

S2000N ESP pump

High-reliability pump, reinforced to improve ESP performance in sandy environments

Casing diameter:
7 in or larger

Target production rate:
200–2,500 bbl/d at 60 Hz
[106–305 m³/d at 50 Hz]

Applications

- Conventional offshore and land wells
- Abrasive or sandy production

How it improves wells

Improves ESP performance and lifetime in sandy environments

How it works

The S2000N pump has a modified compression design that reduces risk of sand erosion and ensures a smoother flow transition at a key area of flow passage. This eliminates the performance losses common for conventional pumps in conditions that promote sand production.

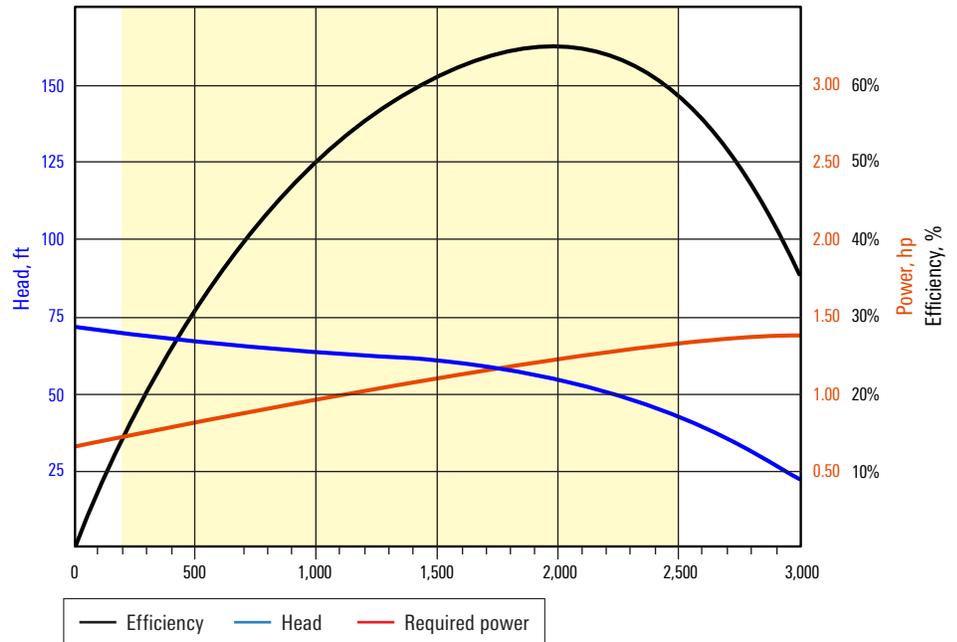
What it replaces

Conventional ESP pumps

Additional information

From simplifying installation to meeting temperature and viscosity demands, Schlumberger has the right ESP for conventional, unconventional, high-temperature, intervention-constrained, and offshore requirements. Maximize production, increase run life, and ultimately reduce system life cycle costs with a selection of fit-for-purpose ESP systems.

Access to Schlumberger engineering expertise further optimizes ESP well performance. Conveniently located assembly, repair, and testing centers provide quick delivery and assistance in all major oil and gas operating areas. Artificial Lift Surveillance Centers monitor alarms 24/7/365 for rapid diagnostics, recommendations, and troubleshooting.



S2000N pump performance curve at 60 Hz with $sg=1$.

S2000N Pump Specifications

Best efficiency point (BEP)

Flow rate, bbl/d at 60 Hz	1,975
Head per stage, ft at 60 Hz	54.35
Required power, hp	1.23
Efficiency, %	65.10

General

OD, in [mm]	5.38 [136]
Stage geometry	Mixed flow
Recommended operating range, bbl/d at 60 Hz [m ³ /d at 50 Hz]	200–2,500 [106–305]
Burst pressure, psi [kPa]	6,000 [41,368]
Stage metallurgy	Ni-Resist® or 5530 high-nickel, corrosion-resistant alloy
Housing metallurgy	Carbon steel or Redalloy* premium alloy
Shaft diameter, in [mm]	0.87 [22]
Shaft material rating at 60 Hz, hp	410 (INCONEL® 718)
Shaft radial support option	ARZ abrasion-resistant zirconia bearing; tungsten carbide bushing and sleeve
Radial bearing material	Tungsten carbide
Pump construction	Modified compression design, factory shimmed