



Hydraulic Cylinders

Wipro Infrastructure Engineering

AMONGST THE LARGEST INDEPENDENT
HYDRAULICS CYLINDER MANUFACTURERS
IN THE WORLD

- CONSTRUCTION AND EARTHMOVING
- LIFTING AND UTILITY
- FORESTRY
- FARM AND AGRICULTURE
- TRUCK TIPPING
- MINING AND SPECIAL APPLICATIONS

10
4

STATE-OF-THE-ART
MANUFACTURING
FACILITIES
across
CONTINENTS

1.5
million

CYLINDERS
DELIVERED
ANNUALLY

40+ YEARS OF
MANUFACTURING
EXCELLENCE

DEEP
ENGINEERING
EXPERTISE



SCALABLE
MANUFACTURING



QUALITY
FOCUSSED



Wipro Infrastructure Engineering possess in-depth knowledge of the industry, design expertise, a relentless focus on quality, and a culture that fosters innovation. A multi-talented globally distributed workforce reflects the diversity of thought, skill, knowledge and culture which uniquely positions us to push boundaries, seek newer and innovative ways to improve products and exceed customer expectation.

When you partner with Wipro you are assured of cost-effective, high-quality products, that help you stay ahead of the competition.

Power Within



Dear Reader,

Wipro Infrastructure Engineering is a global hydraulic solutions provider with expertise spanning over 4 decades of engineering and manufacturing excellence in helping customers meet their hydraulic solution needs. It is today a diversified business in Aerospace, Water Treatment, Additive Manufacturing and Automation Solutions, in addition to its Hydraulics business.

As I look at the growth over the years, I am extremely proud of what we have achieved, and even more excited about our outlook for an equally promising future. We have come a long way since we started our journey in 1976 with engineering and designing of pneumatic cylinders, then moving into developing hydraulic cylinders for mobile and truck hydraulic solutions, and steadily foraying into manufacturing actuators and precision engineered components for the aerospace industry, developing pumps for excavators in association with Kawasaki, offering end-to-end solutions in water and wastewater treatment for industrial applications, making inroads into the field of additive manufacturing and industrial automation.

Our deep engineering expertise coupled with scalable manufacturing, capacity to innovate and relentless focus on quality has made us a leading hydraulic solution provider to global OEMs. We continually invest in our facilities, including modernizing our plants with advanced technologies, the latest equipment and skilled manpower in order to offer our customers the best quality products. Our investments in the automated, zero discharge, green piston rod plant bears testimony to our commitment to further expand and develop the solutions we offer.

Wipro Infrastructure Engineering's workforce reflects a diverse and multi-faceted employee base of individuals, each with unique thought, skill, knowledge and culture who help us push boundaries to seek newer and innovative ways to improve our products and exceed our customers' expectations. Our cross-continental geographic presence and the ethnic diversity of our workforce have helped us expand our capabilities and remain closer to our customers.

With the continual support of our dedicated members, customers and suppliers we shall be doing the best to strengthen our capabilities and achieve growth and excellence in all our dealings.

I want to extend my sincere gratitude to our Global OEMs for their patronage and confidence in us, for inspiring us along the way to deliver the best at all times.

Pratik Kumar

Chief Executive Officer

Wipro Infrastructure Engineering



Product Range

Single and Double Acting Cylinders

Bore	25mm to 500 mm
Stroke	Up to 10,000 mm
Working Pressure	Up to 400 bar



Telescopic Cylinder / Kits for Tippers

Front End Tipping	Up to 6 stages
Under Body Tipping	2 – 11 Stages
Application Tonnage	Up to 100 T
Mounting Types	Eye, Cover Tube and Trunnion
Accessories for Kits	Pumps, Valves, Tanks and Hoses



Suspension and Hoist Cylinders

Tonnage	Up to 100 T
Application	Off Highway Trucks and Gas Hydraulic System for Articulated Haulers



Industrial Hydraulics

Custom designed Hydraulic Cylinders and Systems	
Bore ID	200-500 mm
Rod OD	100-250 mm
Stroke	2000-8000 mm
Operating pressure	Up to 250 bar



Hydraulics for every Application



Construction and Earthmoving

- Excavators (Mini, Midi and Large)
- Backhoe Loaders
- Wheel Loaders
- Motor Graders
- Dozers
- Dumpers
- Compactors



