

Create Custom Flow Equipment in Minutes

AI-powered operating system for energy system design

IMPELLIX accelerates engineering cycles from months to minutes. AI-driven parametric platform for custom pumps, valves, and flow equipment – with simulation, material intelligence, and manufacturability built in.

8-12 weeks to hours

99% faster

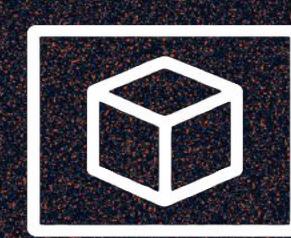
CAD, BOMs, CNC specs

Build-ready

LNG, hydrogen, CCUS

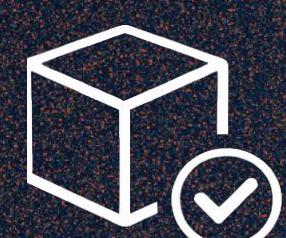
Extreme reliability

Our Core Capabilities



3D reconstruction workflows

Unique proprietary algorithms



Deterministic validation guardrails

- Proprietary IP
- Industry standards adherence
- Non-Compliance detection



Multi-Physics simulation

- Automated CAD re-designed
- Design recommendations

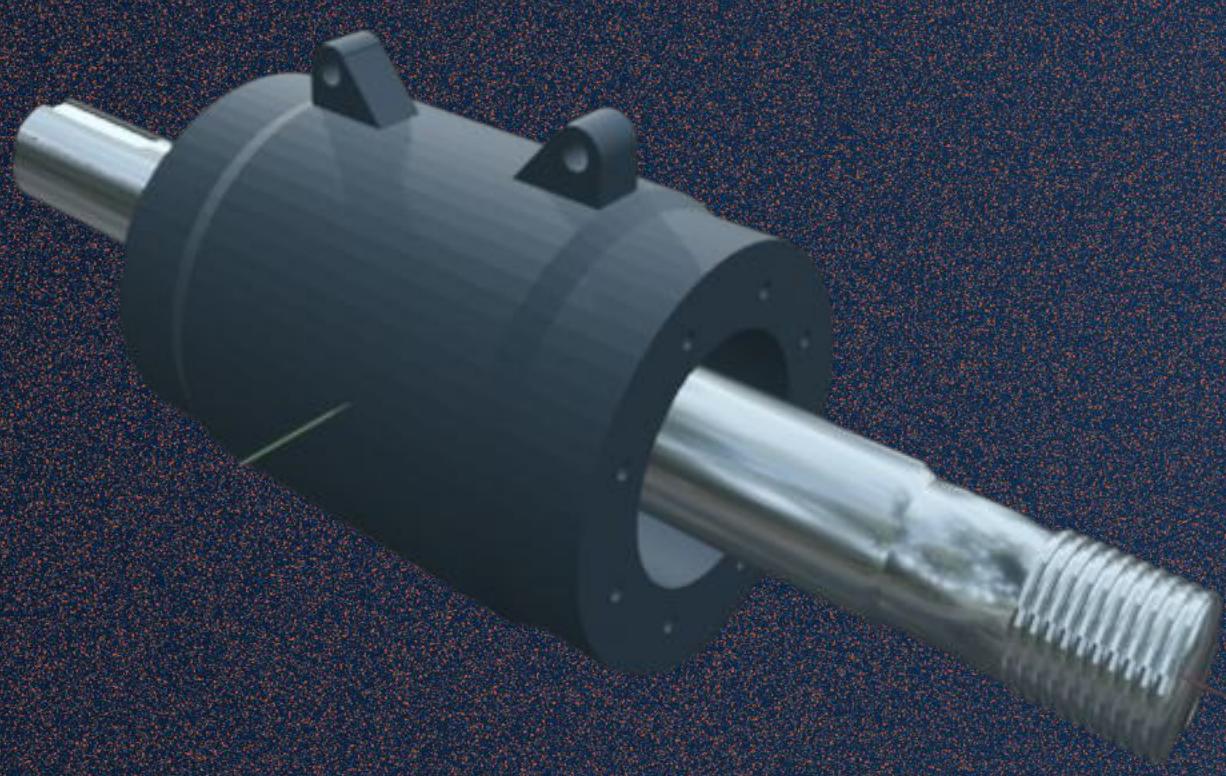
How it works:

Generate a 3D CAD of a slurry pump shaft 1000mm length, 100mm OD with its full bearing assembly

