



HORMA PUMPS (PTY) LTD

**Pump Reconditioning and
General Engineering**

HPS

Horizontal Split Case Centrifugal Pump



HPS Series pumps, are single-stage double suction split case centrifugal pumps designed for applications of clean water or similar liquids without solids in water works, municipal and industrial projects, as well as mines, power plants and agricultural irrigations etc.

The horizontal installation constructed with the suction and discharge nozzles located in the lower part and in right angle to the pump shaft central line, makes it convenient to pull out the rotor after removing the pump cover when maintaining and repairing without disturbing the inlet and outlet piping. Medium contacted parts are selectable from ductile cast iron, cast steel and stainless steel upon request.



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FEATURES

- Standardized design with generalized products series.
- Double volute casing construction perfectly balances the radial forces, ensuring minimal shaft deflection lowered bearing loads.
- Double suction impeller design appropriately balances the axial forces with each impeller balanced statically and dynamically in accordance with ISO1940.
- Flanges are drilled to meet GB, ISO, DIN, BS or ANSI standards.
- Deep groove ball bearings are grease lubricated and sealed for life with optional oil lubrication available upon request.
- Shaft sealing with uncoiled soft packing or single-action unbalanced mechanical seal in accordance with DIN 24960, independent of rotation direction. Balanced mechanical seal shall be applied for operating pressures higher than 16 Bar.

Model Nomenclature

E.G. HPS300-125-290
 HPS — Split Case Centrifugal Pump
 300 — Suction Dia. (mm)
 125 — Discharge Dia. (mm)
 290 — Impeller DN (mm)

Materials of Construction

GB

DIN

Volute Casing & Cover

Cast iron	HT250	GG-25
Ductile Cast Iron	QT400-18	GGG-40
Cast Steel	ZG230-450	GS-C25

Impeller

Cast iron	HT250	GG-25
Bronze	ZCuSn10Si2	G-CUSn10Zn
Brass	ZCuSn16Si4	G-CuZn15Si4
Stainless Steel	ZG1Cr18Ni12Mo2Ti	1.4581

Shaft

Carbon Steel	45#	C45N
Cr Steel	2Cr13	1.4021

Casing Wear Ring

Cast iron	HT250	GG-25
Bronze	ZCuSn10Si2	G-CUSn10Zn
Brass	ZCuSn16Si4	G-CuZn15Si4

Performance Data

Pump Size:	DN 80 ~ 800
Flow Range:	Q up to 2800l/s
Head Range:	H up to 220m
Operating Pressure:	P up to 25 Bar
Liquid Temperature:	t up to 105°C

