FRD FURUKAWA

Hydraulic Crawler Drill

HCR900-DS

FURUKAWA

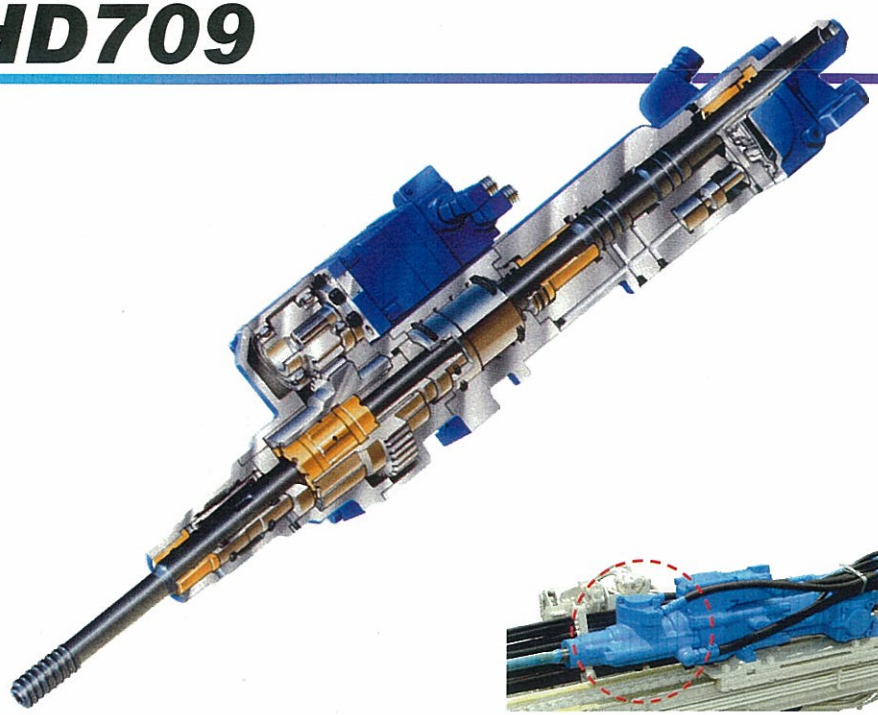
HD700 series HIGH-PERFORMANCE DRIFTER

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.
- New piston design, engineered to maximize energy transmission and to drill effectively in a variety of rock types.
- Manually adjustable percussion pressure, feed force, feed speed, and rotation speed all of which may be utilized for obtaining optimum drilling performance.
- New drifter design minimizes drill noise and vibration.
- Simplified operation allows even inexperienced operators to perform well.
- The HD700 series — the key to high-performance drilling.

Drifter HD709



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 loses. By reducing the overall feed force required by the system, straighter holes are achieved. An additional benefit is greatly improved shank rod and drill tools life.

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 (Optional)

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.

IDS-2 DRIFTER CONTROL (Optional)

Field proven Furukawa-IDS has been simplified and customized as IDS-2 for HCR900DS series.

- IDS-2 hydro-mechanically monitors feed-speed of the drifter during drilling.
- Furukawa has a newly developed flow-censing IDS-2 valve which manages feed speed of the drifter during the drilling operation.
- When the drill bit enters air gaps or mud seams between rocks or loose rock layers, IDS-2 lowers feed speed of the drifter to pre-adjusted slow feed-speed until the bit once again contacts solid rock. The dual damper also shifts the position of the shank rod forward allowing the piston to drive the shank rod with reduced power.
- When the drill bit passes between rock layers, feed speed is lowered to maintain straight in line drilling.
- IDS-2 reduces total steel cost and lost drill time due to stuck drill rods.

THE ULTIMATE COMBINATION OF PERFORMANCE AND ECONOMY

New drifter design incorporating the IDS-2 drilling system delivering the highest-possible drilling performance at the lowest-possible operating cost.

HIGH-OUTPUT COMPRESSOR

High-output compressor increases flushing air volume, provides faster drilling and decreases bit wear. It also prevents redrilling of cuttings, and improves drilling speed.

