Roto-Jet® 2300

OVERVIEW

TRILLIUM FLOW TECHNOLOGIES™

Key Markets Served

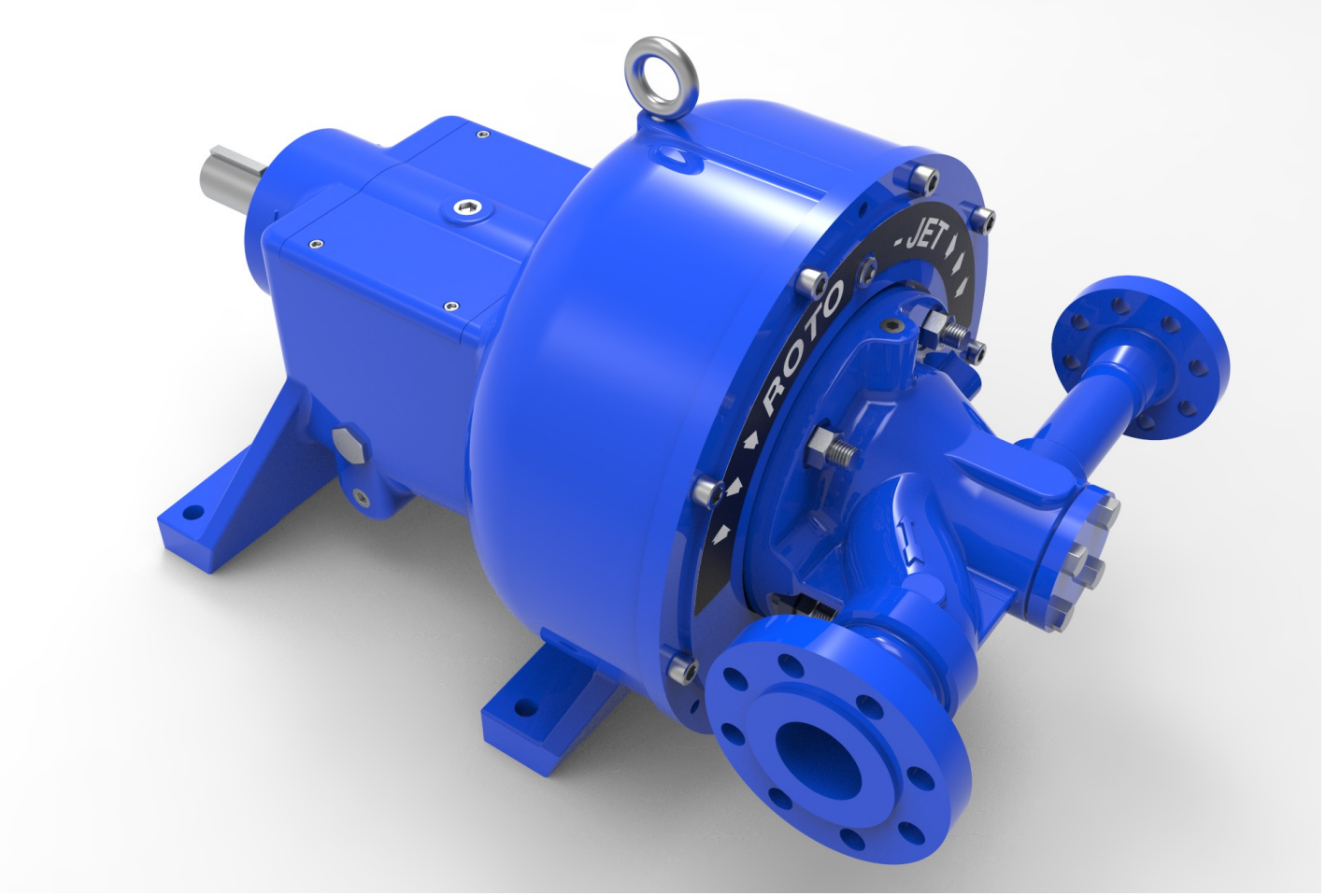
ROTO-JET® 2300

Overview

ROTO-JET® 2300

Roto-Jet High Pressure Pump

- High head
- Low flow
- Single stage
- Centrifugal pump



Overview

ROTO-JET® 2300

Features

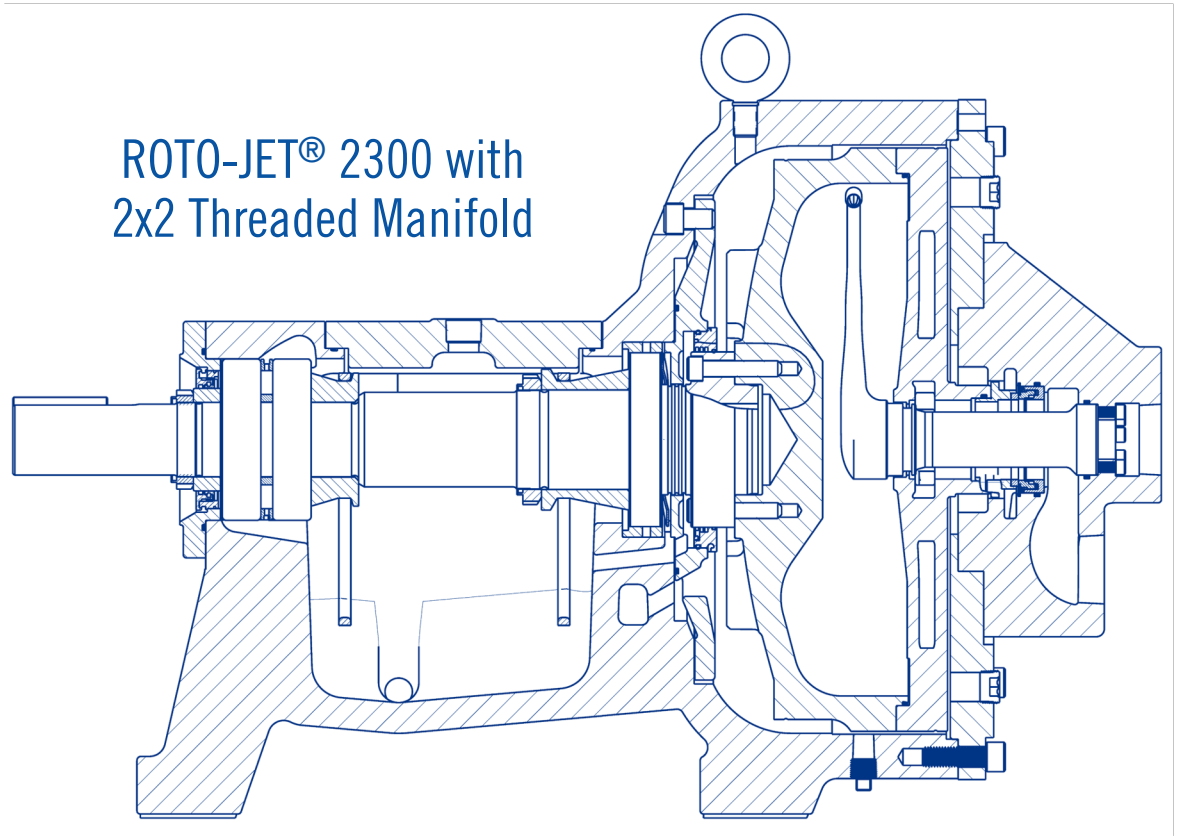
- Improved Up Time Performance
- Reliability Across All Flow Rates
- Built on Proven Technology
  Thousands of Roto-Jet Pumps Installed Globally
- Maximum Flexibility for High Pressure Applications
- Built to Perform in Multi-Pump Systems including Parallel Operations

Overview

ROTO-JET® 2300

The Roto-Jet® 2300 is Interchangeable with the Roto-Jet® 2200 Pump:

- Same Footprint, Drop-in Replacement
- Designed to Operate in Parallel with Additional Roto-Jet® 2300 Pumps
- Utilizes the Same:
  - Anchor Bolts and Footings
  - Shaft Height
  - Flange Location
  - Pump Center Line



Overview

ROTO-JET® 2300

A high-pressure cleaning system provides the best of both worlds.

- Utilizing a high-pressure cleaning system will allow you to maximize effective Impact while minimizing water and energy consumption.
- Under designed operating conditions, high pressure systems are a preferred alternative to low-pressure systems and safely provide savings and increase efficiency.

Changing from a 250 psi low pressure cleaning system to 1,000 psi system can reduce water use by over 50%, saving millions of gallons of water per year.*

*Water savings estimates may vary based on current system pressure and fan spray nozzle angle.
SOURCE: MEAT PROCESSING JULY 1998.

Overview

ROTO-JET® 2300

- **Reduce Energy and Water Usage by Increasing Cleaning Effectiveness** (applies to any Roto-Jet ® pump)
- Using an appropriate high-pressure water nozzle allows you to capitalize on the increased system efficiency.
- It is a misconception that high-pressure systems can damage equipment.

Changing from a 250 psi low pressure cleaning system to 1,000 psi system can reduce water use by nearly 50%, saving millions of gallons of water per year.*

*Water savings estimates may vary based on current system pressure and fan spray nozzle angle.
SOURCE: MEAT PROCESSING JULY 1998.

