

One stage.

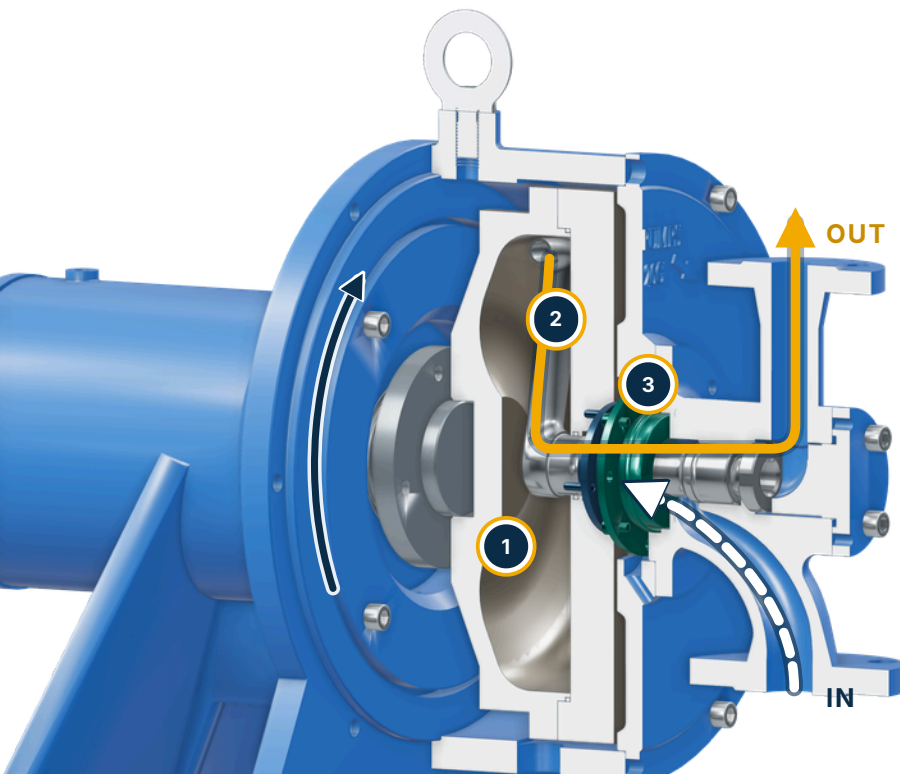
up to **1,050 m head**
(3,445 ft)

Pitot tube pumps for
high pressure at low flow.



The rotor turns. The pickup tube is fixed.

Liquid enters the rotor and turns with it at high speed. The fixed pickup tube collects the fast-moving liquid and converts its speed into pressure. A single stage produces the full head.



1 Rotor

Turns with the shaft at up to 6,300 rpm and spins the liquid.

2 Fixed pickup tube

Collects the spinning liquid and sends it out at high pressure.

3 Mechanical seal

Located at the inlet, so it is exposed only to suction pressure. No rotating seal on the high-pressure side.

--- Inlet · low pressure
— Outlet · high pressure

One stage, full head

Up to 1,050 m (3,445 ft) head from one rotating stage. Simple design, few parts, easy to maintain.

Stable at low flow

With a small continuous bypass, the pump can run at any flow rate, even with the outlet valve closed. No relief valve is needed.

Handles some gas and solids

Pumps liquids that contain a little gas or some solid particles. As the gas content rises, flow and head drop gradually.

Steady flow and pressure

Smooth delivery with very little pulsation, noise and vibration. No pulsation damper is needed.

FLOW

0.05–70 m³/h
0.2–308 US gpm

TEMPERATURE

Up to 260 °C
500 °F

HEAD

Up to 1,050 m
3,445 ft

VISCOSITY

Up to 250 cSt
about 1,160 SSU



Watch the 3D animation

Scan to see how it works

Special designs: up to 1,500 m (4,921 ft) head or 100 m³/h (440 US gpm).

Where our pumps work.

Gas fields, carbon black plants, paper mills and food plants — wherever the flow is low and the pressure is high.



OIL & GAS · PRODUCED WATER

In service in the desert since 2022

PetroChina, Tarim Oilfield. After three years of good service, the customer ordered two more EHIK skids in 2025.

23–48%

less electricity

90→45 kW

smaller motor (121→60 hp)

Results from PetroChina gas fields in Sichuan, where EHIK pumps replaced multistage pumps. Based on site meter readings.



CARBON BLACK

Feedstock oil and coal tar

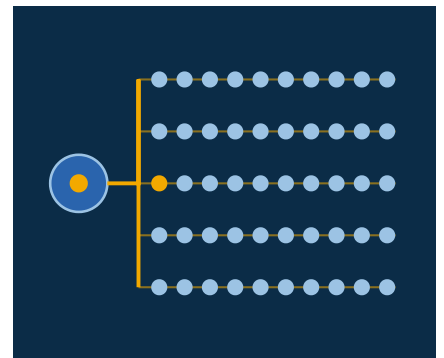
Our largest industry: **422** of our 667 supply records.



PULP & PAPER

Felt and wire showers, water-jet cutting

In service at **6** Vinda paper mills.



CENTRAL CLEANING

One pump, 50 cleaning stations

At a food plant, the pressure stays stable with **1** or all **50** stations open.

Fits your existing piping.

We make the flanges to match your pipes. In every EHIK replacement so far, the new pump has connected directly to the existing piping.

Customers include

Cabot, Birla Carbon, Orion, Black Cat Carbon Black, PetroChina, Sinopec and Vinda.

Pitot tube pump specialists.

Since 2004, we have focused on one product: the pitot tube pump. Factory in Gu'an, Hebei, near Beijing. Offices and R&D in Beijing and Chengdu.

667

Supply records, 2007–2026

22

Patents covering pump, pickup tube, seal and skid designs

ISO

Certified to ISO 9001, 14001 and 45001



Pumps & pump sets

180 to 450 series, as bare-shaft pumps or with motor and base.



Integrated skids

Pump, piping, valves and controls in one package.



Spare parts

Pickup tubes, rotor assemblies and other parts.



Wear-resistant pickup tubes

Made for liquids with a high content of hard particles. Where a standard tube may need replacing after 1–3 weeks, our wear-resistant tube can last 2–3 months.

Do you use Roto-Jet pumps?

We supply replacement pickup tubes and rotor assemblies for Roto-Jet pumps, including wear-resistant pickup tubes. We also overhaul complete pumps.

In stock

Most models ship after payment.

Tested

Every pump is tested before shipping.

Warranty

12 months after installation or 18 months after delivery.

Send us your liquid, flow and pressure.

We reply within 1 business day.

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