

RICO AUTO

Corporate Presentation

December 2011



RICO Corporate Presentation

Company Profile, Joint Ventures, Customers & Products

- Manufacturing Capabilities and Product Range
- Engineering and R&D Capabilities
- Our Vision



Leading Integrated Supplier of Automotive Components & Assemblies

Ferrous & Aluminium

Casting & Machining

Dies & Moulds

Design & Development



OEM Supplier

ISO-TS 16949 ISO 14001 OHSAS 18001

FORD Q1 CAT-SQEP Bronze

RICO Group Combined Turnover \$374 Million

History & Milestones



| 2010-11 | Added new facilities/Plants – At Bawal, Bhiwadi, Sanand, Chennai & Hario | dwar |
|---------|---|--------------------------------------|
| 2010-11 | Added New racing Control of Parkage, Dinwadi, Canana, Chemia a Hark | awar. |
| 2007-09 | JV with CONTINENTAL Automotive Systems (Hydraulic Brakes) JV with MAGNA Powertrain (Oil Pump, Water Pump) JV with Jinfei China (Aluminum Alloy Wheels – 2 Wheelers) Added Customers – JATCO, Mann & Hummel, Magna, Renault, BMW | FORD Q1 CAT SQEP-Bronze |
| 2004-06 | R&D Center Started Added Customers – NISSAN, TATA (Small Car Project), Perkins | |
| 2003-04 | Enhanced Ferrous and Aluminium Capacity Added Customers – GM, Caterpillar, Honeywell, Detroit Diesel, Volvo | |
| 2000-02 | Full Service Engineering Design Development Added Customers – FORD, LandRover, Jaguar | TS 16949 ISO 14001 OHSAS 18001 |
| 1999-00 | Aluminium Die Casting & Machining (Gurgaon) | QS 9000 |
| 1994-96 | JV (50:50) FCC RICO (Clutch Assembly) Started Exports – GM, Eaton, Cummins | |
| 1990-92 | International Market OEM Supplier – MEC Japan Ferrous Casting & Machining (Gurgaon) Focus – Maruti Suzuki | ISO 9000 |
| 1985-86 | Technical Collaboration FCC Japan Commercial Production Started (1986) Aluminium Die Casting & Machining (<i>Dharuhera</i>) Focus – Hero Honda & Maruti Suzuki | |

RICO Group Joint Ventures & Subsidaries



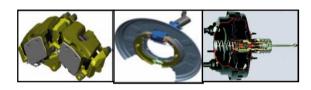
FCC RICO

50% FCC 50% RICO Clutch Assembly Two Wheelers & Four Wheelers

CONTINENTAL RICO

50% CONTINENTAL 50% RICO

Hydraulic Brake Products & Services Vehicles of all Classes



MAGNA
Powertrain RICO

50% MAGNA Powertrain 50% RICO

Oil Pump Water Pump (Automotive Engines) (India & Europe)



