

FRD FURUKAWA FURUKAWA ROCK DRILL USA

ROCK DRILL
DIVISION

MEETING THE EQUIPMENT NEEDS OF THE MINING AND CONSTRUCTION INDUSTRIES.



A Complete Line of Reliable, Cost-Effective Blasthole Drills

FURUKAWA ROCK DRILL (FRD) USA IS A LEADING MANUFACTURER OF TOP-HAMMER DRILLS, DRIFTERS AND DOWN-THE-HOLE.

Our complete line of blasthole drills and accessories for construction and quarry sites are built tough while including innovative features that deliver high-performance and ease of operations at a lower operating cost.

With the latest innovations and proven track record, FRD-USA rock drills ensure reliability and safety to be more productive with less maintenance. These innovations include heavy-duty undercarriages, high output compressors and dust collectors, advanced hydraulic and pneumatic systems, and comfortable cabs with increased visibility. We constantly innovate to stay ahead of the needs of the demanding industry. With a global distribution network, we offer the combination of high-quality equipment and exceptional service and support for unbeatable productivity, reliability and economical operation.



HCR900ESV / HCR1100ER

	HCR900ESV	HCR1100ER
Dimensions and Weight		
Overall Weight (A) *1	24,317 lb (11,030 kg)	27,514 lb (12,480 kg)
Overall Weight (B) *2	24,978 lb (11,330 kg)	28,351 lb (12,860 kg)
Overall Length	32'7" (9,940 mm)	32'10" (10,020 mm)
Shipping Length	31'10" (9,700 mm)	31'5" (9,575 mm)
Overall Width	10'8" (3,245 mm)	10'4" (3,160 mm)
Shipping Width	8'5" (2,570 mm)	8'2" (2,500 mm)
Overall Height	9'6" (2,885 mm)	11'0" (3,350 mm)
Shipping Height	9'6" (2,885 mm)	10'2" (3,110 mm)
Drifter		
Model	HD818	HD822
Weight	445 lb (202 kg)	533 lb (242 kg)
Length	3'7" (1,100 mm)	3'8" (1,130 mm)
Width	1'2" (352 mm)	1'2" (373 mm)
Height	0'11" (275 mm)	1'1" (328 mm)
Number of Blows	2,800 ~ 3,400 bpm	2,700 ~ 3,300 bpm
Rotating Speed	0 - 200 rpm (0 - 200 min ⁻¹)	0 - 190 rpm (0 - 190 min ⁻¹)
Hydraulic Equipment		
Variable Displacement Pump	PV Pump x2	PV Pump x2
Fixed Displacement Pump	Gear Pump x3	Gear Pump x3
Drive Motor	Hydraulic Motor with Reduction Gear	Hydraulic Motor with Reduction Gear
Hydraulic Oil Reservoir Capacity	44.9 gal (170 L)	45 gal (170 L)

	HCR900ESV	HCR1100ER
Compressor		
Make & Model	AIRMAN PDS265-S37B	AIRMAN PDS265-S37C
Type	1-Stage Screw Compressor	1-Stage Screw Compressor
Discharge Airflow	215 cfm (6.1 m ³ /min)	275 cfm (7.8 m ³ /min)
Discharge Pressure	149 psi (1.03 MPa)	149 psi (1.03 MPa)
Dust Collector		
Model	A884-221	A844
Suction Capacity	706 cfm (20 m ³ /min)	918 cfm (26 m ³ /min)
Number of Filter Elements	4	5
Dust Removal System	Automatic Air Pulse Jet	Automatic Air Pulse Jet
Suction Cap	Slide Type	Slide Type
Rod Arrangement		
Model	-	GR801
Type	Rack	-
Number of Rods	4 + 1 (Starter Rod)	5 (For T38 & T45), 4 (For T51)
Rod Diameter	1.3", 1.5", 1.8" (32 mm, 38 mm, 45 mm)	1.5", 1.8", 2.0" (38 mm, 45 mm, 51 mm)
Number of Control Levers	-	1
Bit and Rod		
Bit Range	2.5" - 3.5" (64 mm - 89 mm)	2.5" - 4" (64 mm - 102 mm)
Rod Diameter	32H, 38R, 45R, (38H)	38R, 45R, 51R
Rod Length	10' or 12' (3,050 mm or 3,660 mm)	10' or 12' (3,050 mm or 3,660 mm)
Starter Rod Length	14' (4,270 mm)	13' (4,000 mm)

Notes *1 "Overall Weight (A)" includes weights of fuel and oils (full).
 *2 "Overall Weight (B)" includes weight of "Overall Weight (A)", operator, rod and bit.
 AIRMAN is a registered trademark of HOKUETSU INDUSTRIES CO., LTD.

