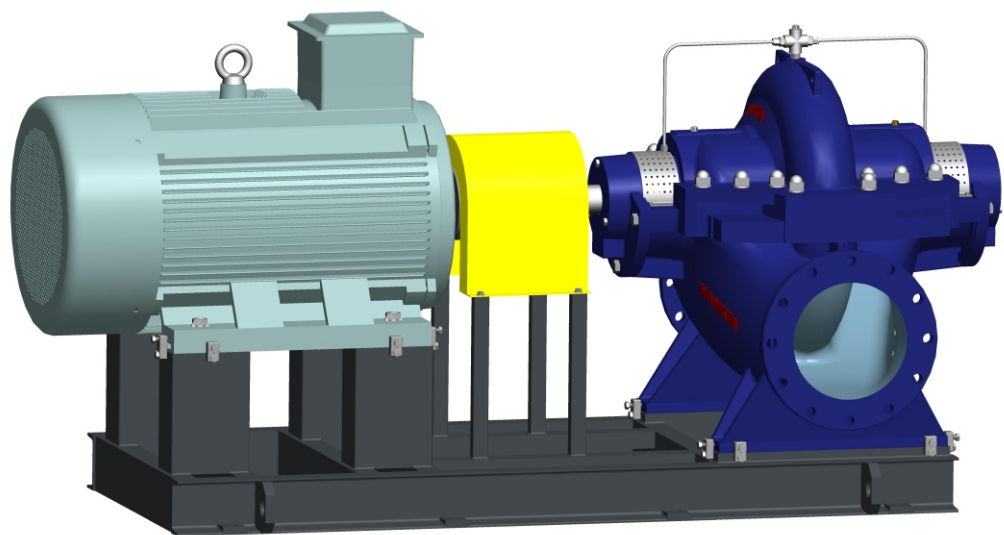


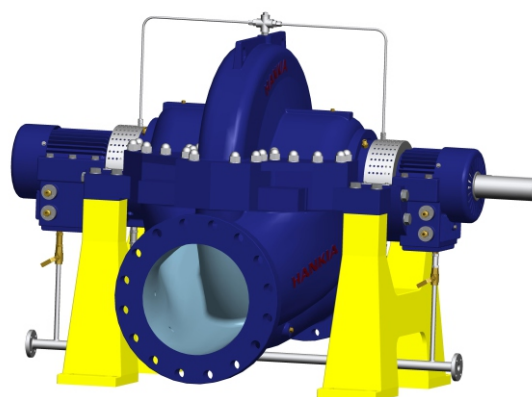
DS type **Single stage ,Horizontal** **Axially split case double suction pump**



- High efficiency and low pulsation
- Wide performance range with up to 280m head
- Stable service and low maintenance
- Heavy duty design and long life span
- Options for CW /CCW rotation
- Fine production and shortest downtime



Foot support



Centerline support

General Description

DS is the horizontal single stage axial split casing centrifugal pumps with double suction impeller. The casing is axially split, so it allows to maintain the pump without dismantling the pump from the whole water system. It has reasonable compact structure and can rotate clockwise or anti-clockwise to meet the different site condition. The shafts are sealed by reliable mechanical seal or gland packing. According to different applications, the bearings can be lubricated by grease or thin oil. DS pump is excellent split case pump that are widely used in large amount water transportation, water lifting, fire fighting in water plant, offshore project, mining, factories and so on.

Performance Data

- Capacity: up to 25200m³/h
- Head: up to 280m
- Speed: 490r/min~3600r/min
- DN Size: up to Dn1400mm
- Power: 0.55~3000kW
- Medium temperature: <160°C
- Frequency: 50~60Hz
- Driver: electric motor or diesel engine
- Standard: DIN, ISO
- Flange connection: DIN, ANSI, BS, JIS, GB

Main Application

- Water Plant
- Water extraction and transport
- Agricultural Irrigation
- Power Station and nuclear power station
- Offshore Projects and sea water
- Air-conditioning and heating
- Fire Fighting
- Water Circulation
- Mining and steel plants
- Buildings

Material Available

Casing

Cast iron
Ductile cast iron
Ni-resistant cast Iron
Cast steel
AISI304
AISI316
AISI316L
Duplex stainless steel

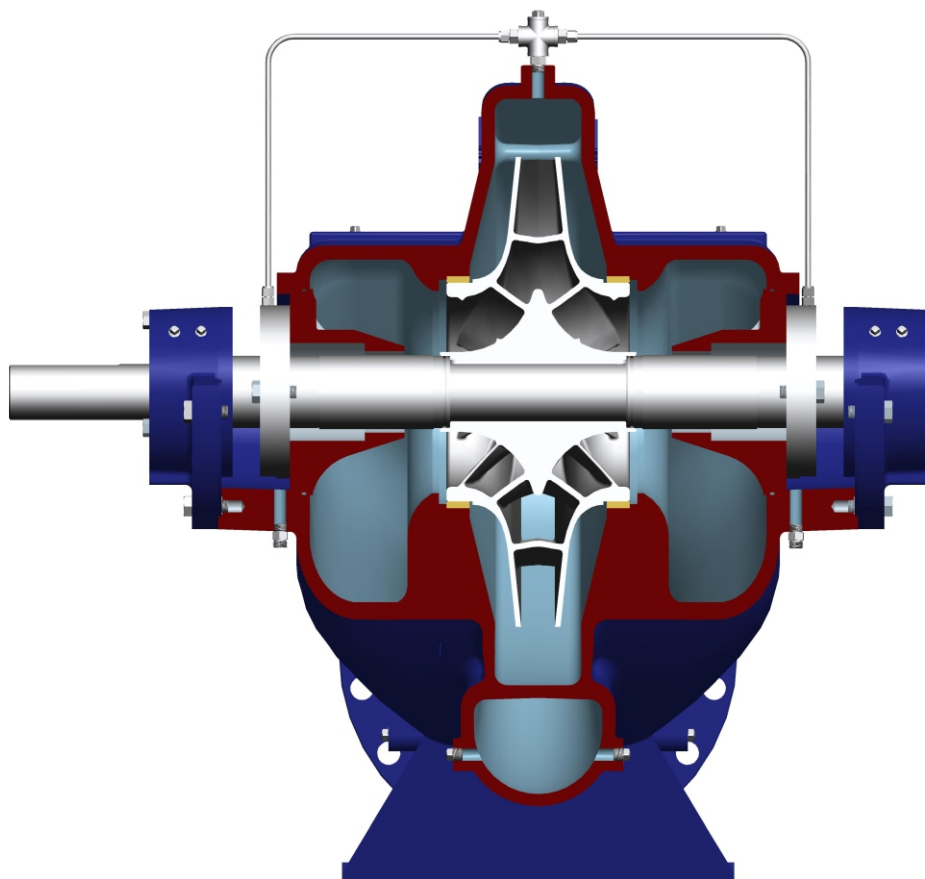
Impeller

Cast iron
Ductile cast iron
Ni-resistant cast Iron
Cast steel
Bronze
AISI304
AISI316
AISI316L
Duplex stainless steel

Shaft

Carbon steel ASTM1045
AISI304
AISI316
AISI316L
Duplex stainless steel

■ **Design features**



Heavy design axially split case

Double volute casing (size dependent) avoid the radial hit to the rotor so prolong the life time of the pump and more reliable performance. Casing is axially split, so it is easy to do maintenance the replace the parts.

Optimized double suction impeller

The double suction impeller has optimized hydraulic performance and high efficiency. The double suction remove the axial hydraulic thrust to the rotor and protect the pump.

Stuffing box and positive sealing

The positive sealing is from the impeller, shaft sleeve and casing ensure non-leakage. The stuffing box is suitable to single mechanical seal, cartridge seal and soft packing

Bearing assembly

Bearings are standard with greased type rolling element from SKF /FAG /NSK / NTN. The oil lubrication type and sleeve type bearing is optional if it is necessary or being requested.

Renewable wear ring

The renewable wear ring is positioned to the casing by the pins, easy to replace. Casing wear ring is optional if it is necessary.

Reinforced shaft

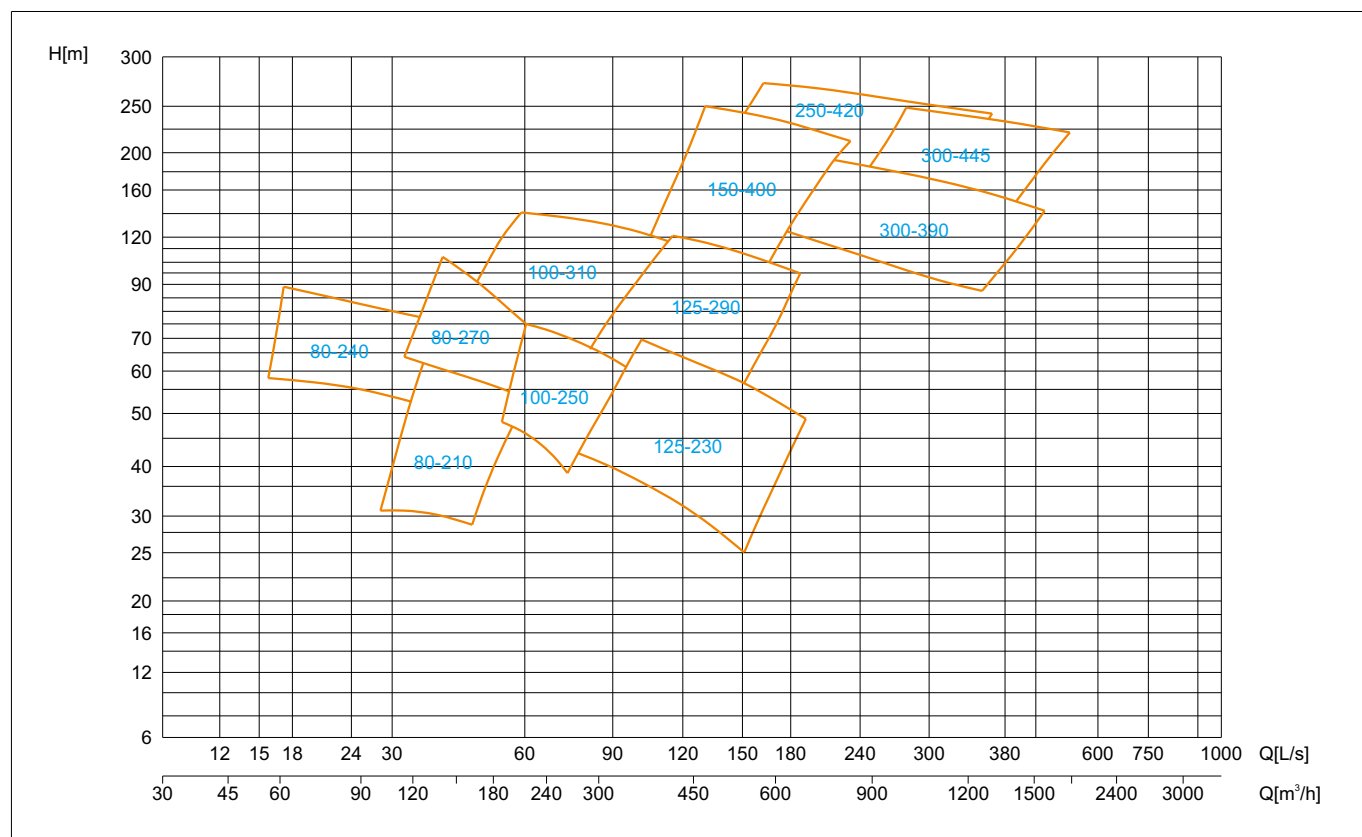
The shaft is designed for heavy duty service driving and suitable for constant speed and variable speed driver.

Shaft sleeve

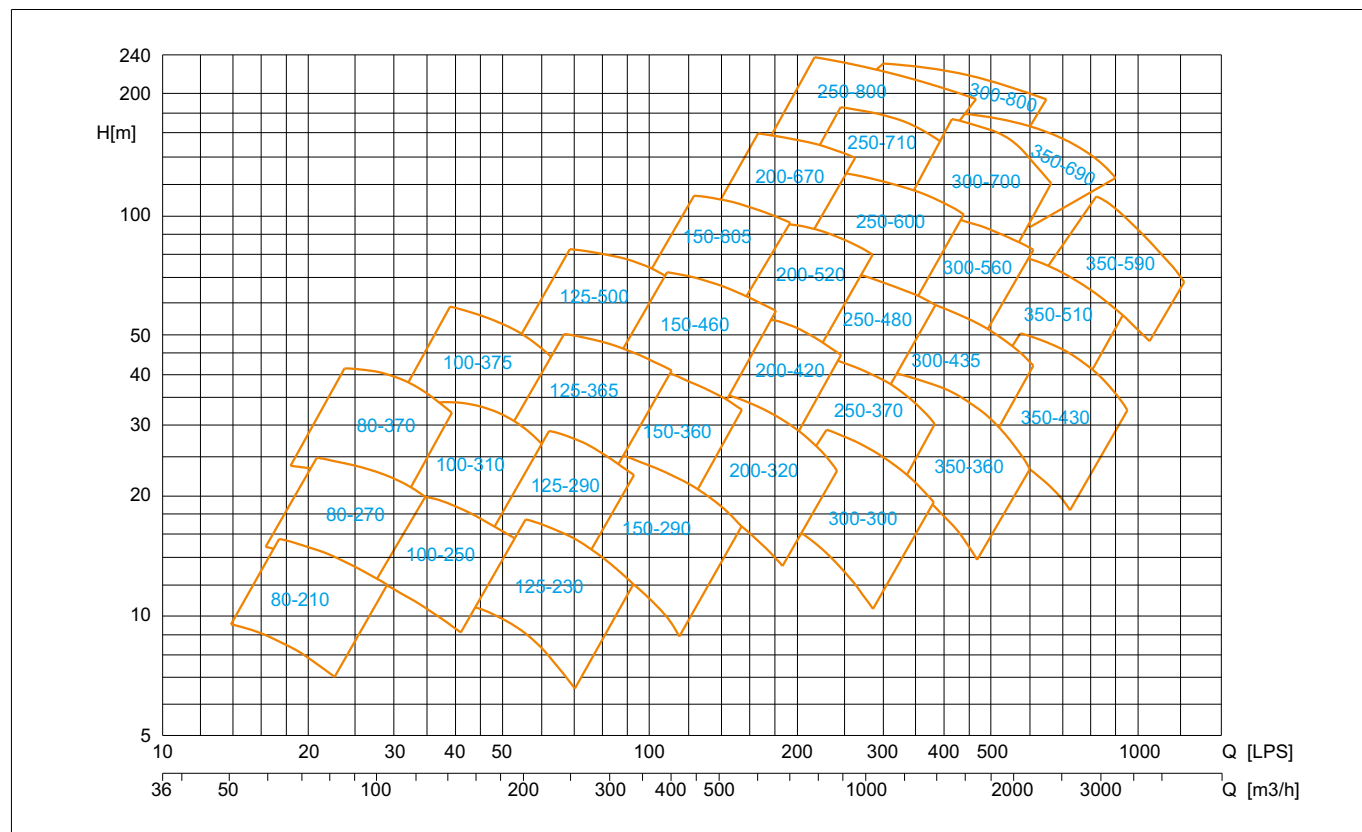
Stainless steel or bronze protect the shaft. There is O-ring between the sleeve, impeller and shaft.

■ Selection Chart (50Hz)

n=2900r/min

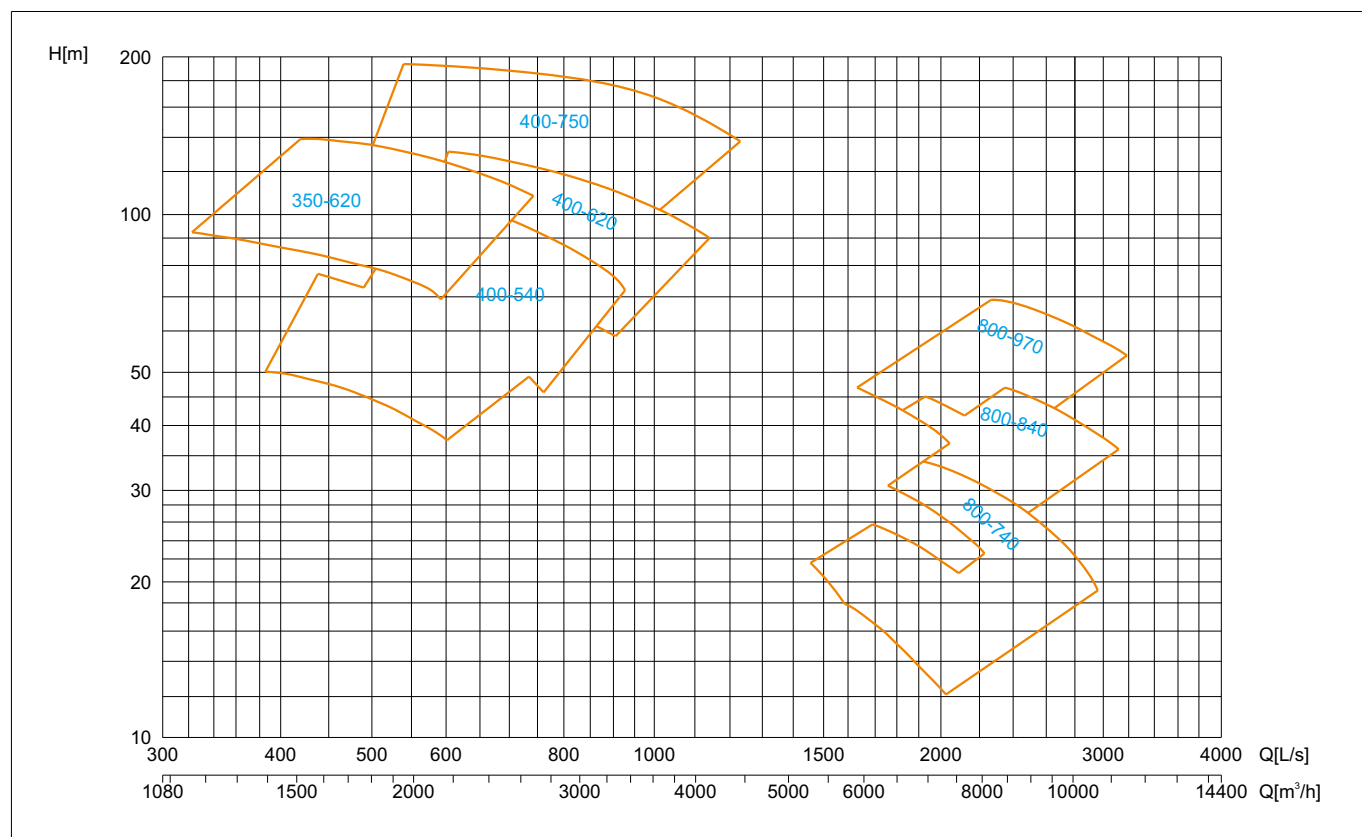


n=1450r/min

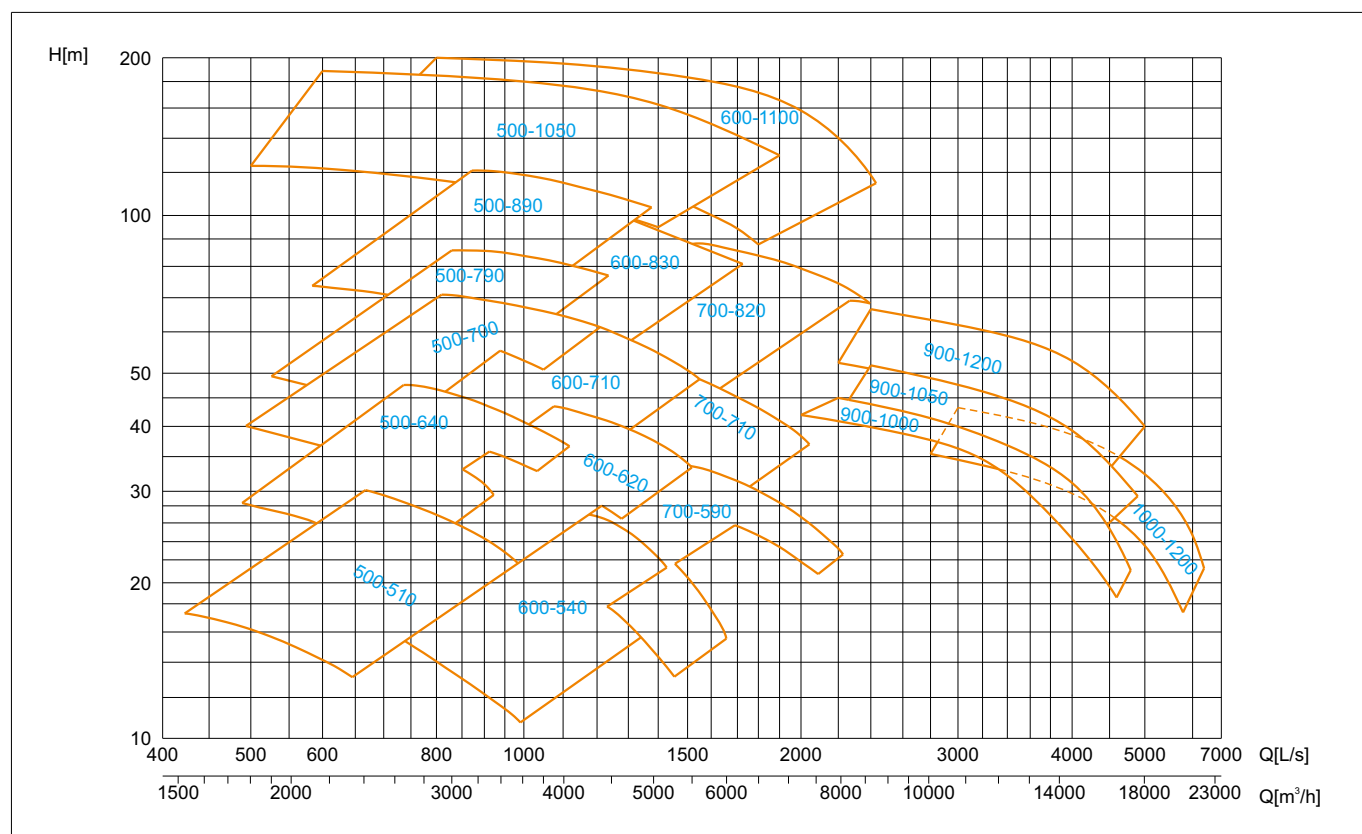


■ Selection Chart (50Hz)

n=1450r/min, 725r/min

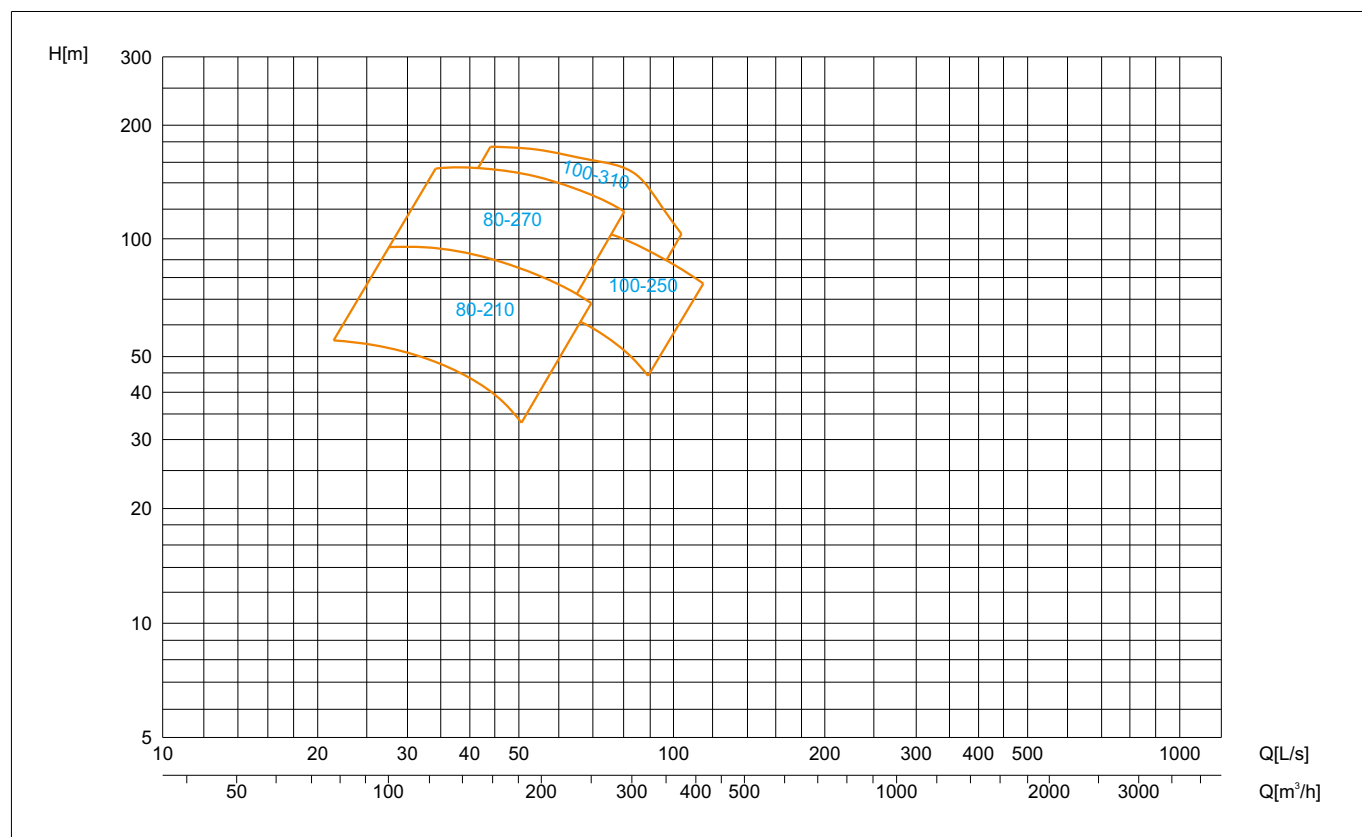


n=960r/min, 590r/min, 490r/min

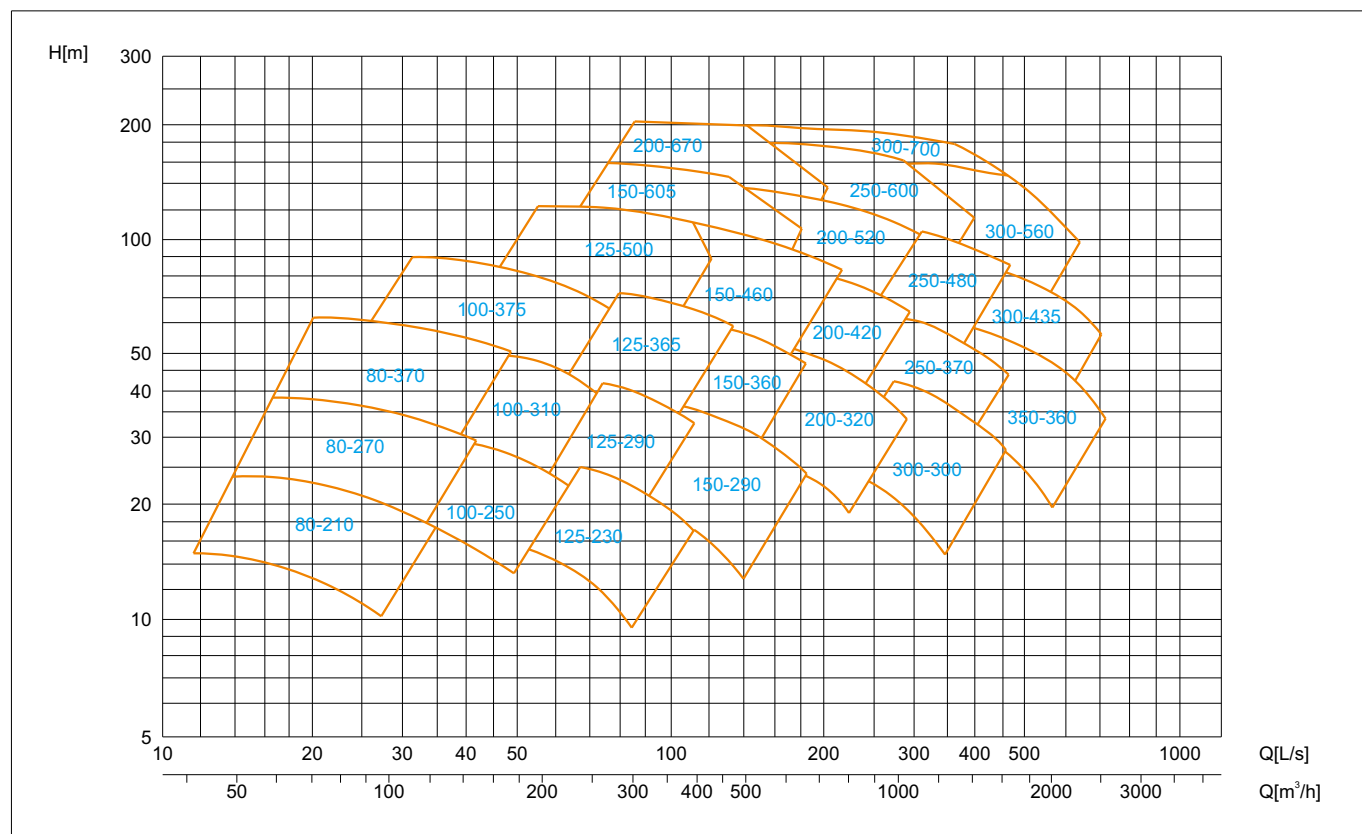


■ Selection Chart (60Hz)

