

RSB

We have set our eye
on the future



MANAGEMENT

Leading from the front... we are the RSB Group,

India's leading engineering and automotive systems & component manufacturing business house. Promoted by R. K. Behera and S. K. Behera, the group started its operations in 1975. (Continued on page 31)



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Today, the Group stands for a unique culture of seeking growth through commitment to technology, product quality, innovation and employee relations.

The Group also believes in serving the customers with honesty to attain higher satisfaction levels. The Group is led by a team of experts whose domain knowledge and expertise have assured systematic functioning.

Under the leadership of highly qualified professionals, the Group aims to achieve global standard for excellence in engineering and quality.

PEOPLE

Driven by the passion to excel...

The Group strongly believes in its people. And hence emphasizes on valuing people and not just profits. It is reflected by our work culture that values the ideas and merits. The Group has a collective strength of more than 3400 employees. Expertise and teamwork of the employees have strengthened the Group and ensured finest quality and cost-effective products.

The Group also believes in attaining organizational excellence by developing and inspiring the potential of the work force. Hence the Group has adapted a system of recognizing and rewarding its employees. The Group has been successful in attracting and retaining talent from reputed academic institutions.

GROUP COMPANIES

The RSB Group comprises of RSB Transmissions (I) Ltd, I-Design Engineering Solutions Ltd., i-Design Engineering Solutions Ltd., RSB TRANSMISSIONS NA INC, USA.

The Group companies function with the philosophy of providing quality products and state-of-the-art technology and latest IT infrastructure that enables smooth functioning. The Group's core capabilities range from designing to manufacturing of aggregates and systems. The Group has three strategic business units : Auto Components & Systems, Construction Equipment Aggregates and Road & Rail Transportation Systems Working for some of the most demanding clients has contributed to the growth of the Group. Today, the roster of its clients include Tata Motors, Mahindra, Teicon, Caterpillar, John Deere, JCB, Lombardini, Ashok Leyland, Intertractor, FIAT, Daimler, AMW, KAMZA, TEREX, etc.

Clients serviced from our international manufacturing locations include American Axles, GKN, Magna, Borg Warner, Grede, Ford, GE, Atla,

EastonAllison, Terex, Etc.

CHAIRMAN SPEAKS...

Tomorrow belongs to those who prepare for it today – Malcom X Quotes

This also holds true for the RSB Group.

We, at the RSB Group, believe in learning from the past, living in the 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 the fundamentals.

Quality can be achieved through pre-defined route and parameters, extensive research and innovation. Dedication and teamwork adds to the same.

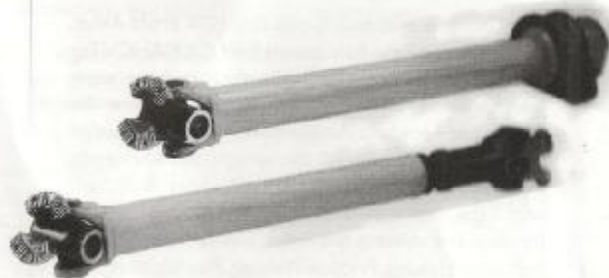
The secret of success lies in maintaining the harmony in internal relationships that gets translated to higher standards of duality.

Now, we are at a crucial juncture in our organizational life having set our eyes on redefining the future. Success is guaranteed with our determination and commitment towards quality. However, our core belief remains the same that the customer is everything and it's the quality that can only serve them the best.

PROPELLER SHAFT

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

The Propeller Shaft range covers torque carrying capacity from 4000 Nm to 30,000 Nm with higher torque range capability in the offing. The Group is focused on catering to the present and futuristic commercial vehicle, power transmission requirements and meeting the stringent quality norms.



A range of new generation Propeller Shafts, offering un-beatable value & reliability through:

- In-house component manufacturing with SPM's for all critical machining
- In-house phosphating facilities and sophisticated Paint Shop
- Latest generation 3 plane Balancing Machine with digital PLC
- Fully automated line for manufacturing Cross & Bearing Cup with online SPC
- In-house Metallurgical Lab to ensure validated raw material inputs
- 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 with validated newer designs extended to cover several models of Commercial Vehicles, Truck, and Buses by conduction extensive field trials under varied terrains and load conditions. RSB ensures competitive edge by providing re-designed Roller Bearings, fully enclosed Seals, Serration Joints, RILSAN Surface Coating Treatment. The other features include Heavy Duty Center Bearing Assembly, Cross Assembly, Multi-Lip Sealing, Increased Deflection Angle between Forks, Spline Profile, Metallic Dust Jacket with Dust Jacket with Neoprene Seal, etc.

We have recently completed backward integration with installation of forging plant in Orissa.

AXLES

Axles are one of the most significant products offered by the Group. It has a staggering capacity to manufacture 500,000 Axles/year. Well-equipped manufacturing lines have been dedicated to develop & supply a variety of Axles.

The Group is efficiently producing LCV Front Axles, Tractor Axles, Rear Axle beams for LCV, M&HCV, Tag Axle & Trailer Beams. Initially the products were manufactured to suit customer designs, but now the Group provides Axle solutions with their own design that can universally match the varied customer needs. The Integrated Engineering Plant has been facilitated with the state-of-the-art-technology to design, develop and validate the Axles. The facilities include Induction Heating, Friction Welding, Flexible designed

SPM's, CNC Turning / Vertical Machining Centers, Painting, etc.

