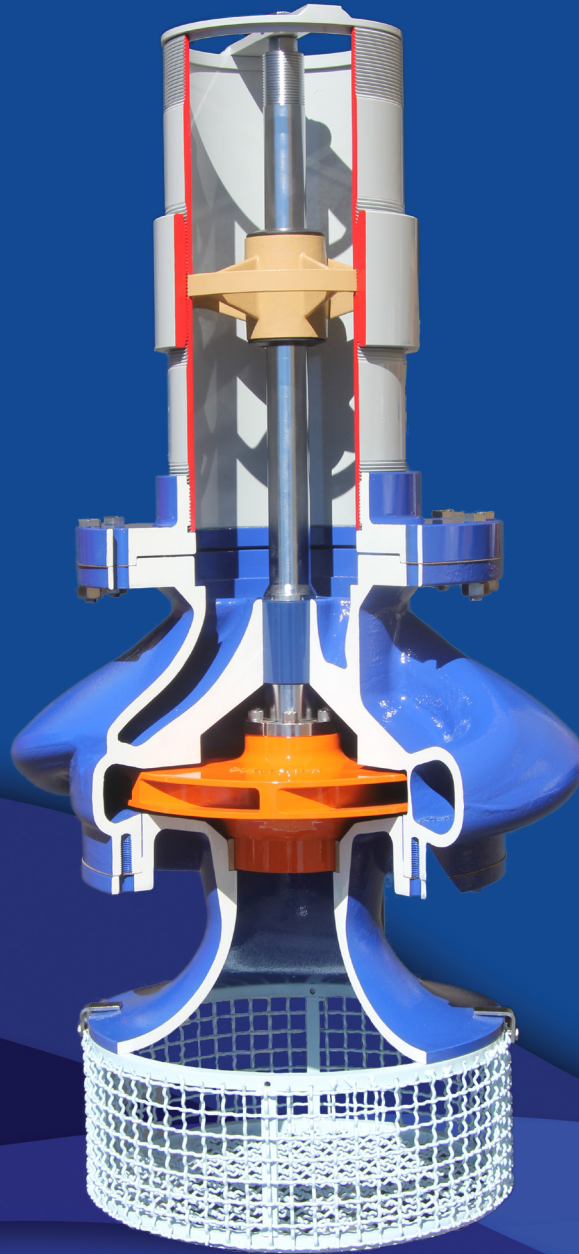




CORNELL PUMP COMPANY  
**VT SERIES**  
VERTICAL TURBINE PUMPS



**CYCLONE**

EFFICIENT BY DESIGN





# CYCLONE VERTICAL TURBINE PUMP

## A NEW TWIST ON A PROVEN DESIGN

Cornell Pump's VT pump series (Cyclone) relies on our demonstrated superior hydraulics, in a submerged design. The proven quality of Cornell RB series is recast into a short set vertical turbine pump. Boasting energy efficiencies up to 89%, with no priming required, the Cyclone is the vertical turbine you'd expect from the industry leader in centrifugal pumps. Designed for ponds, rivers, canals, sumps, and dewatering applications, the VT series fills a niche where end users need robust design, quality build, proven hydraulics, and Cornell's renowned two-year warranty for peace of mind.

Cyclones are mighty and memorable. That is why we named our new Vertical Turbine (VT) series after this force of nature, because it delivers such a powerful promise.