RICO JINFEI

7.5% JINFEI 92.5% RICO

Aluminum Alloy Wheels Two Wheelers





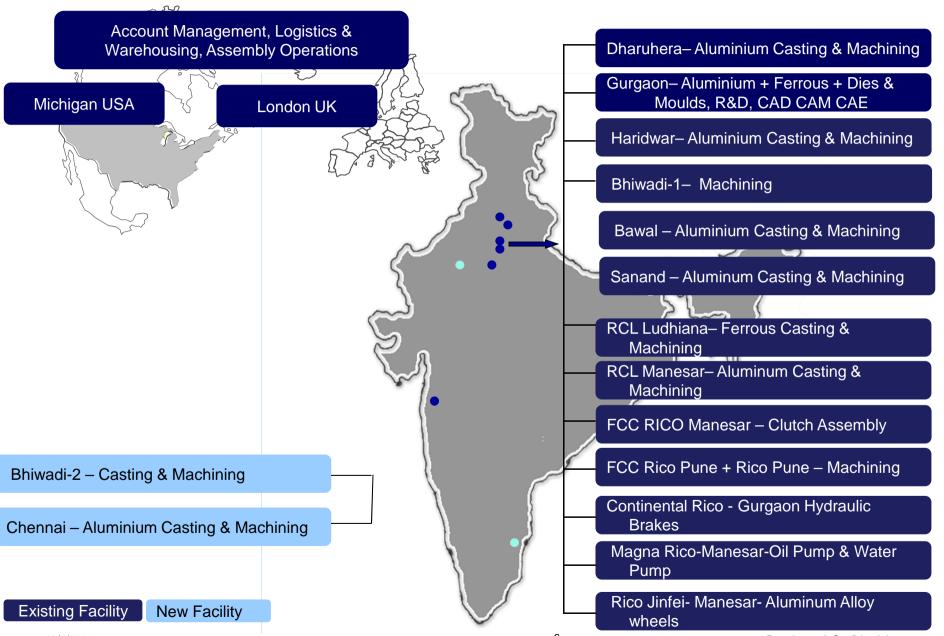
RICO USA & UK

Wholly Owned Subsidiary 100% RICO

Assembly, Logistics Customer Support

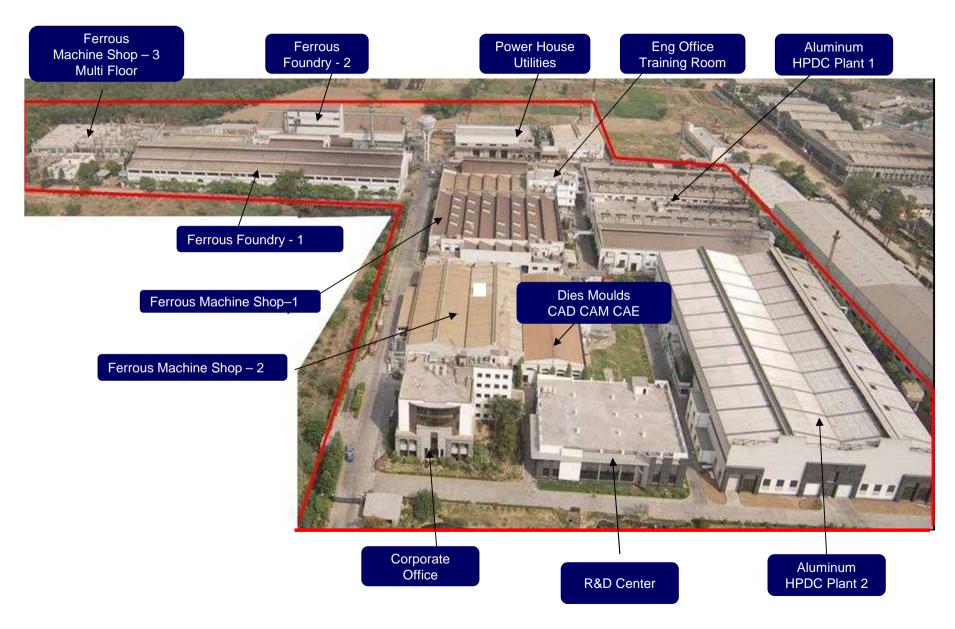
RICO Group-Plant & Facilities-Locations





RICO Group-Gurgaon Campus





RICO Group – Other Plants & facilities



Rico - Dharuhera Aluminum Casting & Machining



RICO Bhiwadi 1 (New Plant) Machining (Aluminum + Ferrous)



