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SRI CITY

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**RSB TRANSMISSIONS NORTH AMERICA,
INC.**

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United States
Phone: + (517) 568-4171

JAMSHEDPUR OFFICE & WORKS - UNIT I

(Propeller Shaft Division)
NS 25, VI Phase, Industrial Area, Gamharia
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Phone: +91-657-6622856/57/58

JAMSHEDPUR - UNIT II

(CMI Division)
7th Phase,
Adityapur Industrial Area, Gamharia,
Jamshedpur - 832108, India

JAMSHEDPUR - UNIT III

(Axle Division)
Plot No. 730-732 & 1038,
Ward No. 9, Gamharia,
Jamshedpur - 832108, India

JAMSHEDPUR - UNIT IV

(Suspension & Fifth Wheel Coupling Division)
C20 & 27 - IV Phase, Gamharia,
Jamshedpur - 832108, India

LUCKNOW

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Phone: + 91-8953991156

CUTTACK

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A Deming Awarded
Company



TPM Excellence Award
(Category A)

RSB Transmissions (I) Ltd.

ANALYZING THE PAST • SHAPING THE FUTURE

VISION

"To be amongst the most admired organizations with a significant global presence."

MISSION

- Auto Business

"Be a socially responsible leading manufacturer of Automotive components & Systems to fulfill the prosperity of all stake holders."

- Construction & Mining Infrastructure (CMI) Business

"To be a leading manufacturer of Aggregates & Attachments for Construction & Mining Industry in India & satisfy all stake holders."

Tomorrow belongs to those who prepare for it today

This fact also holds true for the RSB Group.

We, at the RSB Group, believe in learning from past, living in present and planning for the future. But what remains constant for us is the significance of "Quality". For us it is the lamp that brightens the future. It is an outcome of high intention, efforts forged with sincerity, effective use of intellectual property and skillful execution of fundamentals. Quality can be achieved through pre-defined route and parameters, extensive research and innovation. Dedication and teamwork further add to the same. The secret of success lies in maintaining the harmony in internal relationships that gets translated to higher standards of quality.

This is evidenced by our relentless pursuit of excellence in everything we do. As a result, RSB received the prestigious Deming Award, which was followed by the TPM Excellence Award.

Every good invention stems from a need, and the same holds true for creating & improving products and processes adding to the customer value.



R.K. Behera
Chairman

S.K. Behera
V.C. & MD

BUSINESS EXCELLENCE

RSB's quest for a holistic management practice led to TQM (Total Quality Management). TQM provided the Group with the best methodologies to translate the Vision and Business Objectives into reality through Continual Measurement of Excellence Parameters to achieve desired results.

The Deming Journey at RSB started in 2006 with a simple tool called EVD - Exactness between Plan and Actuals, Visualisation and Daily Management.



A Deming Awarded Company



TPM Excellence Award (Category A)



RSB has introduced structured Skill Enhancement Processes to upgrade the knowledge and skill levels of each employee in line with its policy of involving all employees for the overall growth (TEI - Total Employee Involvement). Today the employees of RSB are engaged in many Continual Improvement projects for PQCDs (Product, Quality, Cost, Delivery, and Safety), participating in QC competitions and winning many laurels and awards besides repeated customer appreciations.

RSB has continuously rotated the Deming PDCA (Plan, Do, Check, Act) cycle to achieve the desired results. Continual focus has brought in a change in culture and instill a sense of Ownership-for success and failure, Pride-to do any activity better than before and Discipline-to adhere to established procedures.

Efforts such as 'Gemba Walk', appreciation of employees for continual improvement (Kaizen), multitasking, reducing absenteeism through rewards like 'Man of the Month' and 'Man of the Year' have gone a long way in creating a bonding within the organization as well as to usher in the ethics of Continual Improvement Culture.



THE GROUP

The RSB group comprises of RSB Transmissions (I) Ltd, I-DESIGN Engineering Solutions Ltd, RSB Transmissions NA Inc., USA, RSB Transmissions de Mexico.

Quality consciousness and effective service is the common thread that runs through the group companies. This uniformity is achieved by equipping each of the group companies with State-of-the-art technology and cutting edge IT infrastructure.

