

PTT

HEAT TRANSFER PUMPS

Bearing Bracket Size 360 and 470
For Heat Transfer Oils up to 350° C

PTT-MN / MA / MI Series (PUMPS WITH MAGNETIC COUPLING)

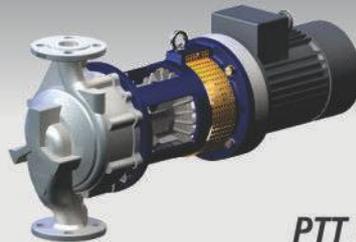
PTT-GN / GA / GI Series (PUMPS WITH MECHANICAL SEALS)

PUMP

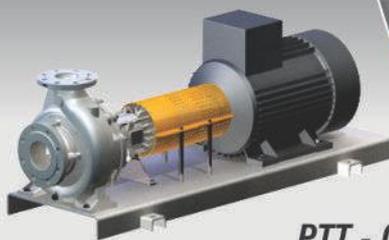
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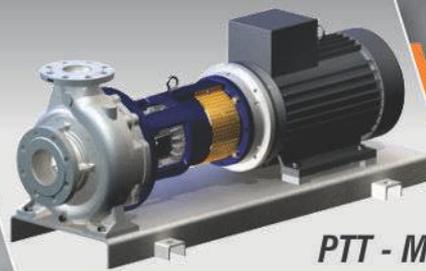
PTT - GI



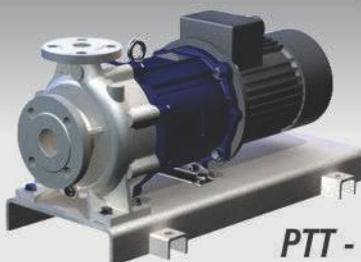
PTT - MI



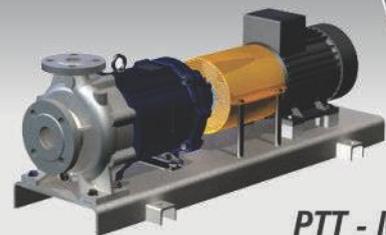
PTT - GN



PTT - MN



PTT - GA



PTT - MA

PUMPSQUARE SYSTEMS LLP

Liquid Pumped

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- Marlotherm SH

Thermal - Oil Pumps
Thermic Fluid Pumps
Hot Oil Pumps

Call: +91-80000-PUMPS

or +91-80000-78677 for complete pumping solution!!!



Pump Applications

- Heating of baking ovens and large frying units
- Cooling of cold stores and refrigerated counters
- Tempering of tool moulds
- Production of edible oil and dry masses
- Heating of calanders, melting pots, agitators and mixing tanks in the leather, rubber and chemical industry and for the production of lacquers, colours and adhesives

Design Features

• Horizontal, Single Stage, Closed Impeller, Single Entry Centrifugal Pumps with Volute Casing for Process Design

• **Capacity** - upto 200 m³/hr

• **Head** - upto 550m

• **Speed** - upto 2900 RPM

❑ **Maximum Operating Temperature**

• Heat Transfer Oil upto 350°C

• Hot Water upto 160°C

❑ **Cooling Method** - With air

❑ **Bearing Bracket Size** - 360 & 470

❑ **Sealing Options**

• Mechanically Seal (Single Acting Unbalanced)

• Magnetic Coupling for Zero Leakage

❑ Due to the **back-pull-out design** the complete bearing assembly including Impeller and casing cover can be dismantled without removing the volute casing from the pipe system

❑ **Pump Shaft extremely rigid to minimize bending**

❑ **Hydraulic Forces are Balanced**

• Radial Forces compensated by plain bearing close to Impeller and ball bearing on coupling side

