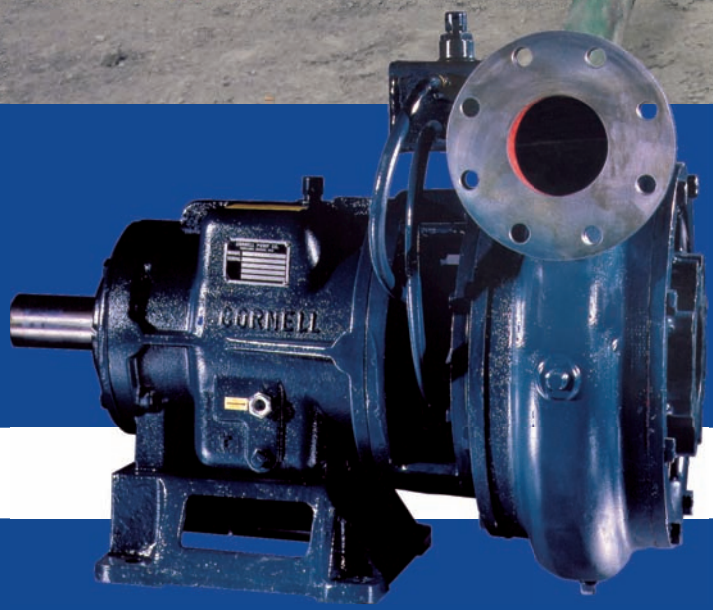
CORNELL
EFFICIENT BY DESIGN

CORNELL PUMP COMPANY

CD4MCu

FOR CORROSIVE & ABRASIVE APPLICATIONS

NOW STOCKING
A WIDE VARIETY
OF PUMPS, WITH
AGGRESSIVE PRICING!



EFFICIENT BY DESIGN

CD4MCu

WHY CD4MCu?

CD4MCu is a duplex stainless steel, with greater corrosive resistance than standard stainless steel. CD4MCu provides significantly better chloride stress cracking resistance than standard stainless steel, and much better localized corrosion resistance.

CD4MCu allows the pumps to be used in more abrasive applications, and it won't pit like regular stainless steel, has a better stress/corrosive cracking resistance than standard stainless, and higher strength than standard stainless steel. And compared with regular cast iron material, it is much more resistant to corrosion and much stronger.

Cornell now stocks CD4MCu castings in stock for 11 of our most popular pump models, allowing us to slash production time and price. We can have a CD4MCu pump built in as little as one to two weeks.

APPLICATIONS:

CD4MCu's superior corrosion and abrasion ability make it ideal for these applications:

- Food Processing
- Mining
- Industrial Process
- Marine
- Brackish Water
- Deionized Water
- Fertilizer

STRONGER PUMPS, BUILT FASTER, LESS EXPENSIVELY THE CORNELL PUMP CD4MCU INITIATIVE

FEATURES:

- Clean Steel
- Usable in PH levels of 2 to 13.5
- Brinell hardness up to 450
- Heads up to 800 feet possible
- Suction lifts up to 28 feet
- Industry leading two-year warranty

BENEFITS:

- Corrosion and pitting resistance
- Higher strength than standard stainless steel
- Improved ductility and weldability
- Better resistance to embrittlement
- Fully automated priming and self-priming, dry-run pumps
- Handles Air/liquid mixtures with ease
- Patented Cycloseal®, Redi-Prime®, and Run-Dry™ options
- Handles large sized Solid
- High suction-lift capabilities up to 28 feet
- Up to 7,000 GPM flow
- Cornell Completive Advantage: Patented Engineering Features

THESE PUMP MODELS AVAILABLE IN STOCK:

4414T
6NHTA
8NNT
8NHTA
6NHTB
6822MX
6NNT
4622MX
6NHTB19
4NNTL
2.5H

Learn more about Cornell and CD4MCu from this authorized Cornell Pump dealer:

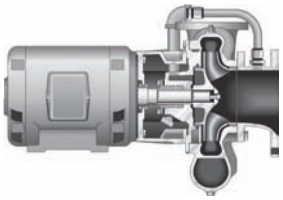
CORNELL CD4MCU AVAILABLE WITH NEW AGGRESSIVE PRICING SHORT LEAD TIMES THROUGH STOCKED CASTINGS

OPTIONS

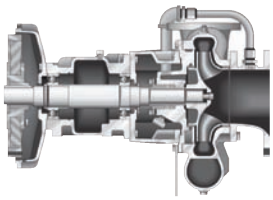
MOUNTING CONFIGURATIONS

Cornell irrigation pumps are available in a variety of mounting configurations, including horizontal and vertical close-coupled pumps, vertical and horizontal frame-mounted pumps, and pumps with an SAE bell housing mounting directly to an engine.

