



CORNELL PUMP COMPANY

# SLURRY PUMPS

HEAVY DUTY SM SERIES



EFFICIENT BY DESIGN



# SM SERIES SLURRY PUMPS



## ROBUST SLURRY PUMPS FOR SERIES PUMPING WITH CYCLOGUARD™ AND CYCLOSEAL® INNOVATIONS

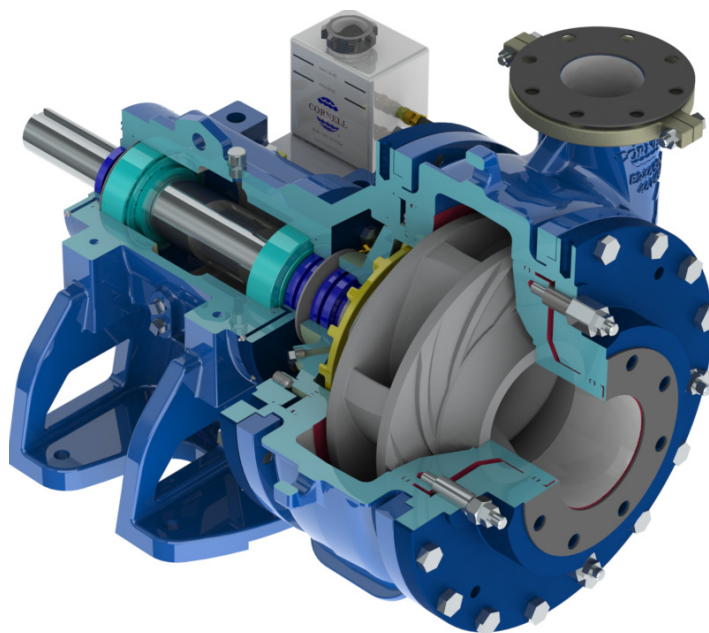


### UNLINED HARD METAL PUMP VERSATILE STRONG

The SM Series of pumps are unlined high chrome white iron wet ends for a wide range of slurry applications. All pumps are design to a maximum working pressure of 600 PSI and can be used for series pumping. The product line has many options to match a wide range of applications. A variety of gland seal arrangements provide the ultimate in flexibility for heavy-duty uses.

### FEATURES

- Back pullout design to simplify maintenance
- 600 PSI rated pressure
- CycloGuard™ to reduce inlet recirculation
- Infinitely variable volute and discharge position
- Axially adjustable suction wear plate = no frame adjustment needed or realignment of belts/piping
- Available in any pipe flange standard
- Standard CycloSeal® – no flush water required
- Other shaft seal arrangements available
- Grease or oil lubricated bearing frame
- High-capacity bearings available
- Ideal for series/multistage pumping applications
- Handles high solids concentrations



### SERIES SPECIFICATIONS

|                      |                 |
|----------------------|-----------------|
| DISCHARGE SIZE RANGE | 2" to 6"        |
| MAX SOLIDS HANDLING  | 2.5"            |
| FLOW RATES           | 125 to 5200 GPM |
| MAX HEAD             | 425'            |

