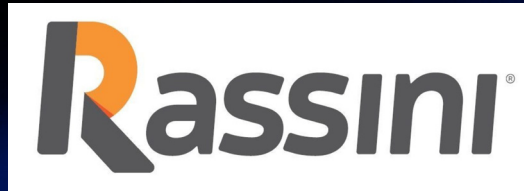


WINNING ON DURABILITY

Endurica User SPOTLIGHT



Rassini is a global company that designs and manufactures components for suspension, brake and anti-vibration systems for the automotive industry, including both electric and internal combustion urban, family, off-road, sport, luxury and commercial vehicles. More than a manufacturer, Rassini is a design and solutions company, recognized worldwide as a pioneer in the development of new technologies as well as constant innovation in product and process engineering.

The company's 6,500+ employees work from eight production plants, five technology centers and offices in Mexico, the United States, Brazil, Germany and Japan. Rassini provides components to automakers in 10 countries supplying over eight million vehicles every year. Furthermore, 51 vehicle models around the world use at least one Rassini product amid major original equipment manufacturers including General Motors, Ford, Toyota, Volkswagen, Tesla, Daimler, Audi, Mercedes Benz, Nissan, Volvo and Mitsubishi.

Our customers value durability, and we deliver it with confidence.

— Jaime Galvan
Engineering Manager

Elastomeric Products Include:

Bushing assemblies for springs
Engine bumpers | Jounce bumpers
NVH reducing products
Single and double bonded bushings for shock absorbers
Shot bushings
Bar pin single bonded bushings for shock absorbers



TECHNOLOGY LEADERSHIP AND CUSTOMERS' RECOGNITION

Throughout 2017, Rassini continued to look for opportunities around the world, focusing primarily on new technologies on products, processes, materials, software and robotics.

In the second half of 2018, North American Suspensions Division anticipates that its efforts will focus on research and development of new lightweight materials for the production of leaf springs, and will begin the delivery of its hybrid leaf springs for one of the best-selling light commercial vehicles in the world.

At our Bypass facility in Queretaro, special emphasis has been given to the technological development of elastomers. In 2017, the following milestones were achieved:

- a. Implementation of Finite Element Software (Endurica) was carried out for the purpose of predictability in fatigue. By the end of 2018, Bypass will be one of the few companies in the world that will be able to predict with 90% assurance, the performance and life of a suspension bushing.
- b. Inauguration of a new elastomer laboratory, one of the best-equipped in North America.
- c. First double compound bushing was developed at the prototype level, which opens up important business opportunities.
- d. A 3D carbon fiber printer was acquired.

Endurica Value Add for Rassini:

- Win new business
- Shorten product development cycles
- Get to market faster
- Make the best design decisions for durability



Being a leader in technology means having the freedom to create, connect, manage, protect, discover, save and, most of all, work efficiently and safely.

For Rassini 2018 was a year of using technology to move toward the digitization of its processes, productivity, cybersecurity and innovation.

A cutting-edge software was launched based on finite element modeling. This simulation software predicts failure due to material fatigue. Additionally, testing equipment was put into operation, which can test at 700Hz, in addition to the previous capacity of 250Hz, to validate anti-vibration products.

Endurica technology in two Rassini annual reports

Solutions for Elastomer Durability that are Accurate | Complete | Scalable endurica.com

Endurica
Get Durability Right®

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