**NEW!**

**Discharge Head:** Robust cast iron construction endures long life. Industry standard configuration for VHS motors.

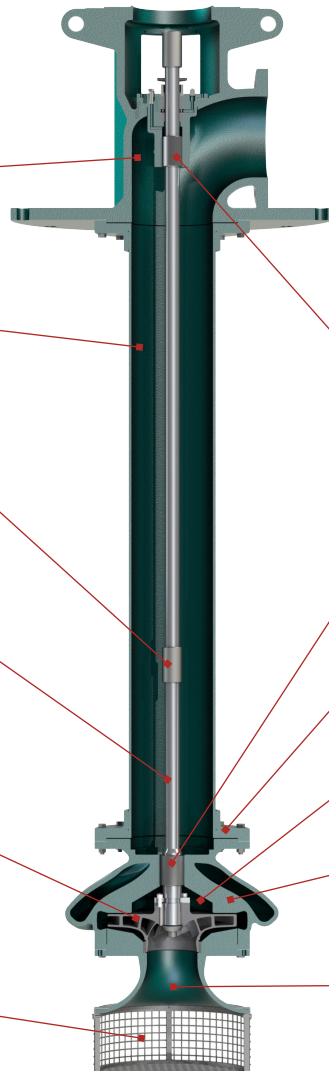
**Column:** Industry standard column allows use in various piping configurations.

**Lineshaft coupler:** industry standard "spider" to center the lineshaft bearings.

**Pump Shaft:** Carries the impeller hydraulic loads. Made from heavy duty 416SS, for added strength and corrosion resistance.

**Impeller:** Enclosed impeller improves efficiency while still passing up to a 1.31" solid. Standard with a key and lock screw for improved durability and strength.

**Stainless Steel Suction Strainer:** Keeps out solid materials from liquid source.



## CORNELL QUALITY BUILD

All Cornell pumps are designed to highest standards for efficiency and long life. The Cyclone continues that proud tradition with numerous features that enhance the durability, efficiency, usefulness, and longevity of the pump.

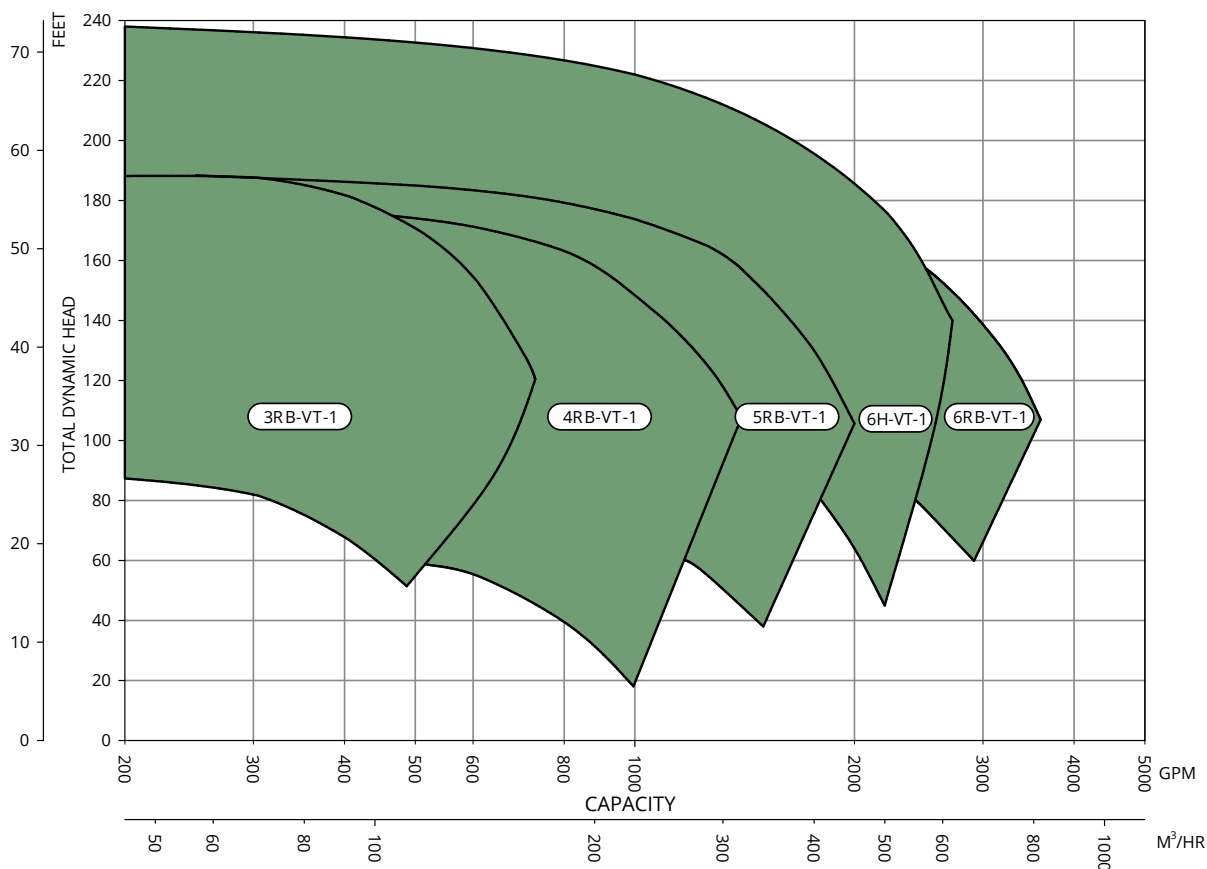
**Bearings:** Bowl, lineshaft and stuffing box bearings carry shaft loads

