,000mm Pipe) |
| | Pipe Weight | 176lb (16' 5") | 80kg (5,000mm) |
| | Pipe Length | 16' 5" | 5,000mm |
| | Pipe Diameter | 3", 3.5" and 4" | 76, 89 and 102mm |
| | PipeThread API | 3" (2-3/8") 3.5" (2-3/8") 4" (2-7/8") | |
| | Auto Grease | Automatic | |
| Dust Collector | Suction Capacity | 2,472ft ³ /min | 70m³/min |
| | Number of Filter Element | s/n 3211062 & lower: 20 s/n 3212063 & higher: 10 | |
| | Pre-Cleaner | Automatic Pulse Air Jet | |
| | Suction Cap | Open-Close Type | |
| | Suction Hose Diameter | 6" | 150mm |

Note: *1 "Overall Weight (A)" includes weights of fuel and cills (full). *2 "Ground Contact Pressure" is calculated based on "Overall Weight (A)".

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