



ITT

Engineered Pump Test Facilities



Engineered for life

EXPERTISE

For over 150 years, our engineers have worked closely with industry leaders world wide to develop innovative products and technologies that optimize the life cycle, reliability, and performance of equipment. ITT Goulds is recognized as the premier supplier of pumps, controls and monitoring, and services to the global market place.

RELIABILITY

State-of-the-art testing facilities, strategically positioned around the world, provide you with the confidence that our equipment will meet or exceed customer expectations. Verification of both hydraulic and mechanical performance ensures optimal and reliable operation.

Full train testing capabilities assure the mechanical integrity of the full pumping train, providing confidence that the equipment will function properly in the field. Full train tests typically include a full mechanical run simulating field conditions such as start up, variable speed operation, shut down, etc.

CUSTOMER FOCUS

Through continuous research and development activities and new product innovation, ITT Goulds Pumps strives to meet new, demanding challenges customers face in today's world.

ITT Goulds market, product, and service teams create and implement technical and commercial solutions meeting our customers' demanding performance needs.

CHEONGWON, KOREA



TESTING TO INDUSTRY STANDARDS

Testing is conducted in accordance with Hydraulic Institute (HI) Standards, API-610 Standards, ISO 13709, ITT Goulds internal test procedures and specific customer requests.

Every test is documented with a test report that includes a performance curve indicating flow and head with optional NPSHR, noise, temperature, and vibration data. All calibration records for equipment used in testing are available for inspection upon request.

Data Acquisition Equipment:

Flow Measurement

- Rosemount Magnetic Flow Meter
- Venturi Tubes

Pressure Measurement

- Pressure Transducers and Gauges

Power Measurement

- Torque Meters
- Calibrated Lab Motors
- Efficiency Tested Job Motors

Vibration Analysis

- SKF Micro log
- Full Spectrum Vibration Analysis is available

Noise/Sound Analysis

- Bruel & Kjaer Sound Calibrator and Meter

COMMITMENT TO SAFETY AND ENVIRONMENT

As an industry leader, we strive to live our values and beliefs in safety and environment stewardship. By improving energy efficiency, performance, and equipment life cycle, we ensure a minimal impact on the environment and maximum effect on your profitability.

INDUSTRY COMMITMENT

ITT Goulds is proud to offer the broadest selection of pumps in the industry. We configure your pumps to meet industry standards and ensure your most demanding requirements efficiently and cost effectively. Reliability and safety are two guiding principles at ITT Goulds. Our research engineers and test facilities are here to support you.

ITT has state-of-the-art pump testing facilities that enable us to test the full range of pump types and sizes we manufacture. Strict adherence to industry standards (API 610, ISO 13709, and Hydraulic Institute [HI]) ensure accurate and consistent test results.

Test Facility Capabilities

TEST FACILITY	Max Flow		Max Horsepower		Max Voltage	Max Pressure	
	GPM	m ³ /Hr	HP	KW		PSI	KPA
Ashland, Pennsylvania, USA	6,000	1,365	500	375	460	250	1,750
Axminster, England	1,210	275	100	75	480	215	1,470
Baroda, India	29,925	6,800	1,500	1,120	690	600	4,140
Dammam, Saudi Arabia	11,000	2,500	1,000	740	4,160	690	4,760
Cheongwon, Korea	20,000	4,520	1,000	750	6,600	600	4,140
Tizayuca, Mexico	14,000	3,180	500	375	460	400	2,770
Nanjing, China	80,000	18,180	1,500	1,120	6,600	1,500	10,400
Pewaukee, Wisconsin, USA	300,000	68,000	5,000	3,800	4,160	150	1,035
Seneca Falls, New York, USA	70,000	15,900	4,600	2,985	4,160	3,000	20,800
Shanghai, China	11,000	2,500	469	350	380	365	2,500
Perto la Cruz, Venezuela	21,000	4,770	2,000	1,500	6,600	1,500	10,400
City of Industry, California, USA	100,000	22,710	2,500	1,870	4,160	250	1,725

TIZAYUCA, MEXICO



SENECA FALLS, NEW YORK, USA



CITY OF INDUSTRY, CALIFORNIA, USA



NANJING, CHINA





PRO Services®
 Extending
 Equipment Life...

3 roduct Repair (all types and brands of rotating equipment)

- Service Center Repair
- Turnkey Repair / Installation
- Field Service
- Emergency Service

5 eliability Improvement

- Predictive Condition Monitoring
- Root Cause Failure Analysis
- Machine & System Assessment
- Engineered Upgrades
- Training

2 ptimization of Assets

- Inventory Management
- Replacement / Exchange
- Maintenance Management
- Contract Maintenance

PROSMART

ProSmart® provides continuous machinery monitoring to identify little problems before they become big problems...like downtime.

Using wireless technology, advanced signal processing capabilities, and easy-to-deploy sensors, ProSmart offers an affordable means to monitor all of your rotating equipment anywhere in the world. By identifying and alerting you to changes in operating conditions, ProSmart increases your time to respond to either correcting the upset condition or properly plan its repair.



Key Features include:

- **Continuous data acquisition and analysis** – ProSmart collects vibration, temperature, and available process conditions every five seconds; saving you time from routine data collection.
- **Automatic notification and accessibility** – By alerting when a machine goes into distress, your able to focus your resources on recovery activities. The ProNet web-hosted solution allows access to information anywhere in the world through a standard internet browser connection.
- **Advanced diagnostic tools** – More than simple overall data, ProSmart provides advanced analysis capabilities such as time-waveform, spectral, and spectral windowing.
- **Easy to deploy** – Using plug and play sensors, wireless connectivity, and an industrially hardened enclosure, ProSmart can be easily deployed throughout your plant, including hazardous areas.



Visit our Web site at www.gouldspumps.com

