



FURUKAWA ROCK DRILL USA
Rock Drill Division

DCR22

Down-the-Hole Drill



DCR22 Equipped with Tier IV EPA Compliant Engines.

Proven. Reliable. High Performing.

DCR22
Down-the-Hole Drill

DCR22 Down-the-Hole-Drill

The DCR22 has established itself as a reliable, productive resource for drilling operations around the world. These drills have been proven 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 DCR22 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, digital gauges, and superior views of drilling operation.



Walk-around ground level maintenance provides fast, easy upkeep or repair.

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 43" wide (W1,100 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.
- Finger-touch levers for smooth traming control.
- Large windows maximize operator visibility.
- All-in-One display allows operator to monitor machine functions and angle indicator for quick and easy drilling alignment 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.
- Bluetooth Player/Sirius XM Radio is standard.



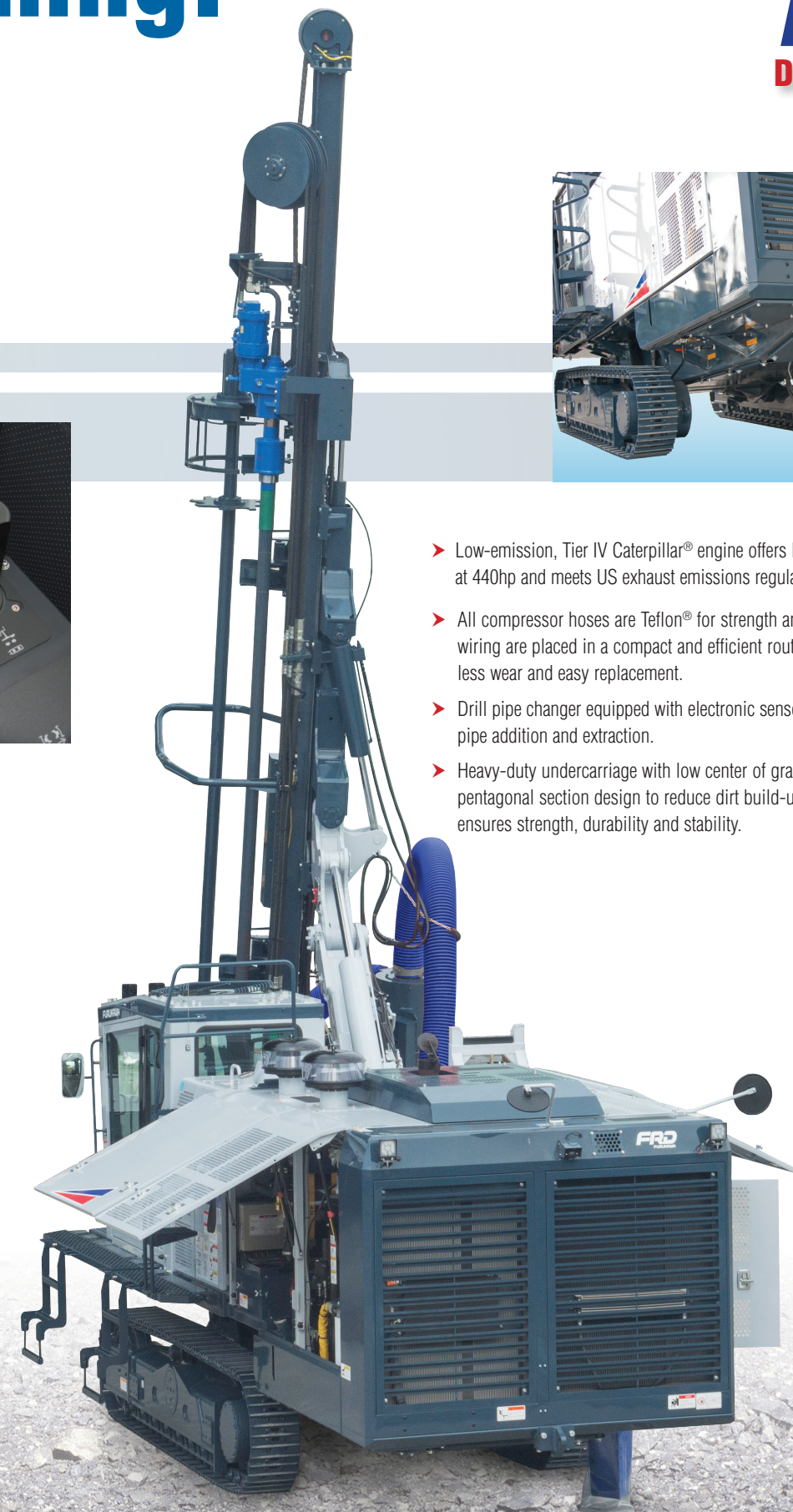
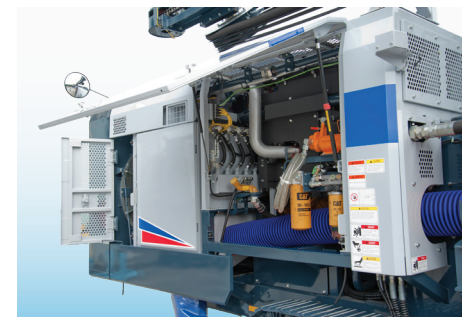
Console moves back and forth.

