



## Back Pull-out End Suction Centrifugal Pumps

**TROSY**







## GENERAL

The **Trosx Series TRE** series fully conforms to the pump standard DIN EN733(formerly DIN 24255) and covers all sizes nominated. This makes the range fully interchangeable with other brands of pump designed to this standard.

All pumps are mounted on standardized bearing assemblies (Modules 25,35 and 45) giving high parts interchangeability.

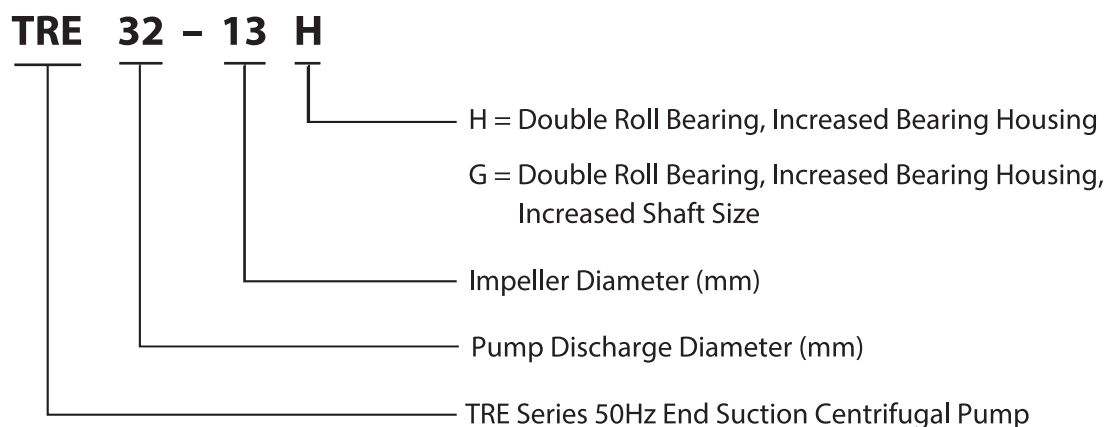
The **TRE** range has been extended to include 2 models with 200mm discharge and 2 models with 250mm discharge size, providing the flows up to 330 litres/sec. These sizes are mounted on the Module 55 bearing assembly.

**TRE** offers users many advantages over equivalent pumps, because the range incorporates several features that improve reliability & performance, while simplifying maintenance and spare parts inventory.

## APPLICATION

- Supplying water
- The circulation of hot water for central heating
- The circulation of cold water for air conditioning and refrigerating
- The implementation of pumping systems
- Pressure boosting
- Fire-fighting and fire sprinkler systems
- Swimming pools
- Irrigation

## MODEL CODE



## DESIGN FEATURES

### Volute Casings

Manufactured in high-grade cast iron as standard with integral cast feet and vertical centerline discharge for automatic venting air. Cast stainless steel casings are available as an option.

### Impellers

Impeller are of the closed type for higher efficiency, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable consumable rings.

### Shaft

Stainless steel pump shaft supported by two large maintenance-free greased ball bearings, housed inside a special chamber of the support lip seals and water flinger to prevent ingress of dust and moisture. These significantly improve bearing life.

### Standard Seals

Standardized mechanical seals made to **DIN 24960** in carbon/carborundum with O-Ring in **EPDM**. Packing on request with hydraulic-lubricating ring and stuffing box in two easing removable parts.

## TECHNICAL INFORMATION

**Flowrate:** Max. 1200 m<sup>3</sup>/h

**Pump Head:** Max. 150 m

**Speed of Rotation:** 50 Hz at 1450 RPM or 2900 RPM

**Liquid Temperature Range:** -10°C - 140 °C

**Working Pressure:** 10 Bar standard, 16 Bar optional

**Test Pressure:** 16 Bar standard, 24 Bar optional

### Pump Liquid

Clean, without solid or abrasive substances, not viscous, not aggressive, not crystallized and chemically neutral, close to water characteristics.

### 'Back pull-out' Feature

If spaces coupling is installed, pump can be separated from the driver without having to dismantle the driver or pump the common skid.

Bearing housing assembly can be removed for repair or servicing without having to disturb the connected piping.



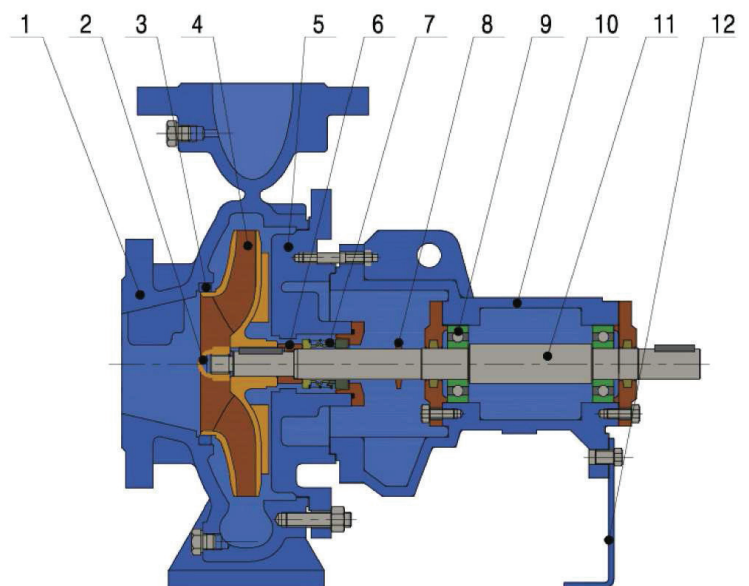


## MATERIALS OF CONSTRUCTION

Parts	Standard Material	Optional Material
<b>Casing</b>	Grey Cast Iron (AS 1830/T200)	<ul style="list-style-type: none"> <li>- Nodular Cast Iron</li> <li>- Cast Stainless Steel (AS 2074/H6B)</li> <li>- Zinc-free Bronze</li> </ul>
<b>Impeller</b>	Grey Cast Iron (AS 1830/T200)	<ul style="list-style-type: none"> <li>- Nodular Cast Iron</li> <li>- Cast Stainless Steel (AS 2074/H6B)</li> <li>- Zinc-free Bronze</li> </ul>
<b>Shaft</b>	Stainless Steel (AS 1444/420)	<ul style="list-style-type: none"> <li>- Stainless Steel (AS 1444/316)</li> </ul>
<b>Casing wear ring</b>	Grey Cast Iron (AS 1830/T200)	<ul style="list-style-type: none"> <li>- Gunmetal (AS 1565/C8360B)</li> <li>- Zinc-free Bronze</li> </ul>
<b>Impeller wear ring</b>	-	<ul style="list-style-type: none"> <li>- Gunmetal (AS 1565/C8360B)</li> <li>- Zinc-free Bronze</li> </ul>
<b>Seal type</b>	Mechanical Seal (Carbon/Carborundum, EPDM)	<ul style="list-style-type: none"> <li>- Gland Packed</li> </ul>

## STRUCTURE DRAWING

Part No.	Name of Part
<b>1</b>	Volute Casing
<b>2</b>	Impeller Nut
<b>3</b>	Wear Ring
<b>4</b>	Impeller
<b>5</b>	Casing Cover
<b>6</b>	Shaft Sleeve
<b>7</b>	Mechanical Seal / Grand Packing
<b>8</b>	Slinger
<b>9</b>	Bearing
<b>10</b>	Bearing Housing
<b>11</b>	Shaft
<b>12</b>	Support Foot



## SELECTION CHARTS 50Hz

N=1450RPM

