

CORE-MATIC

Coring Machines



What It Is

Press-Seal has three models of coring machines available for precasters. From a cost effective manually operated machine to fully automated machines that includes several turntable and spindle options, automation packages and custom options that increase productivity.

Machine Includes

New Generation:

- Multiple tables
- Multiple spindles
- Automation package with multiple options available

Classic:

- 1 or 2 tables
- Multiple spindles
- Automation package with multiple options available

Workhorse:

- Economical
- Single table
- Single spindle
- Manual hydraulic controls

Popular Options

- Choice of 60" (1500 mm) or 116" (2950 mm) turntables.
- Multiple turntables, from one to four including the option to core two holes in the same structure at once.
- Offsetting turntable for coring parallel holes.
- Spindle carousel for 1-8 spindles.
- Frame-mounted crane for handling bits.
- Customization for unique requirements.
- Safety barriers

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Classic & New Generation Model Features

Control Panel *Shown with upgraded controls package



- Electrical Requirements – 480/240 Volt 3 phase, 60 Hz with 24 Volt DC controls
- Nema 12 power-disconnect, enabling safe outdoor operation.
- Emergency stop switch located on main panel
- Hydraulic circuits prevent turntable rotation or elevation change while bit is rotating
- Semi-Automatic coring process
- Automatic bit retraction
- Cordless remote feed control

Heavy Duty Turntable



- Heavy Duty – 90" Diameter – 12-ton capacity, powered turntable
- 3/4" Thick turntable plate and 1/2" thick drive rim
- Turntable is supported by (10) 8" diameter x 3" wide – 3,500 pound capacity casters (35,000 pound total caster capacity; 24,000 pound rated turntable capacity; 11,000 pound load safety factor)
- Turntable drive rim has diamond treads rolled to the inside for added drive wheel traction
- 4" center drain hole and 3/4" high lip on perimeter
- Easy access to turntable drive assembly
- Heavy duty turntable positioning system
- Smooth hydraulic drive
- Automatic hydraulic position lock
- Easily accommodates slurry pit under support frame

Custom Built Transmission



- Specially-designed and custom-built transmission
- Four speed ranges: 75, 150, 300, and 600 RPM
- Keeps hydraulic motor at peak torque with all bits

Hydraulic Unit



- Rugged 25 HP Hydraulic Pumping Unit
- 21 GPM flow rate.
- 50 gallon hydraulic reservoir
- High-efficiency, radiator-type, fan-cooled hydraulic oil heat exchanger
- Feed pressure controlled by an electro-hydraulic, direct-acting proportional control valve



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Control Upgrade Package

What It Is

The Core-Matic HD line of machines is now available with exciting state of the art controls upgrade package. Only the Core-Matic offers these easy to use yet powerful control features, which allow you to achieve the highest coring production rates in the precast industry.

The upgrade package includes:



Semi-Automatic Coring

- Optimizes coring cycle time.
- Maintains constant bit pressure throughout the coring cycle.
- Improves bit life
- Allows operator to set coring pressure from 400 to 1,400 PSI in 50 PSI Increments.
- Makes it easy for operator to find and repeat peak performance settings.
- Eliminates the need to adjust coring pressure settings when changing to most bit sizes.
- Automatically detects and corrects a “stuck bit situation.”



X/Y Liner Encoder With Digital Readout

- Gives Operator precise bit location on the X (horizontal) and Y (vertical) axis of movement.
- Speeds set-up time.



Automatic Bit Retract

- Allows operator to enter a set depth for coring to stop.
- Sounds safety alarm and retracts bit when set coring depth is reached.
- Coring depth can be set from home position or initial bit and structure contact location.



Cordless Remote Bit Feed Control

- Operator can maintain control of the coring feed system while away from the main controls.
- Operator can observe inside the manhole and retract the bit exactly when needed.
- 4 Button remote controls bit feed extending, retracting, stopping, and rapid advancing.
- Operator can view from optimum location when rapid advancing bit to the structure.
- No cord to trip over or get tangled up.
- Includes spare transmitter.



Automatic Oil Temp. Regulation

- Maintains correct oil temperature by automatically cycling heat exchanger fan on and off.



Bit Speed RPM Readout

- Operator can verify 4-speed transmission is in proper gear from control station.



Water Flow Meter

- Takes out the guesswork once optimum water flow rates are established.



Low Oil Level Alarm

- Flashes a warning if hydraulic oil level becomes too low.

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