Principles of Operation

ROTO-JET® 2300

Features

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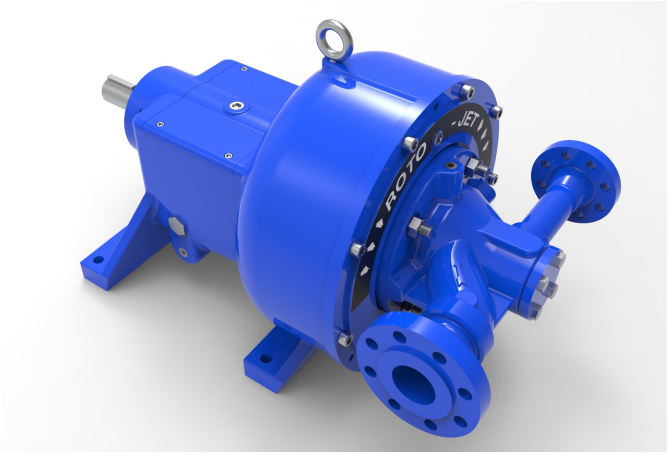
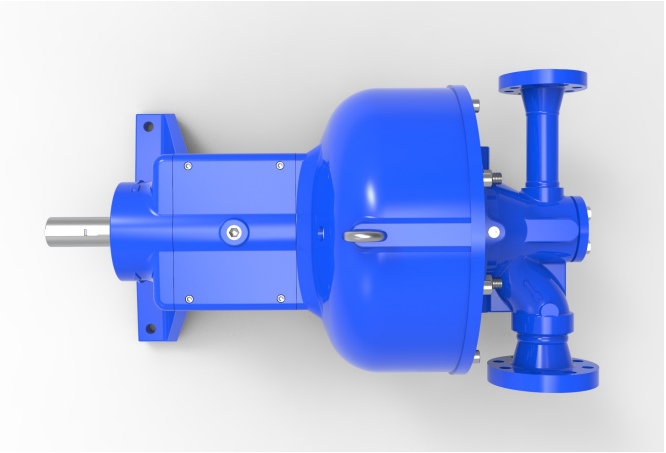
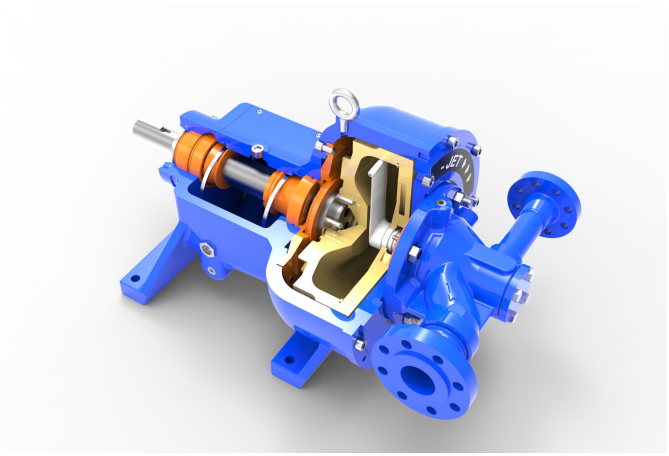
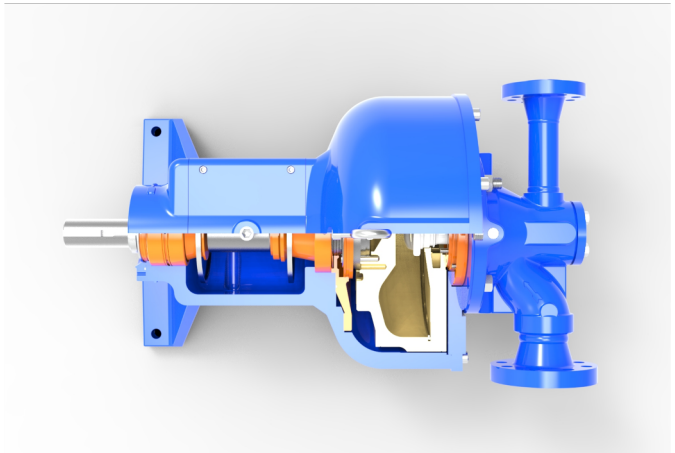