The plants have comprehensive engineering and manufacturing processes for the customer designed Axles. The Group also ensures the efficacy by providing customized solutions with its designs. 'i-Design', the Group's engineering facility, closely works with the customers to assist in activities related to design, FEA, prototyping, testing & field trials. Modern plant for manufacturing LCV Axles has been commissioned at Pantnagar, Uttarkhand in 2007.

TRANSMISSION COMPONENTS

The Group's Gear Manufacturing Units provide in-depth product support to prospective OEM clients based on its vast industry experience & expertise. It manufactures an extensive range of fully finished Gears to cater to diversified industry sectors including Commercial Vehicles, Passenger Cars Tractors, Pump OEM's. The Group is renowned for its added customer service such as, fast turn around, individual attention to complex orders, etc.

The plants have organized amenities for Gear Cutting, Heat Treatment, Finishing and Final testing under one roof, complying to DIN Class 6/7. Advanced CNG Gear Cutting Machines for Hobbing, Shaving, Shaping and sealed Quench Furnace for carburizing & Carbo-Nitriding have been installed. The equipments also include a complete package of Metallurgy & Metrology comprising CNC Kligelnberg Gear Tester, Carl Zeiss Microscope, ContouroGraph, Roughness & Roundness tester.

The Group identifies the requirements of the customers and accordingly establishes manufacturing cells to ensure consistent quality with on-time deliveries.

Group has commissioned a modern gear plant for manufacturing Passenger Car Gears, Fully Finished by Gear-Teeth Grinding / Power Honing

Special Processes

Shifter Sleeves: Hypo – Cycloidal Back Taper Milling & Continuous Synchronised Chamfering

Laser Welding, Rotary Hearth Furnace for carburizing & Carbo-Nitriding, Induction Plug Quenching

PRECISION MACHINED COMPONENTS

The Group offers precision machined castings (ferrous and non-ferrous) for a variety of

applications.

The products range includes machined aluminum components such as Cylinder Heads, Rocker Arm Carrier, Valve Base Covers, Manifolds etc.

The Ferrous Castings Products range includes Cylinder Blocks & Heads, Fly Wheel Housings, Exhaust Manifolds, Oil Cooler Covers, Gear Box Housings.

The Machining lines have been established according to the products offered to the customers. Plants have modern & high-speed machining centers for high volume production. CNC Pre-setters, CMM's have been installed to ensure quality.

Ability to manage complete Supply Chain right from Castings procurement stage.

ROAD & RAIL TRANSPORTATION SYSTEMS

The Group is amongst the largest Trailer manufactures in India in the organized sector.

Its specialization in the field of heavy fabrications with critical machining has enabled it to cater to the requirements of the Trailer Industry. The Group is the only Trailer manufacturer in India having its own Axle Manufacturing Facility. It manufactures the most ideal Trailers that are light in design and its usage of laser technology creates a better wheel alignment.

Modern design techniques like FEA's and design software like PRO-E, UG by the design house i-Design helps in manufacturing highly efficient Trailers. The Group expects the Trailer business to grow @ 50% Y.O.Y. and this will contribute highly towards the Group's progress.

The facilities at the manufacturing plants include a Semi-Automatic Welding, Shot Blasting, 400 hrs SST in the Liquid Painting Process. Every trailer is strictly

scrutinized through static & dynamic testing before handing it over to the customers. These Trailers meet the CMVR norms.

Every element is developed after a comprehensive detailing. A parallel I-beam has been developed for better strength to weight ratio. Modern FEA techniques are deployed for precise fabrication. A strategic alliance has been formed with a reputed Axle manufacturer in Germany, for the latest Axle technology with Anti-Lock Braking System, Disc Brake, Air Suspension, Lifiable Axle and Boggy Axle.

RUNNING GEAR SYSTEMS

The Group offers its own designed & manufactured Running Gear Systems like Axle, Fifth Wheel Coupling, king Pin & landing Legs. These designs are developed through advanced methodologies including FEA's and design software like PRO-E, UG by the Group's design house i-Design.

The Group's 5th Wheel Coupling Design is at par with latest European models, having CNC machined forged components, double spring features available with both cast & fabricated leg and secondary locking system. With a commitment to serve the customers better, the Group has organized after-sales service network across the major cities of India.

The manufacturing plants are armed with equipments like robotic welding in the 5th Wheel, King pin, Submerged Arc Welding, Shot blasting, 400 hrs SST, etc., to ensure cost-effectiveness, better quality and durability of the products.

Latest designing software and FEA techniques have been installed. The 5th Wheel Couplings have been safeguarded by Double Locking System and are being used in order to enhance performance. Moreover, Special Rubber Bushings are installed for impact loading.

Maruti to get 1 lakh diesel engines annually from Fiat

In a move that would help Maruti Suzuki meet the high demand for the diesel versions of cars such as the Swift and Dzire, the carmaker has tied up with Fiat for sourcing one lakh diesel power plants annually over three years.

Beginning this month, the agreement will help the car market leader ramp up output of its diesel variants. This will help it improve languishing monthly sales volumes and reduce waiting period on many models. Over the past year, Maruti has been unable to increase its own capacity for diesel engines, even as demand has significantly shifted in favour of diesel cars because of a lower ownership cost.

"Fiat and Suzuki Motor are continuing to expand their existing fruitful long-term business relationship. The parties have reached a further agreement for the supply of Fiat's 1.3L Multijet 75hp BS-IV Small Diesel Engine produced under licence by Fiat India, the joint venture between Fiat and Tata Motors, to Suzuki's affiliate company Maruti Suzuki," an official statement said.