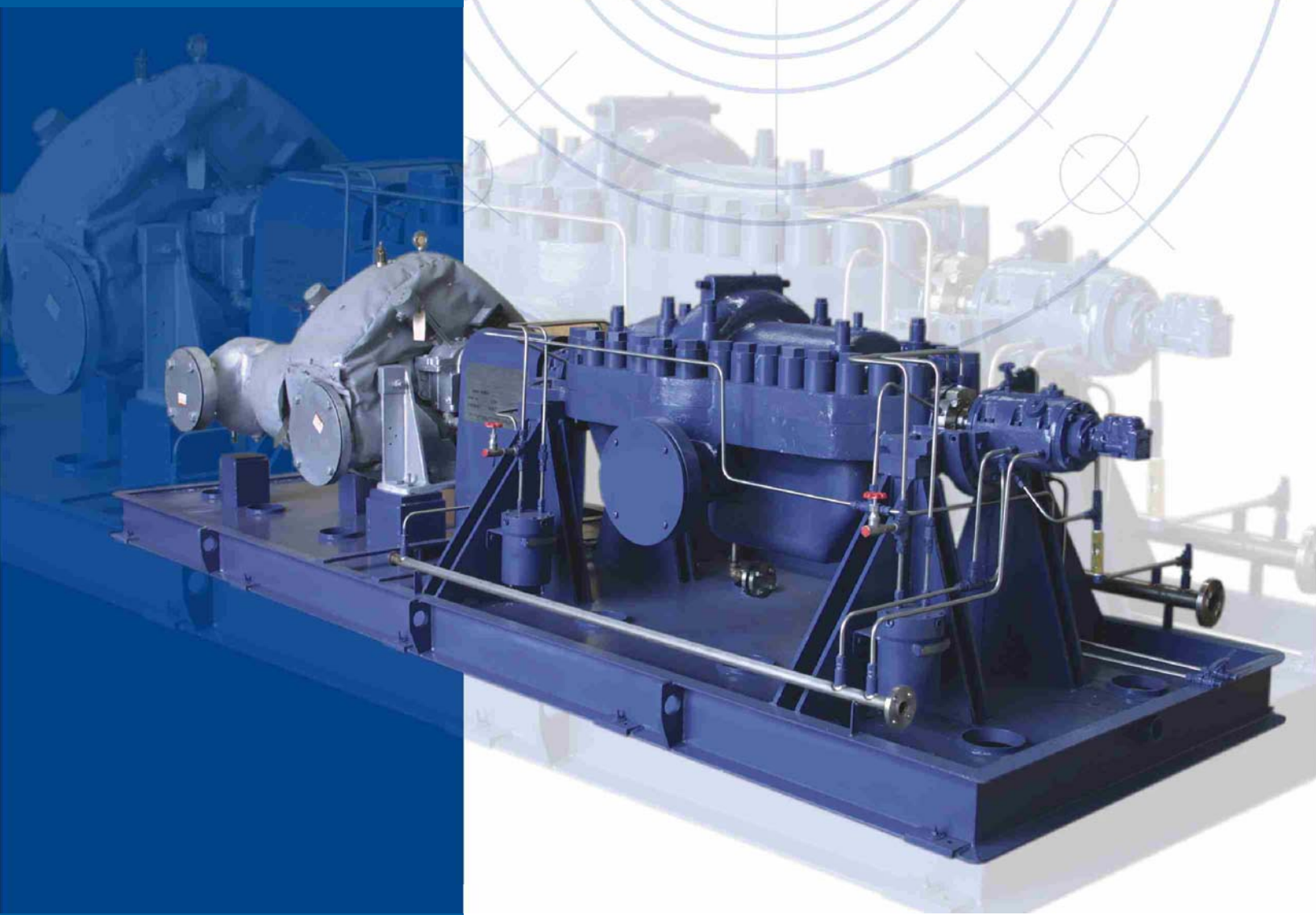




J T N

**Heavy Duty, Multi-stage,
API 610 Process Pump**



JTN Process Pump

For over 50 years the name Ruhrpumpen has been synonymous worldwide with innovation and reliability for pumping technology.

The pumps of the JTN model are heavy-duty centrifugal pumps for universal applications.

The pumps meet the stringent specifications of API Standard 610 and reflect the many years of our experience in the design, manufacture, quality assurance and operation of process pumps under heavy duty conditions. These pumps also complies with the requirements specified in ISO 9905.