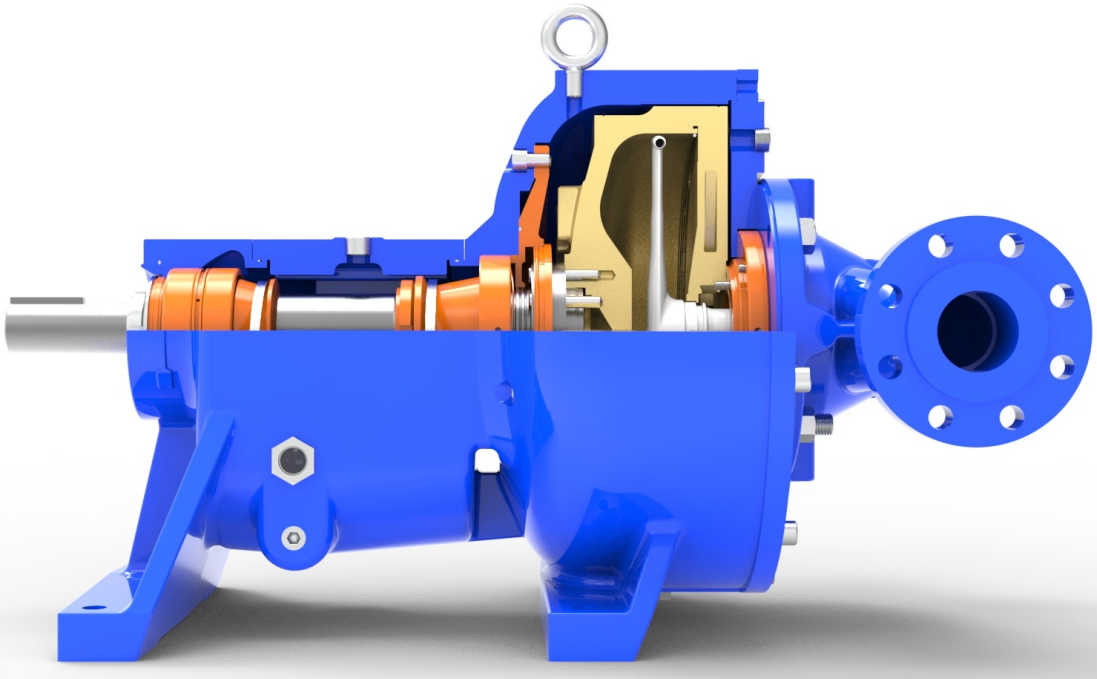




Principles of Operation

ROTO-JET® 2300

- Increase capacity by increasing diameter
- “S” single opening & “D” double opening
- 17-4ph SS or 718 Inconel
- 12 o’clock orientation
- Stationary
- Options for increasing pick-up tube life for abrasive service
- Increase pressure by increasing speed
- Typical speeds 4000 – 5500 RPM
- V-belts / sheaves, gearbox, or VFD



Principles of Operation

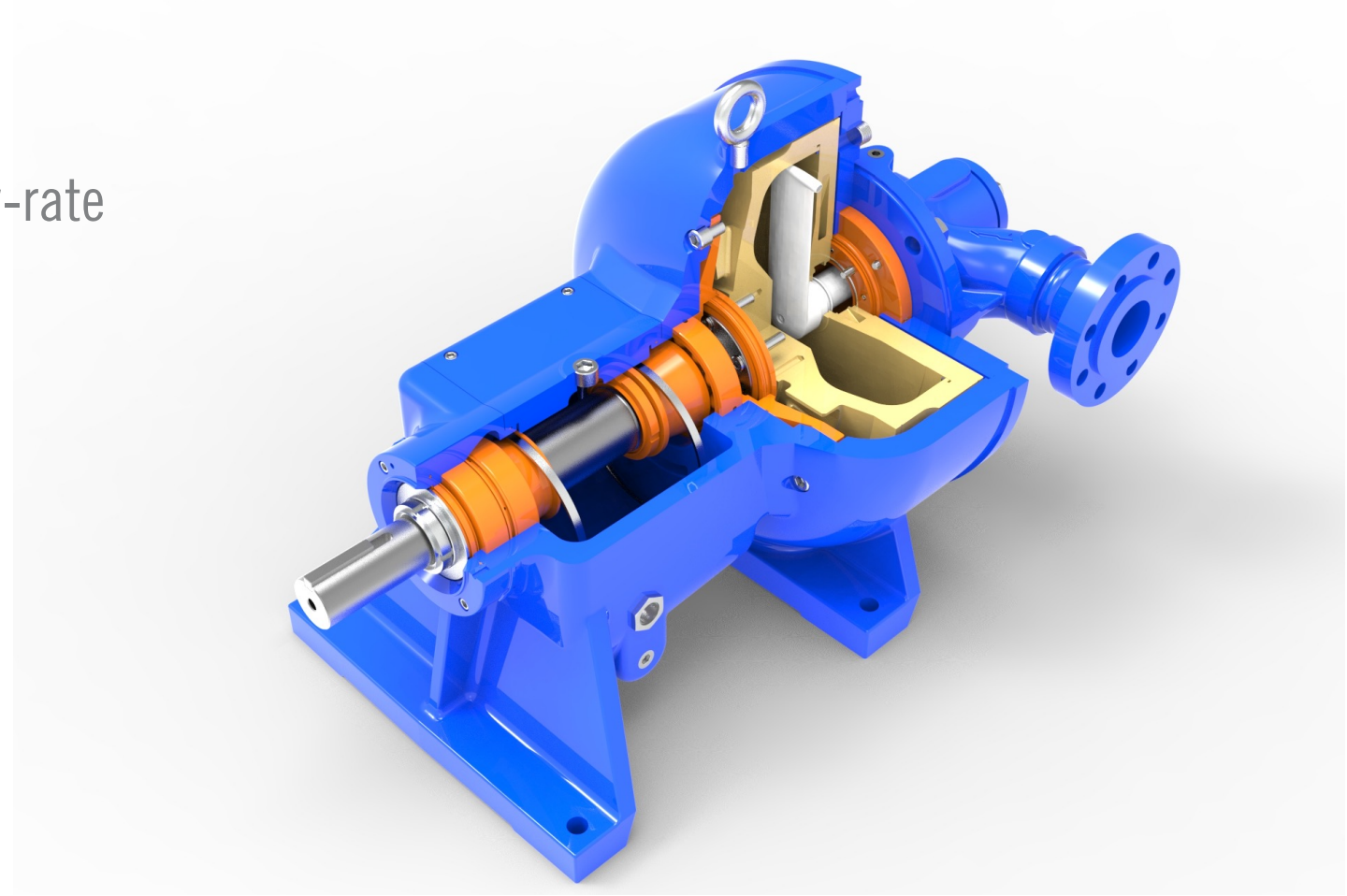
ROTO-JET® 2300

Performance

- Bearing load is NOT a function of flow-rate
- Able to operate at low minimum flow
- Stable operation
- Affinity laws