IMPROVED PRE-CLEANER PERFORMANCE

(Optional)

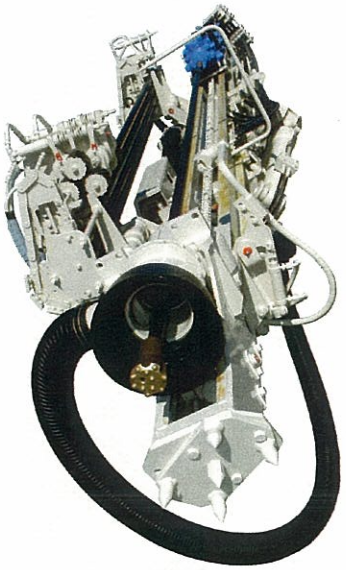
Allows increased flushing air volume which reduces system clogging. Outlet design expels the large cuttings before they reach the main housing thereby extending filter life.

IN-LINE-1 ROD CHANGER

The all hydro-mechanical In-Line-1 conventional design is field proven. Rod change speed is improved over previous design.

LOW-EMISSION ENGINE

Quiet, powerful engine meets major exhaust-emissions regulations in the European Union, the United States, and Japan. In addition to being clean, it is also economical, offering low fuel consumption. And, thanks to an engine frame that sits on rubber mounts, the operator's cab is isolated from engine vibrations. In cold weather, an intake air heater ensures quick starting.



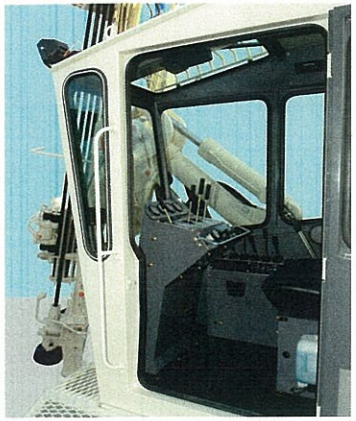
Rod changer & Rod changer control

Dust collector

Engine

S-SERIES CAB

The S-Series style cab has been incorporated into the design of the HCR900DS. Operators having experience with Furukawa Drills will enjoy the similarities and minimal time required to learn operation. The built-in air-conditioner has both heating and cooling capabilities.

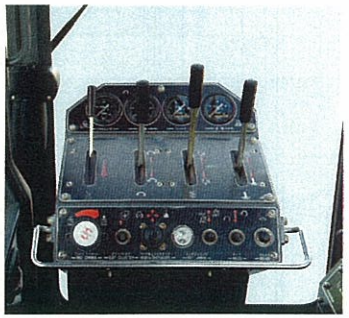


CONTROL LEVER OPERATION

The 4-control levers are conveniently and comfortably positioned directly in front of the operator's seat. The Single Task / Single Lever design minimizes operational errors.

HIGH VISIBILITY GAUGES

Hydraulic and air pressure gauges are mounted on the right side of the cab, allowing the operator to check them simply by glancing. This positioning lets the operator monitor machine functions while drilling.



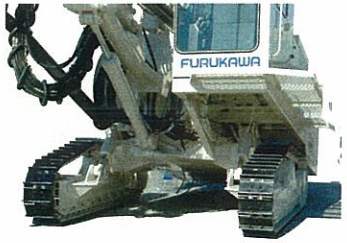
Drill control

WALK-AROUND GROUND-LEVEL MAINTENANCE

All daily maintenance can be performed at ground level. The hinged service doors to be opened easily for access to all required maintenance locations.

HEAVY-DUTY UNDER CARRIAGE

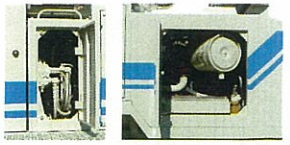
Heavy-duty track frames provide strength and durability. They feature a pentagonal section design to reduce dirt build up and track wear. One-piece drive sprockets are manufactured with hardened wear surfaces for longer life. Track rollers and carrier rollers are forged and hardened for durability, and lifetime-lubricated to reduce maintenance requirements. Heavy-duty track links are forged from high-manganese alloy steel, and 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.

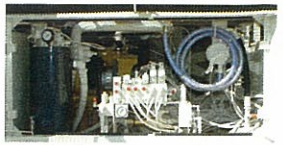


HCR900-DS

Boom / Rod changer / Traveling control

Meter panel & Gauges





Service door