



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

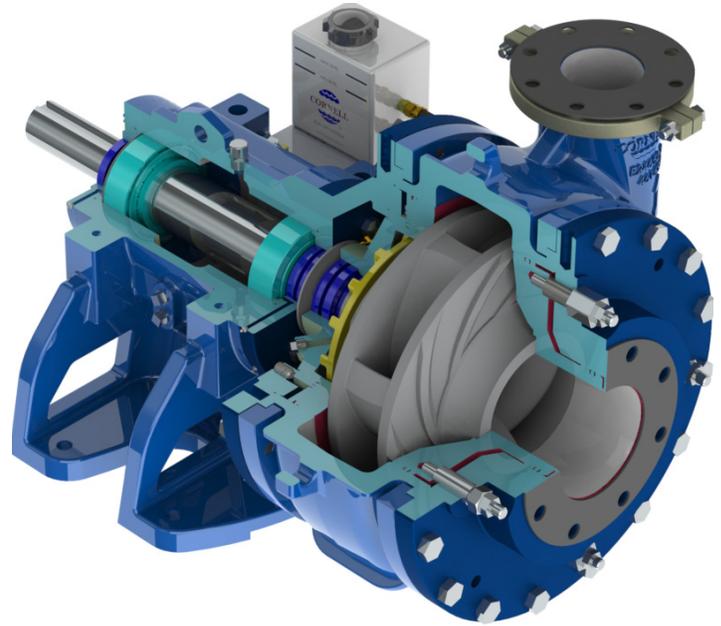


### NEW! UNLINED HARD METAL PUMP

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 applications.

### FEATURES

- Back pullout design to simplify maintenance
- 600 PSI rated pressure
- CycloGuard® to reduce inlet recirculation
- Six vane impeller for high efficiency
- 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

<b>DISCHARGE SIZE RANGE</b>	1½" to 14"
<b>MAX SOLIDS HANDLING</b>	4.5"
<b>FLOW RATES</b>	100 to 14,000 GPM
<b>MAX HEAD</b>	425'

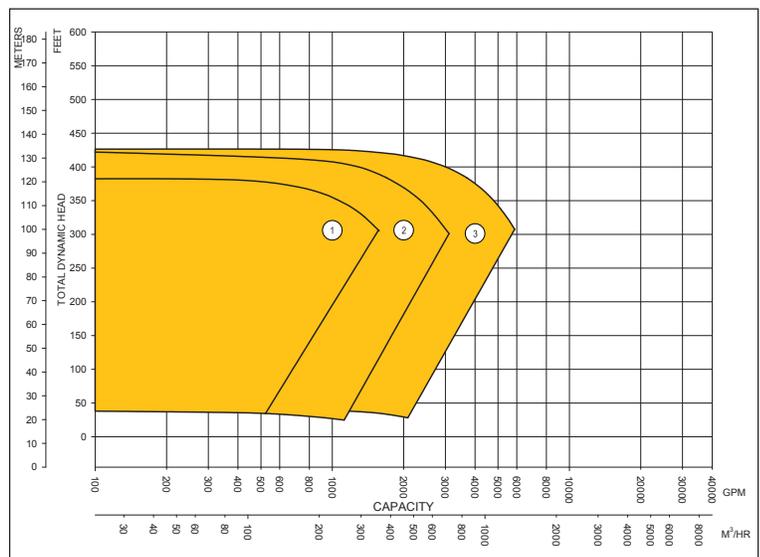
### MATERIALS OF CONSTRUCTION

- 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. 3412SM
2. 4616SM
3. 6820SM

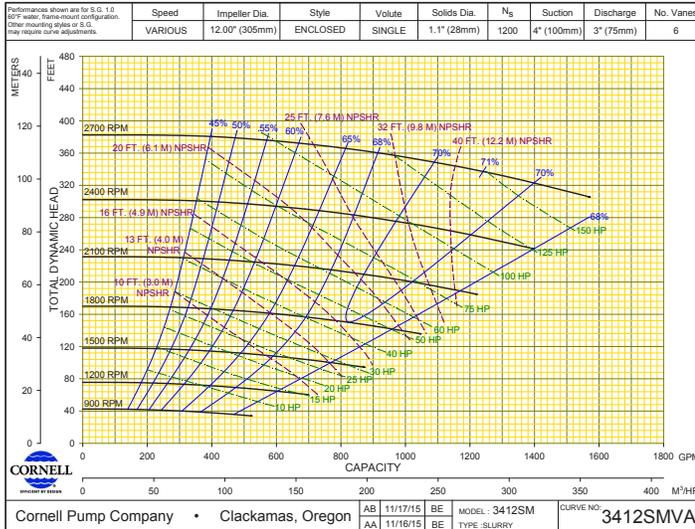
SCAN THE CODE TO CHECK OUT MORE PUMPS FOR THE MINING INDUSTRY FROM CORNELL PUMP COMPANY.