Truck Hydraulics

- Front End and Under Body Tipping
- Truck Steering
- Cabin Tilt Cylinders and Latches
- Car Carrier
- Refuse Trucks
- 3 Way Tipping System
- Aggregates



Lifting and Utility

- Loader Cranes
- Telehandlers
- Aerial Work Platforms
- Container Handlers
- Fork Lifts
- Tail Lifts
- Hook Lifts and Refuse Collectors



Mining and Special Applications

- Underground Haulers and Loaders
- Surface Drill Rigs
- Windmills
- Industrial Applications



Farm and Agriculture

- Harvester and Combines
- Sprayer
- Planter
- Tractor Steering and Attachments
- Sugarcane Transporter



Forestry

- Feller-Bunchers
- Log Skidders
- Log Loaders
- Sawmill Machinery

Applied Intelligence



Resourceful Agility



Design Engineering and Validation

Diverse Applications

Skilled Engineers

Successful Designs

Design processes are driven by Six Sigma methodologies, optimised by analytical and simulation tools like Finite Element Analysis (FEA) using Ansys, Creo Simulate, etc. Wipro product engineering is supported by the latest 3D modelling, design and product management tools such as Auto CAD, Windchill PDM, etc.

Effective product design verification and validation covers the selection of material, application environment, duty cycles and life expectancy. Operating conditions are simulated to arrive at the best design solutions. Test rigs are deployed to determine function, reliability and endurance of cylinders. Pulse testing, back-to-back testing, bell crank, steering simulation, forklift test simulation and high temperature cycling are used extensively to test and improve the reliability of the cylinders.

Manufacturing Process

Lean and Flexible Manufacturing Systems

Mechanized Assembly

Automated Testing

Wipro strives towards improvement, constantly benchmarking against global standards in manufacturing and scaling up production to meet growing global demands. Wipro does this by embracing technological and capacity advancements to improve productivity.

Quality is built into the product through processes to improve reliability. All critical manufacturing processes - burnishing, tube welding, heat treatment, induction hardening, grinding, friction welding, super finishing, component washing and cylinder testing are done in-house. Lean and flexible manufacturing systems are deployed with robotic welding, automated washing stations, mechanized assembly and testing in a controlled environment.

Quality First



Sustaining the Future



Quality Management

IATF 16949

ISO 9001

With a work environment featuring advanced manufacturing facilities, Wipro plants are powerhouses of sophisticated production technology and manufacturing know-how that maintain a steady and efficient production of top quality products. Wipro follows a robust process for supplier selection and supplier quality management.

Emphasis on strict quality standards, constant updating and improvement in systems, ensure that customers receive the best product. Quality management is integrated into manufacturing processes to achieve consistency and reliability.

- Corrosion resistance: Standard: 100 hours - Rating 10
- Component cleanliness up to NAS level 7
- Superior ratings to meet specific requirement through chrome and nickel chrome processes

Environmental Policy

ISO 14001

Wipro is committed to the laws, regulations and policy mechanisms concerning environmental issues and has an environmental policy in place. Committed to preserving and creating a clean environment in all activities, products and services, natural resources are conserved through reduction, reuse and recycling. Effective control measures are put in place to prevent pollution.

Environmental performance systems are periodically reviewed and continuously improved and the policy is communicated to all stakeholders. Every member of Wipro Infrastructure Engineering including our vendors and suppliers are party to this policy, in action and intent.

Customers

Construction and Earthmoving



- Caterpillar
- CNH
- Deere Hitachi
- Escorts
- Hyundai
- JCB
- Kobelco
- Kraneks
- Kubota
- Liugong
- Mahindra and Mahindra
- Manitou
- Mecalac
- Sany
- Takeuchi
- Tata Hitachi
- Volvo
- Wacker Neuson

Lifting and Utility



- Haulotte
- Hiab
- HMF
- Hyster-Yale
- JLG
- Kalmar
- Kion Group
- Kobelco Cranes
- Komatsu Forklift
- Liebherr
- Manitou
- Multilift
- Terex
- TIL
- Toyota Material Handling
- Zepro

