

CORNELL PUMP COMPANY

RENTAL CUTTER

PUMP SOLUTIONS TO PLUGGING PROBLEMS



RENTAL CUTTER PUMPS

RENTAL APPLICATIONS FOR CORNELL CUTTER AND CHOPPER PUMPS



SEWER BYPASS.

This system is advantageous in situations where there is a need for a pump that can handle ragging and plugging due to reconstruction, emergency, or growth.

REDUNDANCY.

Having a cutter onboard serves as a backup package in case the primary pump fails, enabling it to handle more challenging operations.

CONSTRUCTION.

Capable of handling unexpected materials and upset conditions in construction waste streams.

PLANT CLOSURES.

Including a cutter provides added assurance in case of unscheduled potential plugging during scheduled downtime.

CATASTROPHIC EVENTS.

The cutter option provides greater certainty in dealing with debris in emergencies such as flooding.

RENTAL CUTTER PUMPS

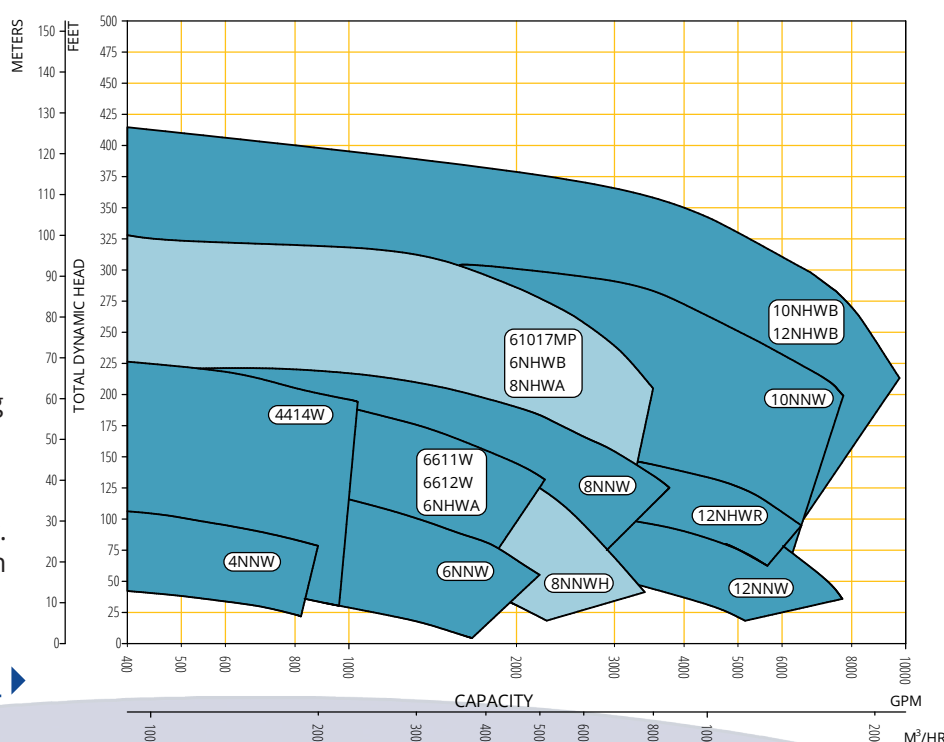
CORNELL SOLUTIONS

Cornell provides two cutter options, Waste Warrior and Chopper, to tackle the problem of cutting materials in the waste stream and prevent wastewater ragging and fouling.

CUTTER OPTIONS

Efficiency was a top priority in developing Cornell's cutter options for wastewater ragging and fouling. Cornell offers a variety of Waste Warrior and Chopper pumps, allowing users to select the best choice for their needs. These pumps are renowned for reliability and quality. The benefits and features of this cutting option include:

WASTE WARRIOR CUTTER PUMP CURVES



WHAT SETS RENTAL CUTTER AND CHOPPER PUMPS APART?



INNOVATION

Cornell has been consistently innovative in our designs since 1946. While other manufacturers may develop a limited number of models or make minor adjustments to their product line each year, Cornell continues to create numerous new designs.



