

CORNELL PUMP COMPANY

CD4MCU

FOR CORROSIVE & ABRASIVE APPLICATIONS



CD4MCu PUMPS
IN STOCK
AND READY
TO SHIP



CD4MCu



WHY CD4MCu

CD4MCu is duplex stainless steel that uses a two-phase metallurgy process, different from the single-phase metallurgy process found in common stainless steel grades like 316. This process combines the corrosion resistance of 300-series stainless steel with the strength and hardness of 400-series stainless steel. This results in stainless steel with equivalent or superior corrosion resistance to 316 SS but with twice the yield strength. CD4MCu allows pumps to be used in more abrasive applications with enhanced resistance to corrosive cracking and pitting. Cornell has made CD4MCu castings available in-store for 13 of its most popular pump models, which reduces production time. We can now build a CD4MCu pump in about one to two weeks.

CD4MCu BENEFITS

- Corrosion and pitting resistance
- Higher strength than standard grades of stainless steel
- Improved ductility and weldability
- Better resistance to embrittlement

CORNELL PUMP BENEFITS

- Fully automated priming and self-priming, dry-run pumps
- Handles air/liquid mixtures with ease
- Patented Cycloseal®, Redi-Prime®, and Run-Dry™ options
- Cornell Competitive Advantage: Patented Engineering Features

FEATURES



CLEAN STEEL



BRINELL HARDNESS
UP TO 285



INDUSTRY LEADING
TWO YEAR WARRANTY

PUMP MODELS AVAILABLE IN STOCK

2.5H-F16

3HC-F16

2415MX-F18DB

3419MX-F18DB

3617MX-F18DB

4622MX-F18DB

6822MX-F18DB

81024MX-F12DB

4NNTL-F5

4NNT-F16

4414T-F18DB

4817T-F18DB

4NHTB19-F18DB, 300#
Discharge Flange

6NNT-F16

6612T-F16

6NHTA-F18DB

6NHTB-F18DB

6NHTB19-F18DB, 300#
Discharge Flange

8NNT-F18DB

8NHTA-F18DB

8NHG19-F18DB

8NHTH-F18DB

10NNT-F18DB

APPLICATIONS



FOOD
PROCESSING



MINING



INDUSTRIAL
PROCESS



MARINE



BRACKISH
WATER



DEIONIZED
WATER



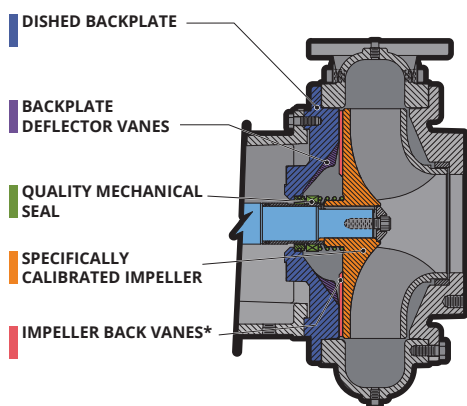
FERTILIZER



OIL/GAS

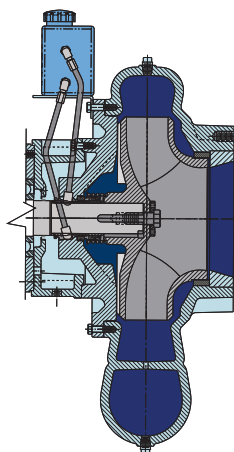
CORNELL CD4MCu AVAILABLE WITH NEW AGGRESSIVE PRICING AND SHORT LEAD TIMES

OPTIONS



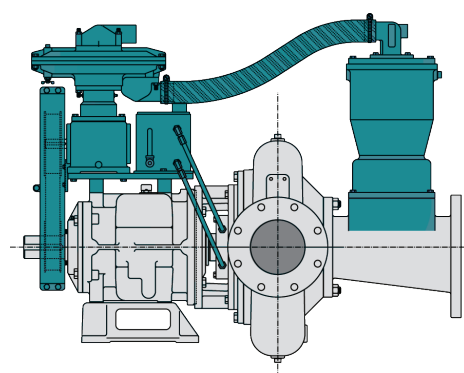
CYCLOSEAL®

Cornell's Cycloseal is an ideal solution for water and wastewater applications. This patented technology is a self-contained single mechanical seal with a dished backplate, eliminating the need for an external flushing system or water flush line. The configuration includes stationary deflector vanes, contoured impeller back vanes, and a dished backplate that create pressure gradients, moving solids and vapor away from the seal faces. Cycloseal can last up to ten times longer than a typical mechanical seal.