Truck Tipping



- Ashok Leyland
- Bharat Benz
- Dautel
- Geesink Norba
- Istrail
- KH-Kipper
- Mahindra and Mahindra
- NTM
- SAWO
- SML Isuzu
- Sorling IIsbo
- Tata Motors
- VECV
- Volvo
- Walser
- Zetterberg

Forestry



- Cranab
- Hultdins
- John Deere Forestry
- Komatsu Forest
- Ponsse

Farm and Agriculture



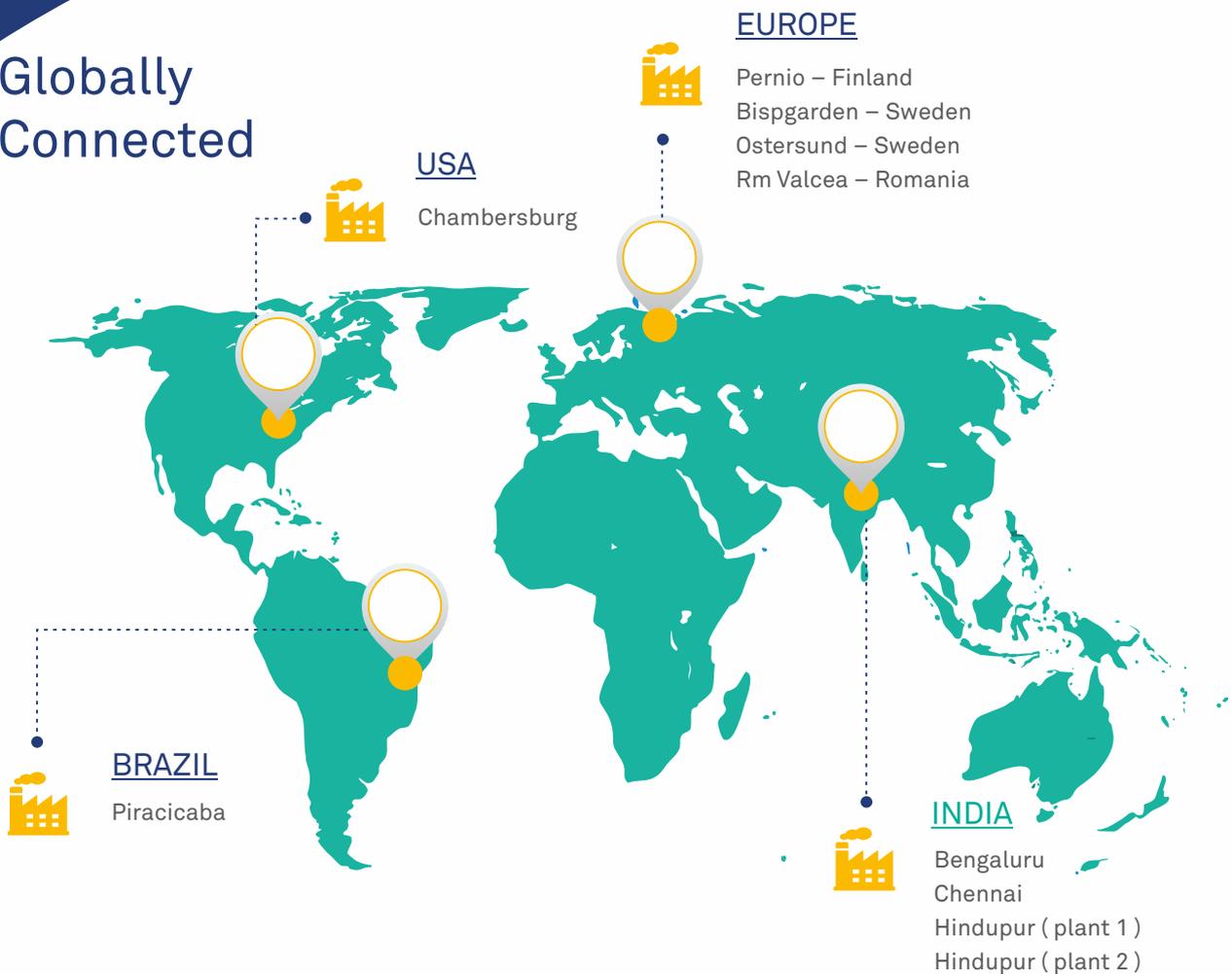
- AGCO
- CNH
- Kubota
- Mahindra and Mahindra
- Vaderstad
- Valtra

Mining and Special Applications



- Epiroc
- Sandvik Mining and Construction

Globally Connected



Confidence Delivered

Milestones

Water Treatment

Wipro Water designs, manufactures, and operates the complete range of industrial water and waste water treatment plants to meet the most demanding needs of its customers.