The core competence of The Group lies in Design, Development, Testing, Validation and Manufacturing of Aggregates and Systems. The Indian businesses have been consolidated into Four Verticals viz. Propeller shafts & Machined Components Vertical, Axles & Suspension Systems Vertical, Gear Boxes & e-Mobility Aggregates Vertical and Construction Mining & Infrastructure (CMI) Vertical.



THE PEOPLE

The people form the backbone of the organization.



Success of the group is based on optimum utilization of the talent employed in various capacities. The Group's expansion and transition has been possible because of the culture of inclusivity. Every member of the group is proud of this culture and realizes their pride of the place and relationship with the organization. A member is never an anonymous cog in the wheel.

The workforce at RSB is a cultural mosaic of values, thoughts, personality traits and ideas. Only through the accommodation and integration of divergent and varied traits unity is arrived at. The Group not only cherishes this spirit of unity but this unity is its most potent key for ensuring quality and cost-effective products. The Group with more than 4000 employees can proudly proclaim that "Happy Employees Lead to Satisfied Customers".



PRODUCTS & SERVICES

Propeller Shafts

RSB is an integrated Propeller Shaft solutions provider having the largest market share in the M&HCV segment in India. Company has a technical tie-up with Eugen Klein GmbH Germany.

The Propeller Shaft range covers torque carrying capacity from 2,000 Nm to 45,000 Nm with higher torque range capacity in the offing. The Group is focused on catering to the present and futuristic commercial vehicle, power transmission requirements and meeting the most stringent norms.

A range of new generation Propeller Shafts, offering un-beatable solutions through:

1. In-house Dip & Online Spray Phosphating facilities and sophisticated Paint Shop offering salt spray life upto 1,000 hrs.
2. Latest generation 3 plane Balancing Machines with digital PLC
3. Fully automated line for manufacturing Cross & Bearing Cup with online SPC
4. In-house Metallurgical Lab to ensure validated raw material inputs
5. In-house testing & validation facility for the assemblies

RSB has designed and developed new generation Propeller Shafts that are light, cost-effective, and achieve improved performance level of torque transfer. RSB provides validated newer designs extended to cover several models of vehicles (SCV, LCV, M&HCV, Non Automotive & Industrial applications etc) by conducting extensive field trials on varied terrains and load conditions. RSB ensures competitive edge by providing sealed for life Roller Bearings, Fully enclosed seals, Face serrated yolks & flanges, Polyamide coated slip joint, Best-in-class NVH.

Other features include Heavy Duty Center Bearing Assembly, Cross Assembly, Multi-Lip Sealing, Increased Deflection Angles, Involute Spline Profile, Metallic Dust Jacket with Neoprene Seal etc.

Complete Backward Integration by way of captive forging plant.

Company has joined hands with Premier Institutes / Universities for developing the Composite & Light material Propeller shafts for future applications.

RSB is keen to expand its global footprint through a unique combination of Indian dynamics coupled with global manufacturing facilities.



PRODUCTS & SERVICES

Axle Beams & Rear Axles

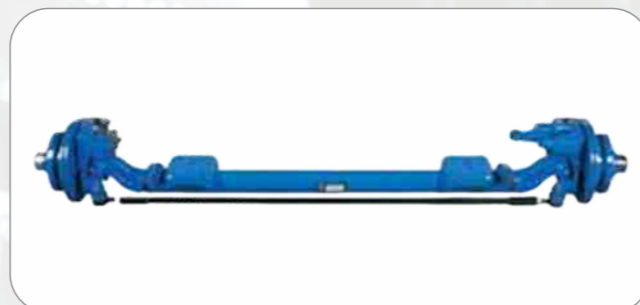
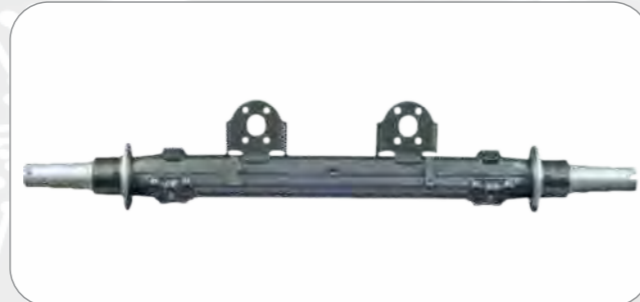
The Rear Axle Beams & Rear Axle assemblies are one of the most significant offerings from RSB.

