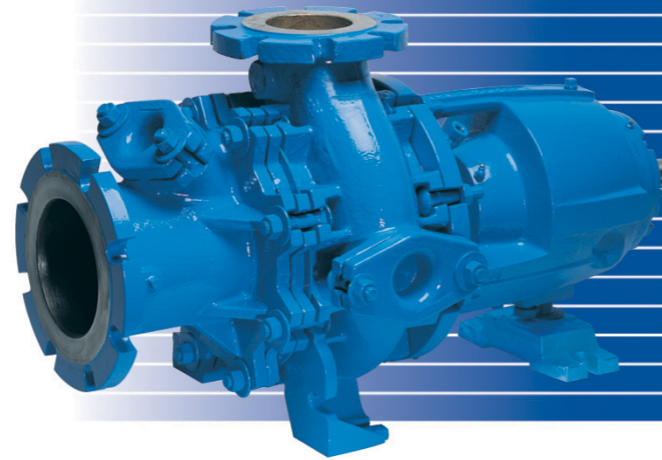


# OUR WORK

## HAYWARD GORDON



### CHOPX SERIES CHOPPER PUMPS

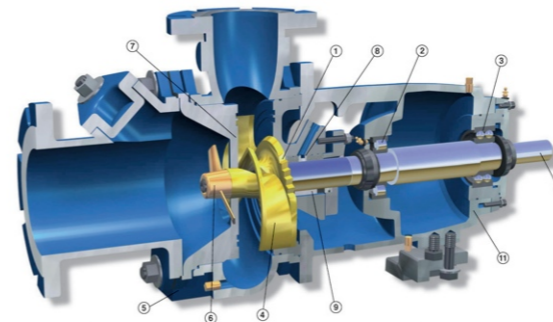


PUMPS

For solids handling  
requiring combined chopping  
and pumping.

#### HORIZONTAL CONFIGURATION - FEATURES

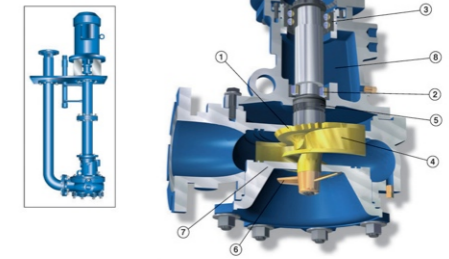
Hayward Gordon horizontal chopper pumps are built with all the heavy duty features common to our full line of solids handling pumps. Powerframes are back-pullout for convenient servicing, and wet-ends are clamped to facilitate construction in ultra-hard metals. All shafts and bearings are sized to provide 100,000 hour  $B_{10}$  life in either direct drive or v-belt configuration.



1. Sharpened and serrated rear cutter on impeller shroud (**patent pending**) sweeps over spiral grooves in the casing backplate to cut and then spiral stray material from behind the impeller.
2. Cylindrical roller bearings to provide reliable operation under heavy radial loads.
3. Double row thrust bearings mounted in a separate housing for easy installation and external adjustment of impeller clearance.
4. Highly engineered blade profiles (**patent pending**) provide cutting action at the leading edge while ensuring a smooth flow path for the fluid along the rest of the vane. The unique vane design reduces power consumption and improves NPSH.
5. Back-pullout design with integrally cast casing head, allows servicing of powerframe without disturbing suction or discharge piping.
6. Optional disintegrator tool breaks up large solids prior to entry into the pump.
7. Powerful cutting action achieved by hardened intake plate with profiled cutter bars acting against sharpened, rotating impeller blades.
8. Packed stuffing box option includes a split bronze gland for easy access and a hardened shaft sleeve for minimum maintenance.
9. Mechanical seal options specifically designed for handling tough solids.
10. Heavy duty shaft designed to withstand large radial loads at both ends - from the impeller and from v-belt drives.
11. Modular powerframe, 100% interchangeable with the XCS Series Screw Centrifugal Solids Handling Pumps, reduces spare parts inventories.

#### VERTICAL CONFIGURATION - FEATURES

Hayward Gordon vertical sump chopper pumps are designed for reliable operation in heavy duty sump applications. To withstand the rigors of demanding chopping services, the shaft is supported along its entire length by anti-friction bearings lubricated in an oil bath formed by the pump column (a pump protection system shuts the pump down if the oil bath drops below required levels). The lower shaft section is supported by its own, independent powerframe to limit shaft deflection at the seal regardless of pump length.



1. Sharpened and serrated rear cutter on impeller shroud (**patent pending**) sweeps over spiral grooves in the casing backplate to cut and then spiral stray material from behind the impeller.
2. Cylindrical roller bearings to provide reliable operation under heavy radial loads.
3. Double row thrust bearings mounted in a separate housing for easy installation and adjustment of impeller clearance.
4. Highly engineered blade profiles (**patent pending**) provide cutting action at the leading edge while ensuring a smooth flow path for the fluid along the rest of the vane. The unique vane design reduces power consumption and improves NPSH.
5. Hard faced mechanical seal specifically designed for handling tough solids. Seal is set screw driven, has no exposed springs to jam up, and features self-aligning force.
6. Optional disintegrator tool breaks up large solids prior to entry into the pump.
7. Powerful cutting action achieved by hardened intake plate with profiled cutter bars acting against sharpened, rotating impeller blades.
8. Oil bath lubrication of bearings and mechanical seal.

Collateral - Trade Brochure