

wipro infrastructure engineering



Wipro Group

Wipro Group

Wipro Enterprises

Wipro Limited



Wipro Infrastructure Engineering

- Hydraulics
- Aerospace
- Water Treatment
- Additive Manufacturing
- Automation Solutions



Wipro Consumer Care & Lighting

- Personal Care
- Wellness Products
- Lighting, Furniture and Switches



Wipro Kawasaki Precision Machinery

Hydraulic Pumps and Swing Motors for Excavators

Joint Ventures



Wipro-GE Healthcare

Healthcare Equipment and Solutions



- IT
- BPO
- R&D Services
- Consulting Services



**Wipro
Infrastructure
Engineering**

wipro infrastructure engineering



40 + years of
manufacturing
excellence



3700+
global workforce



21 manufacturing
facilities



across 4
continents

Leadership



Pratik Kumar
Chief Executive Officer

HYDRAULICS



Isaac George
Global Sales



Prasanna Simha
Global Operations



Jugal Prasad
Global Quality & Engineering

GEOGRAPHY



Dr. Joseph Thomas
Americas

WATER



T M Nagarajan
Wipro Water

ADDITIVE MANUFACTURING



Ajay Parikh
Wipro3D

AUTOMATION SOLUTIONS



G Sundararaman
Wipro Automation

CORPORATE FUNCTIONS



R. Swaminathan
Finance*

AEROSPACE



Ronen Givon
Wipro Givon



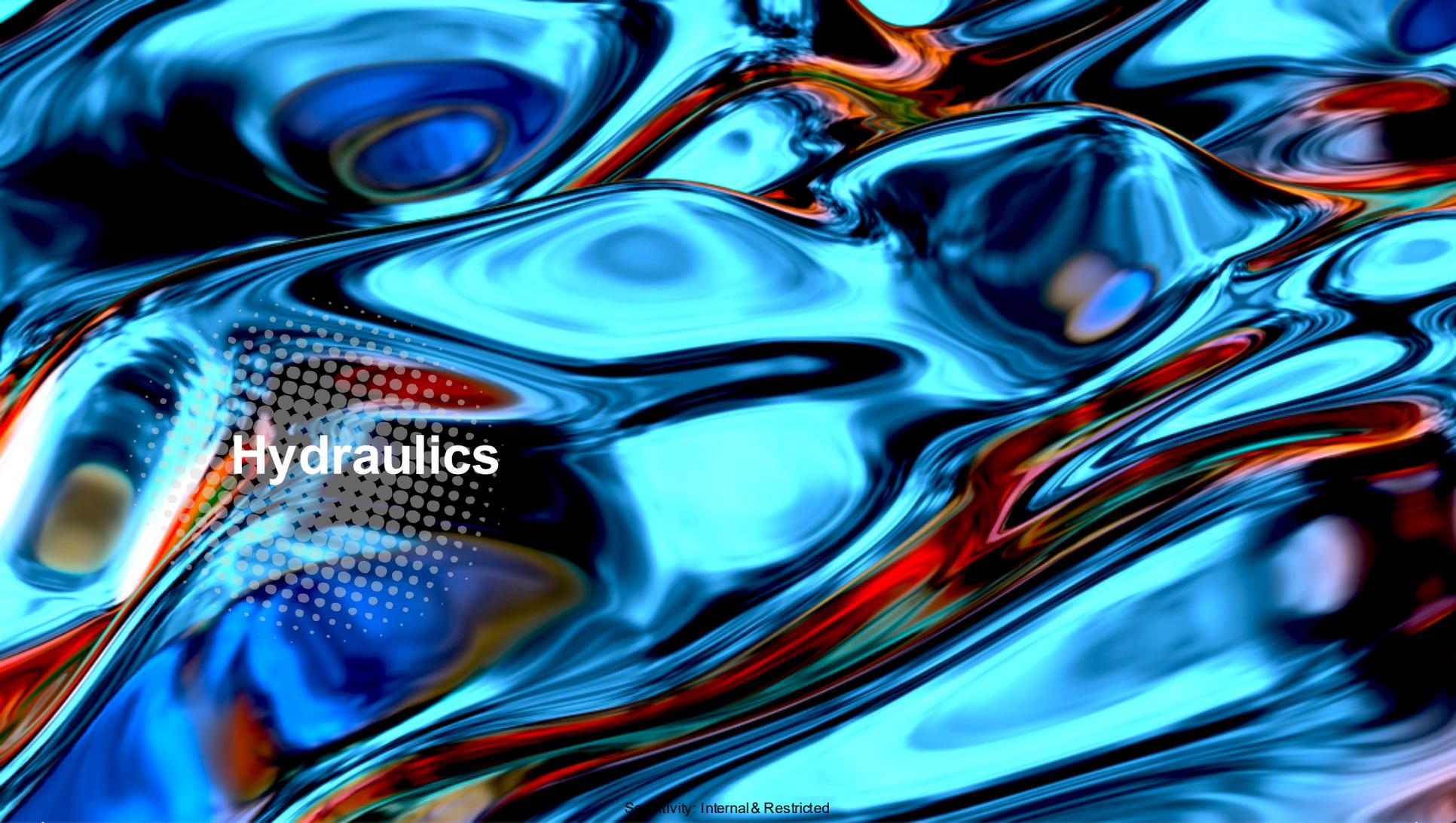
Srinivas Devarreddy
Wipro Aerospace



Ayaskant Sarangi
Human Resources**

*Chief Financial Officer –Wipro Enterprises and Wipro Infrastructure Engineering

**Chief Human Resources Officer –Wipro Enterprises, WIN, WCCLG



Hydraulics

Product Range



Single and Double Acting Cylinders

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



Product Range



Telescopic Cylinder/ Kits for Tippers

- Front End Tipping: Up to 6 stages
- Under Body Tipping: 2 – 11 stages
- Application Tonnage: Up to 90 T
- Mounting Types: Eye type, Cover tube, Trunnion type
- Accessories for Kits: Pumps, Valves, Tanks, Hoses



Product Range



