

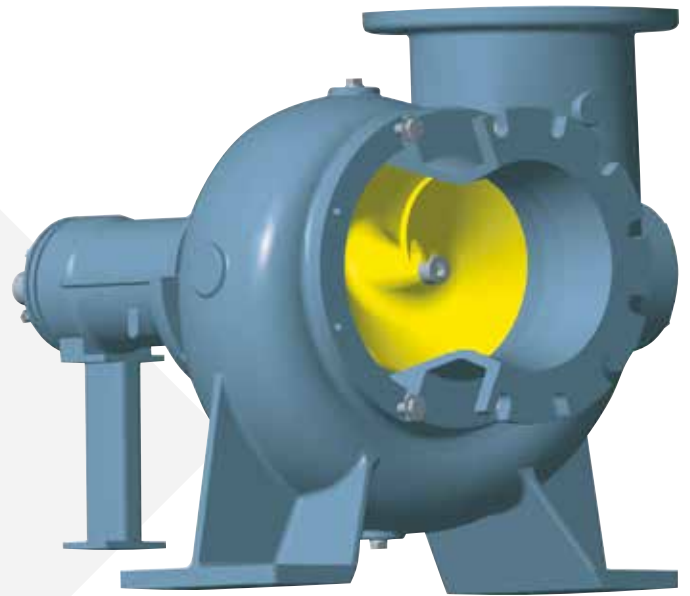
**FAIRBANKS NIJHUIS™ 5600 SERIES**  
**HYDRO SCREW™**  
**SOLIDS HANDLING PUMPS**



## FAIRBANKS NIJHUIS™

### Development

The Fairbanks Nijhuis 5600 Series Hydro Screw™ (HS Series) pump line complements the extensive family of Fairbanks Nijhuis centrifugal solids handling pump products. Fairbanks Nijhuis engineers have combined the efficiencies and solids handling characteristics of the single screw impeller with the existing volute and bearing frame of the 5400/5700/2400 pump designs. This common sense approach also permits many existing Fairbanks Nijhuis two- and three-vane pumps to be field-retrofitted without piping or baseplate modification. The 5600 Series is available in horizontal and vertical configurations.

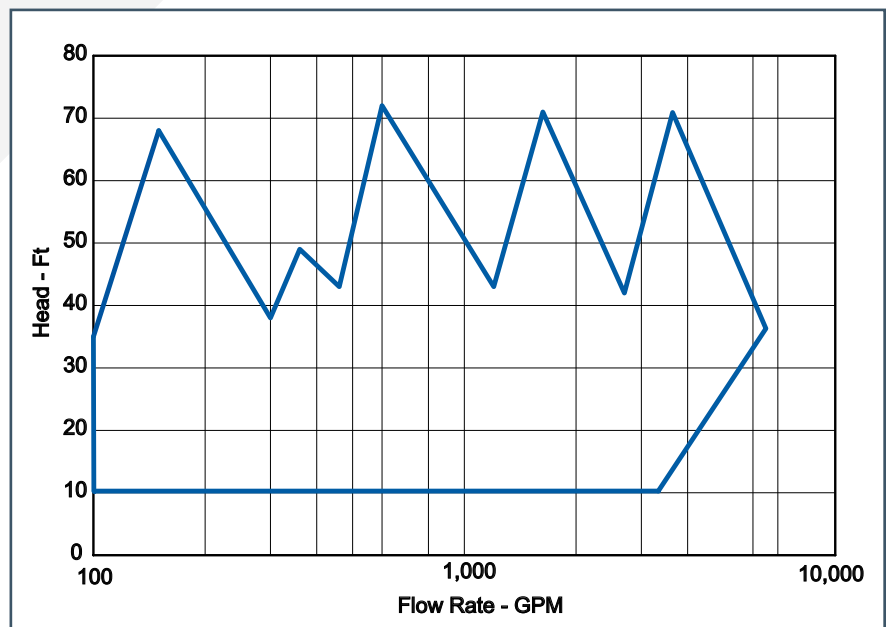


### Advantages

- Excellent Efficiency
- Superior Solids Handling Capability
- Low NPSHR Characteristics
- Gentle Pumping Action
- Outstanding Abrasion Resistance
- Steep Head-Capacity Curve
- Moves Heavy Sludges
- Interchangeable with existing Fairbanks Nijhuis parts