RELIABILITY

We produce high-quality models that are built to precise tolerances and perform reliably in the field.



EASE OF MAINTENANCE

In the rental market, time is money. The longer it takes to service a pump, the less time it can be out in the field, earning revenue. We design our pumps to be easy to work on, with minimal tolerances and no special equipment needed to diagnose, clean, repair, or service them.



SIZE

Cornell's cutter offerings come in various popular sizes, from 4 to 16 inches, and series fit within standard enclosures.



DURABILITY

Cornell pumps are robust with oversize shafts and bearings, thick casings, and specially designed impellers. Available in different materials, they ensure long-term durability and reliability.



EFFICIENCY

Cornell's cutters are highly efficient, with rates reaching up to 80 percent, offering customers lower energy costs and environmental benefits. This outperforms many other options that only reach the 40s. Moreover, our pumps eliminate the need for flush water, saving customers thousands of dollars on operating costs and making our rental options more competitive.



POWER

The cutters can tackle many instances of ragging and plugging, making them ideal for various installations and situations.

RENTAL CUTTER PUMPS

WASTE WARRIOR AUGER CUTTER

An aggressive solution, featuring scythe-like edges from the impeller eye, sweeps the entire area where the suction pipe meets the volute.

- Handles most aggressive and troublesome clogs and ragging
- Limited energy consumption (~ 8%) for solution
- Hardened cutter material
- Insignificant flow restrictions
- Does not change external pump dimensions
- Retrofittable
- Sizes from 4" to 16"
- Flows from 700 to 10,00 GPM
- Heads up 350'
- **Minimal increase to cost of operations**
- **Labor savings by reducing clean out events**
- **Two-year warranty**
- **Improve efficiency by reducing down-time and periods of low flow**



THE CORNELL CHOPPER PUMP

Cornell's Chopper pump is designed specifically for chopping solids, with a ductile iron casing (ASTM A536 grade 65-45-12), a replaceable cutter bar made from T1 tool steel with a minimum hardness of 600 Brinell, and a heat-treated cast steel impeller. It also features angular contact ball thrust bearings and single-ball radial bearings for smooth operation, and a John Crane type 2 tungsten carbide single mechanical seal. This heavy-duty pump is built to perform.

CHOPPER FEATURES

- Heavy-duty construction
- A variety of Mounting Configurations
- Frame mounted or close coupled configurations
- Vertical and horizontal configurations
- Cornell Cycloseal® with long-life mechanical seal