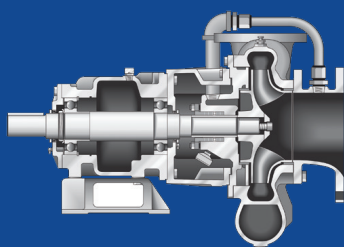
RUN-DRY™

Cornell has developed the Run-Dry system to prevent pump damage during dry operating conditions. This system features an auxiliary gland and oil reservoir that keeps seal faces lubricated during priming, re-priming, or standby operation. The gland is connected to a lubricant reservoir, allowing continuous circulation and cooling of the lubricant and seal faces. The Run-Dry system is ideal for applications where dry operation is possible.

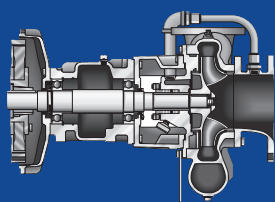


REDI-PRIME®

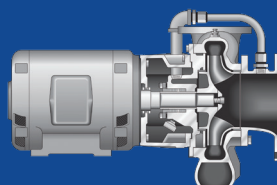
Cornell's Redi-Prime pumps have oversized suctions that increase flow, decrease friction losses, and enhance suction lift. The priming system is environmentally friendly, featuring a positive sealing float box and a diaphragm vacuum pump that prevents water carry-over and contamination. The Redi-Prime system can be easily installed on most Cornell pumps, providing suction lifts of up to 28 feet, heads up to 800 feet, and flow rates surpassing 20,000 GPM.



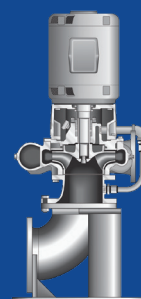
F
Frame Mount



EM
Engine Mount



CC
Close-Coupled



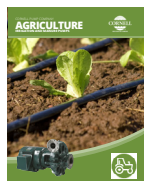
VM/VC/VF
Close Coupled
Coupled
Frame Mount

MOUNTING CONFIGURATIONS

Cornell offers a variety of mounting configurations for its irrigation pumps, catering to different needs. These include horizontal and vertical close-coupled pumps, vertical and horizontal frame-mounted pumps, and pumps that can be mounted directly to an engine using an SAE bell housing.

STRONGER PUMPS, BUILT FASTER, LESS EXPENSIVELY: THE CORNELL CD4MCu INITIATIVE

CORNELL PUMP COMPANY MARKET & PRODUCT LINE



AGRICULTURE



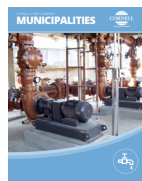
FOOD PROCESS



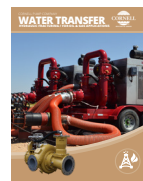
INDUSTRIAL



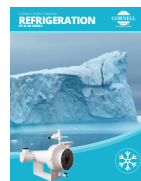
MINING



MUNICIPAL



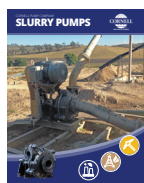
WATER
TRANSFER



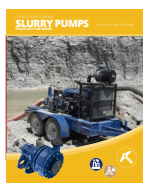
REFRIGERATION



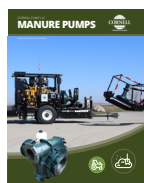
CONSTRUCTION



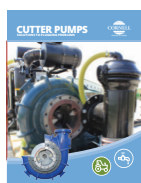
SLURRY



SLURRY SM



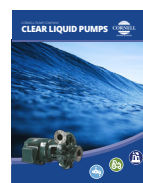
MANURE



CUTTERS



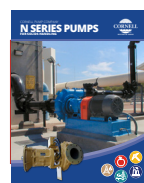
SELF PRIMING



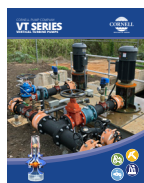
CLEAR LIQUIDS



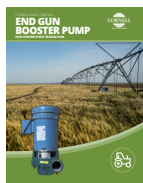
MX SERIES



N SERIES



CYCLONE™



EDGE™



HYDRAULIC
SUBS



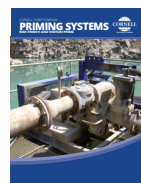
IMMERSIBLE



CD4MCU



RUN-DRY™



PRIMING
SYSTEMS



CYCLOSEAL®

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:

6,074,554; 6,036,434; 6,079,958; 6,309,169; 6,104,949.

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Cornell Pump Company
Clackamas, Oregon, USA
P: +1 (503) 653-0330
F: +1 (503) 653-0338