Mechanical Seal

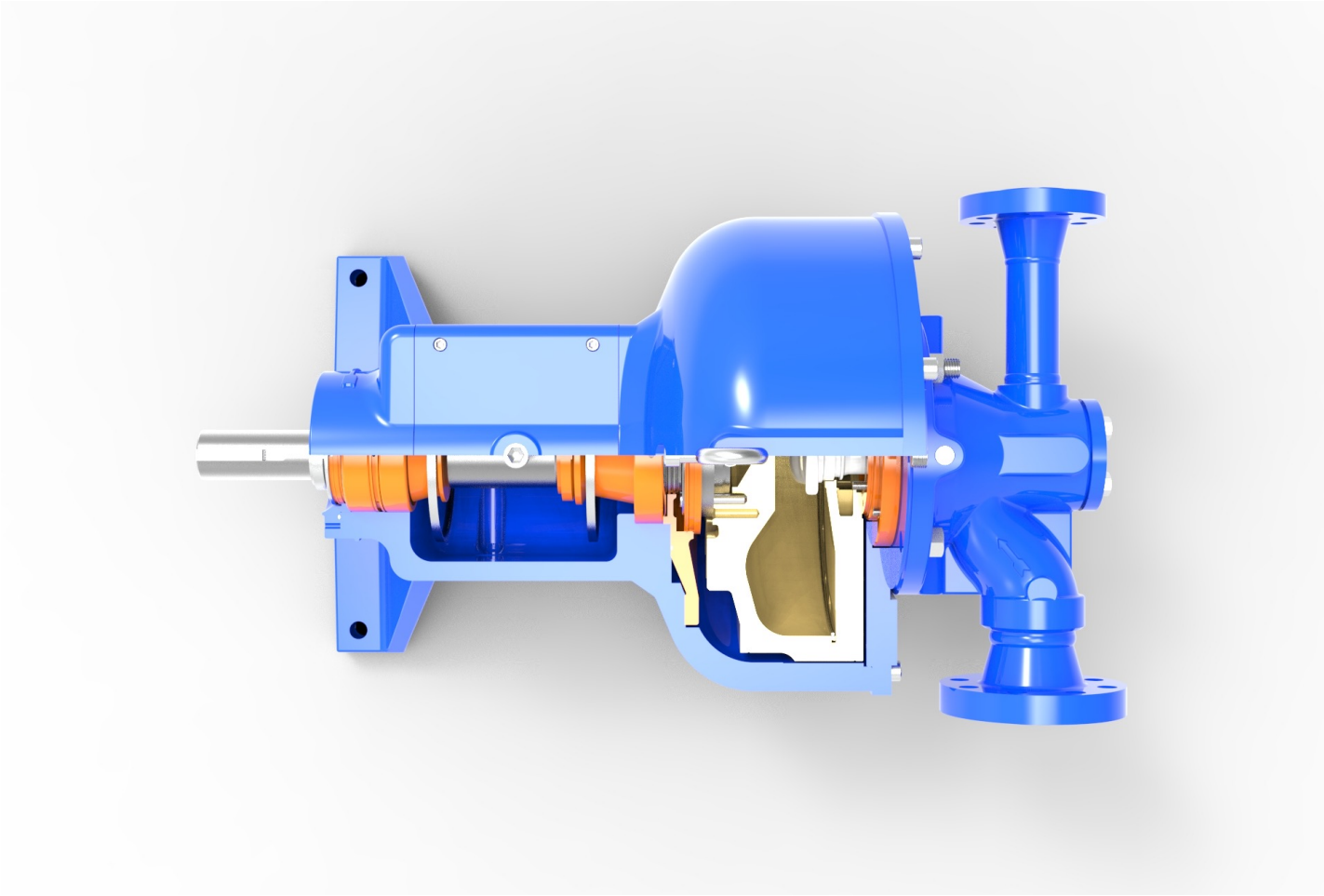
- Single or double
- Isolated from bearings
- Easy access
- Sees suction pressure only