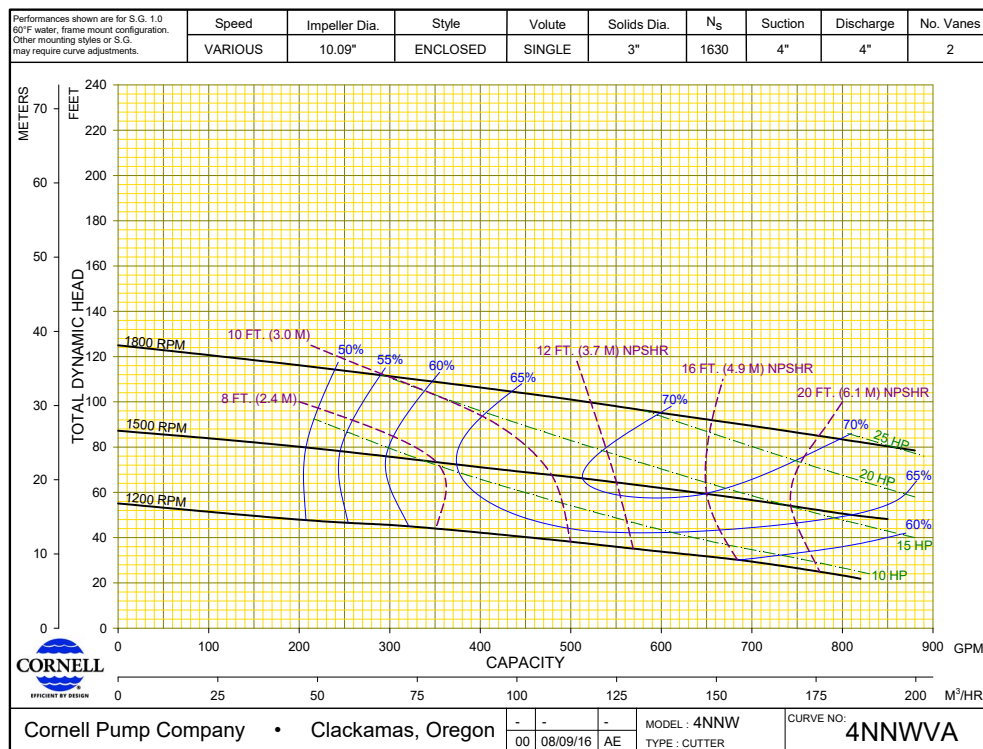
CHOPPER BENEFITS

- Eliminates the vast majority of clogging problems
- Chops solids up to 2"
- No seal flush system necessary
- Efficiency to 65%
- TDH up to 250'
- Operating speeds to 2200 RPM