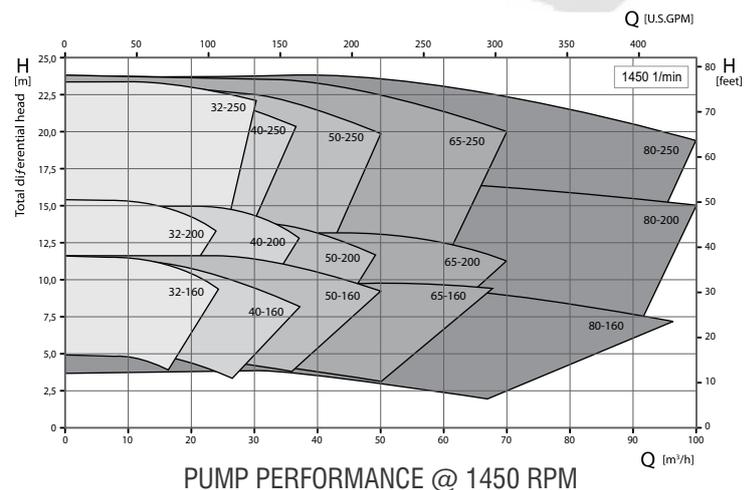
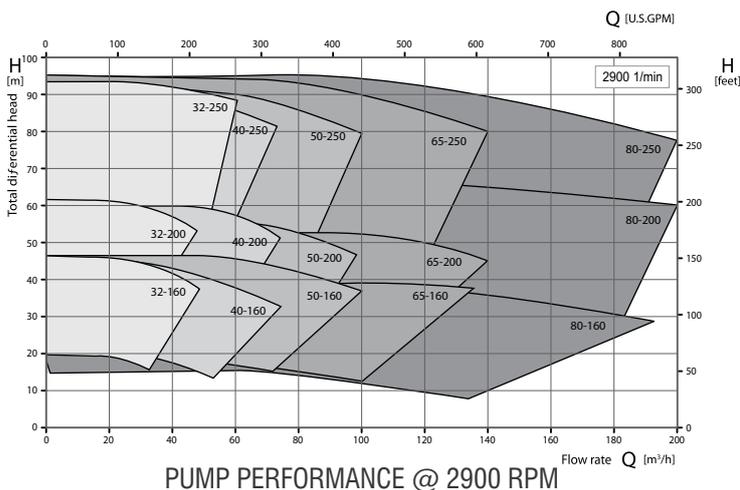
❑ Pumps Painted with highly heat resistant aluminum paint

❑ **Accessories** (Optional)

• Quench Reservoir prevent oxygen from reacting with seal leakage, preserves seal life in long run

- Heating of tank, fuel oil and bitumen chambers on stationary and mobile platforms as well as in tank ships, in crude oil production and processing
- Heating of colouring, coating, washing, pressing and ironing systems in the textile industry
- Heating of systems for bitumen production and processing, for drying applications and for the production of binders in the building industry
- Heating of systems for the production of liquid crystals in the pharmaceutical industry
- Heating of pipelines and treatment stations in the field of gas gathering
- Heating of temperature controllers in the die cast industry

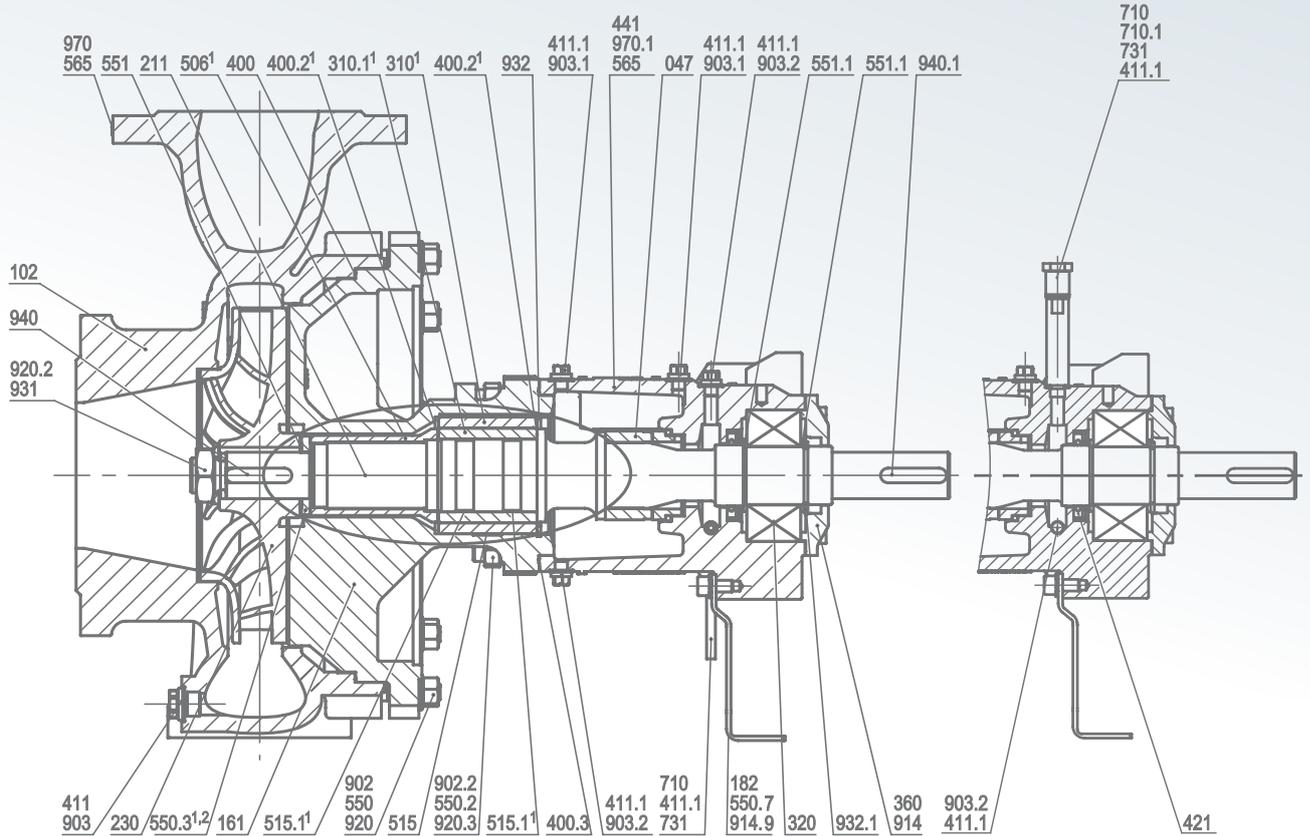
Field Charts For (PTT - GA / GN)