**Column Adapter:** Adapts pump discharge to multiple column sizes and configurations.

**Wear Rings:** Replaceable; maintains performance and pump life

**Spiral-Shaped Bowl:** Epoxy lined, improved Performance and efficiency.

**Suction Bell:** Improves inlet flow to the bowl - optimizes inlet velocity into the pump.



## FEATURES AND BENEFITS

**Spiral bowl construction:** Improves flow path and pump efficiency.

**Fewer stages to replace and maintain:** improved uptime and reduced costs.

**Two-year warranty:** industry-leading protection.

**VFD Operable:** useable at various speeds for maximum energy savings.

**Large bearings:** Product lubricated.

**Keyed and bolted impeller** for positive drive.

**Industry standard discharge head configuration** for VHS motors.

**Wide flow range** per model.

**Large diameter shafts** for minimal deflection, less wear.

**Industry-standard** column, shaft & lineshaft bearing construction.

## VT SERIES SPECIFICATIONS

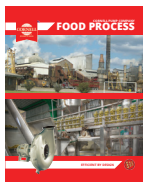
<b>MARKETS</b>	Ag, Industrial, Municipal, Mining
<b>SIZE RANGE</b>	6, 8, 10, & 12" discharge / 15, 20, 25, & 30 cm
<b>FLOWS</b>	Up to 3,600 GPM / 817 m³/h
<b>HEAD</b>	Up to 225' (69 m) – First Stage
<b>HP</b>	Up to 150 HP
<b>DRIVER</b>	Industry-standard vertical hollow shaft motors
<b>MAX. SOLID SIZE</b>	1.31" / 3.3cm (6RB)
<b>LIQUIDS</b>	Clear/grey liquids including water and waste water
<b>MATERIALS OF CONSTRUCTION</b>	
<b>BOWL</b>	Epoxy-lined cast iron
<b>IMPELLER</b>	316SS
<b>SHAFTS</b>	416SS
<b>DISCHARGE HEAD</b>	Cast Iron
<b>SUCTION STRAINER</b>	300 series SS



# MARKET AND PRODUCT LINE



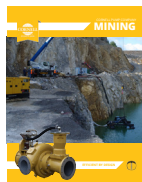
AGRICULTURE



FOOD PROCESS



INDUSTRIAL



MINING



MUNICIPAL



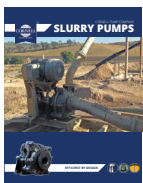
WATER TRANSFER



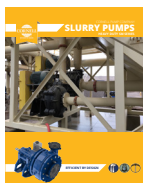
REFRIGERATION



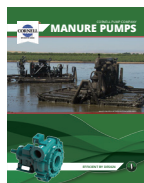
CONSTRUCTION



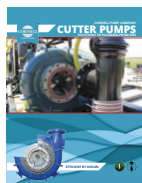
SLURRY



SLURRY SM



MANURE



CUTTERS



SELF PRIMING



V SERIES



MX SERIES



N SERIES



Q-MAX



EDGE™



HYDRAULIC SUBS



IMMERSIBLE



CD4MCU



RUN-DRY™



PRIMING SYSTEMS



CYCLOSEAL®

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

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