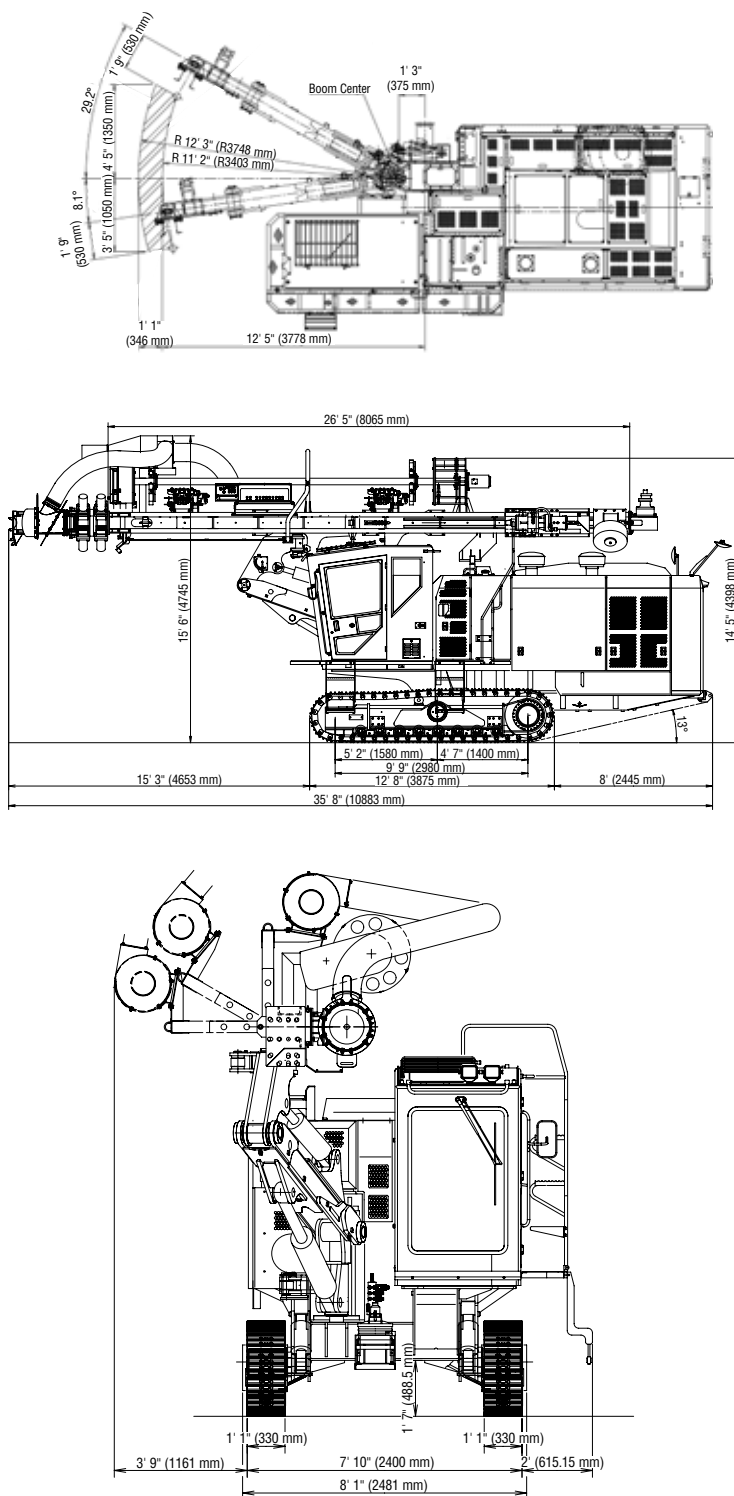
Combining performance and economy.

- 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.



- Low-emission, Tier IV Caterpillar® engine offers low fuel consumption at 440hp and meets US exhaust emissions regulations.
- All compressor hoses are Teflon® for strength and durability. Hoses and wiring are placed in a compact and efficient routing design for more protection, less wear and easy replacement.
- Drill pipe changer equipped with electronic sensors speeds pipe addition and extraction.
- Heavy-duty undercarriage with low center of gravity – featuring a pentagonal section design to reduce dirt build-up and track wear – ensures strength, durability and stability.