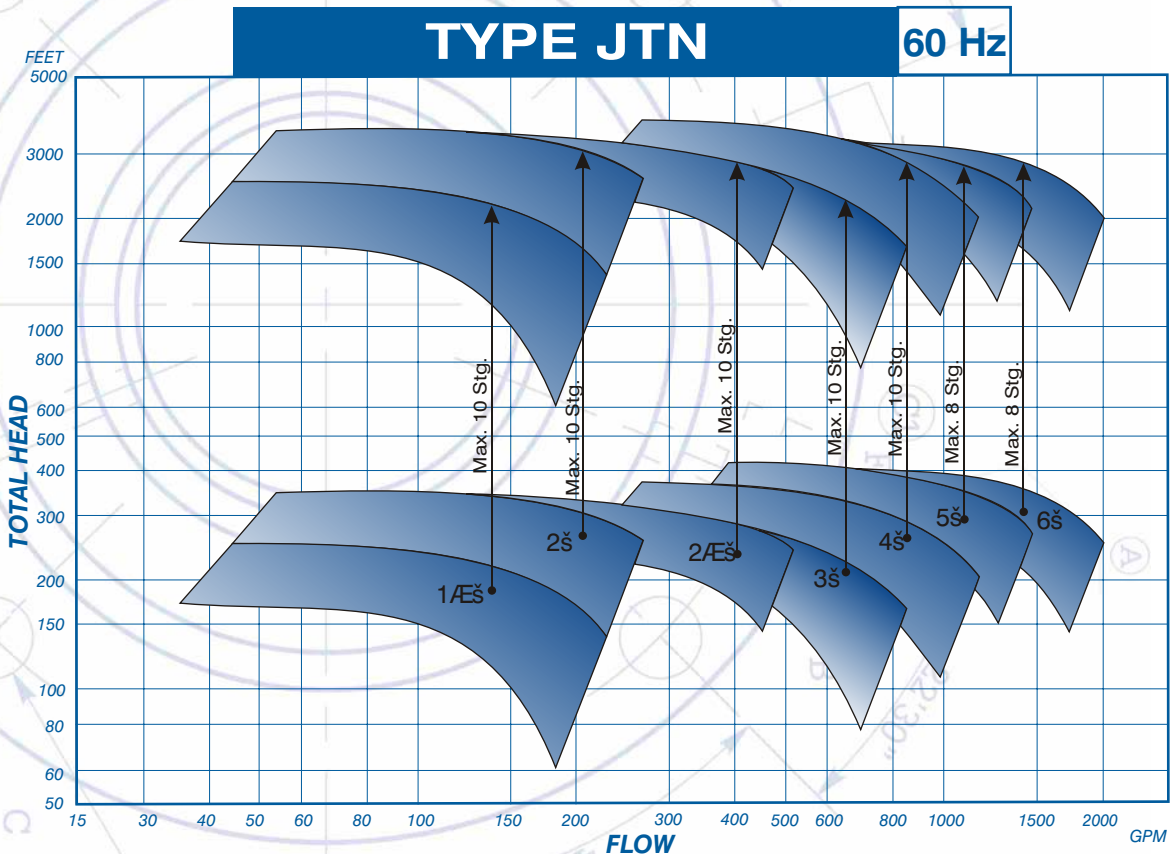
Qualified specialists in all departments ensure the pumps and equipment from our facilities are able to operate under the most severe conditions.

Intensive research and development ensures the products of Ruhrpumpen are continuously improved to meet the latest technical requirements.

