

ERGONOMIC FEATURES CAB

Drilling control sticks are placed at both sides of the operator's seat and are pilot operated. Visibility during drilling is greatly improved. Pressurized air conditioning keeps the cab climate controlled and clean.

STANDARD SPECIFICATION ALL MODELS:

- **HIGH VISIBILITY GAUGES**
Hydraulic and air pressure gauges are mounted on the front right post, allowing the operator to check them simply by glancing. This common-sense positioning lets the operator monitor machine functions while continuing to focus attention on the drilling.
- **WALK-AROUND GROUND-LEVEL MAINTENANCE**
All daily maintenance can be performed at ground level. Gas-assisted dampers allow the hinged service doors to be opened easily for access to all required maintenance locations.
- **HEAVY-DUTY UNDER CARRIAGE**
Heavy-duty track frames provide strength and durability. They feature a pentagonal section design to reduce dirt build up and track wear. One-piece drive sprockets are manufactured with hardened wear surfaces for longer life. Track rollers and carrier rollers are forged and hardened for durability and lifetime-lubricated to reduce maintenance requirements. Heavy-duty track links are forged from high-manganese alloy steel. Pins and bushings are induction hardened. Alloy steel front idlers are hardened, and lifetime-lubricated. Standard full track guards protect under carriage. Track tension can be adjusted easily with a grease gun.
- **SINGLE JOY-STICK OPERATION**
A single multi-function lever controls drifter. One "each finger" operated joystick controls air and rod changer.

"We have had F4s and F6s working for us on (task) for the last (number) years. These units are uncanny. They just go on and on. Downtime has been negligible."

OUTSTANDING DEALER NETWORK



WHERE EXPERIENCE COUNTS

"What we mean by service to our clients includes same day repair and part delivery, fast repair on location in the event of a rare break down or immediate replacement machine. We have a great name to uphold. We intend to keep it that way."

LOCAL SERVICE AND SUPPORT

FRD seeks firstly to supply a product of undoubted integrity. Then back this up with a support network of dedicated dealers to ensure whatever support, wherever and whenever needed. The FRD-dealer combination has been made unbeatable.

FRD dealers have been selected for their professional competence, their market coverage, their dedication to quality and their willingness to work. They receive intense training on all machines and systems and every support that a committed manufacturer can give them. They actively exchange experience between each other to ensure their clients get the latest lessons from the market. They are a skilled and fast team of professionals.

VALUE FOR MONEY

Buying FRD products is a smart investment. A reasonable price for top quality, long lifetime, low maintenance and no break-down-time products in the long term makes financially good sense.

Next steps? FRD Europe and its dealers have a vast resource of information beyond what can be mentioned here. Do not hesitate to get in touch for more detail and an unbeatable quote.

"For a professional problem-free job FRD offers the best combination of quality equipment and instant service and support. The dealer network is outstanding."



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HYDRAULIC CRAWLER DRILL DURABLE AND RELIABLE



WHERE EXPERIENCE COUNTS

HYDRAULIC CRAWLER DRILL

DURABLE EN RELIABLE



THE ULTIMATE COMBINATION OF PERFORMANCE AND ECONOMY

STANDARD SPECIFICATION ALL MODELS:

- **HIGH-OUTPUT COMPRESSOR**
High-output compressor increases flushing air volume, provides faster drilling and decreases bit wear. It also prevents redrilling of cutting, and improves drilling speed.
- **LOW-EMISSION ENGINE**
Quiet, powerful engine meets major exhaust-emissions regulations for the European Union, the United States, and Japan. In addition to being clean, it is also economical and offering low fuel consumption. Thanks to an engine frame that sits on rubber mounts, the operator's cab isolated from engine vibrations. In cold weather, an intake air heater ensures quick starting.

SPECIAL FOR HCR1200/1500:

- **IDS-1 SELF-ADJUSTING DRILL SYSTEM**
Because drilling conditions vary throughout a drilling depth and location, the systems on the HCR1200 and HCR1500 have been designed to maximize drilling efficiency through to the bottom of the hole. By automatically controlling the impact force, feed force and rotation force, and dual damper pressure, the systems on these drill rigs continuously adapt to the changing rock conditions, increasing drilling performance and drill tools life while decreasing fuel consumption.
- **PERMUTATION ROTARY ROD CHANGER**
Permits the operator to add and withdraw rods using a single lever and to select which rods in the rack to use, thereby spreading the wear evenly among all the rods in the rack and helping to reduce costs.

SPECIAL FOR HCR1000

- **IDS-2 DRIFTER CONTROL SYSTEM**
Furukawa has a newly developed flow-sensing IDS-2 valve which manages feed speed of the drifter during the drilling operation: IDS-2 hydro-mechanical monitors feed-speed of the drifter during drilling
- **IN-LINE-2 ROD CHANGER**
The hydro-mechanical "In-Line-2" rod changer is an updated model of the conventional Furukawa In-Line rod changer. Rod change time is reduced.



WHERE

EXPERIENCE COUNTS

HD700 SERIES HIGH-PERFORMANCE DRIFTER

DRIFTER HD709/HD712/HD715

Intelligent drifter design with automatic drilling system delivers the highest-possible drilling performance at the lowest-possible operating cost.

DUAL DAMPER SYSTEM

For maximum energy transfer, the system minimizes return shock waves by keeping the bit firmly against the rock at all times during drilling, resulting in lower energy loss. By reducing the overall feed force required by the system, straighter holes are achieved. An additional benefit is greatly extended shank rod and drill tools lifetime.

COMPACT VALVE DESIGN

The new design takes an innovative approach to operating efficiency. A compact valve built in the HD700 cylinder is positioned in close proximity to the piston resulting in a rapid valve and piston response, both leading to outstanding drifter performance.

REVERSE PERCUSSION

Makes it easier to free a stuck rod.
A substantial increase in extraction force allows field proven Reverse Percussion to remove the stuck rod more efficiently.

FURUKAWA HD700 series: drifter delivers superior performance. With the HD700 series, it's easier than ever before to drill faster and straighter.

INDUSTRY-LEADING FEATURES OF FURUKAWA HD700 SERIES INCLUDES:

- Dual Damper System automatically tunes the drifter for maximum performance regardless of the rock condition.
- Original piston design, engineered to maximize energy transmission and to drill effectively in a variety of rock types.
- Special for HCR1200/1500 models: automatic control of the drifter impact pressure to enhance drill performance.
- Special for HCR1000 model: manual adjustable percussion pressure, feed force, feed speed and rotation speed all of which may be utilized for obtaining optimum drilling performance.
- Intelligent drifter design minimizes drill noise and vibration.
- Simplified operation allows even inexperienced operators to perform well.



"We had HCR's working for us in our quarries for the last 10 years. These units are uncanny. They just go on and on. Downtime has been negligible."

"You want the job done professionally without problems. FRD offers you high quality equipment and excellent service and support from a local, professional partner."