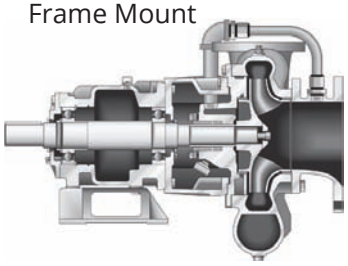
CC
Close-Coupled



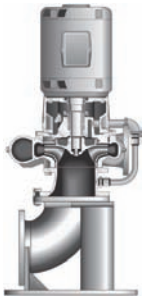
EM
Engine Mount



F
Frame Mount

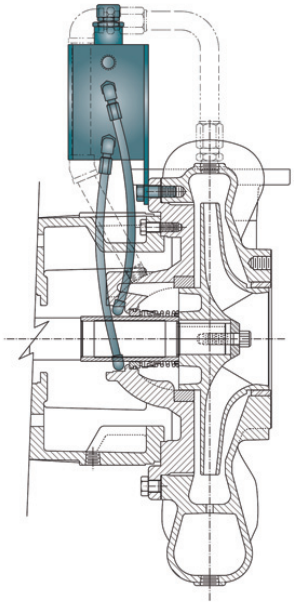


VM/VC/VF
Close Coupled
Coupled
Frame Mount



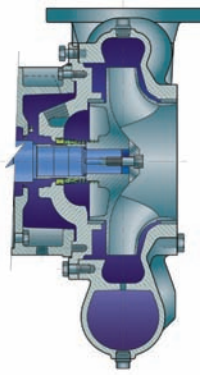
RUN-DRY™ SYSTEM

For applications where there is the possibility of the pump operating in a dry condition, Cornell's Run-Dry™ system is the answer. Cornell's Run-Dry™ system consists of an auxiliary gland and oil reservoir that keeps the seal faces lubricated and prevents dry running of the seal faces during priming, re-priming, or standby operation. The Run-Dry™ gland is connected to a lubricant reservoir via inlet and outlet lines such that shaft rotation provides continuous circulation and cooling of the lubricant and seal faces. With the Run-Dry™ system your pump can run dry for hours without damaging the mechanical seal.

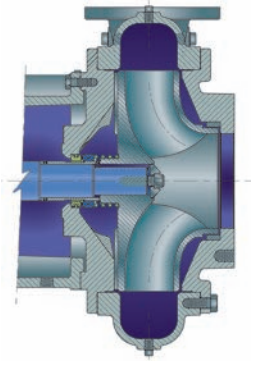


CYCLOSEAL®

Ideally suited for water and waste water applications, Cornell's patented Cycloseal® (U.S. Patent # 5,489,187) is a self-contained single mechanical seal with a dished backplate. This configuration requires no external flushing and eliminates the need for a water flush line. The Cycloseal® uses stationary deflector vanes cast into the pump backplate in conjunction with contoured impeller back vanes and a dished backplate to create pressure gradients that moves solids and entrained vapor away from the seal faces. The service life of a Cycloseal® mechanical seal can be as much as 10 times longer than a typical mechanical seal.



IRRIGATION



SOLIDS HANDLING

REDI-PRIME®

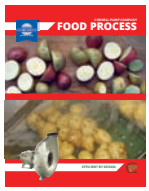
Cornell Redi-Prime® pumps are designed with oversized suctions to provide more flow, reduced friction losses, and higher suction lift. The priming system was designed with the environment in mind. By using a positive sealing float box and a diaphragm vacuum pump, there is no water carry-over to contaminate the environment. With suction lifts of up to 28 feet, heads to 470 feet and flow rates exceeding 20,000 GPM, most Cornell pumps can be readily fitted with the Redi-Prime® system.

CORNELL®

EFFICIENT BY DESIGN

MARKET AND PRODUCT LINE

AGRICULTURAL



FOOD PROCESS

INDUSTRIAL

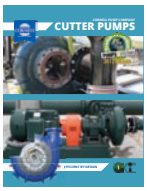
MINE DEWATERING

MUNICIPAL

REFRIGERATION

WATER TRANSFER

CHOPPER



CUTTER

EDGE™

HYDRAULIC SUBS

HYDRO TURBINE

IMMERSIBLE

MANURE

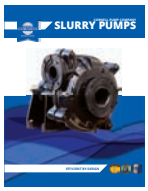
MP SERIES

MX SERIES

OIL & GAS

REDI-PRIME

STX



SLURRY

SUBMERSIBLE

Cycloseal®, and Redi-Prime® are Registered Trademarks of Cornell Pump Company.

Cornell pumps and products are the subject of one or more of the following U.S. and Foreign patents: 3,207,485; 3,282,226; 3,295,456; 3,301,191; 3,630,637; 3,663,117; 3,743,437; 4,335,886; 4,523,900; 5,489,187; 5,591,001; 6,074,554; 6,036,434; 6,079,958; 6,309,169; 2,320,742; 96/8140; 319,837; 918,534; 1,224,969; 2,232,735; 701,979 and are the subject of pending U.S. and Foreign Patent Applications.

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ISO 9001:2008 CERTIFIED

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