Suspension and Hoist Cylinders

- Tonnage: Up to 100 T
- Application: Off Highway Trucks, Gas Hydraulic System for Articulated Haulers



Product Range



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

- Backhoe Loader
- Dozer
- Dumper
- Excavator (Mini, Midi, Large)
- Motor Grader
- Wheel Loader



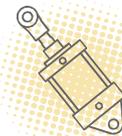
Lifting and Utility

- Aerial Work Platform
- Container Handler
- Fork Lifts
- Loader Cranes
- Hook Lifts and Refuse Collector
- Tail Lifts
- Tele Handlers



Farm and Agriculture

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



AMONGST THE LARGEST
INDEPENDENT MANUFACTURERS
OF HYDRAULIC CYLINDERS

Hydraulics for every application



Truck Tipping Solutions

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



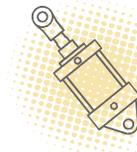
Mining and Special Applications

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



Forestry

- Forwarders
- Harvesters
- Harvesting heads
- Grapples



AMONGST THE LARGEST
INDEPENDENT MANUFACTURERS
OF HYDRAULIC CYLINDERS

Global Sales Profile



Construction and Earthmoving

44%



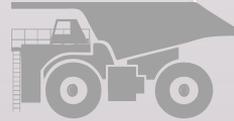
Lifting and Utility

27%



Truck Tipping Solutions

11%



Mining and Special Applications

8%



Forestry

7%



Farm and Agriculture

3%

Global Reach



USA

Chambersburg
Plant area: 3,500 sq.m

BRAZIL

Piracicaba
Plant area: 9,000 sq.m

EUROPE

Pernio – Finland | *Plant area: 16,000 sq.m*
Bispgarden – Sweden | *Plant area: 3,500 sq.m*
Ostersund – Sweden | *Plant area: 8,000 sq.m*
Rm Valcea – Romania | *Plant area: 12,000 sq.m*
Skelleftea – Sweden | *Tech and Protoshop*

INDIA

Bengaluru | *Plant area: 15,800 sq.m* | *Tech and Protoshop*
Chennai (plant 1) | *Plant area: 10,500 sq.m*
Chennai (plant 2) | *Plant area: 11,400 sq.m*
Hindupur (plant 1) | *Plant area: 9,675 sq.m*
Hindupur (plant 2) | *Plant area: 19,000 sq.m*