HCRL90

	HCRL90
Dimensions and Weight	
Overall Weight (A) *1	37,060 lbs (16,810 kg)
Overall Weight (B) *2	38,647 lbs (17,530 kg)
Overall Length	31'9" (9,670 mm)
Shipping Length	35'7" (10,855 mm)
Overall Width	11'5" (3,490 mm)
Shipping Width	8'0" (2,445 mm)
Overall Height	14'2" (4,310 mm)
Shipping Height	11'1" (3,375 mm)
Drifter	
Model	HD828S
Weight	597 lbs (271 kg)
Length	3'10" (1,158 mm)
Width	1'3" (387.4 mm)
Height	1'1" (327.5 mm)
Number of Blows	2,500 ~ 3,000 bpm
Rotating Speed	0 - 190 rpm (0 - 190 min ⁻¹)
Hydraulic Equipment	
Variable Displacement Pump	PV Pump x2
Fixed Displacement Pump	Gear Pump x3
Drive Motor	Hydraulic Motor with Reduction Gear
Hydraulic Oil Reservoir Capacity	56.8 gal (215 L)
Compressor	
Make & Model	AIRMAN PDS265-S37F
Type	1-Stage Screw Compressor
Discharge Airflow	353 cfm (10.0 m³/min)
Discharge Pressure	149 psi (1.03 MPa)
Dust Collector	
Model	A885-44
Suction Capacity	1,413 cfm (40 m³/min)
Number of Filter Elements	6
Dust Removal System	Automatic Air Pulse Jet
Suction Cap	Slide Type
Rod Arrangement	
Model	GR803
Number of Rods	For 12': 7 / For 14': 6
Rod Diameter	1.8", 2.0" (45 mm, 51 mm)
Number of Control Levers	1
Bit and Rod	
Bit Range	3.0" - 5.0" (76 - 127 mm)
Rod Type	T45 / T51
Rod Length	12' / 14' (3,660 / 4,270 mm)
Starter Rod Length	For 12': 14' (4,270 mm) For 14': 18' (5,490 mm)

Notes *1 "Overall Weight (A)" includes weights of fuel and oils (full).
*2 "Overall Weight (B)" includes weight of "Overall Weight (A)", operator, rod and bit.
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HCRL110

	HCRL110-828	HCRL110-836
Dimensions and Weight		
Overall Weight (A) *1	43,541 lbs (19,750 kg)	43,541 lbs (19,750 kg)
Overall Weight (B) *2	45,415 lbs (20,600 kg)	45,415 lbs (20,600 kg)
Overall Length	32'10" (10,015 mm)	32'10" (10,015 mm)
Shipping Length	36'7" (11,160 mm)	36'7" (11,160 mm)
Overall Width	11'5" (3,490 mm)	11'5" (3,490 mm)
Shipping Width	8'1" (2,465 mm)	8'1" (2,465 mm)
Overall Height	15'2" (4,620 mm)	15'2" (4,620 mm)
Shipping Height	11'7" (3,520 mm)	11'7" (3,520 mm)
Drifter		
Model	HD828	HD836
Weight	597 lbs (271 kg)	772 lbs (350 kg)
Length	3'9" (1,148 mm)	3'10" (1,171 mm)
Width	1'3" (387 mm)	1'4" (418 mm)
Height	1'1" (328 mm)	1'3" (375 mm)
Number of Blows	2,700 ~ 3,300 bpm	2,600 ~ 3,100 bpm
Rotating Speed	0 - 190 rpm (0 - 190 min ⁻¹)	0 - 120 rpm (0 - 120 min ⁻¹)
Hydraulic Equipment		
Variable Displacement Pump	PV Pump x2	PV Pump x2
Fixed Displacement Pump	Gear Pump x3	Gear Pump x3
Hydraulic Oil Reservoir Capacity	63.4 gal (240 L)	63.4 gal (240 L)
Compressor		
Make & Model	AIRMAN / PDSF290-S16	AIRMAN / PDSF290-S16
Type	1-Stage Screw Compressor	1-Stage Screw Compressor
Discharge Airflow	477 cfm (13.5 m ³ /min)	477 cfm (13.5 m ³ /min)
Discharge Pressure	149 psi (1.03 MPa)	149 psi (1.03 MPa)
Dust Collector		
Model	A885-44	A885-44
Suction Capacity	1,413 cfm (40 m ³ /min)	1,413 cfm (40 m ³ /min)
Number of Filter Elements	6	6
Dust Removal System	Automatic Air Pulse Jet	Automatic Air Pulse Jet
Suction Cap	Slide Type	Slide Type
Rod Arrangement		
Model	GR803-31	GR803-31
Number of Rod Storage	7 (For T51) pcs	7 (GT60) / 6 (GT60-TUBE) pcs
Rod Diameter	2.0" (51 mm)	2.36" / 3.43" (60 mm / 87 mm)
Number of Control Levers	1 pcs	1 pcs
Bit and Rod		
Bit Range	4.0" ~ 5.0" (102 ~ 127 mm)	4.0" ~ 5.5" (102 ~ 140 mm)
Rod Type	T51	GT60 / GT60-TUBE
Rod Length	12' / 14' (3,660 mm / 4,270 mm)	14' (4,270 mm)
Starter Rod Length	14' (4,270 mm)	18' (5,490 mm)