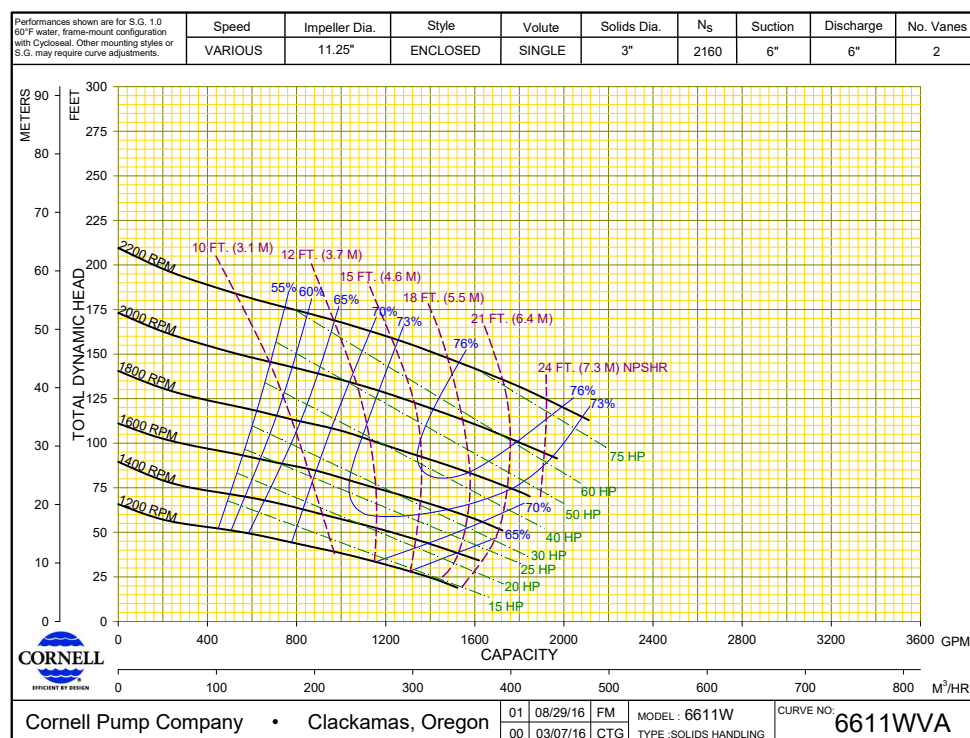
RENTAL CUTTER PUMPS

WASTE WARRIOR AUGER CUTTERS MOST USED FOR RENTAL APPLICATIONS



4NNW

BEP: 70%
Head: 125'
Flow: up tp 850 GPM



6611W

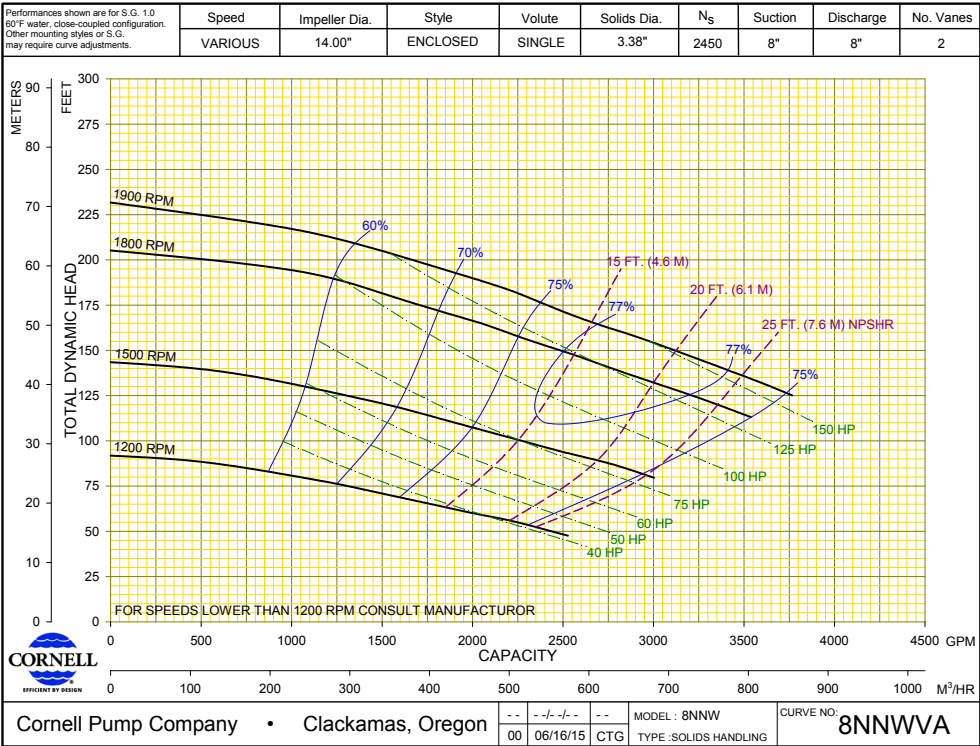
BEP: 76%
Head: up to 210'
Flow: up tp 2,050 GPM