Principles of Operation

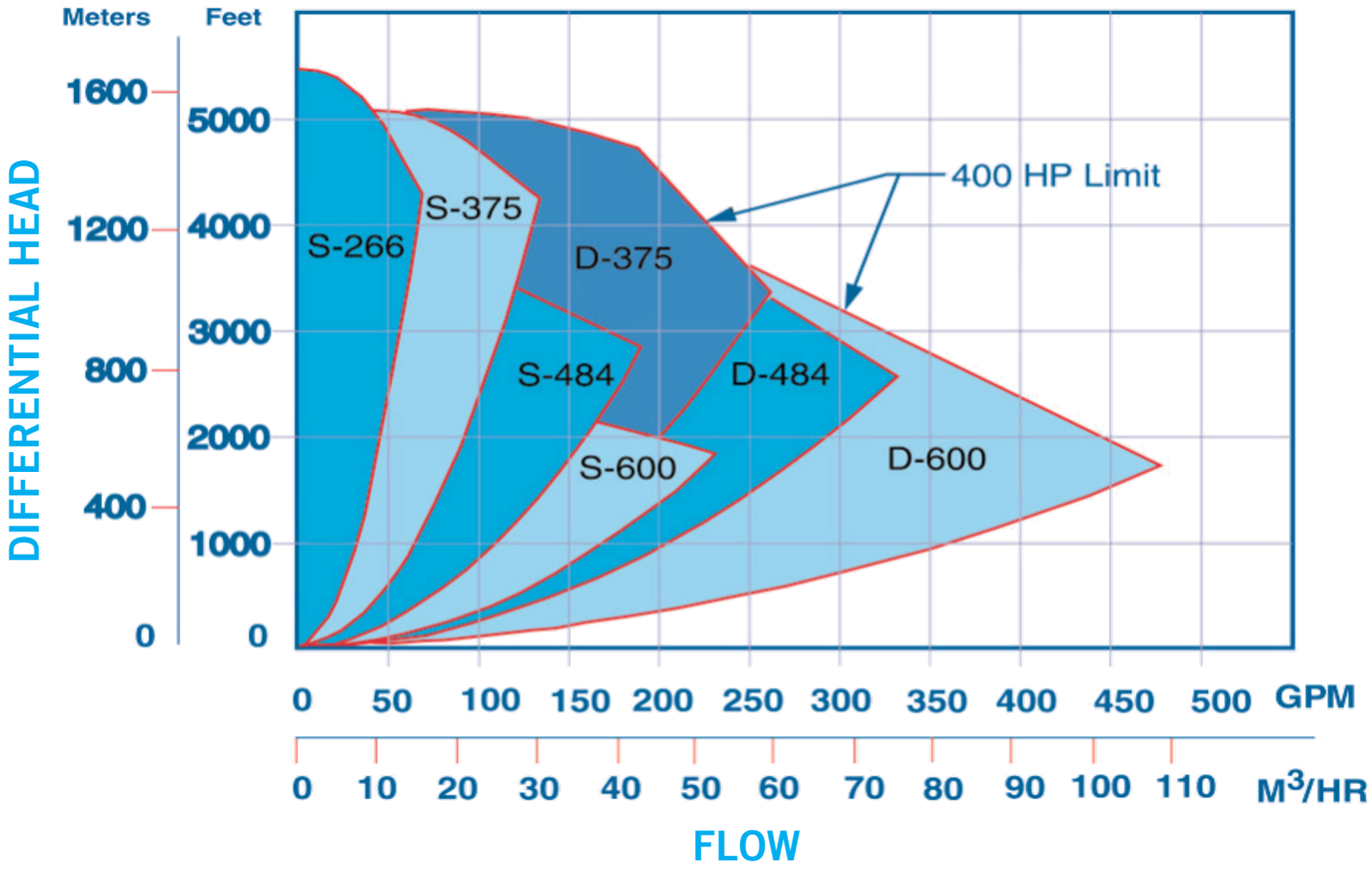
ROTO-JET® 2300

- Oil lubrication
- Single and double seal
- DI, 316SS
- Threaded or flanged connections
- Footprint interchangeable with 2100, 2200 and RG
- Flows to 450 GPM (102 m^3/hr.)
- Heads to 2600 feet (792 meters)
- Temperature to 250°F (121°C)
- Speeds to 4380 RPM