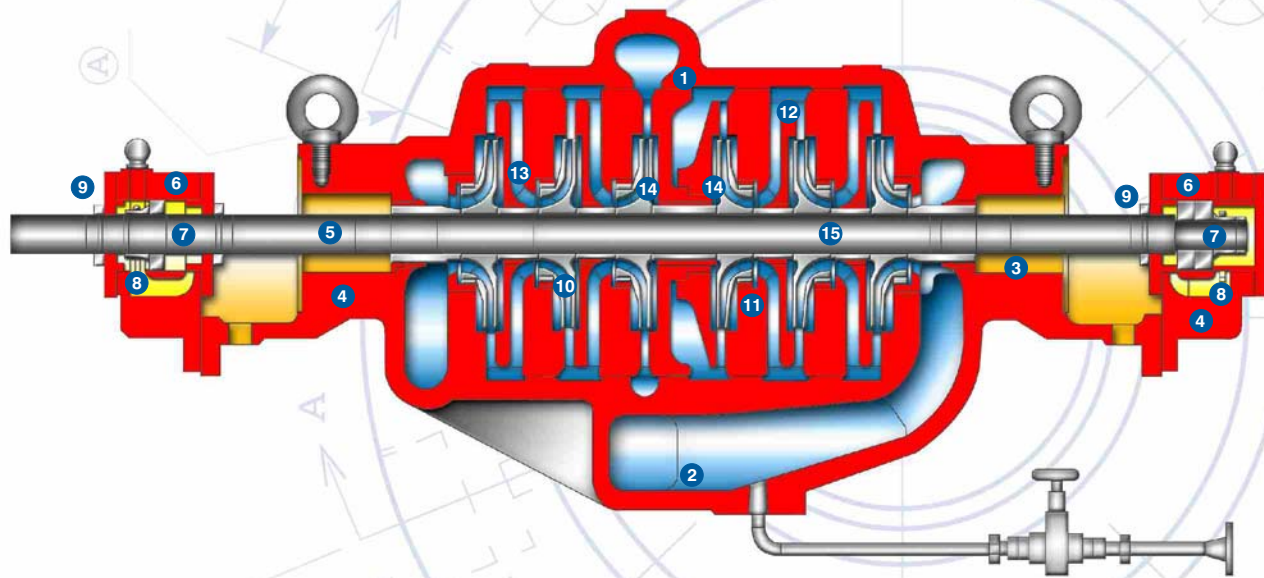
It is only possible to achieve these aims by means of highly sophisticated CNC controlled machines in our modern machine shop, supplemented by our test and development departments as well as the latest industry standard inspection and control procedures. All in our ISO 9001 certified facilities.

The application of modern, reliable methods, data processing and sophisticated software with high performance, state of the art IT offers our customers high reliability and speed in all working processes, from planning and production to the providing of spare parts.

The instant availability of spare parts, together with first class service, ensures customers that they have selected the right partner.



Fully API 610 Compliant



- 1 Casing with foot support near the centerline.
- 2 All applicable branch flange connections available. Flange connection sizes to ANSI B 16.5.
- 3 Amply dimensioned shaft sealing chamber for housing all commercial mechanical seal designs.
- 4 Alternatively, cooling of the shaft sealing chambers and bearing housings can also be provided, including all necessary piping connections.
- 5 Shaft deflection less than 0.03 mm in the area of the mechanical seal due to the ample pump shaft dimensions and the balancing of the hydrodynamic radial loads.
- 6 Single-piece bearing housing, air cooled. Alternatively, cooling by integrally cast cooling channels with external piping connections for cooling water pipes according to API 610, Annex D.
- 7 Anti-friction bearings with a service life of more than 25,000 h even under arduous conditions.
- 8 Oil supply to anti-friction bearings by lubricating rings, automatic monitoring of oil level by constant level oiler.
- 9 Wear-free labyrinth seals oil return bores, alternatively radial sealing rings.
- 10 Impellers with a high accuracy of shape and excellent surface finish, resulting in high efficiencies and low NPSH values.
- 11 Exchangeable impeller and case wear rings. Clearances according to API 610.
- 12 One piece diffusers ensure proper balancing of the radial forces and thus help to reduce the bearing load.

Product Description

Horizontal arrangement.
 Axially split casing.
 Modular design system.
 Multi-stage, single entry.
 Near centerline support.
 Impellers arranged in opposed groups.
 API 610.

Broad Application Range

Refineries.
 Oil fields.
 Petrochemical plants.
 Chemical plants.

Performance Data

Capacity	Q 10 to 480 m ³ /h	44 to 2100 gpm
Head	H 100 to 1200 m	325 to 3900 ft
Discharge flange size	1 1/2" to 6"	
Max. Pressure	133 kg/cm ²	1880 psig
Temperature	to 205°C 400°F	

- 13 Exchangeable interstage bushings. Clearances according to API 610.
- 14 Balancing of the axial forces by opposed arrangement of the impellers in groups.
- 15 Low-vibration operation due to dynamic balancing both of the individual impellers and the complete rotor.

Other Ruhrpumpen Products

**API 610
Overhung Radial Split**



**API 610
Between Bearings
Radial Split Two Stage**



**Horizontal
Split Case**



**API 610
Between Bearings
Radial Split Single Stage**



**UL/FM
Firewater Pumps**



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Specialist for Pumping Technology

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For more information:

