



CYIENT

ENGINEERING A GLOBAL ADVANTAGE FOR INDUSTRIAL PRODUCTS

How we work with our clients to help overcome challenges



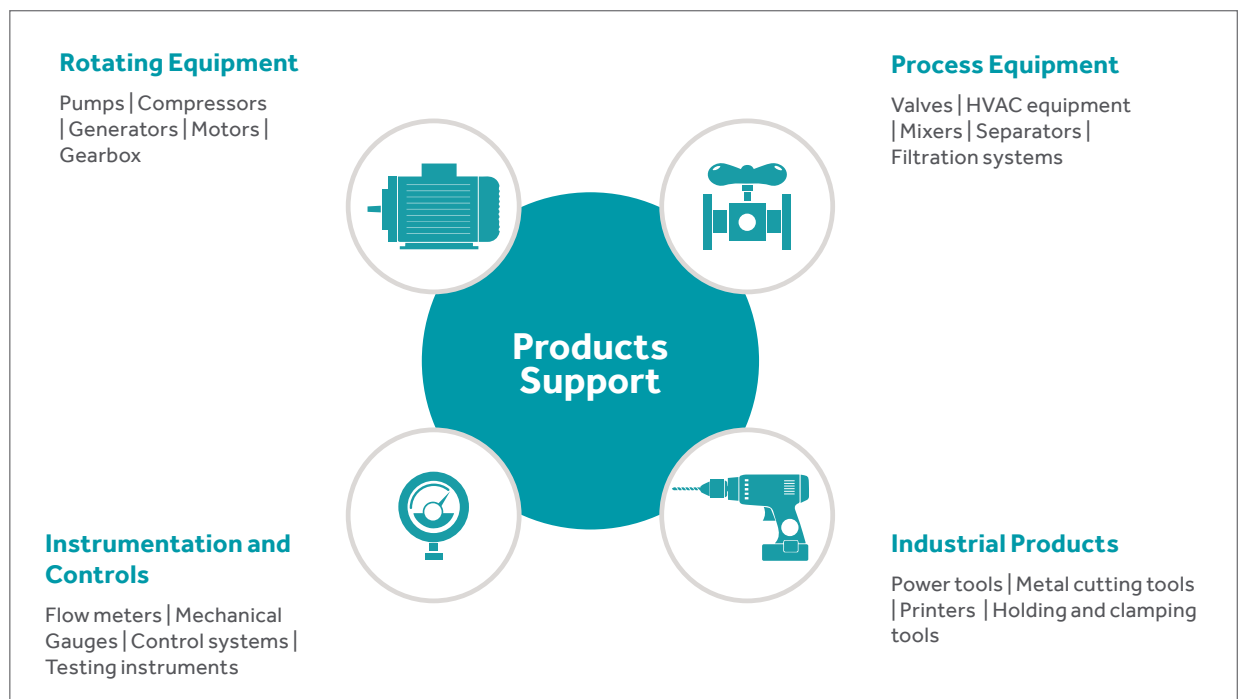
Overview

Industrial products are diverse with varied applications across different industries and have shorter development cycles. Our ability to offer specific engineering solutions through our extensive industry experience enable manufacturers to develop products faster, at a lower cost, and in lesser time. We focus on pumps, compressors, valves, flowmeters, and power tools but have the ability to expand our knowledge into other products through our rich understanding of applications and industries. With our functional expertise in mechanical, mechatronics, and embedded systems, this enables us to help clients meet their objectives.

We leverage a global collaborative engineering (GCE) approach to help industrial products manufacturers innovate and build sustainable competitive advantage and protect their intellectual property.

Our Credentials

- Accelerate product certifications leveraging strong compliance engineering and regulatory framework across industries
- Strong end-to-end design to build capabilities and eco-system for industrial products
- Proven product localization capabilities with experience in reducing design to cost
- Experience in improving product reliability through simulation, design validation and DFMEA techniques
- Experience in global regulatory ecosystem (API, UL, CE, ASME, EPA, ECE, NABL, etc.)



OUR SOLUTIONS CAN

- Enable cost to function design
- Accelerate time-to-market
- Reduce total cost of development

Areas of Expertise

- New product development
- Modularization and standardization
- Reverse engineering, re-engineering, and VA/VE
- Process standardization and automation
- Product localization
- Vendor management and support
- Obsolescence management
- Cost optimization
- Knowledge-based engineering
- Compliance engineering
- Data analytics
- Product realization – design to build

Key Service Offerings

- Mechanical design and engineering
- Simulation and validation
- Motion simulation/ kinematics
- Electrical, hydraulics, and pneumatics
- Aftermarket services
- Embedded electronics
- Should cost analysis
- Software application development
- Manufacturing engineering

How We Have Helped Our Clients

- Designed and developed a low torque screwdriver for emerging markets for an European client and reduced the product cost by 30%. Incorporating specific features for local geography and conducted 1.5 million cycles of reliability testing
- Performed reverse engineering of a competitor hydraulic torque wrench and created engineering data for a 4300N.m hydraulic torque wrench. Built prototypes with the engineering data and performed functional and leakage tests
- Value engineering for a pump family and commonization of motor mounting in-line with NEMA 56C and IEC 71 specifications enabling product rationalization
- Designed and prototyped a link mechanism to reduce the wobbling effect of client's rooftop lid products. We objectively categorized the wobbling effects and correlation of measured wobbling through test results.
- Created conceptual design for dehydration and process filtration's large flow capacity refrigerated dryers (big air) and prepared the base layout model considering the package envelope.
- Reduced the product cost of a 6" century valve by 20% developing a cast, ductile iron valve body to replace the existing weldment structure, designed a removable SS seat and refined the model considering the simulation results

About Cyient

Cyient (Estd: 1991, NSE: CYIENT) provides engineering, manufacturing, geospatial, network and operations management services to global industry leaders. We leverage the power of digital technology and advanced analytics capabilities, along with our domain knowledge and technical expertise, to help our clients solve complex business problems. As a Design-Build-Maintain partner that takes solution ownership across the value chain, we empower our clients to focus on their core, innovate, and stay ahead of the curve.

Relationships lie at the heart of how we work. We partner with organizations in ways that best suit their culture and requirements. With nearly 14,000 employees in 21 countries, we combine global delivery with proximity to our clients, functioning as their extended team. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy and natural resources.

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