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HCR1100ED

	HCR1100ED
Dimensions and Weight	
Overall Weight (A) *1	28,991 lb (13,150 kg)
Overall Weight (B) *2	29,784 lb (13,510 kg)
Overall Length	32'6" (9,910 mm)
Shipping Length	31'4" (9,545 mm)
Overall Width	10'6" (3,200 mm)
Shipping Width	7'10" (2,400 mm)
Overall Height	10'12" (3,350 mm)
Shipping Height	10'2" (3,100 mm)
Drifter	
Model	HD818
Weight	445 lb (202 kg)
Length	3'7" (1,100 mm)
Width	1'2" (352 mm)
Height	0'11" (275 mm)
Number of Blows	2,800 ~ 3,400 bpm
Rotating Speed	0 - 200 rpm (0 - 200 min ⁻¹)
Hydraulic Equipment	
Variable Displacement Pump	PV Pump x2
Fixed Displacement Pump	Gear Pump x3
Drive Motor	Hydraulic Motor with Reduction Gear
Hydraulic Oil Reservoir Capacity	45 gal (170 L)
Compressor	
Make & Model	AIRMAN PDS265-S37B
Type	1-Stage Screw Compressor
Discharge Airflow	215 cfm (6.1 m ³ /min)
Discharge Pressure	149 psi (1.03 MPa)
Dust Collector	
Model	A884-221
Suction Capacity	706 cfm (20 m ³ /min)
Number of Filter Elements	4
Dust Removal System	Automatic Air Pulse Jet
Suction Cap	Slide Type
Rod Arrangement	
Model	GR801
Number of Rods	5
Rod Diameter	1.3", 1.5", 1.8" (32 mm, 38 mm, 45 mm)
Number of Control Levers	1
Bit and Rod	
Bit Range	2.5" - 3.5" (64 mm - 89 mm)
Rod Type	32H, 38R, 45R, (38H)
Rod Length	10' or 12' (3,050 mm or 3,660 mm)
Starter Rod Length	13' (4,000 mm)

Notes *1 "Overall Weight (A)" includes weights of fuel and oils (full).
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DCRL130 DOWN-THE-HOLE

	DCRL130
Dimensions and Weight	
Overall Weight (A) *1	52,029 lb (23,600 kg)
Overall Weight (B) *2	54,675 lb (24,800 kg)
Overall Length	34'11" (10,630 mm)
Shipping Length	36'6" (11,125 mm)
Overall Width	14'7" (4,455 mm)
Shipping Width	8'10" (2,700 mm)
Overall Height	14'11" (4,540 mm)
Shipping Height	11'6" (3,500 mm)
Drill Motor	
Model	DOWMAX/ME350
Reduction Ratio	1 : 3.071
Maximum Torque	3,098 lb-force-ft (4.2 KN-m)
Rotation Speed	0 - 120 rpm (0 - 120 min ⁻¹)
Bit Range	3.5 ~ 6.5 in (89 ~ 165 mm)
Hydraulic Equipment	
Variable Displacement Pump	PV Pump x2
Fixed Displacement Pump	Gear Pump x3
Drive Motor	Hydraulic Motor with Reduction Gear
Hydraulic Oil Reservoir Capacity	74 gal (280 L)
Compressor	
Make & Model	AIRMAN PDSK900-S20
Type	2-Stage Screw Compressor
Discharge Airflow 1	953 cfm (27.0 m ³ /min)
Discharge Airflow 2	858 cfm (24.3 m ³ /min)
Discharge Pressure 1 (when 2,000 rpm/min⁻¹)	334 psi (2.3 MPa)
Discharge Pressure 2 (when 1,800 rpm/min⁻¹)	363 psi (2.5 MPa)
Dust Collector	
Model	A885
Suction Capacity	2,649 cfm (75 m ³ /min)
Number of Filter Elements	12
Dust Removal System	Automatic Air Pulse Jet
Suction Cap	Slide Type

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Rod Changer	
Model	GR803
Number of Rods	8
Rod Length	16'5" (5,000 mm)
Rod Diameter	3", 3.5", 4" (76 mm, 89 mm, 102 mm)
Number of Control Levers	1

About FRD USA

Formerly Kent Demolition Tool, FRD USA is a wholly owned subsidiary of FURUKAWA ROCK DRILL CO., LTD, with nearly 60 years of experience. FRD USA breakers, attachments and compactors are built to last and are proven reliable for today's most demanding jobs. For more information, visit frdusa.com or your local servicing dealer.



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