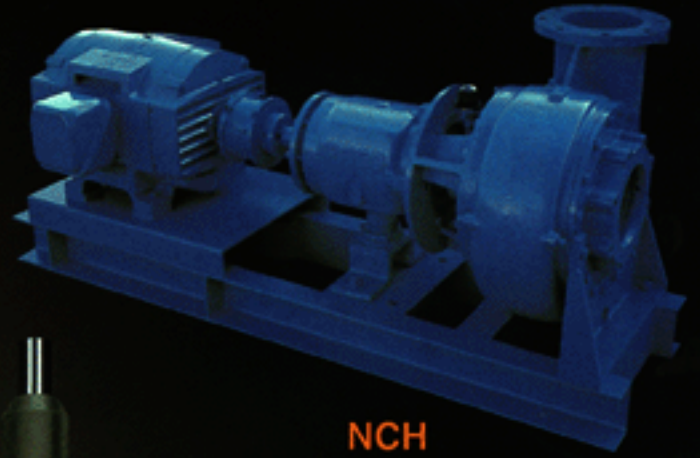


PACO
PUMPS



NCH



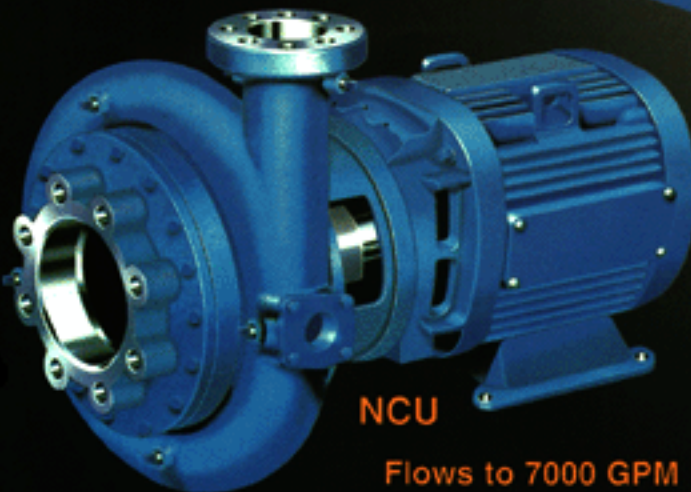
NCVU



NCP



NCF



NCU

Flows to 7000 GPM
Heads to 350 Feet

Dry Pit Non-Clog Pumps
Type
NCH, NCF, NCP, NCU, NCVU

PACO PUMPS

DRY PIT NON-CLOG PUMPS

Cast iron motor bracket with registered fits and large coupling access provides assurances of alignment, rigidity, long life and ease in maintenance.

Shaft is oversized, standard in high strength AISI 1045 steel and available in a variety of alloys to meet application requirements. Shaft deflection is minimized (.002 at worst case, at shutoff) to promote long bearing and seal life.

Bearing frame is solid, heavy walled, cast iron designed to provide maximum bearing support and alignment.

Housing bracket with registered fits is machined to NEMA standard dimension to act as motor bracket when headspace requirements are limited and true close coupled requirements exist.

Cap screws are each positioned to allow assembly and disassembly using standard box and/or socket wrenches with ample space to turn the wrench.

Interior of backplate is designed with anti-vortexing ribs to prevent erosion.

All external fits have cast alignment marks to accommodate assembly and reassembly, easing maintenance.

Impellers are standard in high strength cast iron, available in numerous alloys to assure long life and are designed for maximum efficiencies, minimum NPSH requirements and large solids handling capabilities. All impellers are trimmed and balanced to application requirements. Ported, portless and recessed impellers are available.

Impellers are keyed and secured with **acorn shaped impeller cap screws** to prevent against "hang-ups" by stringy pumpage.

Pump stands are fabricated steel with solid support and large openings to ease access. Sufficient room has been designed in to allow easy installation.

All replacement parts are available in kit form and selectable by using nameplates without referring to cross sectional drawings to ease and reduce downtime.

Regreaseable adjustable bearing frames are standard and allow restoration of like new performance of rotating assembly by clearance adjustments.

Combinations of **roller and ball bearings**, single and double row (as required), are used to provide maximum bearing life. Nominal worst case bearing life is over 100,000 hours (L10/B10) while L10/B10 life at BEP averages in the millions of hours.

Stuffing box is designed to accept all popular sealing arrangements including packing, double seals, single seals, cartridge seals, split seals and the PACO type ARC non contact, abrasive resistant, dry running conical seals.

Shaft sleeves protect shaft and are standard in bronze, stainless, hardened stainless and other alloys as required.

