

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

	HCR900ESV	HCR1100ER
<b>Compressor</b>		
<b>Make &amp; Model</b>	AIRMAN PDS265-S37B	AIRMAN PDS265-S37C
<b>Type</b>	1-Stage Screw Compressor	1-Stage Screw Compressor
<b>Discharge Airflow</b>	215 cfm (6.1 m <sup>3</sup> /min)	275 cfm (7.8 m <sup>3</sup> /min)
<b>Discharge Pressure</b>	149 psi (1.03 MPa)	149 psi (1.03 MPa)
<b>Dust Collector</b>		
<b>Model</b>	A884-221	A844
<b>Suction Capacity</b>	706 cfm (20 m <sup>3</sup> /min)	918 cfm (26 m <sup>3</sup> /min)
<b>Number of Filter Elements</b>	4	5
<b>Dust Removal System</b>	Automatic Air Pulse Jet	Automatic Air Pulse Jet
<b>Suction Cap</b>	Slide Type	Slide Type
<b>Rod Arrangement</b>		
<b>Model</b>	-	GR801
<b>Type</b>	Rack	-
<b>Number of Rods</b>	4 + 1 (Starter Rod)	5 (For T38 & T45), 4 (For T51)
<b>Rod Diameter</b>	1.3", 1.5", 1.8" (32 mm, 38 mm, 45 mm)	1.5", 1.8", 2.0" (38 mm, 45 mm, 51 mm)
<b>Number of Control Levers</b>	-	1
<b>Bit and Rod</b>		
<b>Bit Range</b>	2.5" - 3.5" (64 mm - 89 mm)	2.5" - 4" (64 mm - 102 mm)
<b>Rod Diameter</b>	32H, 38R, 45R, (38H)	38R, 45R, 51R
<b>Rod Length</b>	10' or 12' (3,050 mm or 3,660 mm)	10' or 12' (3,050 mm or 3,660 mm)
<b>Starter Rod Length</b>	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
<b>Dimensions and Weight</b>	
<b>Overall Weight (A) *1</b>	37,060 lbs (16,810 kg)
<b>Overall Weight (B) *2</b>	38,647 lbs (17,530 kg)
<b>Overall Length</b>	31'9" (9,670 mm)
<b>Shipping Length</b>	35'7" (10,855 mm)
<b>Overall Width</b>	11'5" (3,490 mm)
<b>Shipping Width</b>	8'0" (2,445 mm)
<b>Overall Height</b>	14'2" (4,310 mm)
<b>Shipping Height</b>	11'1" (3,375 mm)
<b>Drifter</b>	
<b>Model</b>	HD828S
<b>Weight</b>	597 lbs (271 kg)
<b>Length</b>	3'10" (1,158 mm)
<b>Width</b>	1'3" (387.4 mm)
<b>Height</b>	1'1" (327.5 mm)
<b>Number of Blows</b>	2,500 ~ 3,000 bpm
<b>Rotating Speed</b>	0 - 190 rpm (0 - 190 min <sup>-1</sup> )
<b>Hydraulic Equipment</b>	
<b>Variable Displacement Pump</b>	PV Pump x2
<b>Fixed Displacement Pump</b>	Gear Pump x3
<b>Drive Motor</b>	Hydraulic Motor with Reduction Gear
<b>Hydraulic Oil Reservoir Capacity</b>	56.8 gal (215 L)
<b>Compressor</b>	
<b>Make &amp; Model</b>	AIRMAN PDS265-S37F
<b>Type</b>	1-Stage Screw Compressor
<b>Discharge Airflow</b>	353 cfm (10.0 m <sup>3</sup> /min)
<b>Discharge Pressure</b>	149 psi (1.03 MPa)
<b>Dust Collector</b>	
<b>Model</b>	A885-44
<b>Suction Capacity</b>	1,413 cfm (40 m <sup>3</sup> /min)
<b>Number of Filter Elements</b>	6
<b>Dust Removal System</b>	Automatic Air Pulse Jet
<b>Suction Cap</b>	Slide Type
<b>Rod Arrangement</b>	
<b>Model</b>	GR803
<b>Number of Rods</b>	For 12': 7 / For 14': 6
<b>Rod Diameter</b>	1.8", 2.0" (45 mm, 51 mm)
<b>Number of Control Levers</b>	1
<b>Bit and Rod</b>	
<b>Bit Range</b>	3.0" - 5.0" (76 - 127 mm)
<b>Rod Type</b>	T45 / T51
<b>Rod Length</b>	12' / 14' (3,660 / 4,270 mm)
<b>Starter Rod Length</b>	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
<b>Dimensions and Weight</b>		
<b>Overall Weight (A) *1</b>	43,541 lbs (19,750 kg)	43,541 lbs (19,750 kg)
<b>Overall Weight (B) *2</b>	45,415 lbs (20,600 kg)	45,415 lbs (20,600 kg)
<b>Overall Length</b>	32'10" (10,015 mm)	32'10" (10,015 mm)
<b>Shipping Length</b>	36'7" (11,160 mm)	36'7" (11,160 mm)
<b>Overall Width</b>	11'5" (3,490 mm)	11'5" (3,490 mm)
<b>Shipping Width</b>	8'1" (2,465 mm)	8'1" (2,465 mm)
<b>Overall Height</b>	15'2" (4,620 mm)	15'2" (4,620 mm)
<b>Shipping Height</b>	11'7" (3,520 mm)	11'7" (3,520 mm)
<b>Drifter</b>		
<b>Model</b>	HD828	HD836
<b>Weight</b>	597 lbs (271 kg)	772 lbs (350 kg)
<b>Length</b>	3'9" (1,148 mm)	3'10" (1,171 mm)
<b>Width</b>	1'3" (387 mm)	1'4" (418 mm)
<b>Height</b>	1'1" (328 mm)	1'3" (375 mm)
<b>Number of Blows</b>	2,700 ~ 3,300 bpm	2,600 ~ 3,100 bpm
<b>Rotating Speed</b>	0 - 190 rpm (0 -190 min <sup>-1</sup> )	0 - 120 rpm (0 - 120 min <sup>-1</sup> )
<b>Hydraulic Equipment</b>		
<b>Variable Displacement Pump</b>	PV Pump x2	PV Pump x2
<b>Fixed Displacement Pump</b>	Gear Pump x3	Gear Pump x3
<b>Hydraulic Oil Reservoir Capacity</b>	63.4 gal (240 L)	63.4 gal (240 L)
<b>Compressor</b>		
<b>Make &amp; Model</b>	AIRMAN / PDSF290-S16	AIRMAN / PDSF290-S16
<b>Type</b>	1-Stage Screw Compressor	1-Stage Screw Compressor
<b>Discharge Airflow</b>	477 cfm (13.5 m <sup>3</sup> /min)	477 cfm (13.5 m <sup>3</sup> /min)
<b>Discharge Pressure</b>	149 psi (1.03 MPa)	149 psi (1.03 MPa)
<b>Dust Collector</b>		
<b>Model</b>	A885-44	A885-44
<b>Suction Capacity</b>	1,413 cfm (40 m <sup>3</sup> /min)	1,413 cfm (40 m <sup>3</sup> /min)
<b>Number of Filter Elements</b>	6	6
<b>Dust Removal System</b>	Automatic Air Pulse Jet	Automatic Air Pulse Jet
<b>Suction Cap</b>	Slide Type	Slide Type
<b>Rod Arrangement</b>		
<b>Model</b>	GR803-31	GR803-31
<b>Number of Rod Storage</b>	7 (For T51) pcs	7 (GT60) / 6 (GT60-TUBE) pcs
<b>Rod Diameter</b>	2.0" (51 mm)	2.36" / 3.43" (60 mm / 87 mm)
<b>Number of Control Levers</b>	1 pcs	1 pcs
<b>Bit and Rod</b>		
<b>Bit Range</b>	4.0" ~ 5.0" (102 ~ 127 mm)	4.0" ~ 5.5" (102 ~ 140 mm)
<b>Rod Type</b>	T51	GT60 / GT60-TUBE
<b>Rod Length</b>	12' / 14' (3,660 mm / 4,270 mm)	14' (4,270 mm)
<b>Starter Rod Length</b>	14' (4,270 mm)	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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## HCR1100ED

