

#### **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.





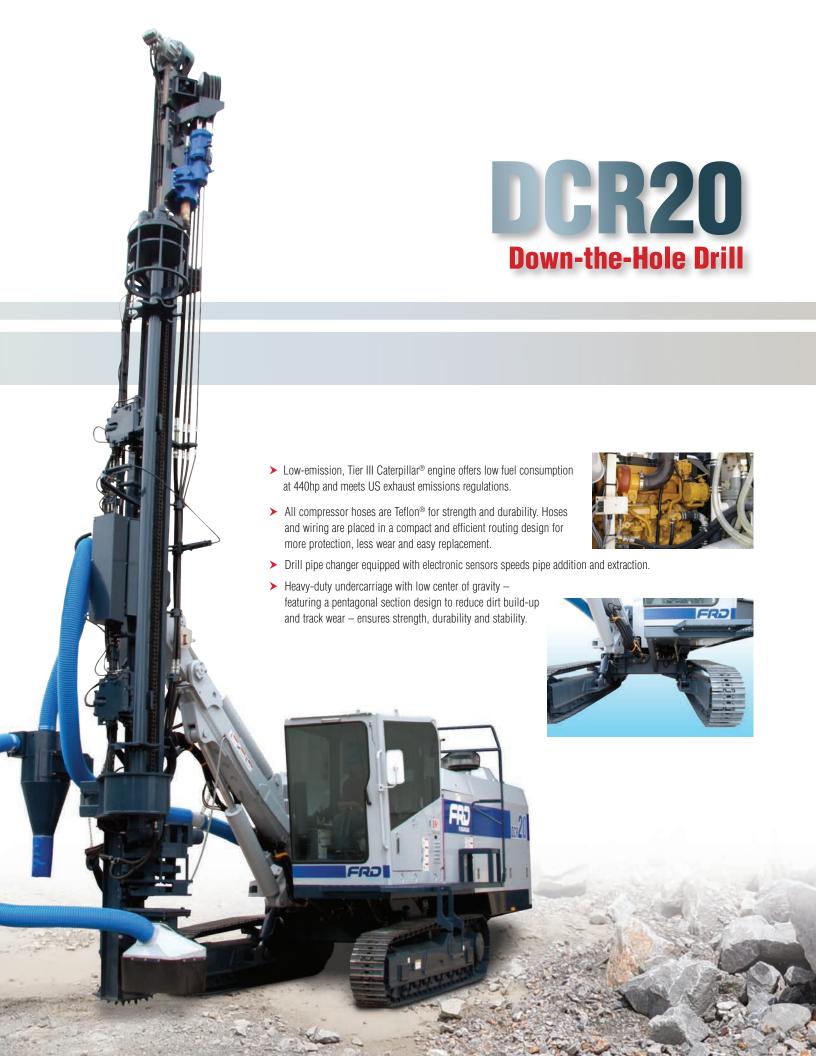
# Maximize operator performance with the ultimate in ergonomic cab design.

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:

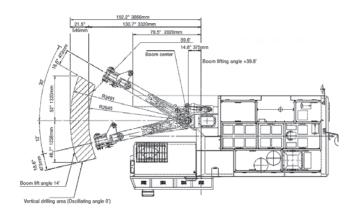
- > Single-lever drilling control for easy operation.
- Large windows maximize operator visibility.
- High-visibility gauges allow operator to monitor machine functions while remaining focused on the drilling.
- > Walk-around ground level maintenance provides fast, easy upkeep or repair.
- > Rubber-mounted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

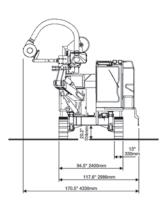
#### **Combining performance and economy.**

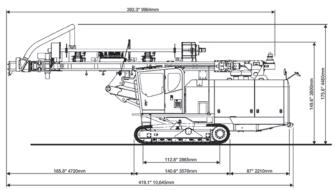
- > Angle indicator for quick and easy drilling alignment.
- > Drill hole diameter 3.5" 6.5".
- Reliable dust control system increases suction capacity and provides effective pre-cleaner to reduce the escape of drilling dust. An optional dust suppression system is available for difficult drilling conditions.
- > 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**







	20200		
	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/cm <sup>2</sup>
rrack Unit	Min. Ground Height	1' 8"	502mm
Trac	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
	Model	CAT C13 Tier III	
Engine	Туре	Diesel Engine	
Eng	Rated Output	440hp/2,100rpm	328kW/2,100min <sup>-1</sup>
	Fuel Tank Capacity	185gal	700L

50500				
	DCR20	US Standard	Metric	
Ē,	Variable Displacement Pump	Variable Displacement PV Pump x 2		
lic Pu Main	Model	K5V80DT		
Hydraulic Pump (For Main)	Capacity	11.6in² x 2	75cm² x 2	
£	Working Pressure	3,000psi	20.6MPa	
Compressor	Model	PDSK900		
	Туре	Screw Rotation Type 2 Step Compression, Oil-Cooled		
	Manufacturer	Airman		
Gom	Discharge Pressure	363psi	2.5MPa	
	Free Air Delivery (at 140F)	847ft³/min	24m³/min	
Boom	Boom Swing Angle	35 ~ 1	5 ~ 10 deg.	
8	Guide Lift Angle	40 ~ 25 deg.		
	Model	DOWMAX / ME350		
_	Reduction Gear Rate	3.071		
orill Motor	Max. Torque	2,397lb-ft	3.25kNm	
Ē	Max. Number of Rotation	120rpm	120min <sup>-1</sup>	
	Drill Hole Diameter (Bit Diameter)	3.5"- 6.5"	89 - 165mm	

		DCR20	US Standard	Metric
ı		Overall Length	31' 2"	9,500mm
		Feed Length	18' 7"	5,678mm
	=	Guide Slide Length	3' 11"	1,200mm
	Guide Shell	Hood Slide Length	12"	300mm
	Gui	Swing Angle	30 ~ 30 deg.	
		Max. Drawing Force	6,744lb-force	30kN
		Feed Type	Hyd. Motor Drive	
		Number of Pipes	8 (16' 5" Pipe)	8 (5,000mm Pipe)
		Pipe Weight	176lb (16' 5")	80kg (5,000mm)
	ısel	Pipe Length	16' 5"	5,000mm
	ipe Carousel	Pipe Diameter	3", 3.5" and 4"	76, 89 and 102mm
	Pipe	Pipe Thread API	3" (2-3/8") 3.5" (2-3/8") 4" (2-7/8")	
		Auto Grease	Automatic	
Ì		Suction Capacity	2,472ft³/min	70m³/min
	ctor	Number of Filter Element	s/n 3211062 & lower: 20 s/n 3212063 & higher: 10	
	Dust Collector	Pre-Cleaner	Automatic Pulse Air Jet	
	Dust	Suction Cap	Open-Close Type	
		Suction Hose Diameter	6"	150mm

# **Suggested Hammer Option**

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



### **FURUKAWA ROCK DRILL USA**

## **Rock Drill Division**

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- Note:

  1 "Overall Weight (A)" includes weights of fuel and oils (full).

  2 "Ground Contact Pressure" is calculated based on "Overall Weight (A)".

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