

NPC – Hydrokor V In-Plant Coring Machine

Data Sheet

NPC's engineers have further advanced the Hydrokor V's rugged, reliable design through improved torsional and bending stiffness in the main frame and by adding mass in the coring platform. The result is greatly reduced vibration and improved coring efficiency.

Another design goal of the Hydrokor V was to utilize as much proven "off-the-shelf" technology as possible to reduce maintenance cost and speed repair times. Everything from the standard hydraulic valves to the

bearings can be sourced through suppliers local to customer locations. This minimized the number of parts needed by customers and holds down the cost of spare parts by using high volume industrial components.

The modular design allows the machine to be set up for left or right hand operation, adding a second turntable for higher throughput, and upgrading from a two-speed to four-speed operation for larger hole sizes.

GENERAL:

- 4" - 60" core drill capacity
- Field upgradeable drive train.
- Left- or right-hand control, field configurable.

POWER UNIT:

- 20 HP heavy-duty power/control unit with premium quality components (Barnes pump, Baldor motor).
- Unit can be field configured for left or right-hand control
- Power unit can be floor mounted or machine mounted.
- Digital turntable display
- Hour meter
- Rugged Gresen heavy-duty equipment valves
- Hydraulic Auto-Feed System
- Optional Digital Elevation and Digital Feed Displays.



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ELEVATION FRAME:

- 14 inch extended height standard. Drill center line to manhole positioner is 8 inch - 74 inch (66 inch net stroke).
- 2 Sheffer Hydraulic Cylinders for rapid elevation adjustment. Counter-balance safety valve for fail-safe operation
- Solid elevation posts for improved stiffness and reduced vibration
- Replaceable high-performance Nyloil bearings.
- Extended-height units can be equipped with hinged base for shipping in a high cube trailer, reducing shipping costs.
- Optional light-duty core drill hoist.

FEED FRAME:

- 48-inch feed with Sheffer Hydraulic Cylinder
- V-groove rollers with heavy-duty, double-taper bearings
- Extra-heavy 22 pound per foot steel rail frame

DRIVE TRAIN:

- Ultra solid drive platform made of 3" solid steel for smooth coring
- Single and dual speed models use a direct drive hydraulic motor
- Heavy-duty water swivel with ball bearing construction and replaceable seals
- Four-Speed Heavy-Duty Funk/John Deere® HMD 12700 transmission
- Heavy-duty Seal Master main bearings.

TURNTABLE:

- 4-inch tall positioners allow structures to be lifted on and off with a forklift
- Independent 90-inch diameter turntable design allows for flexible configurations
- Synchro Drive Encoder System for turntable digital readout