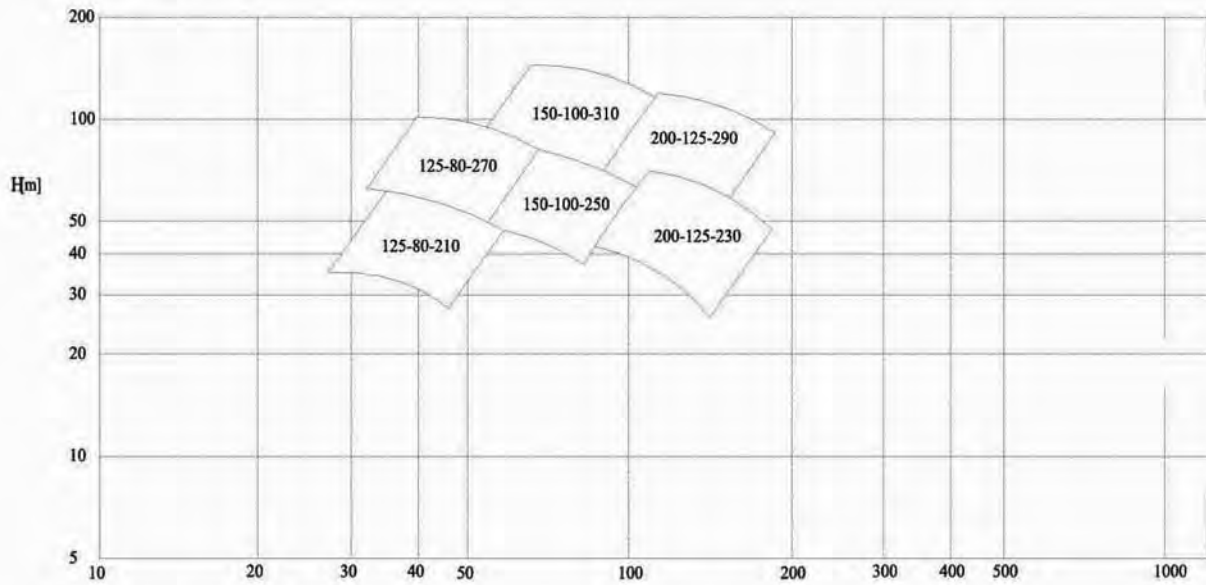


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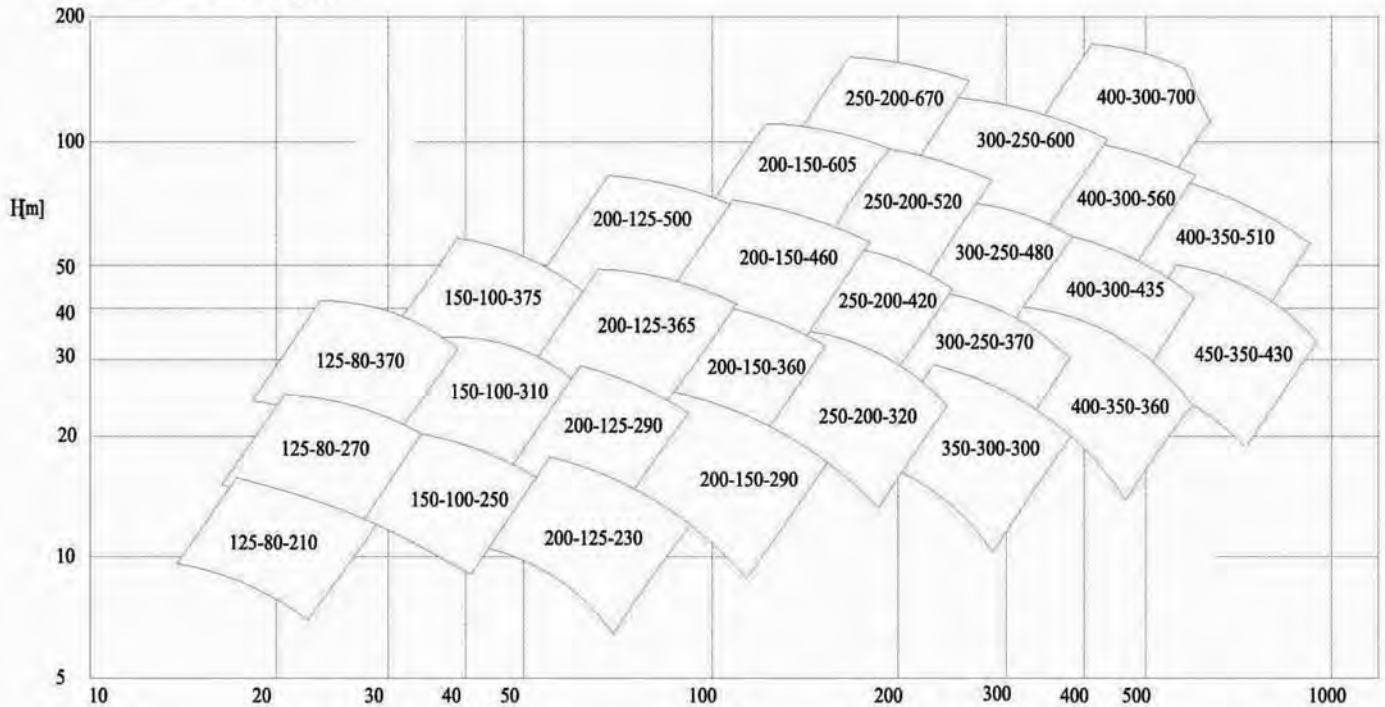
Family Curves 50Hz

n=2900 rpm



Q [l/s]

n = 1450rpm



Q [l/s]



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Family Curves 50Hz

n=980 rpm / 740 rpm