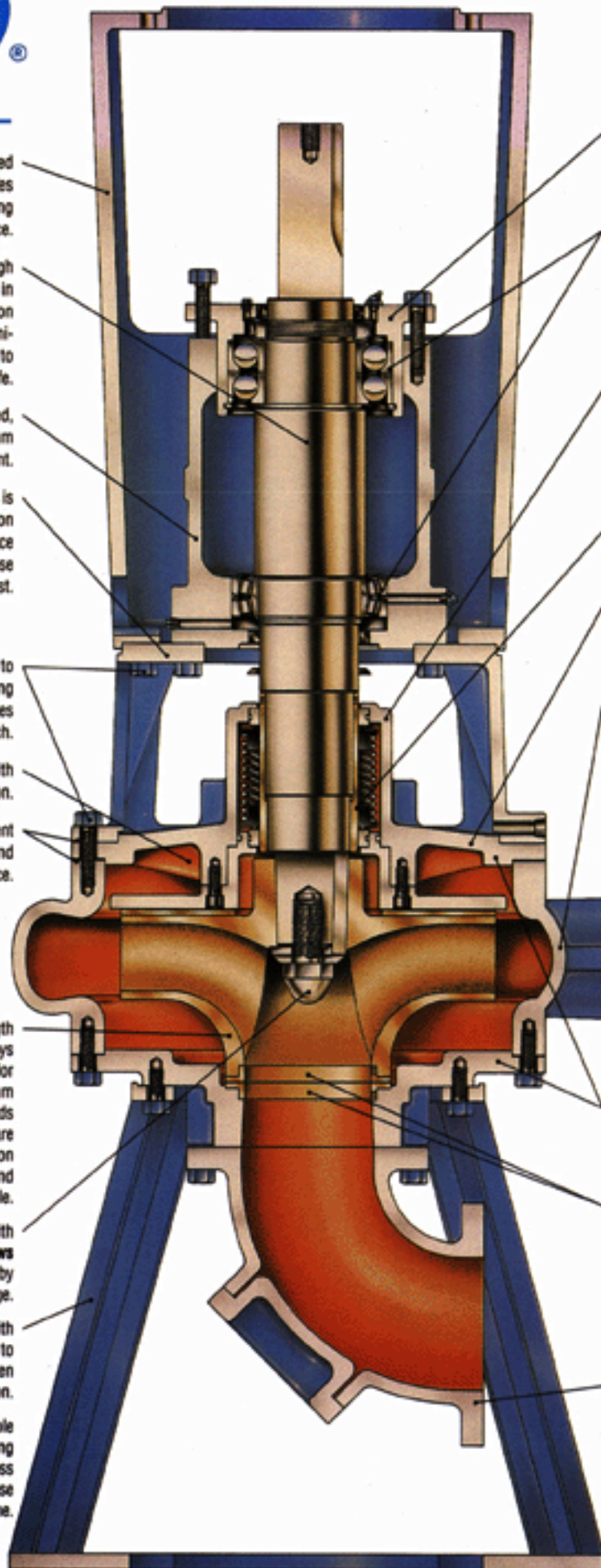
Backplate is contoured downward to a pipe fitting opening. This design and the absence of pockets prevents fluid accumulation.

Volutes with large discharge cleanout and full discharge flange connections is heavy walled cast iron as standard and promotes ease in installation and long life. Other materials of construction are available as applications warrant.

Suction cover and back cover, in same materials as volutes, are fitted with identical registered fits to volute to allow maximum interchangeability.

Casing and impeller **L shaped wear rings** are standard. Wear rings are secured with set screws on non contact surfaces to promote long life, ease of replacement and allow adjustment from the pump end. Standard in cast iron, they are available in a variety of alloys to suit application requirements.

Suction elbow has long contoured cleanout, is positionable in multiple directions, and is cast as standard in heavy walled cast iron (with other materials available) to promote long life, ease in installation and ease in maintenance.



Dry Pit Non-Clog Pumps

Type

NCH, NCF, NCP, NCU, NCVU

Configurations	Description	Benefits
NCF	Dry pit design is vertically mounted, flexibly coupled. Driver is elevated above pump.	Minimal floor space required Rugged Bearing Frame provides long life Elevated driver protected from moisture
NCP	Dry pit design is vertically mounted, utilizing extended flexible shafting locating the driver remotely from the pump.	Minimal floor space required Rugged Bearing Frame provides long life Remote driver protected from flooding
NCH	Dry pit design is horizontally mounted, with flexibly coupled driver.	Provides for Straight-in Piping Back pull-out provides for ease of maintenance
NCVU	Dry pit design is vertically mounted, with close coupled motor.	Minimal floor and head space required Ideal for prepackaged pump stations, or retrofitting of existing systems
NCU	Dry pit design is horizontally mounted, with close coupled motor.	Compact for installation versatility Back pull-out provides for ease of maintenance

** Seal type & material options can be matched to preference/specification.



Stuffing Box Options	Description**
Packing	SOPF(std) 100 PSI-230°F
Single	Carbon/Ceramic 175 PSI-211°F
Double	Carbon/Ceramic 175 PSI-180°F
Conical (pictured)*	Bronze/Bronze 100 PSI-211°F
Chesterton 155-Single	Carbon/Silicon Carbide 300 PSI-400°F
Chesterton 255-Dual	Carbon/Silicon Carbide 250 PSI-400°F
Chesterton 442-Split	Carbon/Ceramic 350 PSI-250°F

*PACO Patented, Chromed Conical Seal is non-contacting, permits dry running, and is ideal for heavy grit pumpage.



Impeller Types	Features
2-Port	Enclosed 2-port non-clog impeller design uses back pump-out vanes to keep stringy material from shaft and seal. Provided with L-shaped wear rings as a standard.
Chenault	Semi-open Chenault non-clog impeller has stream-lined ports for slip-stream performance in liquids containing fibrous materials. Patented impeller design permits solids to pass around impeller eye and edgeless vanes.
Vortex	Vortex non-clog impeller has maximum clearance between rotor and volute for free passage of stringy and fibrous materials. Vortex action allows problem solids to flow through pump without passing through ports of conventional impellers.

All PACO impellers are statically and dynamically balanced for smooth operation.

Other PACO Products

- End Suction Pumps
- In-Line Pumps
- Split Case Pumps
- Boiler Feed Pumps
- Sludge and Slurry Pumps
- Regenerative Turbine Pumps
- Booster Packages
- Vertical Sump Pumps
- Vertical Sewage Pumps
- Vertical Turbine Pumps
- Submersible Non-Clogs
- Dewatering and Sump Pumps
- Condensate Packages
- VFD Packages
- Trash Pumps



PACO Pumps • 902 Koomey Road • Brookshire, TX 77423
(281) 994-2700 or (800) 945-5847
Fax: (800) 945-4777
www.pacopumps.com

Represented By: