

TESTING CAPABILITIES FOR POSITIVE DISPLACEMENT PUMPS

INTERNATIONAL PROVING AND CERTIFICATION, BASED IN INDIA



Positive displacement pumps used in naval applications must be tested and certified to international standards, ensuring that they meet the exacting requirements of war ships and military vessels. Regional access to testing and certification is critical. When new or remanufactured pumps are required for shipboard duty, it's neither practical nor timely for testing and certification to be done half a world away.

Colfax Fluid Handling and our Tushaco business have established testing capabilities in Mumbai, India that meet the stringent international testing standards to which navies throughout the world subscribe. These include ABS, NATO, ISO, DNV, DIN & MIL specifications.

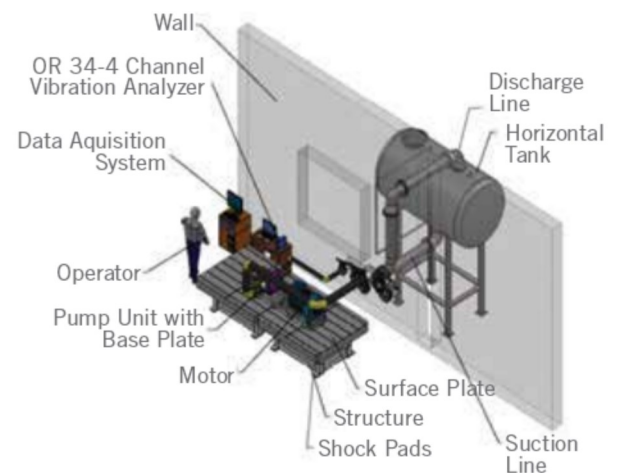
BUILT TO WORLD-CLASS CAPABILITIES

Specifically designed for the Indian market, based on designs established in France and the United States, Colfax Fluid Handling now offers a Vibration Isolated Test Stand at the Mumbai facility. The Stand provides positive suction to pumps undergoing tests through the application of 5,000 liters of ISO VG 68 stored at a height of three meters. Suction and discharge lines are permanently fixed at heights that ease operation. Optional water testing may also be performed. Cast-iron 1.8 ton platforms are mounted on specially-designed shock mounts to isolate surrounding vibrations that help ensure accurate testing. Each platform is designed to accept additional two ton loads. Platforms are machined with t-slots to allow base frames of pumps and motors to be clamped.

With the Vibration Isolated Test Stand, the following tests can be performed:

- › Endurance test – a rigorous performance test that operates a pump for 24 hours and/or 100 hours at duty pressure
- › Tilt test – a test that ensures a pump performance at 20° in all directions
- › Mechanical vibration test – a test that monitors pump performance while operating under vibration to ensure integrity
- › Environmental tests – various tests that make certain that equipment operates properly under on-board ambient conditions
- › Air Borne Noise (ABN) and Structure Borne Noise (SBN) – ABN tests are carried out to MIL-STD-1474D and SBN tests carried out to MIL-740-2 (SH) standards

VIBRATION ISOLATED TEST STAND



SPECIFICATIONS

- › **Maximum discharge pressure:** 16 bars
- › **Flow:** 40 lpm (10.5 GPM) to 8,000 lpm (2,100 GPM)
- › **Power Supply:** 440 volts AC 50 Hertz, 440 Volts 60 Hertz
- › **Variable Frequency Drive:** 37kW, maximum 50kW if required
- › **Maximum flow pressure capability:** ISOVG 68; 68cSt
- › **Maximum weight:** 3-4 tons

SINGLE SOURCE CAPABILITIES

Colfax Fluid Handling is your partner in providing fluid handling solutions for all naval applications including flight deck, superstructure, engine room and gun turret. With over 70 years of experience, we offer:

- › Complete navy pump packages
- › Local support and a global organization to provide a comprehensive product range and resources plus fast and reliable support
- › Manufacturing to European and US standards that deliver high quality NATO-codified parts
- › Teams of experts that provide complete design, engineering, testing, documentation and packaging solutions
- › Guaranteed lifecycle support
- › Fast and reliable global service
- › Certified quality assurance



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