n=3500r/min

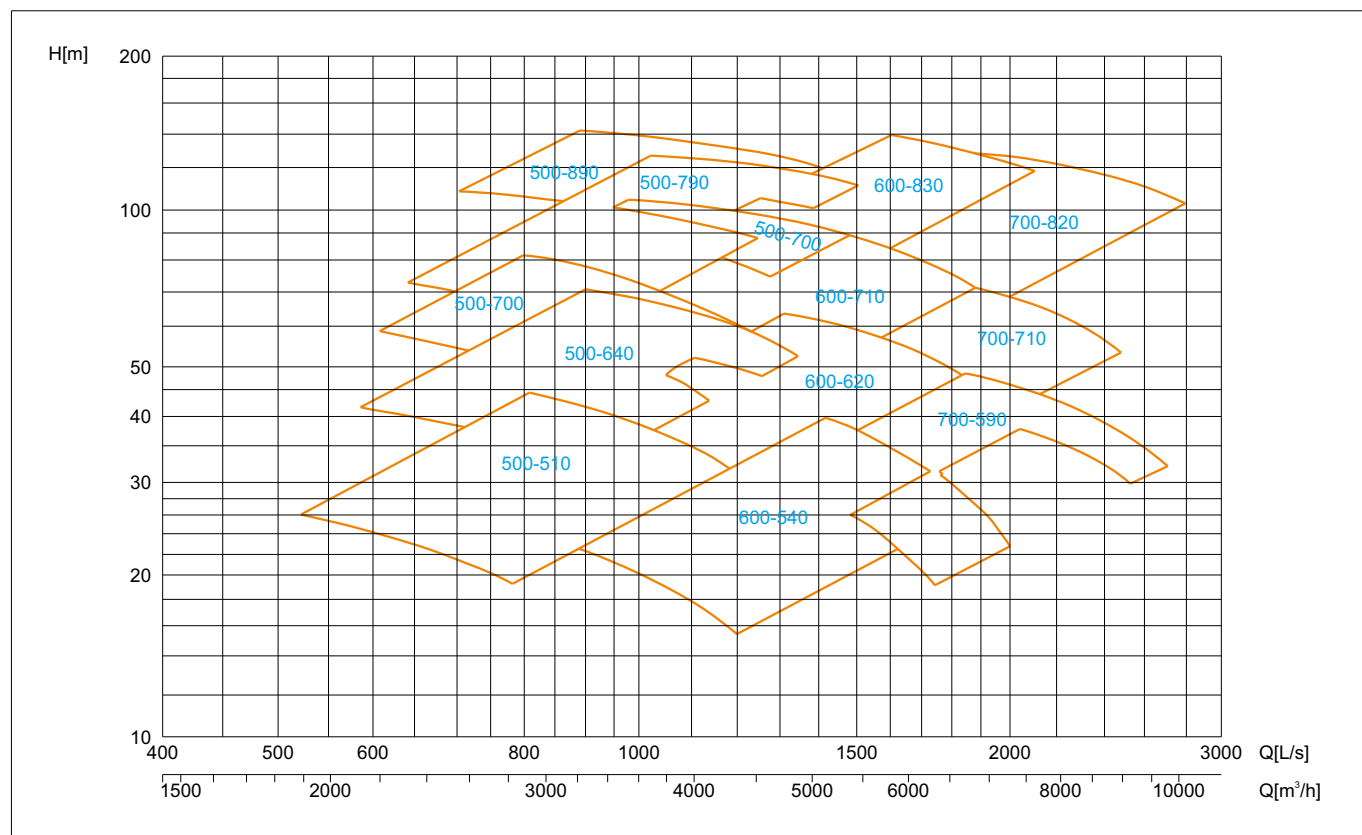


n=1750r/min

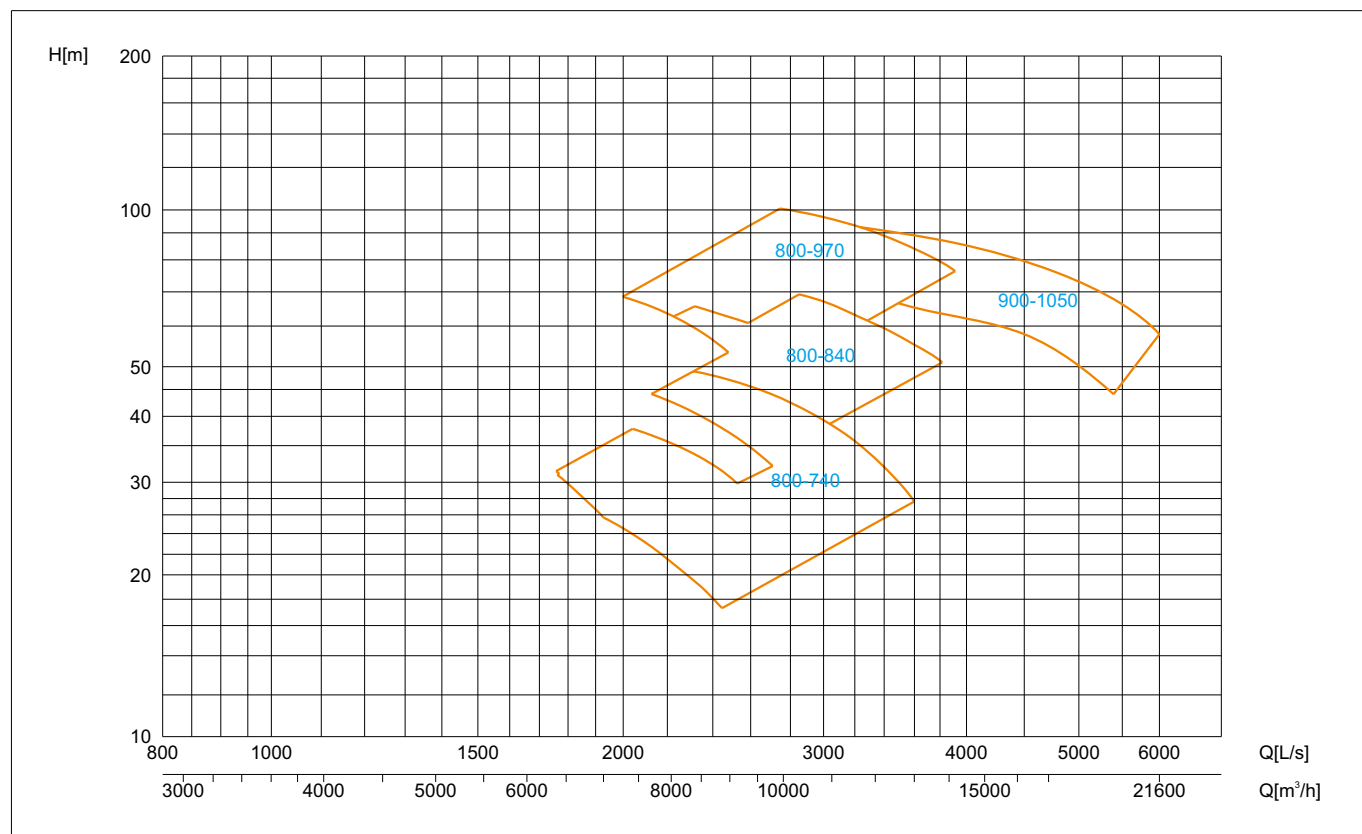


■ Selection Chart (60Hz)

n=1160r/min

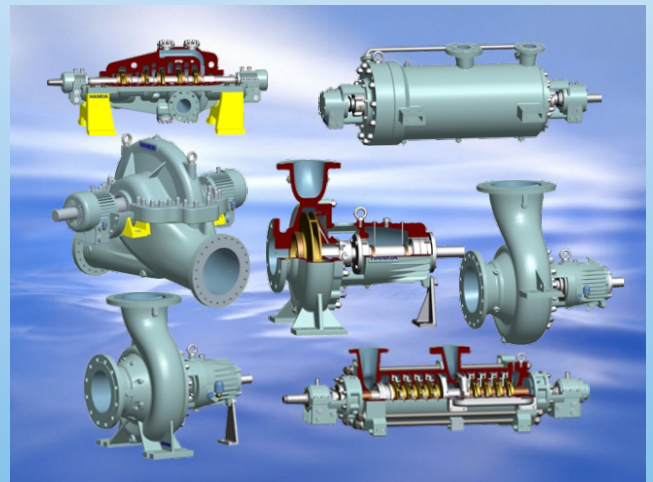


n=880r/min, 710r/min



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