RENTAL CUTTER PUMPS

WASTE WARRIOR AUGER CUTTERS MOST USED FOR RENTAL APPLICATIONS

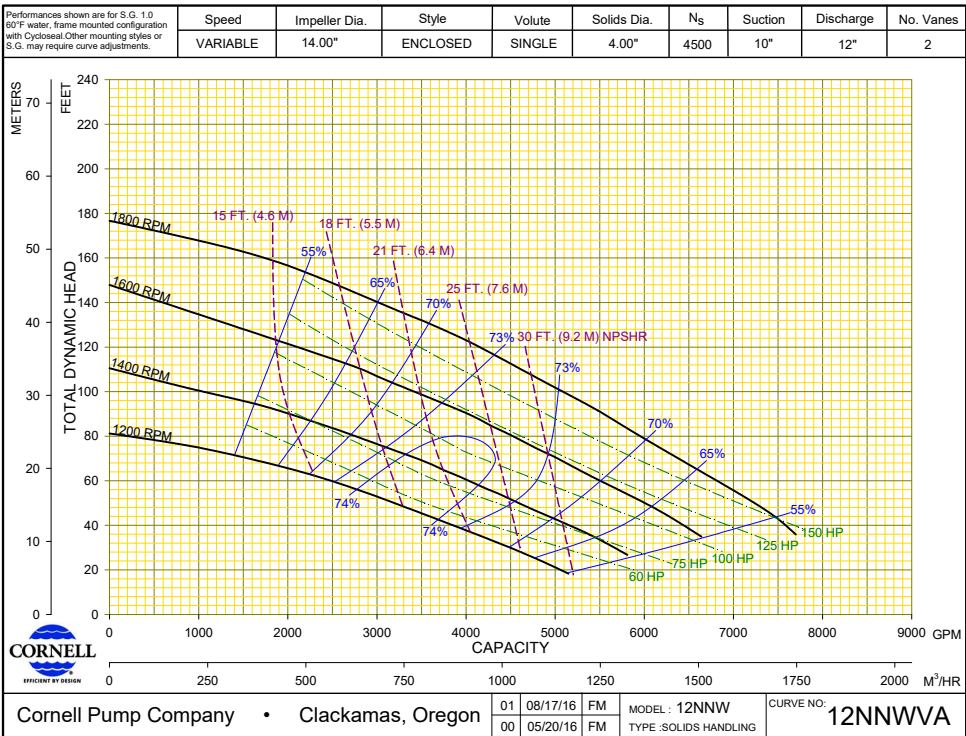
8NNW

BEP: 77%
Head: 230'
Flow: up tp 3,750 GPM



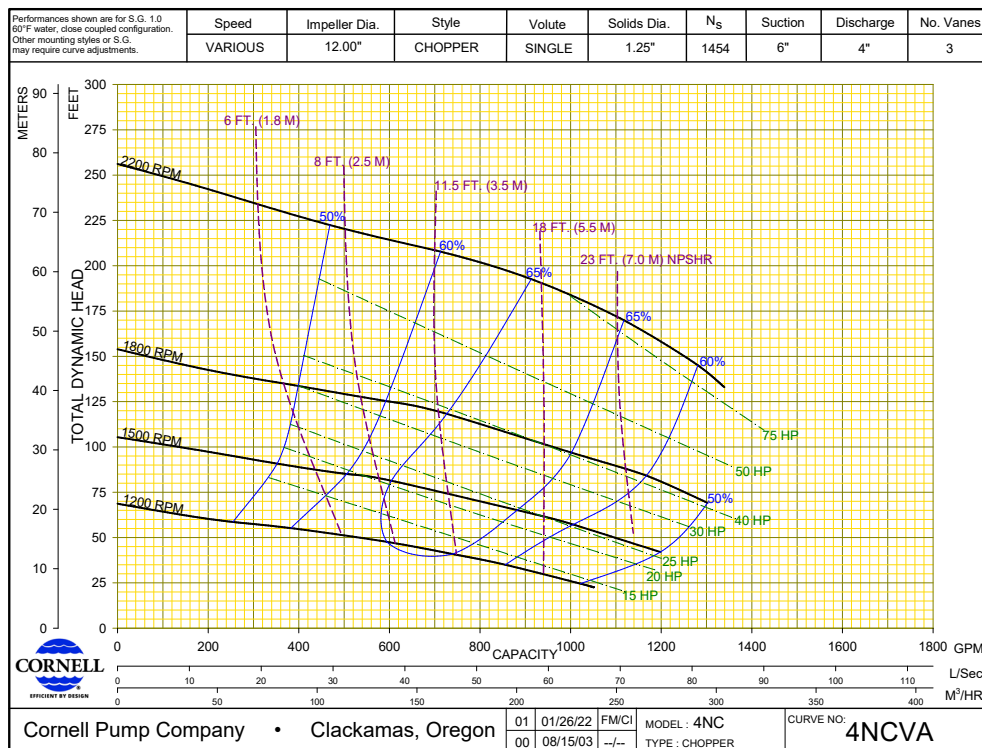
12NNW

BEP: 74%
Head: up to 176'
Flow: up tp 7,500 GPM



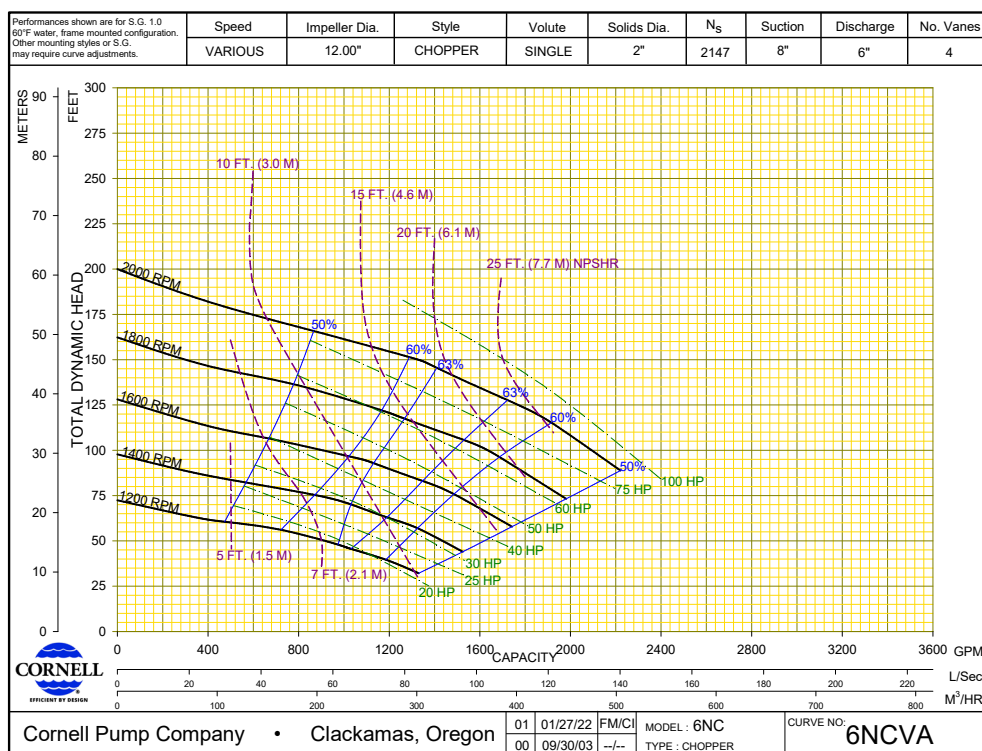
RENTAL CUTTER PUMPS

THE CORNELL CHOPPER PUMPS DESIGNED FOR TROUBLESOME SOLIDS



4NC

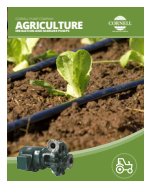
BEP: 65%
Head: 250'
Flow: up tp 1,300 GPM



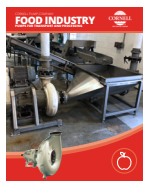
6NC

BEP: 63%
Head: up to 250'
Flow: up tp 2,200 GPM

CORNELL PUMP COMPANY MARKET & PRODUCT LINE



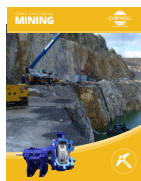
AGRICULTURE



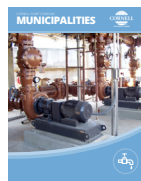
FOOD PROCESS



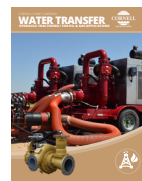
INDUSTRIAL