Rico – Manesar Alloy Wheels & Aluminum Parts



Rico – Haridwar (New Plant)
Aluminum casting & Machining



WIP - RICO Sanand



WIP - RICO Bawal



WIP-RICO Chennai



RICO Group – Joint Venture's facilities





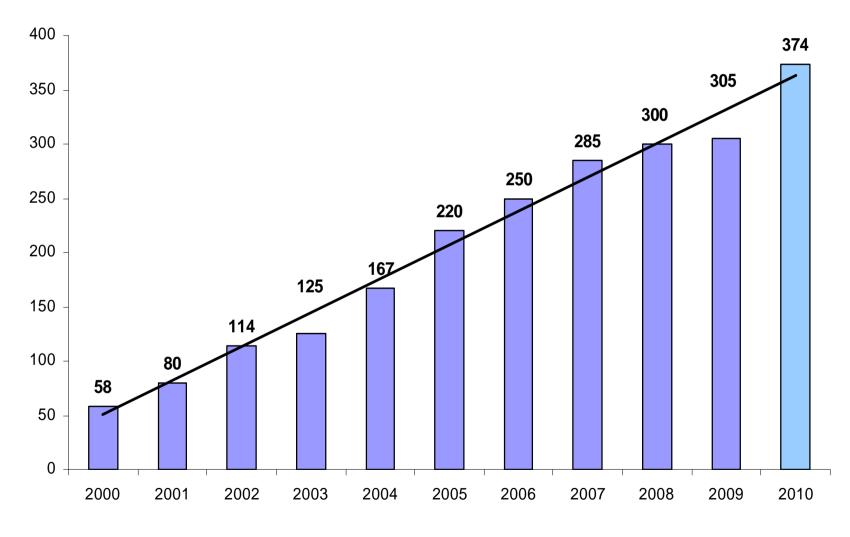






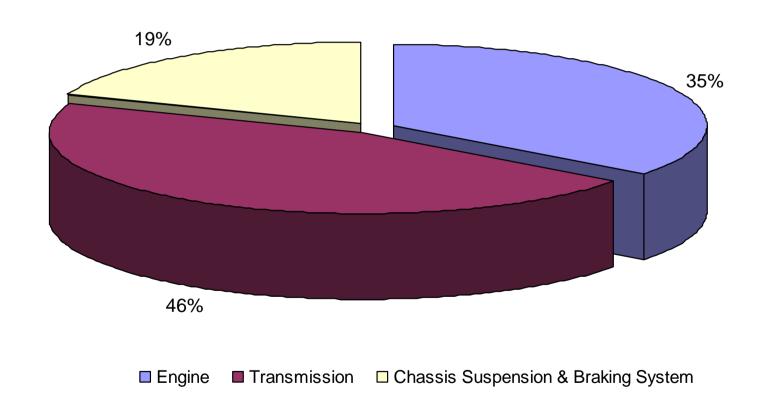






Group Revenue-Product Segment Wise





Product Range-Product & Assemblies



Engine



- Oil Pump Assembly
- Fuel System Parts
- Lube Oil Filter head
- Exhaust Manifolds
- Turbine Housings
- Center Housings
- Crank Cases & Covers
- Cylinder Head Cover
- Oil Pan
- Intake Manifold Cover
- Engine Front Cover
- Valve Cover
- Side Cover

- Balance Shaft Assembly
- Gear Housing
- Main Bearing Caps
- Water & Air Connections
- Flywheel Assembly
- Timing Cases
- Oil Filter Adaptor
- Engine Brackets
- Cylinder Block (Aluminum)
- Cylinder Head (Aluminum)
- EGR Housing
- Rocker base

Transmission



- Clutch Assembly
- Transmission
 Support Assembly
- Differential Case
- Gear Shift Forks
- Intermediate Plate
- Pressure Plate
- Rear Case
- Transmission Case
- Front Transmission Housing

Chassis Suspension & Braking System



- Wheel Hub Assembly
- Brake Panel Assembly
- Brake Disc
- Brake Drums & Rotors
- Knuckles
- Caliper & Anchor
- TMC Tandem Master
 Cylinder