	HCR1100ED
<b>Dimensions and Weight</b>	
<b>Overall Weight (A) *1</b>	28,991 lb (13,150 kg)
<b>Overall Weight (B) *2</b>	29,784 lb (13,510 kg)
<b>Overall Length</b>	32'6" (9,910 mm)
<b>Shipping Length</b>	31'4" (9,545 mm)
<b>Overall Width</b>	10'6" (3,200 mm)
<b>Shipping Width</b>	7'10" (2,400 mm)
<b>Overall Height</b>	10'12" (3,350 mm)
<b>Shipping Height</b>	10'2" (3,100 mm)
<b>Drifter</b>	
<b>Model</b>	HD818
<b>Weight</b>	445 lb (202 kg)
<b>Length</b>	3'7" (1,100 mm)
<b>Width</b>	1'2" (352 mm)
<b>Height</b>	0'11" (275 mm)
<b>Number of Blows</b>	2,800 ~ 3,400 bpm
<b>Rotating Speed</b>	0 - 200 rpm (0 - 200 min <sup>-1</sup> )
<b>Hydraulic Equipment</b>	
<b>Variable Displacement Pump</b>	PV Pump x2
<b>Fixed Displacement Pump</b>	Gear Pump x3
<b>Drive Motor</b>	Hydraulic Motor with Reduction Gear
<b>Hydraulic Oil Reservoir Capacity</b>	45 gal (170 L)
<b>Compressor</b>	
<b>Make &amp; Model</b>	AIRMAN PDS265-S37B
<b>Type</b>	1-Stage Screw Compressor
<b>Discharge Airflow</b>	215 cfm (6.1 m <sup>3</sup> /min)
<b>Discharge Pressure</b>	149 psi (1.03 MPa)
<b>Dust Collector</b>	
<b>Model</b>	A884-221
<b>Suction Capacity</b>	706 cfm (20 m <sup>3</sup> /min)
<b>Number of Filter Elements</b>	4
<b>Dust Removal System</b>	Automatic Air Pulse Jet
<b>Suction Cap</b>	Slide Type
<b>Rod Arrangement</b>	
<b>Model</b>	GR801
<b>Number of Rods</b>	5
<b>Rod Diameter</b>	1.3", 1.5", 1.8" (32 mm, 38 mm, 45 mm)
<b>Number of Control Levers</b>	1
<b>Bit and Rod</b>	
<b>Bit Range</b>	2.5" - 3.5" (64 mm - 89 mm)
<b>Rod Type</b>	32H, 38R, 45R, (38H)
<b>Rod Length</b>	10' or 12' (3,050 mm or 3,660 mm)
<b>Starter Rod Length</b>	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.  
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## DCRL130 DOWN-THE-HOLE

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



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

**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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## 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](http://frdusa.com) or your local servicing dealer.



[www.frdusa.com](http://www.frdusa.com)

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