Rear Axle Beams for Commercial Vehicles: Manufactured at Jamshedpur and distributed to OEM clients across the country. The products offered start from sub 2 T GVW till 55 T GVW capacity vehicles. RSB Designed solutions are also available apart from manufacture of Beams designed by the OEM client.

RSB is the market leader in manufacturing of Pusher Lift Axle Beams in India. A unique cold roller forming technology helps to generate the Drop up to 150 mm for the tubes with thickness ranging from 19 mm to 23 mm for Tube dia 125 mm to 140 mm.

The fully dressed Trailer Axles Designed & Developed by RSB finds popular usage amongst the many of freight companies for the various applications.

State-of-art technology with extensive validation capabilities, RSB Axle manufacturing include facilities for Hot Forming of Beams, Robotic Bracket Welding, Friction Welded Spindles, etc.



Front Axles for SCVs:-

Manufactured at Pantnagar, Uttarakhand, the plant caters to the requirements of Automotive OEMs in India apart from other axle related products.

The company with its in-house Design facility can offer the fully build axles meeting various customers requirements based on their vehicle applications.

The Group's Engineering Facility closely works with the customers to assist in activities related to Design, FEA, Prototyping, testing and Field Trials of all axle variants produced.

PRODUCTS & SERVICES

Suspension Systems

RSB has entered in to a Technical Tie-Up with Reyco Granning LLC. of USA for Design, Development & Supply of best in class Air & Mechanical suspension Systems to Indian Customers. With Reyco's more than 92 years of experience in designing and manufacturing suspension solutions & RSB's understanding of Indian road usage conditions & OEMs requirement here's what customers can expect:

- Suspensions that deliver best in class durability and reliability.
- Custom designed suspensions that match vehicle application and performance requirements.
- Responsive manufacturing systems to meet customer demands.

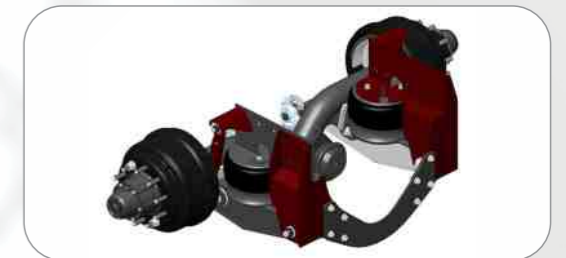
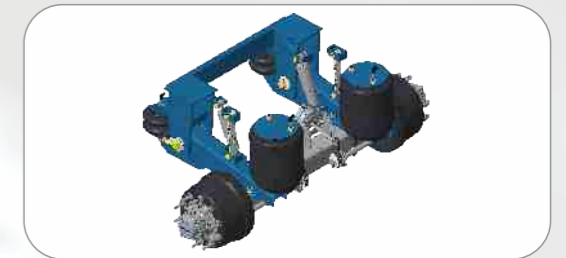
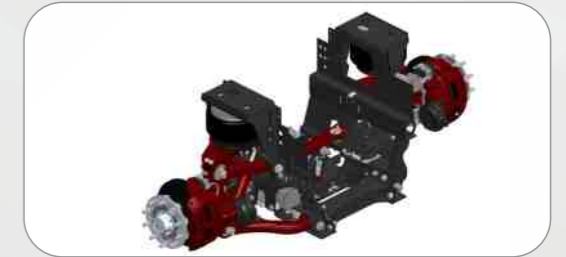
The collaborative working of RSB with Reyco, ensures our experienced engineers work closely with our customers to implement suspension solutions that go beyond design. Thus, we are committed not only to our direct customers but to the end customers as well.

