

**PROCESS PUMPS OH2**  
API610 11TH EDITION

**JHE**  
**JHF**



**KUMING JIAHE SCIENCE & TECHNOLOGY CO.,LTD.**

**Head quarters**

Add: NO.208 Tuoxiang Road, Information Industry Base, Economic and Technical Development Zone, Kunming, Yunnan Province, China.

Tel: 0086 871 67425766

Fax: 0086 871 7413222

E-mail: sales@jhpumps.com

**Beijing office**

Add: Room No. 1615, Building 6th, Guotou Wealth Square (Guoan road No. 9th), Fengtai district, Beijing, China.

Tel: 0086 10 88018088

Fax: 0086 10 88018088 ex 801

[www.jhpumps.com.cn](http://www.jhpumps.com.cn)



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Compliance with the standard of API 610, 11th edition and expertise gained over decades of operational experience has resulted in this new generation of JH Pumps process pumps.

Optimized in terms of material technology and design, all requirements for heavy duty pumps can be fulfilled. It meets and even exceeds the stringent demands made by API 610, 11th edition.



## APPLICATIONS

The pumps are designed for the delivery of most fluids found in refinery processes. The application ranges from liquid gases at low temperatures through light and heavy fuels up to gas oil containing solids and distillation residues at the highest temperatures.

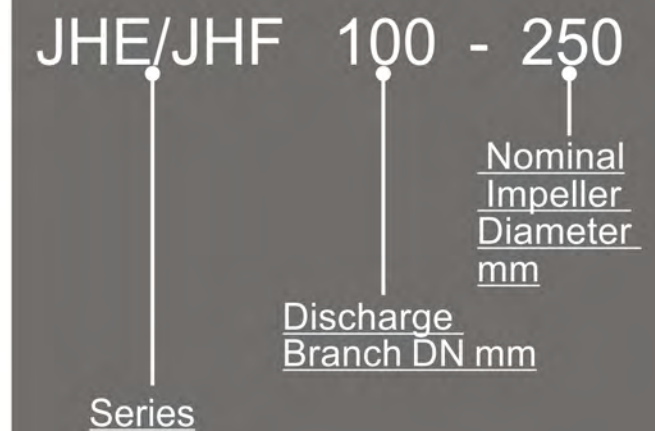
- Refineries
- Petrochemical plants
- Gas processing
- Coal processing
- Offshore installations

## KEY CHARACTERISTICS

Capacities	Up to 2600m <sup>3</sup> /h 11440USgpm
Heads	Up to 300m 984ft
Pressures	JHE: Up to 5Mpa JHF: Up to 7.5MPa
Temperatures	-80°C to 450°C

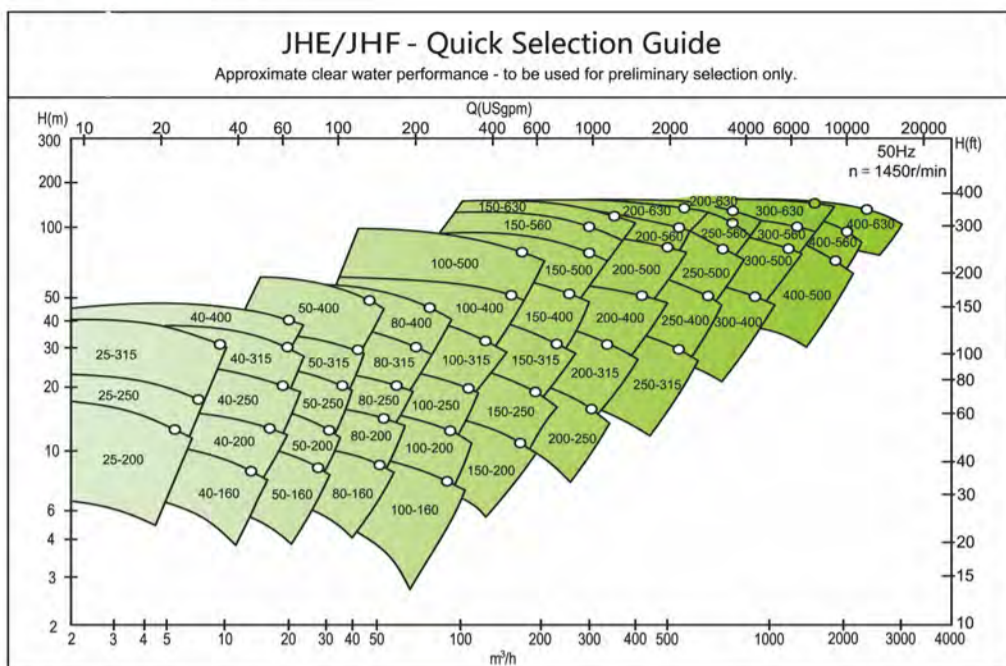
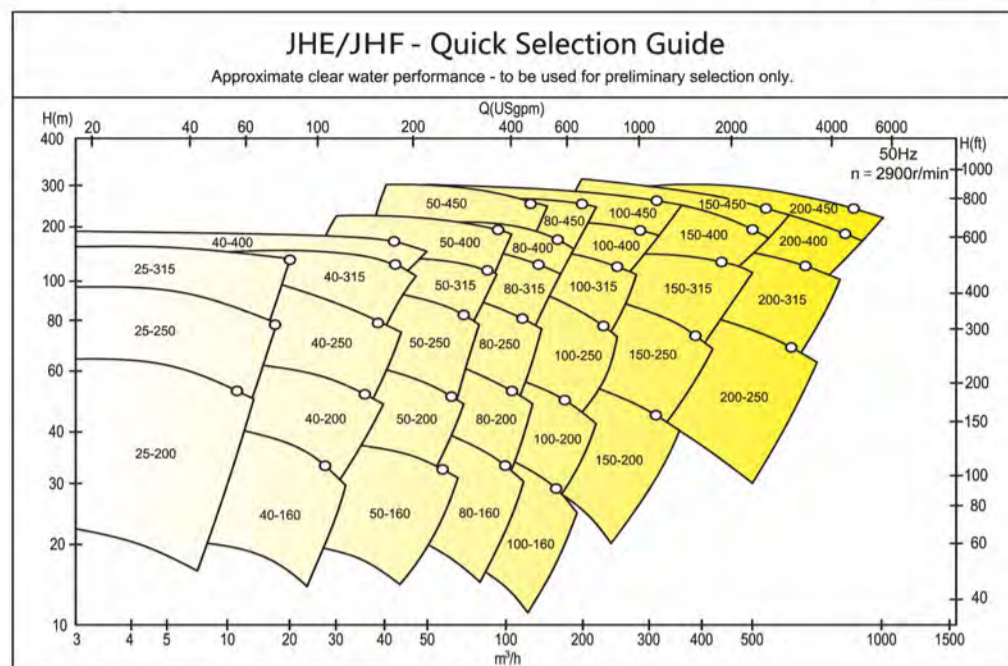