### Applications

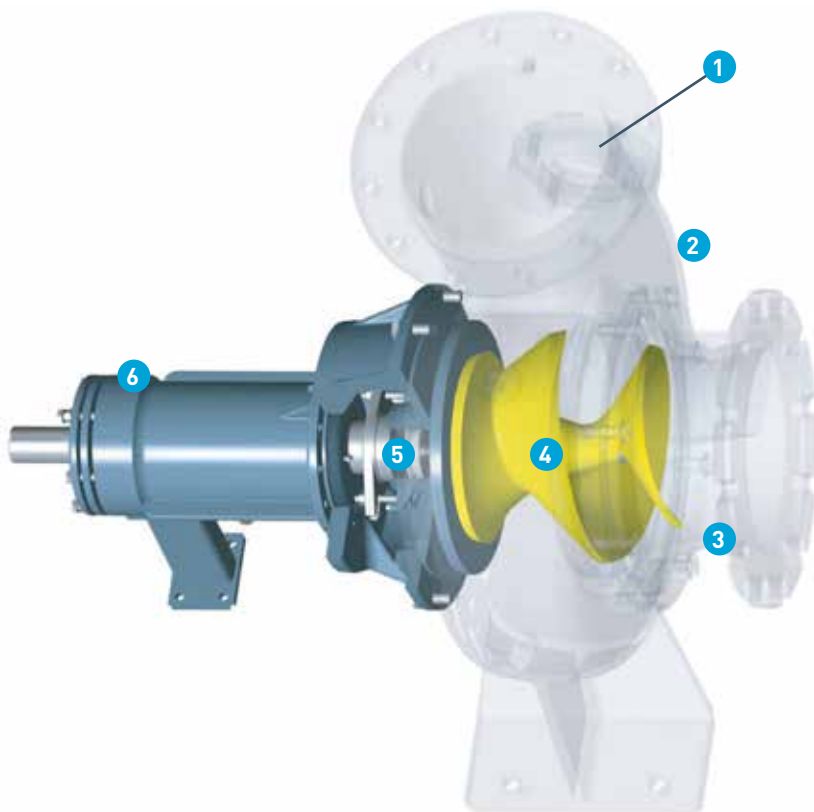
- Raw Sewage
- Return Activated Sludge
- Waste Activated Sludge
- Mixed Liquids
- Digester Recirculation
- Primary Sludge



# Pump Features

## Features

The Fairbanks Nijhuis™ 5600 HS Series pump consists of a ductile iron (optional A-532 III high chrome cast iron 450 Brinell) screw impeller, running in an all cast iron (optional chrome cast iron 450 Brinell) cone. Operating clearance between the cone and the impeller is easily maintained by the use of external jacking bolts or shims on the thrust bearing housing. Pump-out vanes on the back side of the impeller provide the necessary action to preclude build-up of solids or trash behind the impeller. Bearing frame is cast iron and equipped with heavy duty bearings to accommodate both radial and thrust loads imposed by the screw impeller. Standard bearing lubrication is grease with option for oil. Shafts are made of alloy steel and sized for minimum deflection at the stuffing box, where packing is standard with optional mechanical seal configurations.



- 1. Handhole Access**  
to volute and impeller
- 2. Robust,  
Heavy Wall Casing**
- 3. Conical Fronthead**
- 4. High Efficiency Single  
Screw, Solids Handling**
- 5. Large Sutffing Box**  
Provides room for packing  
or mechanical seal
- 6. Bearing Frame**  
Permits field adjustment for  
screw impeller running clearance

In addition to our Hydro Screw™ HS Series solids handling pumps, Fairbanks Nijhuis™ manufactures a broad range of pumps for public works and industrial installations, including dry pit and submersible solids handling, horizontal and vertical splitcase, vertical turbine and propeller pumps, the VTSH (vertical turbine solids handling) pumps, vortex and chopper pumps, and a complete line of FM-Approved and UL Listed fire pumps (both electric motor and diesel engine driven), and domestic jet and submersible well pumps.

Our 400,000 square foot manufacturing facility, located in the heart of the United States, provides advanced engineering and technology, a major testing facility for product performance evaluation, and computerized machining centers for high-quality manufacturing techniques. Fairbanks Nijhuis sales and service facilities are located across the United States and throughout the world.

At Fairbanks Nijhuis our longevity, engineered products, R&D programs, market leadership and customer service are the direct result of the quality and dedication of our personnel.

Our skilled personnel average over 23 years of experience. Working as a team, our people are continuously exploring new and better ways to serve our customers. Product quality, dependability and innovation are all part of the Fairbanks Nijhuis commitment to excellence.



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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.  
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