Fifth Wheel Coupling & King Pin

RSB is the largest Fifth Wheel Coupling & Mounting Plate manufacturer across India, providing a wide range of Fifth Wheel Couplings along with Mounting Plates & Coupling Solutions to all the OEMs. It is at the forefront of Fifth Wheel technology built on safety, high quality engineering & first class customer support. RSB Fifth Wheel Couplings are approved by ARAI as per IS:15101:2002 for all trailer applications.

RSB's Fifth Wheel Couplings are designed & manufactured to fulfil the most stringent requirement in terms of safety, simple operation & ease of service. The Product offerings include, 20T, 28T & 36T Fifth wheel couplings.

The right quality of the King Pins plays a pivotal role in performance of the tractor trailer applications. The King Pins Designed & Manufactured by RSB with unparalleled Quality ensures full reliability for the customers.



PRODUCTS & SERVICES

Gear Boxes, eV-Reducers, e-Axles & Transmission Components

The Gear Box, eV-Reducer & e-Axle Manufacturing facility provides end to end solution to customers based on its vast industry experience & expertise. The company has successfully Designed & supplying Gear boxes for Small Commercial Vehicle segment. RSB forayed in to Design & Development of Gear Boxes for Steering (Bevel Box) and Industrial applications also.

In order to address the future markets, RSB has developed its capabilities & ventured in to Design & Development of Axles & Reducers for e-mobility applications & offering products & services to SCVs & Passenger Car applications.

Dedicated Assembly lines & End of Line (EOL) testing facilities ensure the Quality of the products are meeting customers specifications.

The Transmission Components are catered to diversified segments including Passenger Cars, Commercial Vehicles, Tractors, Pumps, Engines etc.

Advanced CNC machines for Broaching, Hobbing, Shaping, Shaving and Gear Teeth finishing by "Grinding / Power Honing" Process have been installed thus providing the capability to manufacture "DIN Class 5" Gears.

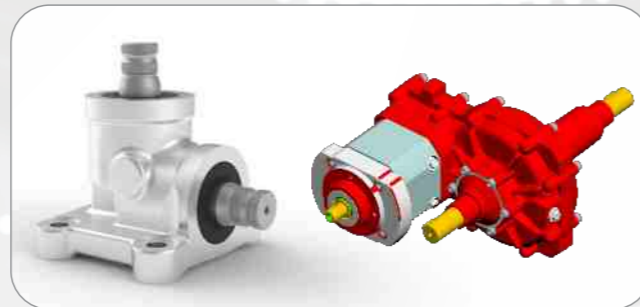
Extensive use of in house Heat treatment facilities; Rotary & Sealed Quench Furnaces for Carburising & Carbo Nitriding etc. ensures optimum HT specs are met always.

The Metallurgical & Metrological facilities include CNC Klingelnberg Gear Tester, Carl Zeiss Microscope, Contourograph, Roughness & Roundness Tester, CMM, Micro-hardness Testing, Spectrometer.

Dedicated cells are installed for providing consistent quality products, desired quantities and on-time delivery.

The plant specializes in supplying complete range of high quality Transmission Gears, Engine Gears, Hubs & Sleeves through special processes, viz;

- Hypo-Cyclodial Back Taper Milling
- Continuous Synchronized Chamfering
- Induction Plug Quenching
- Laser Welding for Speed Gears
- Teeth Grinding / Power Honing



PRODUCTS & SERVICES

Castings

RSB has installed 30,000 MTPA Foundry in Cuttack - Odisha. This facility has the Japanese SEIATSU High Pressure moulding line of SINTO ACE-5 make with a box size of 900 x 800 x (300 /300) mm with a speed of 120 moulds per hour. 60 TPH German EVACTHERM sand technology coupled with latest DUAL TRAK induction melting make the facility one of the most sophisticated Foundries in India for entire grades of Grey, Nodular & Austempered Ductile Iron (ADI) castings. The parts manufactured are in the weight range of 8 Kg to 80 Kg.

High level of Design, Simulation & Testing Capacity built on RSB I-DESIGN platform and fully independent in-house casting sand & melt lab confirms the engineering & quality capability of this casting plant.