Design Engineering and Validation



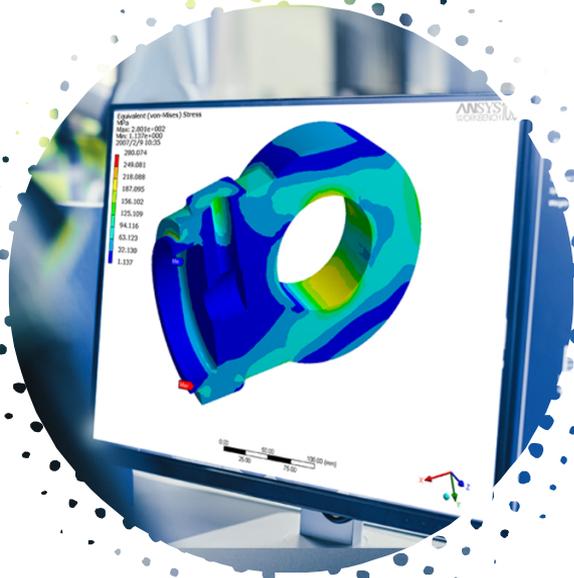
60+
Engineers



8000+
Successful
designs

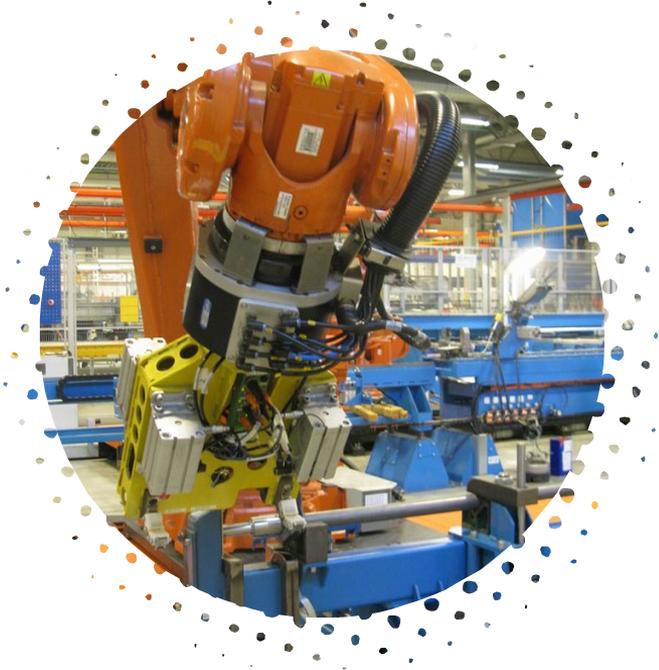


1000
Diverse
applications



- Design processes driven by Six Sigma methodologies
- Optimised by analytical and simulation tools like Finite Element Analysis (FEA) using Ansys, Creo Simulate etc.
- Supported by the latest 3D modelling, design and product management tools such as PTC Creo, Windchill PDM Link etc.
- Test rigs to determine Functionality, Reliability and Endurance
 - Pulse testing | Back-to-back testing | Bell crank
 - Steering simulation | Forklift test simulation
 - High temperature cycling

Manufacturing Process



**Lean and
Flexible
Systems**



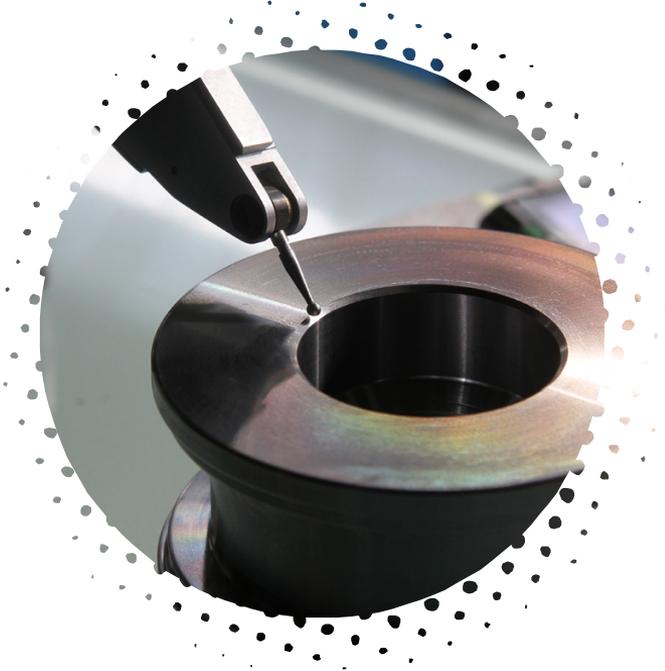
**Mechanized
assembly**



**Automated
testing**

- Continually invest in world class facilities, latest technologies and equipment
- Build quality into the product through processes and improve product reliability
- Lean and flexible manufacturing systems are deployed with robotic welding, automated washing stations, mechanized assembly and testing in a controlled environment
- Critical manufacturing processes are done in-house

Quality Management



ISO
9001



IATF
16949



ISO
14001

- Two integral dimensions of our quality
 - **Consistency**
 - **Continuous Improvement**
- Wipro plants are powerhouses of sophisticated technology and manufacturing know-how. Robust process for supplier selection and quality management
- Corrosion resistance: Standard: 100 hrs. – Rating 10
Component cleanliness up to NAS level 7
- Superior rating to meet specific customer requirements through chrome plating process

Customers



Construction and Earthmoving

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

Customers



Lifting and Utility

- Bonfiglioli
- Haulotte
- Hiab
- JLG
- Tadano Escorts
- ElectroMech-Yale
- Kalmar
- Kion Group
- Kobelco Cranes
- Komatsu Forklift
- Liebherr
- Manitou
- Multilift
- TIL
- Toyota Material Handling
- Zepro
- Hyster-Yale Brasil

Customers

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

Customers



Farm and Agriculture

- AGCO
- CNH
- Kubota
- Mahindra and Mahindra
- Vaderstad
- John Deere
- HORSCH



Forestry

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



Special Applications

- Epiroc
- Sandvik Mining and Construction



Values we Live by

Spirit of Wipro

Be passionate about client's success

Treat each person with respect

Be global and responsible

Unyielding integrity in everything we do

Strategy and Goal



INNOVATION

Leadership in engineering,
technology and quality



BUSINESS EXCELLENCE

Partnering with customers
across the globe



SCALABILITY

Leverage a global delivery
and engineering model

