intrax Providing pump solutions to industry, globally

TORO robust pumping power

6 Advantages of ANSI Pumps in Handling Solid and Crystalline Fluid Applications

In applications involving the presence of solids or crystallising fluids, such as brine pulps, pumps built under the ANSI standard offer several advantages over ISO standard pumps. Here's a breakdown of these benefits:

- **Semi-Open Impellers:** ANSI pumps feature semi-open impellers that reduce downtime due to brine encrustations on the impeller. This is in contrast to most ISO pumps which typically have closed impellers.
- **Thick Casing:** The substantial thickness of the ANSI pump casing provides enhanced resistance to abrasion, corrosion and high pressures.
- **Double-Row Bearings (Motor Side):** Double-row bearings on the motor side ensure greater resistance to axial and radial loads.
- **Back Vanes and Balancing Holes in Impellers:** The presence of back vanes and balancing holes in the impellers leads to lower axial and radial loads, thereby improving the pump's lifespan.
- **Larger Diameter Bearings:** ANSI pumps are equipped with larger diameter bearings suitable for high-demand applications.
- **High Structural Robustness:** The high structural robustness of ANSI pumps ensures an excellent lifespan, particularly in demanding industries such as Mining, Oil & Gas and various industrial processes.