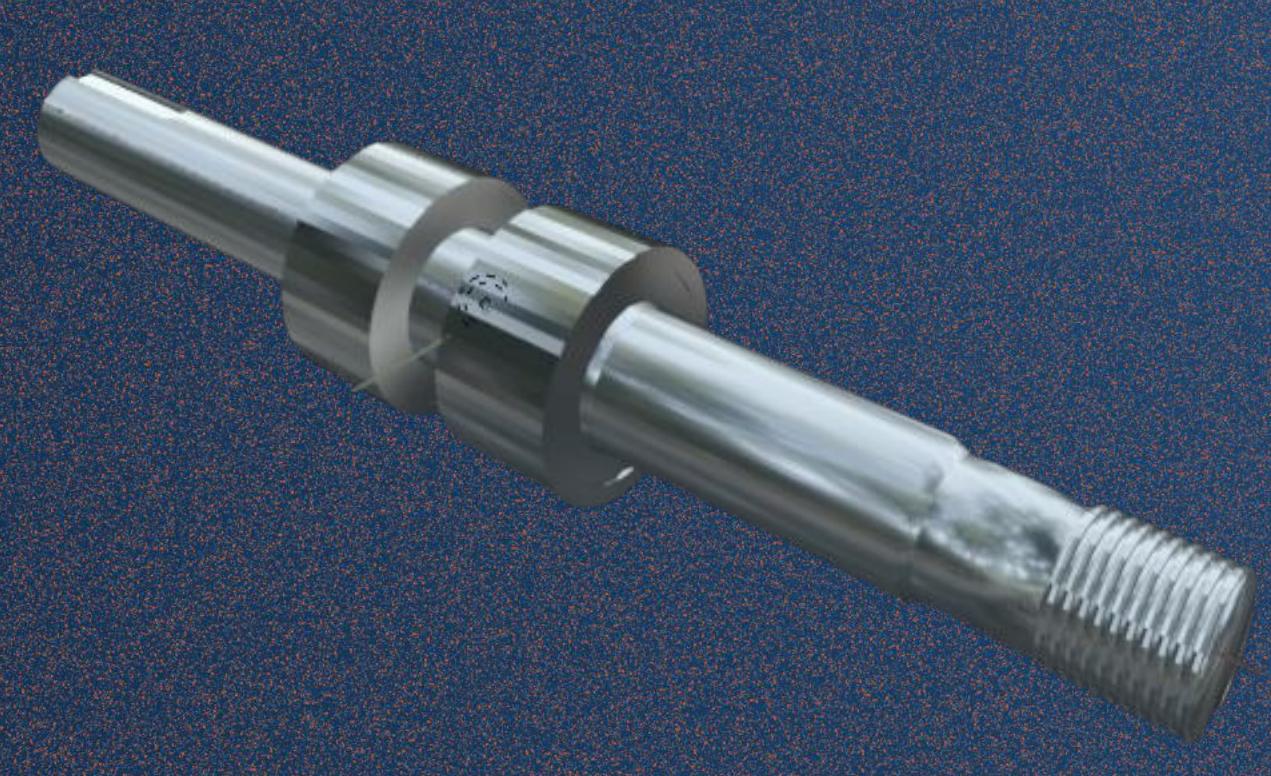
1 | Shaft



2 | Housing Assembly



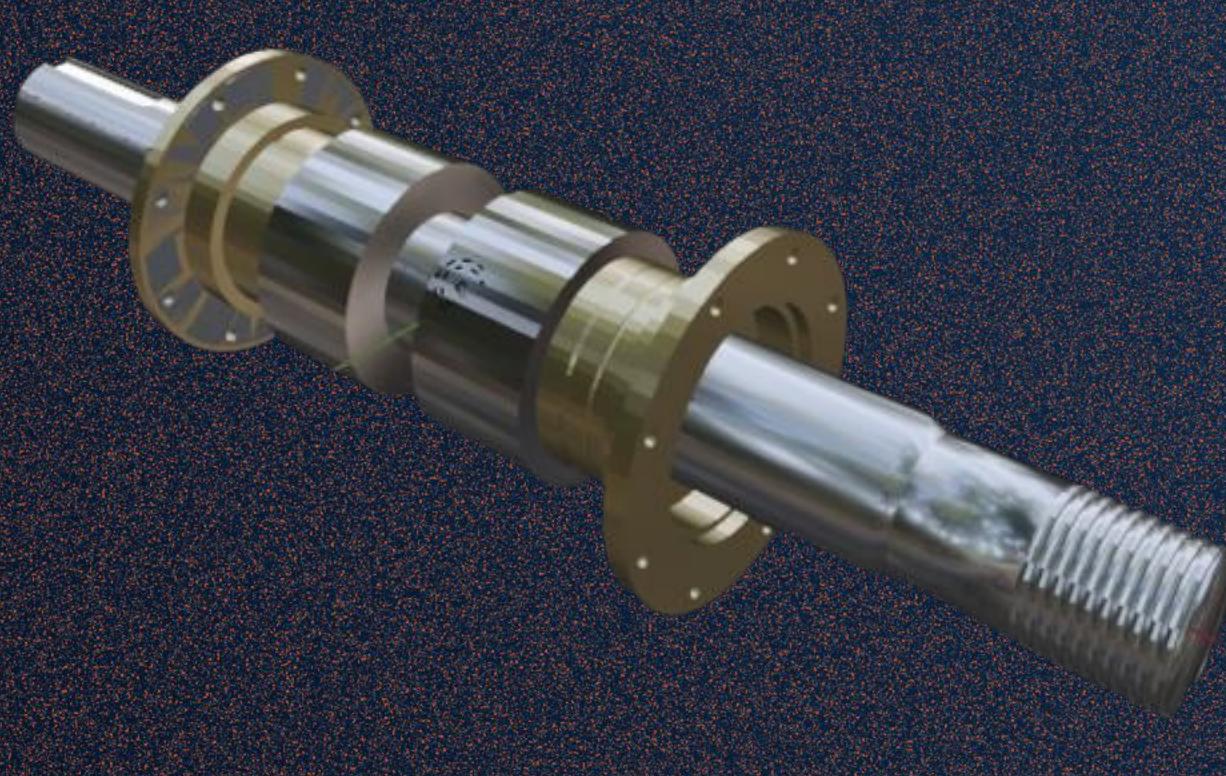
3 | Bearings



4 | Labyrinths



5 | End Cover



6 | Full Assembly