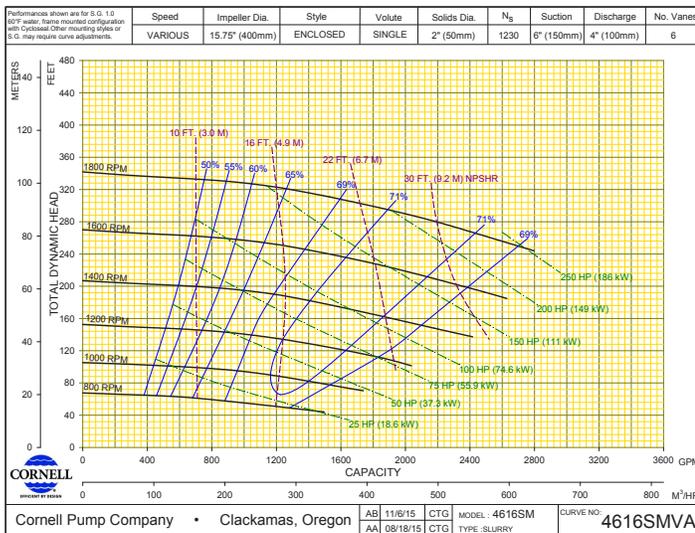
# SM SERIES SLURRY PUMPS

## NO FLUSH WATER REQUIRED—MONEY SAVING DESIGN DEBUTING 3 MODELS AT MINEXPO SEPTEMBER 2016



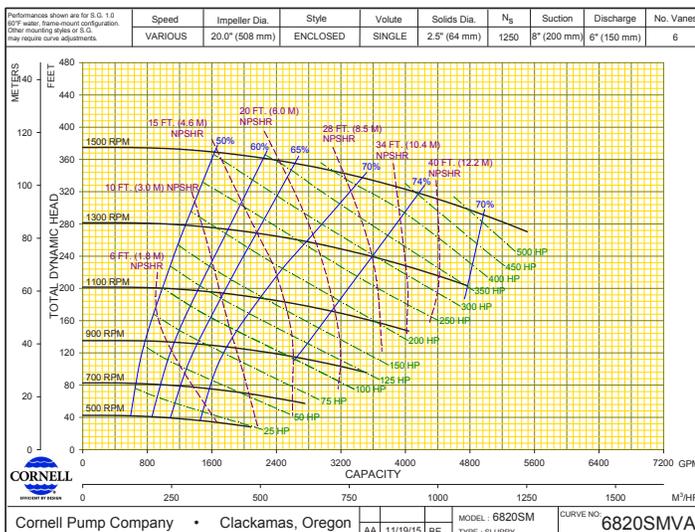
### 3412SM

- Flow rates from 140 to 1575 GPM (31.8 to 357.7 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 71% efficient at Best Efficiency Point



### 4616SM

- Flow rates from 400 to 2800 GPM (90.9 to 636 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 71% efficient at Best Efficiency Point

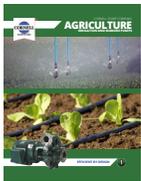


### 6820SM

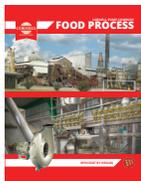
- Flow rates from 600 to 5200 GPM (136.3 to 1,181 m<sup>3</sup>/h)
- Pressure to 600 PSI (4,137 kPa)
- 74% efficient at Best Efficiency Point



# MARKET AND PRODUCT LINE



AGRICULTURAL



FOOD PROCESS



INDUSTRIAL



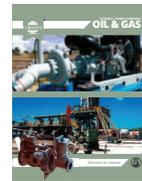
MINE DEWATERING



MUNICIPAL



REFRIGERATION



OIL & GAS



CYCLOSEAL®



CHOPPER



CUTTER



EDGE™



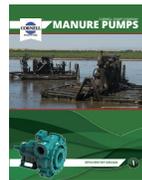
HYDRAULIC SUBS



HYDRO TURBINE



IMMERSIBLE



MANURE



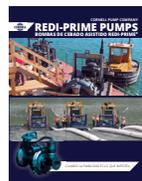
MP SERIES



MX SERIES



MX MINING



REDI-PRIME®



SELF PRIMING



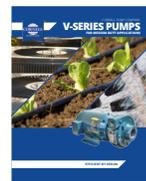
SLURRY



SUBMERSIBLE



WATER TRANSFER



V SERIES

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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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