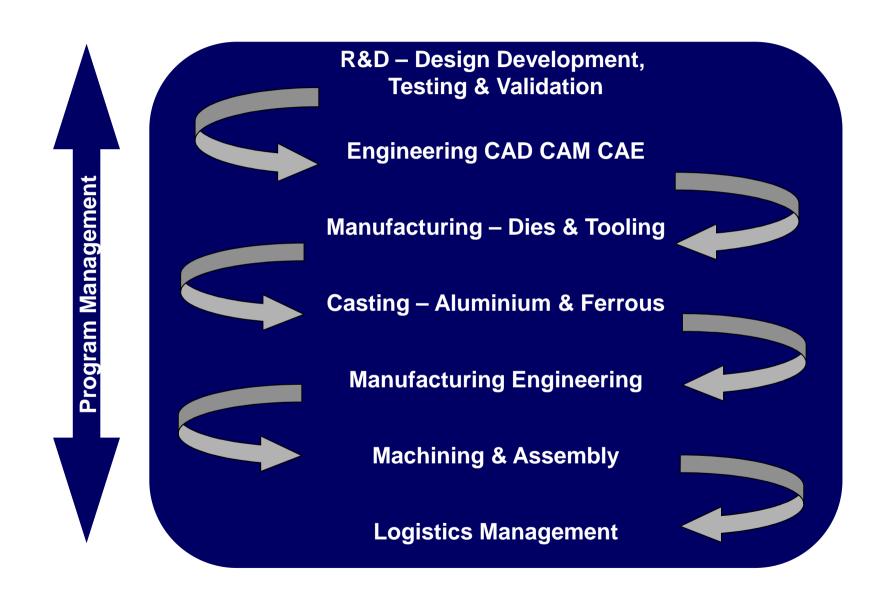
Current Global Customer Base



North America Japan/ ASEAN **Europe** India HONDA SUZUKI LALAB 🙎 **Two Wheelers** YAMAHA GM <u>GM</u> **Passenger Cars** RENAULT VOLVO RENAULT ACN Commercial **CATERPILLAR® CATERPILLAR® CATERPILLAR® CATERPILLAR® Vehicles Perkins Perkins MAGNA** Jatco **System** Continental 3 **OP Pump Suppliers** Matsusaka **Engineering**

Our Integrated Services-Product to deliveries







RICO Corporate Presentation

Company Profile, Joint Ventures, Customers & Products

Manufacturing Capabilities and Product Range

- Engineering and R&D Capabilities
- Our Vision

Aluminium-Infrastructure



Over 100 High Pressure Die Casting Machines (135 – 1800 Tns Locking Force)

Largest High Pressure Die Casting Capacity in India



Future Strategy: Expand 2500- 3000 Tns





Current facility at Gurgaon for LPDC & GDC and at Manesar for GDC include stationary and tilting type machines





Future Strategy: Independent facility for GDC & LPDC Operations

Ferrous - Infrastructure



4 Moulding Lines - 2 DISA & 2 Horizontal (SINTO & DISA)
Vertical Size (650 * 535 * 130~330) & Horizontal Size (610 * 510 * 200+200)
Material: Gray (FC), Ductile (FCD), SiMo, SiMo Chrome



Machining & Assemblies



Over 1,500 Machines (CNCs & SPMs) +
One of the Largest Machining Facility in India



We Machine All Our Castings

Over 50% of Our Product Range is with Assemblies



RICO Corporate Presentation

- Company Profile, Joint Ventures, Customers & Products
- Manufacturing Capabilities and Product Range

Engineering and R&D Capabilities

Our Vision

Engineering CAD CAM, CAE



Competitive Advantage: Manufacturing Experience Combined with Engineering CAD CAM CAE Center



Capabilities (Over 60 Seats)

- CAD CAM Computer Aided Design & Manufacturing
- Unigraphics, Pro E, Catia, C3P, Ideas, Vericut
- CAE Computer Aided Engineering
- Magmasoft, FEA, CFD, Ansys, FCX, GT Suite, MSC Fatigue

Advantages

- Concurrent engineering with customers.
- Co-Design with Customers.
- Shorter development time.
- Cost advantage.
- Inhouse designing, Modifications & product design optimization.