## PUMP DESIGNATION





## SELECTION CHART

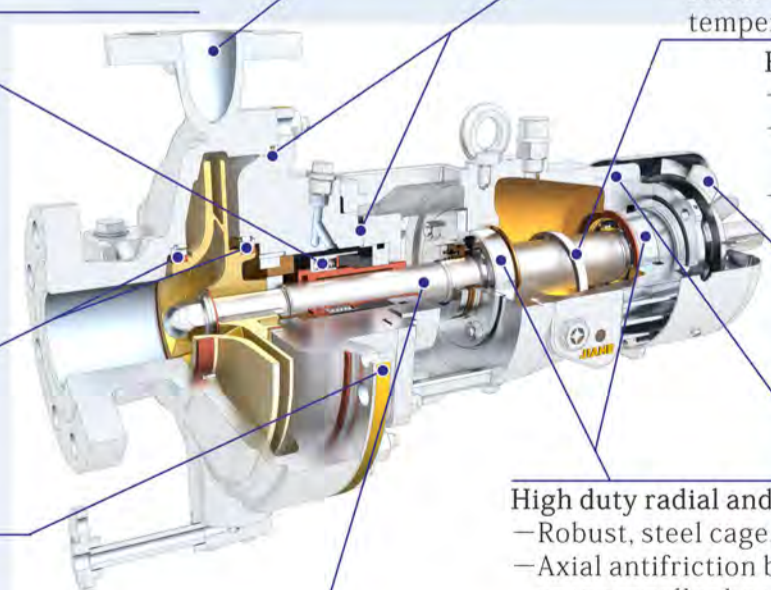


## APPLICATION CASES



JHE pumps were operated in petrochemical processing.

## STRUCTURAL FEATURES



- Cartridge shaft seals**
  - Single, double or tandem mechanical seals
  - Simple, quick replacement
  - Accurate sliding face pre-stressing for high rated lives
  - Shaft sealing chamber is compliance with the standard of API 682
- Generous nozzles**
  - Low nozzle velocities
  - Low noise levels
  - Withstands high nozzle forces and moments
- Fully confined casing seal**
  - Controlled compression design
  - Safe bolt pre-stressing
- Lubricating ring**
  - Preventing partial oil heating in the bearing area
  - Better mixing of the lubricating oil, low bearing temperatures
- Fan cooling**
  - Efficient lubricating oil and bearing cooling
  - If necessary, low bearing temperatures under all operating conditions and in all climatic zones
  - No cooling water lines, no cooling water consumption
- Heavy duty cast steel bearing bracket**
  - Especially rigid design due to full support
  - Reduced vibration
  - Smooth running even during partial or excess load operation
- High duty radial and thrust bearing**
  - Robust, steel cage, oil-lubricated antifriction bearings
  - Axial antifriction bearing by paired angular contact ball bearings or taper roller bearings
  - Standard cylindrical roller radial bearing; optional deep grooved ball bearing
  - Greatly exceeds the bearing service life demanded by API
- Replaceable stationary and rotating wear rings**
  - Special material combinations for low wear, high rated lives
  - Guaranteeing a steady, high efficiency over the whole pump service life
- Casing cover**
  - For cooling or heating
  - Cooling chambers easily accessible
- Heavy duty shaft**
  - Generous shaft diameter for minimal shaft deflection and maximum stiffness
  - API standard materials