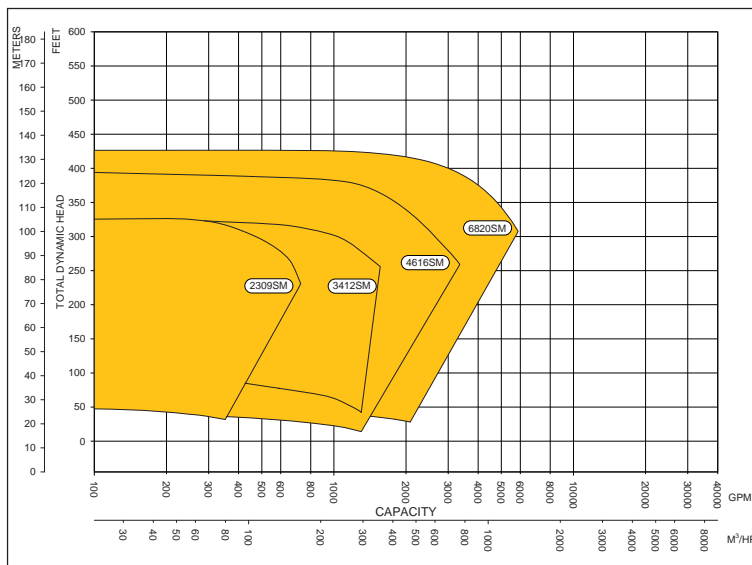
### MATERIALS OF CONSTRUCTION

- Chrome iron impeller, volute, wear plate, backplate and expeller
- Ductile iron suction cover, bracket and frame
- 4140 steel shaft
- 420 stainless steel shaft sleeve

### SM SERIES FAMILY

1. 2309SM
2. 3412SM
3. 4616SM
4. 6820SM

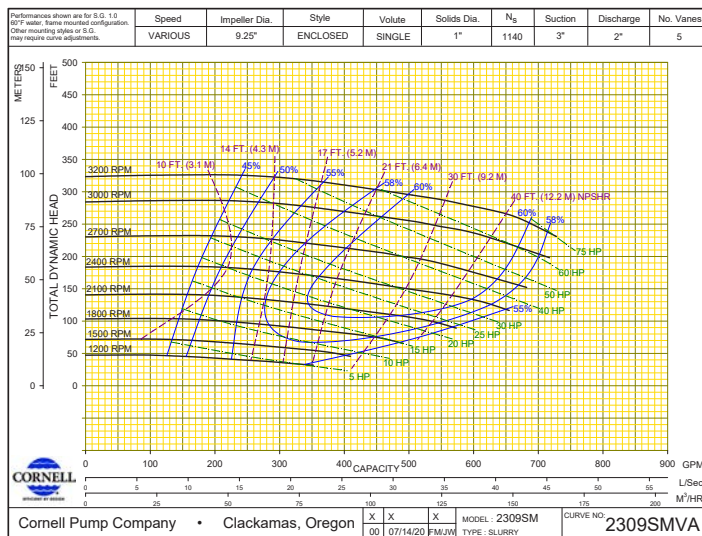
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CHECK OUT MORE  
PUMPS FOR THE  
MINING INDUSTRY  
FROM CORNELL PUMP  
COMPANY.