*Subject to technical modification error / *Data for reference only

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Cross Section View for PTT GN 360/470



Parts List

Version with Nominal Impeller Ø 160mm and Ø 200mm

047	Mechanical seal
102	Volute casing
161	Casing cover
182	Foot
211	Shaft
230	Impeller
310 ¹ -310.1 ¹	Bearing, complete
320	Kugellager
360	Bearing cover
400,400.2 ¹ -400.3	Flat gasket
411-411.1	Ring gasket
441	Shaft seal housing
506 ¹	Retaining ring
515-515.1 ¹	Tolerance ring
550,550.2-550.3 ¹ .550.7	Washer
551-551.1	Shim washer
565	Rivet
710	Tube
731	Screw joint
902, 902.2	Stud
903-903.2	Screwed plug
914, 914.9	Socket head cap screw
920, 920.2-920.3	Hexagon nut
931	Lock washer
932-932.1	Lock ring
940-940.1	Key
970-970.1	Plate

Version with Nominal Impeller Ø 250mm

400.1	Flat gasket
550.1	Disk
720	Counter flange
902.1	Stud
920.1	Hexagon nut

Version with Quench

411.1	Ring gasket
421	Radial shaft seal
710-710.1	Tube
731	Screw joint
903.2	Screwed Plug

Materials Chart

Volute casing	EN-GJS-400-15 Spherodal graphite cast iron
Casting cover	Spherodal graphite cast iron
Impeller	EN-GJL-250 Cast iron
Mechanical Seal housing	EN-GJS-400-15 Spherodal graphite cast iron
Shaft	1.4122 CrMo-steel
Bracket*	EN-GJS-400-15 Spherodal graphite cast iron
Plain bearing	S SiC
Mechanical Seal	AQ VGG

EN-GJS-400-15 = EN-JS1030 = GGG-40



- ¹ Plain bearing (SiC) only
- ² Bearing bracket 470 only
- ³ Plain bearing (Carbon) only

- Tolerance of mating dimensions complies with EN 735 standard
- Inlet & Outlet Flanges in accordance with ANSI 150 lbs / DIN EN 1092 - 2

Pump Designation

PTT - G A - 32 - 160 / 150

150

Actual Impeller Diameter in mm

160

Normal Impeller Diameter in mm

32

Normal Width of Outlet nozzle

A

N - Version with bearing bracket, volule casing ax/top

A - Closed coupled version, volule casing ax/top

I - Closed coupled version, inline design

G

G - Mechanical Seal

M - Magnetically coupled

PTT

Denomination of Series

Available sizes

Bearing Bracket	Max Power	Size		
360	37 kW	32 - 160	32 - 200	32 - 250
		40 - 160	40 - 200	40 - 250
		50 - 160	50 - 200	50 - 250
		65 - 160	65 - 200	80 - 160
470	75 kW	65 - 250	80 - 200	80 - 250
		100 - 160	100 - 200	100 - 250
		125 - 200		

We also Manufacture :

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Internal Lobe Pumps
External Gear Pumps
External Lobe Pumps

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PUMP

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