Aerospace

Wipro Aerospace has state-of-the-art manufacturing facilities for Aerospace Actuators and Precision Machined Components (PMCs) in Bangalore, Israel and U.S.A. Long term agreements are in place with OEM's, Global Tier-1s for development and manufacture of precision structural parts, landing gears and power door opening system actuators.



Additive Manufacturing

Wipro 3D is a leading provider of Additive Manufacturing (AM) Solutions and Services that range from consulting, roadmapping and adoption, component realization services and deployment of captive AM centers.



Automation Solutions

WIN Automation is an end-to-end system integrator of industrial automation solutions that enable companies in the manufacturing sector to be automated, digitized and smart.



Excavator Hydraulics

Wipro Kawasaki Precision Machinery Private Limited is a joint venture between Kawasaki Precision Machinery Company and Wipro Infrastructure Engineering to manufacture hydraulic pumps and swing motors for excavators in India.



1976



Western India Vegetable Products Limited establishes WINTROL in Bangalore, its first engineering diversification, to design and manufacture hydraulic and pneumatic cylinders

Inauguration of the first plant at Peenya, Bangalore

First commercial production in Peenya, starts with a standard series for machine tools and industrial applications

1977



Commences production of catalogue series hydraulic cylinders for industrial applications

1981



Starts hydraulic cylinder manufacture for mobile applications

1986



Enters the construction and earthmoving hydraulics segment

1989



Telescopic cylinders and kits for mining and construction tipper added

1995



Establishes a manufacturing facility in Hindupur

2006



- Acquires Hydraulauto Group in Europe
- Establishes a manufacturing facility in Chennai

2008



Establishes Wipro Water

2011



- Acquires R.K.M Equipamentos Hidraulicos LTDA, Brazil
- JV with Kawasaki Precision Machinery Private Limited
- Establishes Wipro Aerospace
- Establishes a manufacturing facility in China



2012



Establishes Wipro3D

2013



- Acquires S.C HERVIL S.A in Romania
- Establishes cylinder manufacturing facility in USA

2016



Acquires HR Givon in Israel

2017



Strategic alliance with Israel Aerospace Industries to manufacture composite aero-structure parts and assemblies

2018



Establishes WIN Automation

2019

Acquires Incite Cam Centre

● Wipro Infrastructure Engineering

No. 88, 5th Floor
S.B Towers, M.G Road
Bengaluru - 560001
India

(T) +91 (80) 6104 4000
(F) +91 (80) 3929 4080
(W) wiproinfra.com

Wipro Infrastructure Engineering (WIN) is a diverse industrial engineering business with expertise in hydraulics, water treatment, aerospace, additive manufacturing and automation solutions. The hydraulics division of WIN specializes in designing and manufacturing custom hydraulic cylinders for a variety of applications such as construction and earthmoving, lifting and utility, forestry, farm and agriculture, mining, truck and industrial hydraulics.

● Contacts

Sweden

Wipro Infrastructure Engineering AB,
Svedjevagen 4, P.O Box 801,
SE - 931 28 Skelleftea, Sweden
Tel: +46 910 848 00

Finland

Wipro Infrastructure Engineering Oy
Torpanmäentie 3
25500 Perniö, Finland
Tel: +358 290 552 849

Romania

SC Wipro Infrastructure Engineering SA
No. 24 Topolog Street, Rm. Valcea,
Romania - 240160
Tel: +40 250 740 360

Brazil

Wipro do Brasil Industrial S.A
Rua Joao Franco de Oliveira, 2021
13422 - 160 Piracicaba/SP - Brazil
Tel: +55 (19) 3417 7404

USA

Wipro Infrastructure Engineering - US
1101 Sheffler Drive
Chambersburg, PA-US 17201
Tel: +1 717-496-8877

India

Wipro Infrastructure Engineering
No. 88, 5th Floor, SB Towers, MG Road,
Bengaluru - 560001
Tel: +91 (80) 6104 4000