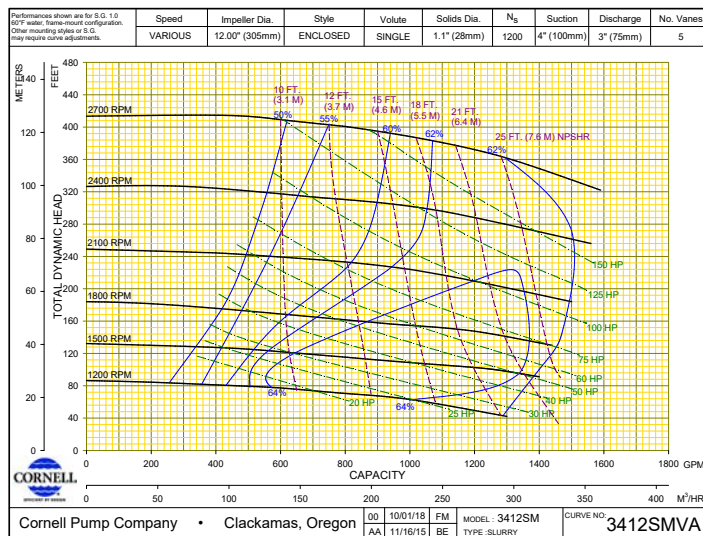
# SM SERIES SLURRY PUMPS

## NO FLUSH WATER REQUIRED—MONEY SAVING DESIGN



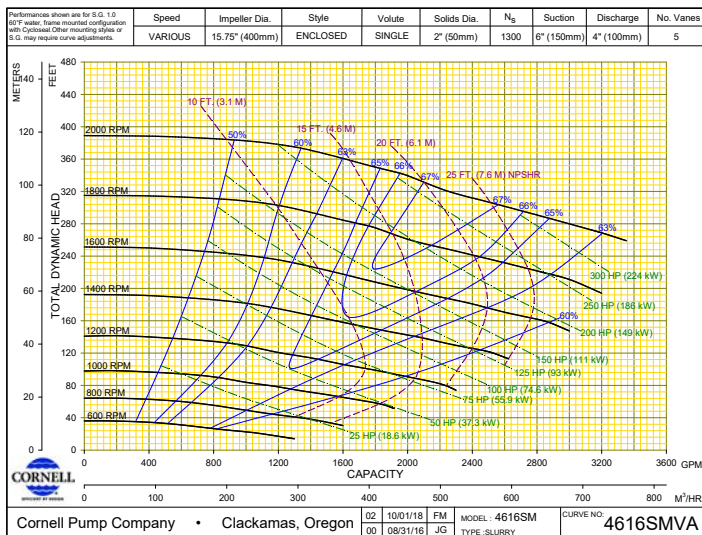
### 2309SM

- Flow rates from 125 to 730 GPM (28 to 166 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 60% efficient at Best Efficiency Point



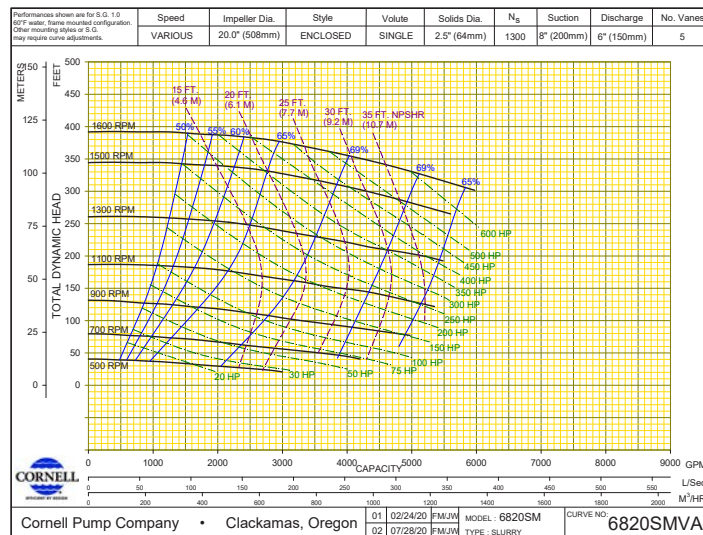
### 3412SM

- Flow rates from 300 to 1500 GPM (68.1 to 340.7 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 64% efficient at Best Efficiency Point



### 4616SM

- Flow rates from 400 to 3200 GPM (90.9 to 727 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 67% efficient at Best Efficiency Point



### 6820SM

- Flow rates from 600 to 5200 GPM (136.3 to 1,181 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 69% efficient at Best Efficiency Point



## MARKET AND PRODUCT LINE



AGRICULTURE



FOOD PROCESS



INDUSTRIAL



MINING



MUNICIPAL



WATER  
TRANSFER



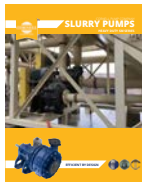
REFRIGERATION



CONSTRUCTION



SLURRY



SLURRY SM



MANURE



CUTTERS



SELF PRIMING



HIGH FLOW



MX SERIES



N SERIES



CYCLONE™



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

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

AUTHORIZED CORNELL PUMP DISTRIBUTOR



+1 360 . 314 . 2692  
+1 360 . 521 . 7524



jlewis@centexfp.com  
www.centexfp.com



7600 NE 47th Avenue  
Vancouver, WA 98661 - USA