Performance Curve

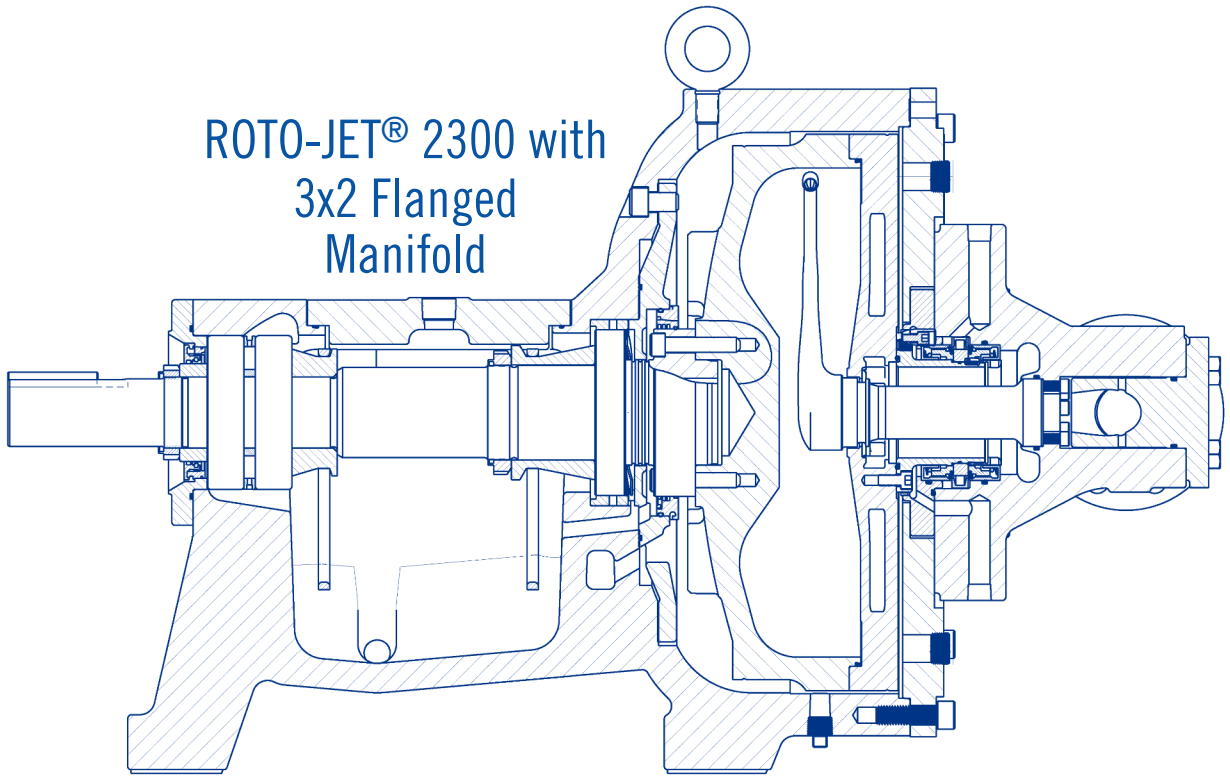
ROTO-JET® 2300



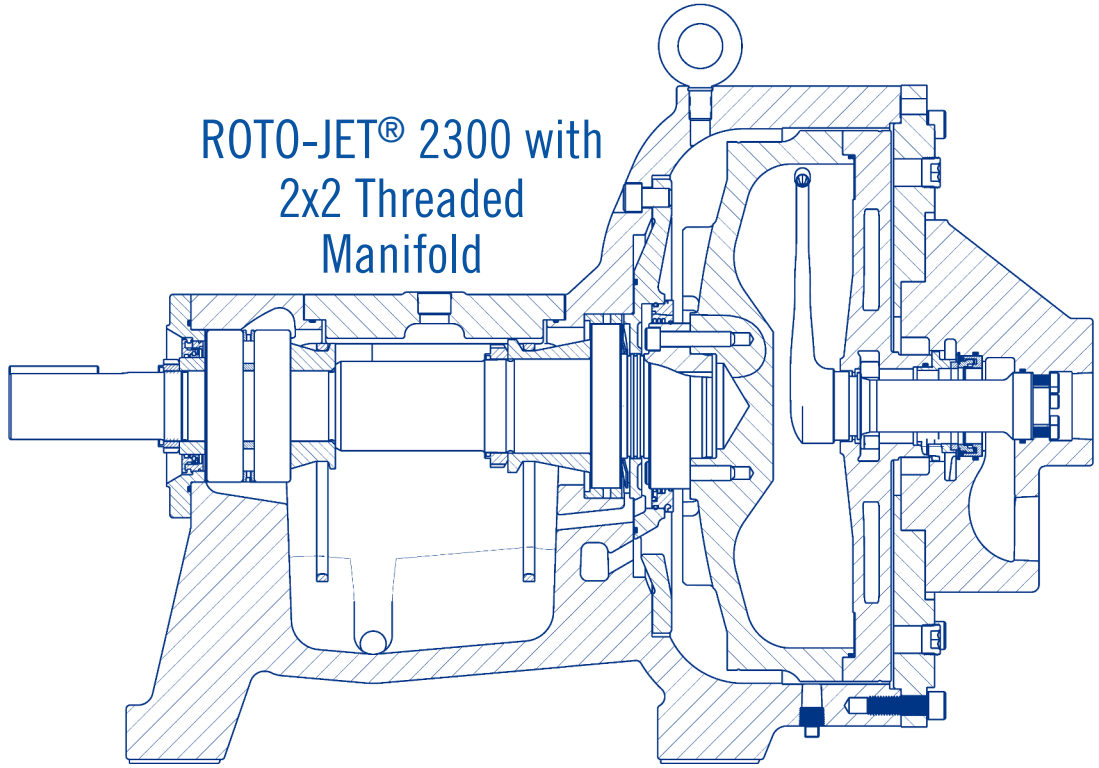
Roto-Jet® 2300

Expanded Drawing, Showcasing Different Manifold Types

ROTO-JET® 2300 with 3x2 Flanged Manifold



ROTO-JET® 2300 with 2x2 Threaded Manifold



Roto-Jet® Models

ROTO-JET® 2300

- R11
- RD11
- API R11
- RG
- RO / ROH
- RO D850
- RO D850
- RO-FT
- VSR
- 2100
- 2200
- 2300

Model RO D850 Pump

Capacity: to 750 gpm (170 m^3/hr)
Heads: to 2100 ft. (640 m)
Pressures: to 900 psi (62 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4380 RPM

Model RO/ROH Pump

Capacity: to 450 gpm (102 m^3/hr)
Heads: to 5500 ft. (1676 m)
Pressures: to 2250 psi (155 Bar)
Temperatures: to 550°F (288°C)
Maximum Speed: 6321 RPM

Model RG Pump

Capacity: to 400 gpm (91 m^3/hr)
Heads: to 2600 ft. (792 m)
Pressures: to 1125 psi (77 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4380 RPM