Forgings

RSB has come up with a state-of-the-art Forging facility in 2008 at Cuttack, Odisha, as a backward integration plant for catering its captive forging demand of Propeller Shaft & Axle manufacturing units. Subsequently plant started catering to the demand of other domestic as well as overseas OEM customers.

This facility is backbone of Group's Forging requirements. It produces all types of forgings required in Propeller Shaft, Axles, 5th Wheel Coupling & Front Axles etc.

The Forging Facility has two Forging Lines, each comprising of Induction Heating Machines for Billets heating, 2,500 MT Press & Trimming Press coupled with a common continuous cast link HT furnace for hardening & tempering, Shot blasting machine and MPI station. The facility has a capacity to produce 1,000 MT per month Forgings and can produce parts in the weight range of 5 Kg - 15 Kg.

Established on RSB's strong foundation of social responsibilities, participation of locals as employees, a team of dedicated and highly professional specialists & latest manufacturing technology makes RSB committed on Quality, Cost, Delivery & Inclusive Development.



CONSTRUCTION, MINING & INFRASTRUCTURE (CMI)

Aggregates & Attachments

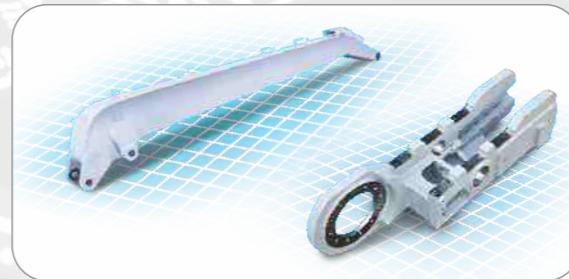
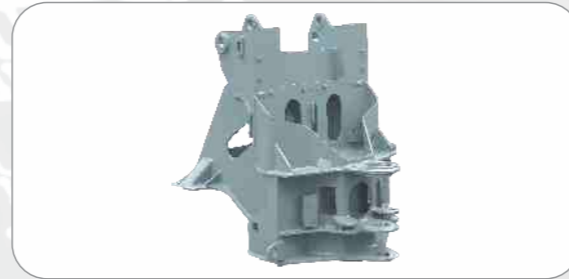
RSB is the fore runner in the Construction Equipment Aggregates manufacturing industry in India. The group is sought after as a preferred source for the products from Construction Equipment OEMs. It has set up four manufacturing facilities at Jamshedpur, Dharwad, Chennai, & Sricity, one more plant is coming up in Cheyyar, Tamil Nadu

RSB is serving as single source to many Indian & Overseas customers. The Service & the efforts are being reflected by the faith of our customers & hence group has reached significant milestones in this business.

The manufacturing units have been empowered by contemporary tools & techniques that enable best in class Productivity & Quality. Advanced processes & state-of-the-art facilities such as CNC Laser, Plasma & Oxy Cutting, Press Machines, Robotic welding, CNC Floor boring & Machining Centers, etc. have been installed.

Process engineering, Customised design & engineered fixtures for welding and assembly of the aggregates ensures reliable products are delivered to customers.

The group is also deeply involved in Value Engineering exercises with customers to reduce overall costs & realise the quality goals.



MANUFACTURING FACILITIES

The Group's facilities are located across the length and breadth of this country, at various strategic locations like Jamshedpur, Pune, Dharwad, Chennai, Pantnagar, Cuttack, Sri City, Cheyyar & Lucknow and Overseas operations at USA & Mexico. With 15 manufacturing units under its umbrella, the Group is now a respected name in the domain of Engineering & Automotive Systems and Construction & Mining Industry Aggregates Manufacturing.

The core competency of the Group lies in Designing and Manufacturing of Aggregates and Systems related to Commercial Vehicles, Passenger Cars, Construction Equipments, Farm and Off-highway Equipments and Industrial Applications.

All the manufacturing locations are equipped with latest state-of-the-art infrastructure to ensure the optimum process capability & meeting the critical & complex technical requirements.

As a part of its continuing growth plan and obsession for better control over quality of the raw materials, RSB has made backward integration by getting in to manufacturing of Castings & Forgings for captive consumption.



RSB OVERSEAS

USA: RSB Transmissions NA Inc.