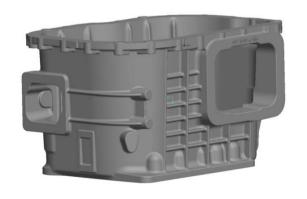
Recent Projects

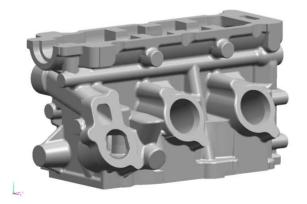
RIO

- •Engine Block & Bed Plate in HPDC Process
- •Oil Pump in Vacuum HPDC Process
- •Bracket with Local Squeeze HPDC process
- •Cylinder Head in GDC Process
- •Transmission Housing in LPDC Process
- Engine Block in Ferrous Disa Vertical
- Turbocharger Parts in Shinto Horizontal







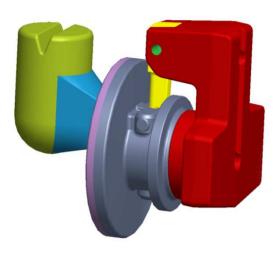


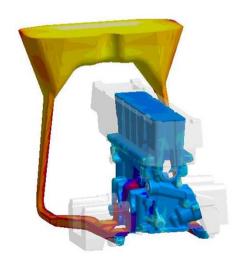


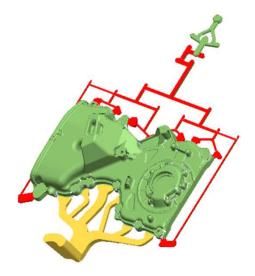
Process Development / Improvement



- Process Optimization
- Process Change
- Cycle Time Reduction



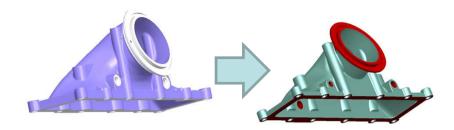




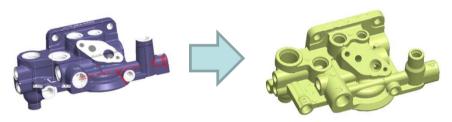
Product Cost Optimization

RIO

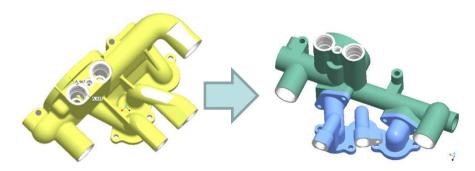
- Process Change
- Weight Reduction
- Quality Improvement
- Machining elimination



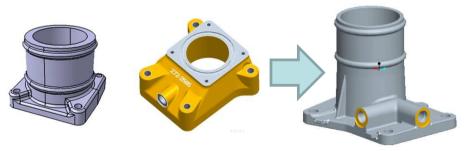
Process Change – GDC to HPDC Weight Reduction – 0.55 Kg



Quality Improvement Weight Reduction – 0.50 Kg



Process Change – GDC to HPDC Weight Reduction – 1.80 Kg



Process Change – GDC to HPDC Weight Reduction – 0.85 Kg Machining Elimination

Tooling & Die Manufacturing



In-House Dies & Pattern Design & Manufacturing

Manufacture over 200 Dies & Patterns and 600 Die Inserts Annually



Recent Projects completed

- Design & development of Dies for Engine Blocks, Bed Plates, Cylinder head
- Designing & Manufacturing of Dies for 1600 ton & 1800 ton die casting machines.
- Designing & Manufacturing of LPDC & GDC dies.