FURUKAWA ROCK DRILL USA

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| DCR22 | | US Standard | | | | Metric | | | |
|---------------------------------|----------------------------------|-----------------------------------|------------|-----|-----|-----------------------------------|----|-----|-----|
| | | | | | | | | | |
| Dimensions and Weight | Operating Weight (A) *1 | 56,218 lb | | | | 25,500 kg | | | |
| | Overall Weight (B) *2 | 58,422 lb | | | | 26,500 kg | | | |
| | Overall Length | 36'2" | | | | 11,035 mm | | | |
| | (Shipping) | 40'5" | | | | 12,310 mm | | | |
| | Overall Width | 14'3" | | | | 4,335 mm | | | |
| | (Shipping) | 8'10" | | | | 2,700 mm | | | |
| | Overall Height | 15'7" | | | | 4,750 mm | | | |
| Undercarriage | (Shipping) | 11'6" | | | | 3,500 mm | | | |
| | Track Length | 12'5" | | | | 3,785 mm | | | |
| | Track Length on ground | 9'9" | | | | 2,980 mm | | | |
| | Track Width | 1'1" | | | | 330 mm | | | |
| | Ground Contact Pressure *3 | 18.4 psi | | | | 127 kPa | | | |
| | Ground Clearance | 1'7" | | | | 475 mm | | | |
| | Frame oscillation angle | ±7.5° | | | | | | | |
| | Tramming Speed | 0 ~ 2.2 mph | | | | 0 ~ 3.5 km/h | | | |
| | Gradeability | 46.6% 25(°) | | | | | | | |
| | Maximum Traction Force | 35,969 lb-f | | | | 160 kN | | | |
| Drill Motor | Type | DOWMAX/ME350 | | | | | | | |
| | Reduction Ratio | 1 : 3.071 | | | | | | | |
| | Maximum Torque | 3,098 ft-lb | | | | 4.2 kN-m | | | |
| | Maximum Speed of Rotation | 120 rpm | | | | 120 min ⁻¹ | | | |
| | Bit Range | 3.5 ~ 6.5 in | | | | 89 ~ 165 mm | | | |
| | Engine | Model | C13 (T4F) | | | | | | |
| Type | | Diesel, Water-cooled, 6 cylinders | | | | | | | |
| Maker | | CATERPILLAR | | | | | | | |
| Piston Displacement | | 3.3 gal | | | | 12.5 L | | | |
| Power Output | | 440 hp / 2,000 rpm | | | | 328 kW / 2,000 min ⁻¹ | | | |
| Fuel Capacity | | 216.6 gal | | | | 820 L | | | |
| DEF Capacity | | 9.0 gal | | | | 34 L | | | |
| Hydraulic Equipment | | Variable Displacement PV Pump | PV Pump x2 | | | | | | |
| | Fixed Displacement Pump | Gear Pump x3 | | | | | | | |
| | Hydraulic Oil reservoir Capacity | 74.0 gal | | | | 280 L | | | |
| Compressor | Model | PDSK900-S20 | | | | | | | |
| | Type | 2 Stage screw compressor | | | | | | | |
| | Maker | AIRMAN | | | | | | | |
| | Free Air Delivery 1 | 858 cfm / 1,800 rpm | | | | 24.3 m³ / 1,800 min ⁻¹ | | | |
| | Free Air Delivery 2 | 953 cfm / 2,000 rpm | | | | 27.0 m³ / 2,000 min ⁻¹ | | | |
| | Discharge Pressure | 363 psi | | | | 2.5 MPa | | | |
| | Boom | Model | JF325 | | | | | | |
| Type | | Fix Boom | | | | | | | |
| Boom Lift Angle (Up / Down) | | 49° / 13° | | | | | | | |
| Boom Swing Angle (Right / Left) | | 30° / 8° | | | | | | | |
| Guide Shell | | Model | GH834 | | | | | | |
| | Length | 32'11" | | | | 10,030 mm | | | |
| | Feed Length | 19'1" | | | | 5,827 mm | | | |
| | Feed Type | Hydraulic motor driven chain | | | | | | | |
| | Guide Slide Length | 4'11" | | | | 1,500 mm | | | |
| | Guide Swing Angle (Right / Left) | 88° / 16° | | | | | | | |
| | Guide Tilt Angle | 118° | | | | | | | |
| | Maximum Rod Pull-Out Force | 7,868 lb-f | | | | 35 kN | | | |
| Dust Collector | Model | A885 | | | | | | | |
| | Suction Capacity | 2,649 cfm | | | | 75 m³/min | | | |
| | Number of Filter Element | 12 | | | | | | | |
| | Type of Dust Ejection | Automatic air pulse jet | | | | | | | |
| Rod Changer | Model | GR803 | | | | | | | |
| | Number of Rod Storage | 8 pcs | | | | | | | |
| | Rod Length | 16' 5" | | | | 5,000 mm | | | |
| | Rod Diameter (in/mm) | 3.0 | 3.5 | 4.0 | 4.5 | 76 | 89 | 102 | 114 |
| | Battery | 12V x 2; 140Ah/5h | | | | | | | |
| Electrics | Light | 24V; 70W x4 | | | | | | | |
| | Voltage | DC24V | | | | | | | |
| Operating Environment | Working Temperature | 5 ~ 113°F | | | | -15 ~ 45°C | | | |
| | Maximum Altitude | Max. 6,562' | | | | Max. 2,000 m | | | |

Note:

*1 "Operating Weight (A)" includes weight of fuel and oils (full)

*2 "Overall Weight (B)" includes weight of "Operating Weight (A)", operator, rod and bit.

*3 "Ground Contact Pressure" is calculated on "Operating Weight (A)".

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Furukawa's policy is one of continual improvement. Specifications may change between printing.