RSB group has acquired Miller Brothers Manufacturing Co.; a Michigan based privately held automotive components and products manufacturing company near Detroit in 2006. It is a specialty transmission component manufacturing company catering to American Axle Manufacturing, Eaton, Magna and DANA.

Through this acquisition, RSB has established a base in the heart of one of the world's biggest automotive market and has gained access across major locations in the US.

The core competency is in making planetary gear housing, propeller shaft components and other transmission components using CNC equipment and robotics. It caters mainly to Commercial Vehicle, SUVs and Off-road vehicles.

Over the past few years, RSB NA has specialized in Diff. Cases and covers the entire range from SUV to Heavy Duty Trucks supplying sizes ranging from 6.5" to 1.5".

MEXICO: RSB Transmissions de Mexico

RSB Transmissions de Mexico, a Greenfield facility has been commissioned in 2011. This took care of the needs in sustaining and ramping up volumes and also improve the supply chain efficiency as many of North American customers have also opened up their manufacturing base at Mexico. This facility has started offering Gears & Shafts along with other similar components manufactured in RSB NA location.

The plant is equipped with state-of-the-art machine tools, viz; HMC, VMC, Grinding, Hobbing, Broaching etc. and is ensuring the product quality through stringent inspection by CMM, Hardness testers & other Digital inspection instruments.



QUALITY

The Race to Quality has no Finish Line...

The rise and rise of RSB is characterized by its faith in Quality in every sphere of activity. This faith in Quality has paid rich dividends for the Group.

The early '90s saw RSB achieving ISO 9002 & QS 9000 followed by ISO/TS 16949 & OSHAS 18001, ISO 14001 in 2004-05 milestones which had a direct bearing in improving quality & organizational efficiency.

All the manufacturing units of the RSB Group including the RSB NA Inc., RSB Mexico have received IATF 16949:2016 and ISO 9001:2015 certifications as applicable. The Group has also attained ISO 14001 certification for Environmental Management System and ISO 45001 certification for Occupational Health and Safety Assessment Series.

RSB Transmissions (I) Ltd, Auto Division (Unit I Jamshedpur, Pune & Pantnagar) awarded with the coveted Deming Prize for outstanding performance in Total Quality Management Practice by JUSE (Union of Japanese Scientists & Engineers).

RSB Transmissions (I) Ltd, Auto Division (Unit I, Unit 3 & Unit 4 - Jamshedpur) & CMI Division (Unit 2 - Jamshedpur) awarded with TPM Excellence Award Category "A" by JUSE.



GLOBAL PRESENCE

The RSB Group has been exploring and expanding in the international markets.

The Group has also increased its manufacturing presence globally through acquisitions in North America and Green Field Project in Mexico.

The Group has focused on overseas markets with exports to the traditional American & European markets. Also, potential break-through is expected in components exports for the other countries.



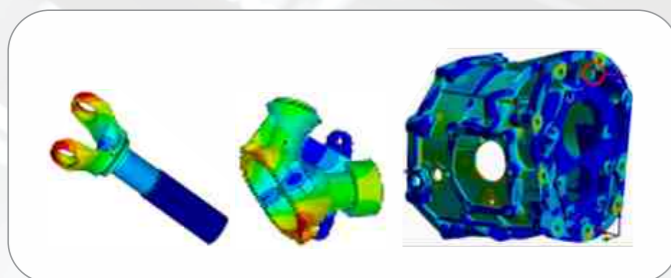
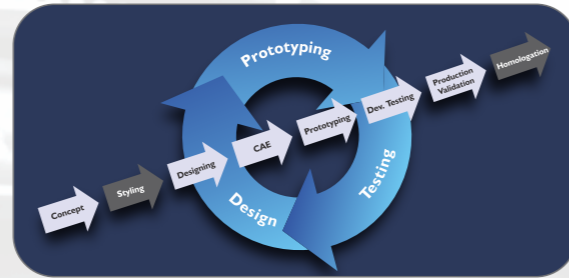
I-DESIGN

I-DESIGN was established in 2002 with a core vision to support automotive and other industries through continuous Research and Development program and to provide integrated and customized Engineering solutions.