Model RD-11 Pump

Capacity: to 150 gpm (34 m^3/hr)
Heads: to 1500 ft. (457m)
Pressures: to 650 psi (45 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4858 RPM

Model VSR® Pump
(Variable Speed Roto-Jet®)

Capacity: to 535 gpm (121 m^3/hr)
Heads: to 3930 ft. (1198 m)
Pressures: to 1730psi (120 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 5400 RPM

Model R11 Pump

Capacity: to 150 gpm (34 m^3/hr)
Heads: to 1500 ft. (457 m)
Pressures: to 650 psi (45 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4858 RPM

Model 2100 Pump

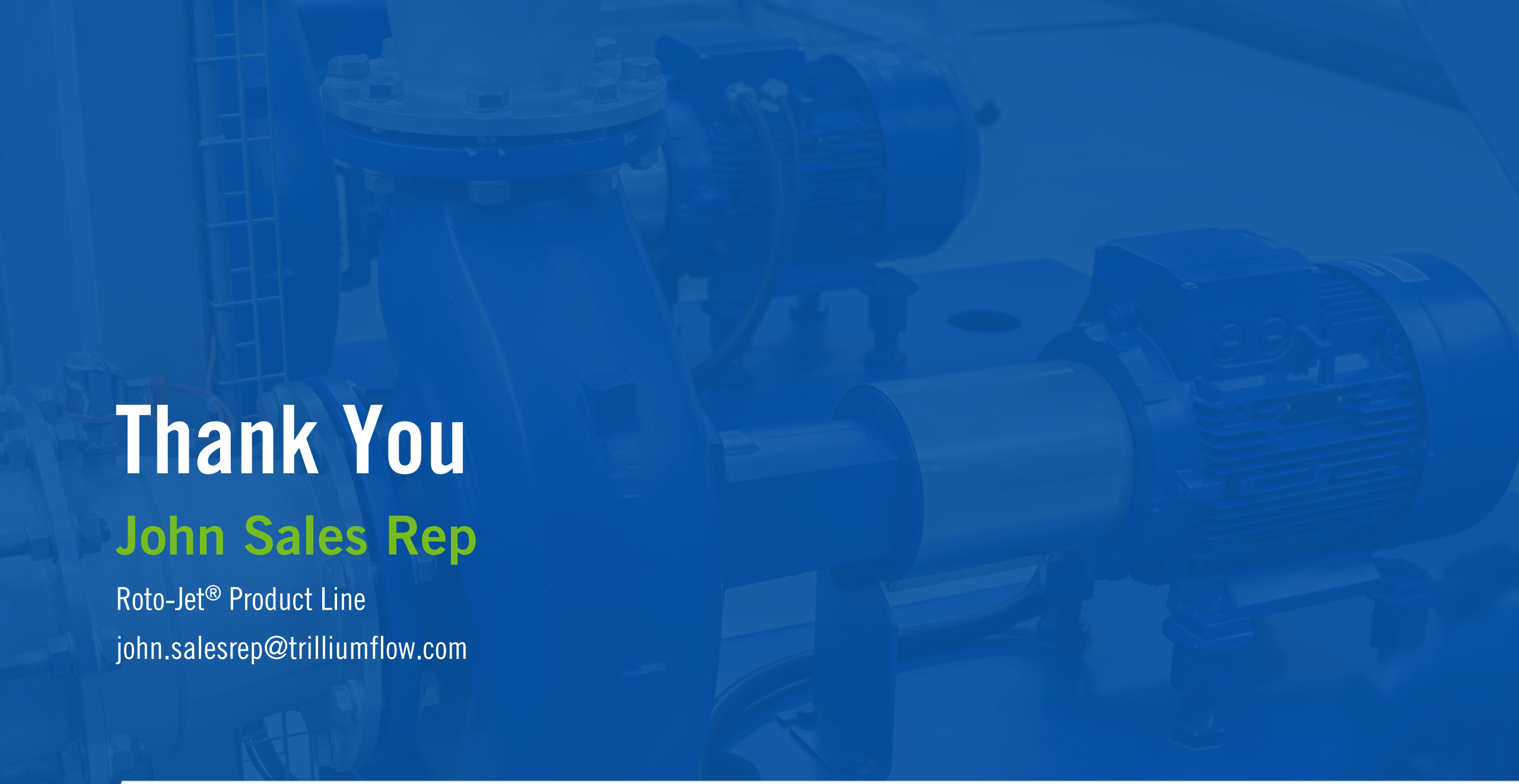
Capacity: to 465 gpm (106 m^3/hr)
Heads: to 2950 ft. (899m)
Pressures: to 1300 psi (90 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4709 RPM

Model API R11 Pump

Capacity: to 150 gpm (34 m^3/hr)
Heads: to 1500 ft. (457 m)
Pressures: to 650 psi (45 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 4858 RPM

Model 2200 Pump

Capacity: to 535 gpm (121 m^3/hr)
Heads: to 3930 ft. (1198 m)
Pressures: to 1750 psi (120 Bar)
Temperatures: to 250°F (121°C)
Maximum Speed: 5443 RPM



Thank You

John Sales Rep

Roto-Jet® Product Line

john.salesrep@trilliumflow.com