Aluminium Products - Motorcycles



Clutch Assemblies

Annual Capacity: 7 Million Supply Location: India









@YAMAHA







Aluminium Products - Motorcycles



Crank Cases





Annual Capacity: 2.5 Million

Supply Location: India









Aluminium Products - Cars



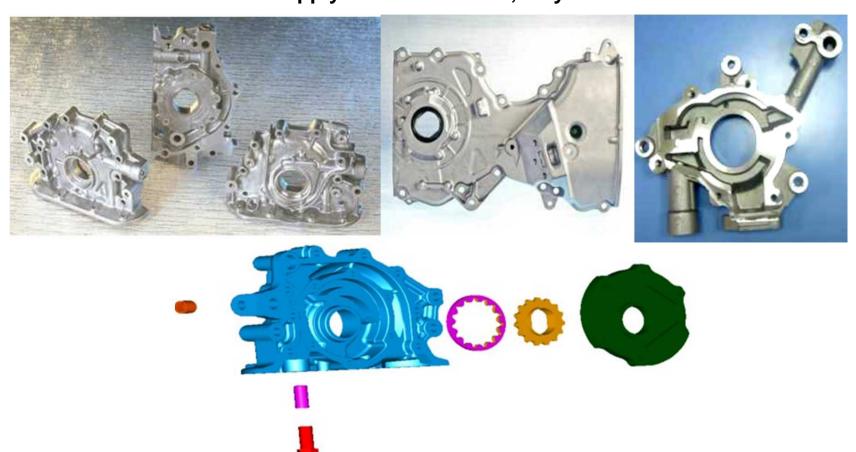
Oil & Water Pump Housing & Assemblies





Annual Capacity: 2 million

Supply Location: India, Italy



Aluminium Products - Cars



Cylinder Head Covers Assembly & Oil Pans





Annual Capacity: 350,000

Supply Location: India



Aluminium Products - Cars

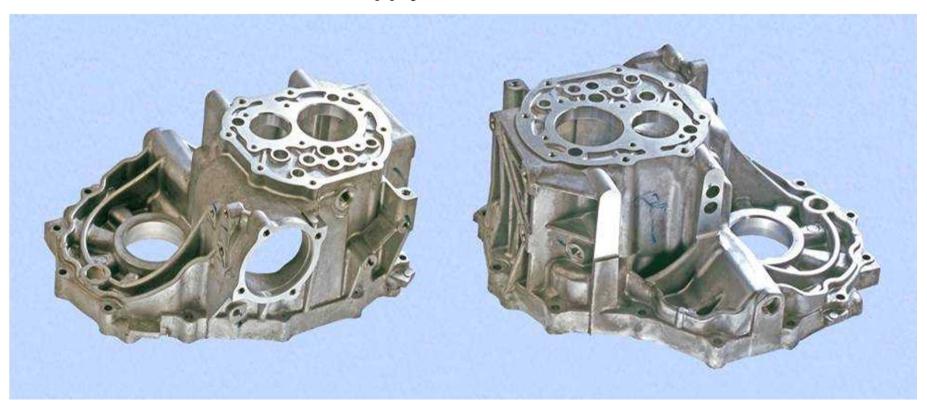


Transmission Case (Maruti)



Annual Capacity: 300,000

Supply Location: India



Aluminium Products – HCV & Cars



Cylinder Head Covers







Annual Capacity: 350,000 Supply Location: India, Europe & USA



Aluminium Products – Cars

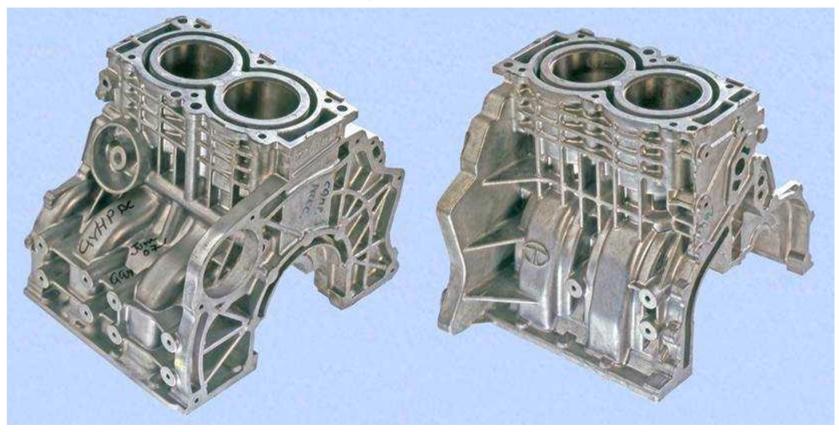


Cylinder Block (Petrol & Diesel)