I-DESIGN handles a variety of Engineering responsibilities such as CAD activities, Finite Element Analysis, Computational Fluid Dynamics, Designing, DFMEA, Value Engineering, Prototyping, Product Development, Testing & Validation, Process Automation, Test Systems Development, Instrumentation and Control Engineering, PLC and SCADA programming, Field test and Data acquisition.

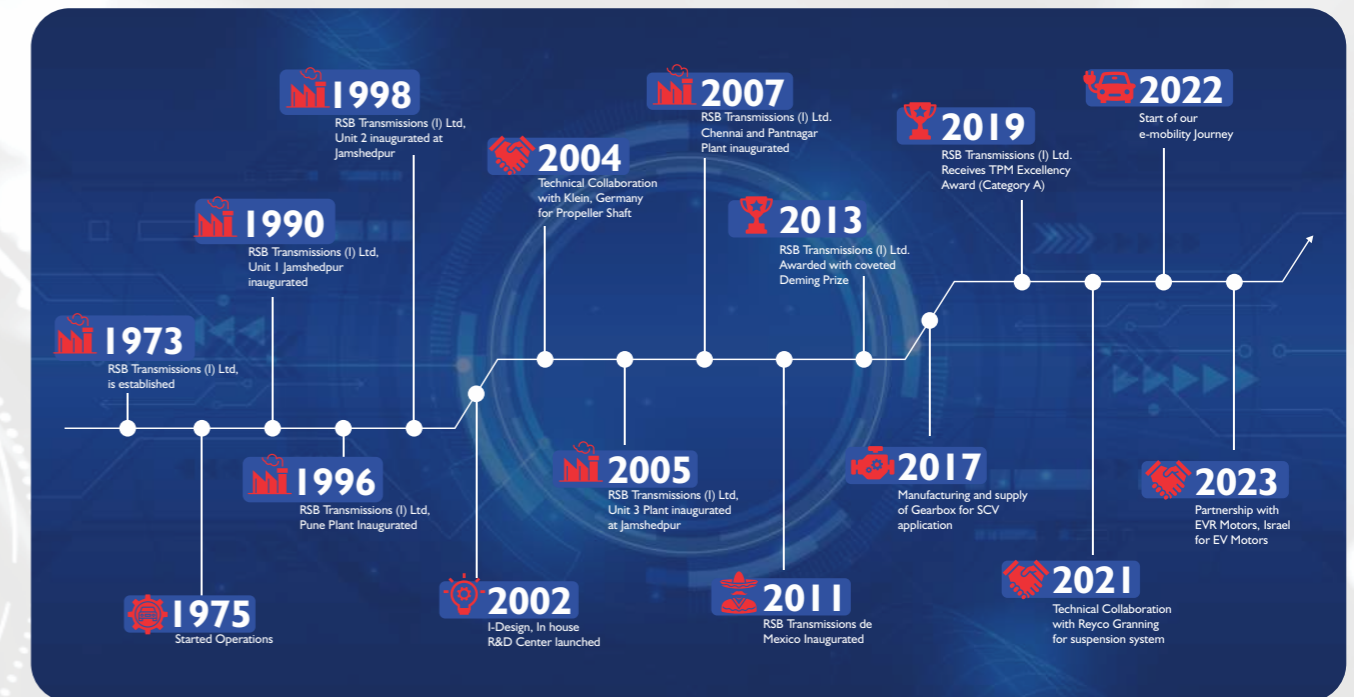
All services provided by I-DESIGN are managed by experienced professionals and qualified Engineers. I-DESIGN is headquartered at Pune and have two design centers at Jamshedpur, Bhubaneshwar and planning to put up a center at Chennai.

To name a few I-DESIGN customers; TATA Motors, Volvo, VECV, Ashok Leyland, FIAT, Mahindra, Daimler, John Deere, JCB, New Holland, Piaggio, MG, Cummins, Honeywell, Eaton, Magna Steyr, NBC, FAG, Timken, L&T, KPIT, DRDO & ARAI Labs, etc.



JOURNEY SO FAR...

Not resting on past laurels



ESTEEMED CLIENTELE