MINING



MUNICIPAL



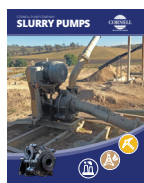
WATER
TRANSFER



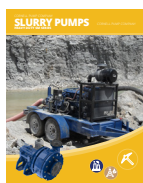
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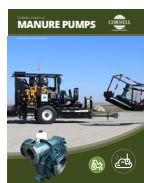
CONSTRUCTION



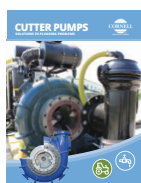
SLURRY



SLURRY SM



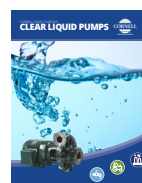
MANURE



CUTTERS



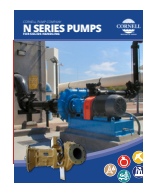
SELF PRIMING



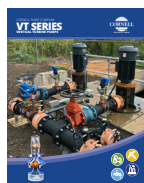
CLEAR LIQUIDS



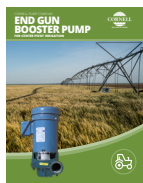
MX SERIES



N SERIES



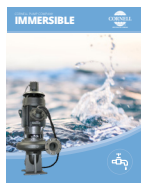
CYCLONE™



EDGE™



HYDRAULIC
SUBS



IMMERSIBLE



CD4MCU



RUN-DRY™



PRIMING
SYSTEMS



CYCLOSEAL®

Cyclo Seal® 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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