Annual Capacity: 500.000

Supply Location: India



Aluminium Products – Cars

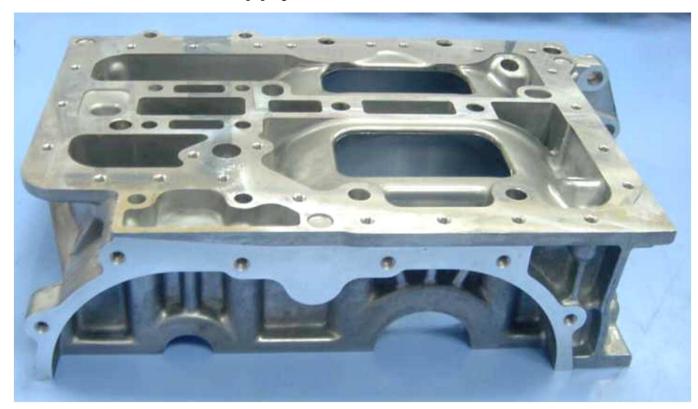


Bed Plate (Aluminum HPDC)



Annual Capacity: 100,000

Supply Location: India



Aluminium Products – HCV's

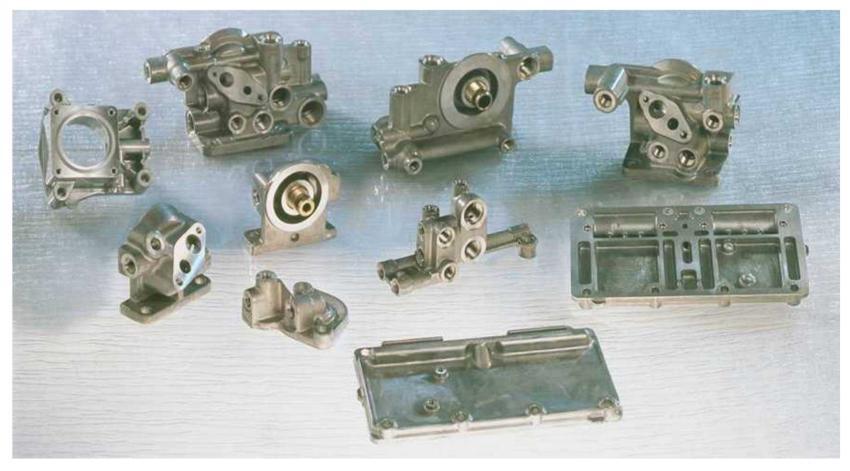


Fuel System Components



Annual Capacity: 250,000

Supply Location: USA, Europe China & India



Aluminium Products – Engines



Fuel System Components





Annual Capacity: 350,000

Supply Location: USA



Aluminium Products - Engines



Timing Cases



Annual Capacity: 150,000

Supply Location: Europe



Aluminium Products - Motorcycles



Hubs & Brake Panel Assemblies



Annual Capacity: 2 Million Supply Location: India

Annual Capacity: 5 Million Supply Location: India









Aluminium Products - Cars



Brackets

Annual Capacity: 7.5 Million

Supply Location: India, Europe, Asia & USA

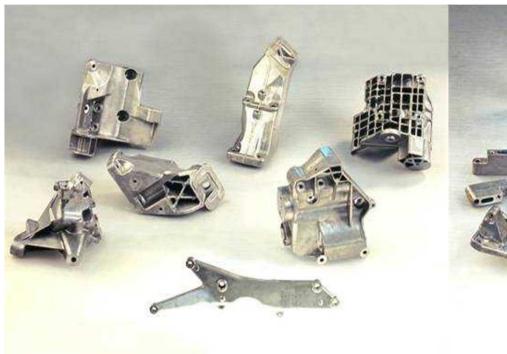


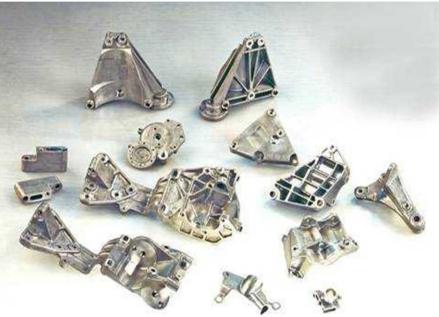












Aluminium Products – Cars / Engines



Annual Capacity: 500,000

Supply Location: India

Serkins

Annual Capacity: 60,000

Supply Location: Europe





Annual Capacity: 450,000

Supply Location: India





Aluminium Products (GDC Process) – Engines



EGR System & Tandem Master Cylinder

Perkinsontinental@

Annual Capacity:300,000

Supply Location: Europe & India





Balance Shafts

Annual Capacity: 120,000

Supply Location: India & USA









Differential Cases





Annual Capacity: 1.2 million
Supply Location: India & Europe





Ferrous Products – HCV's



Main Bearing Caps













