

**SJT (Geo) for
Geothermal Production Hot Water**

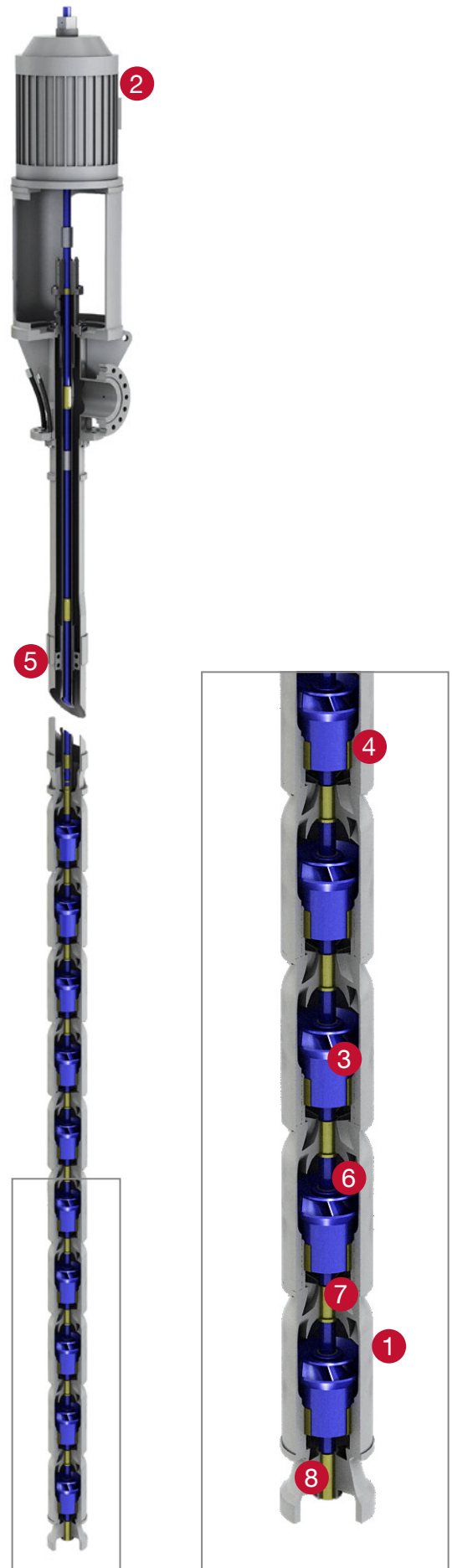


Main Applications

Sulzer SJT (Geo) are designed for geothermal production hot water in shallow wells.

Features and Benefits

- 1 Maximum achievable output flow for 12" nominal bowl diameter (externally machined to 11 5/8")**
 - Increased well production flow up to 680 m³/h (3,000 USgpm)
 - Fitting into 13 3/8" wells
- 2 Designed for variable speed drive motors. Speeds up to 2,200 rpm**
 - Increased performance
 - Smooth start-up and stop
- 3 Bowls and impellers with extended endplay up to 5 1/2"**
 - Better adaptable to the different stretch rates of the outer & inner columns and pump shaft
 - Pump lengths up to 650 m (2,150 ft)
- 4 Bowls provided with replaceable wear rings. Impellers with integral wear rings**
 - Extended clearances to ease assembly and disassembly
 - Long skirt for the axial endplay adjustment
- 5 Increased design temperature**
 - Suitable for medium/high enthalpy hydrothermal resources
- 6 Impeller fixation by tapered split lock collets**
 - Lock collet in top bowl limits the pump shaft upwards travel
- 7 Pump shaft diameter 2 3/16" in 17-4 PH H1150. Pump shaft section lengths limited to 6.1 m (20 ft)**
 - Suitable for power transmission up to 1,100 kW (1,475 hp)
 - Number of stages limited by torque transmission
 - Intermediate threaded couplings to ease dismantling
- 8 Bowl and suction case bearings with straight grooves**
 - Product lubricated



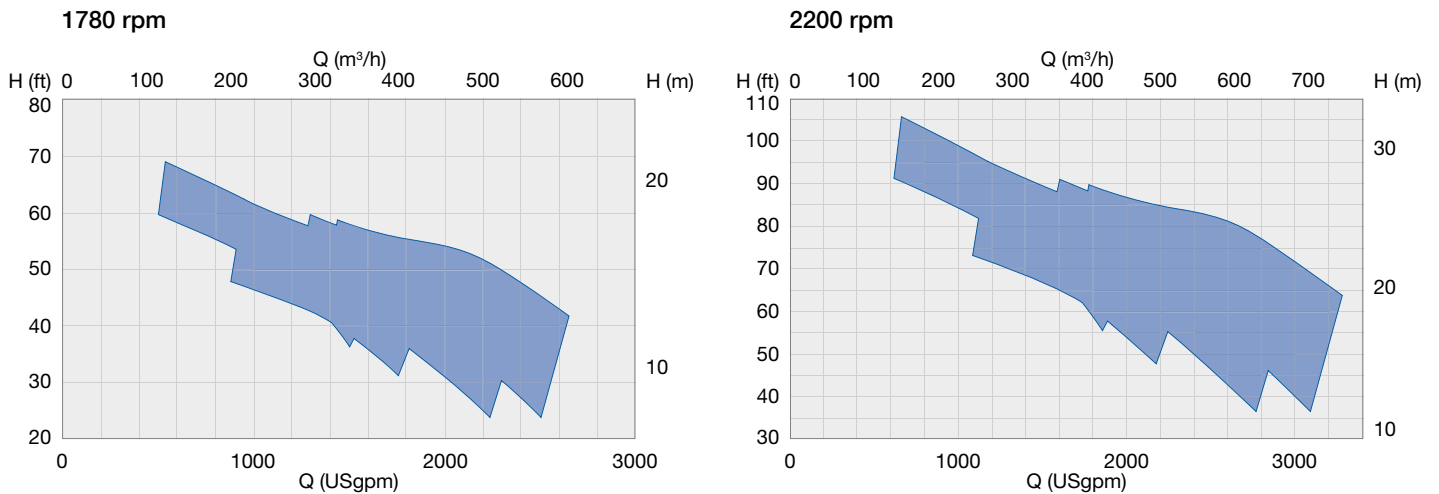
SJT Geo



Operating data

50 Hz		60 Hz
up to 295 mm	Bowl sizes	up to 11 5/8 in
up to 680 m ³ /h	Capacities	up to 3,000 USgpm
up to 700 m	Heads	up to 2,300 ft
up to 100 bar	Pressures	up to 1,450 psi
up to 220°C	Temperatures	up to 428°F

Performance ranges



Materials

Pump part	Material
Bowl	Ductile iron, chrome steel class A and B
Impeller	Chrome steel class A and B
Shaft	17-4 PH



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