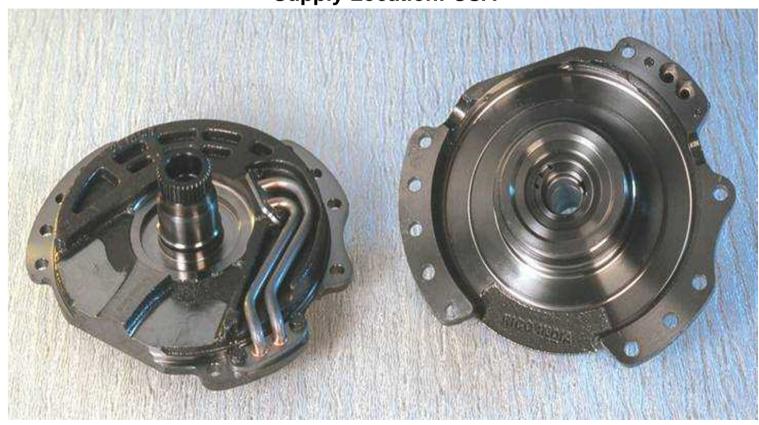


Automatic Transmission Support Assembly



Annual Capacity: 1 million

Supply Location: USA





Retainer Bearing Assembly



Annual Capacity: 200,000

Supply Location: Japan









Exhaust Manifolds

Annual Capacity: 1 million

Supply Location: India, Europe & Asia





Turbo Charger Parts



Turbine Housings

Annual Capacity: 1 million

Supply Location: India & Europe











Turbo Charger Parts



Center Housings

Annual Capacity: 500,000

Supply Location: India & Europe









Ferrous Parts- Engines parts



Anchor & Caliper Housings



Annual Capacity: 320,000 Supply Location: India



Ferrous Products - Engines



Clutch Parts (Intermediate Plate & Pressure Plate) & **Rear Cases**



Annual Capacity: 200,000

Supply Location: USA









Brake Discs & Drums





Annual Capacity: 2 Million

Supply Location: India





Sub Supplier Management



Currently Manage Over 40 Suppliers Over 200 Million Volume ~ US \$ 50 m



















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- Company Profile, Joint Ventures, Customers & Products
- Manufacturing Capabilities and Product Range
- Engineering and R&D Capabilities

Our Vision

12/5/2011 53 Proprietary & Confidential



Vision & Goal

Our Vision

"To be preferred supplier to OEMs across the globe"

Overall Strategies

Strategic Alliances

Move from Components to Systems

Continuous Focus on Quality & Cost

Acquisitions & Joint Ventures

Expand Manufacturing Presence

Manufacturing Footprint in Low Cost Countries

World Class Human Resources & Plants