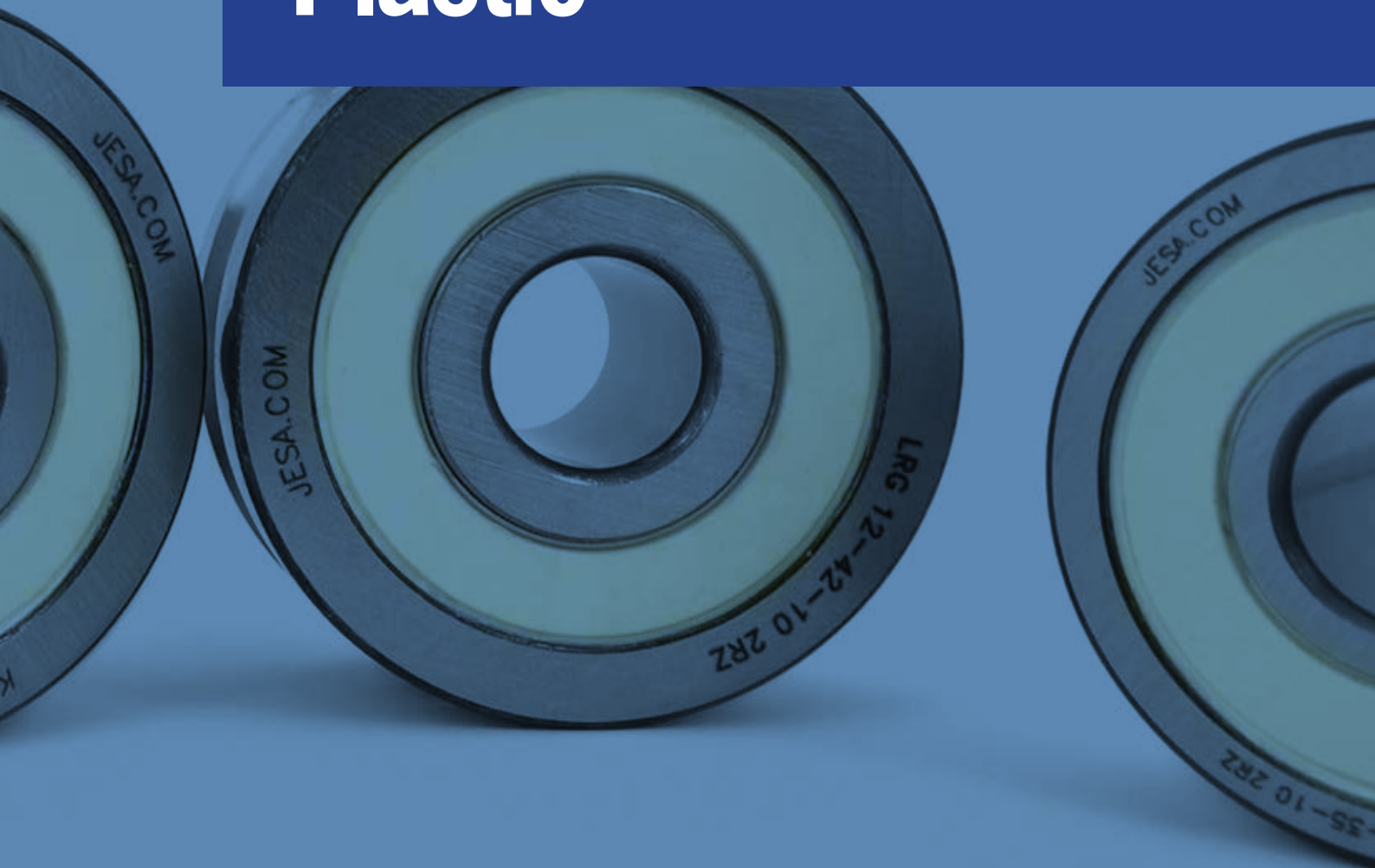


For 40 years JESA has been offering tailored and customized solutions for tough challenges! Today the company is known as “The Specialist” in tailored bespoke solutions, containing ball bearings, machine parts and stampings, often in combination with engineering polymers.



**JESA.**  
bearing solutions

# The Perfect Bond Between Bearings And Plastic



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Mr. Marcel Dubey, Sales & Marketing Director at JESA

JESA is today still working on the mission to be and to stay the preferred partner for the development and production of high-precision bearings and mechatronic drive units composed of metal and plastic.

The company has been through a period of new developments and structural changes in order to adapt to the new dynamic industrial environment in the world.

We tried to learn more about the “tailored solutions” of JESA during an interview with Mr. Marcel Dubey, Managing Director at JESA, located in Villars-sur-Glâne, Switzerland.

## ***What do you mean by “tailored bearing solutions”?***

During the development phase of a vehicle, a coffee machine or a conveyance chain, an engineer is frequently confronted with a multitude of constraints. The role of JESA in the development phase is to eliminate the restrictions and obstacles facing the engineer. We do this by going beyond the limits of catalogue products by developing ball bearings and tailored units that are completely adapted to the applications of our customers. Personalization of our tailored solutions is something we hold dear. Innovation, flexibility, quality and benefit for our customers are therefore

our watchwords. Our modern machine park has also been designed and developed with a view to ensuring impeccable performance and quality. Its flexibility also enables us to offer logistical solutions that are ideally adapted to the needs of modern industry.

## ***When did JESA start the production of bearings and how was the evolution in the company?***

April 1969 : Foundation of J. Egger SA

1971 : Start of production of special ball bearings

1976 : Construction of factory in Villars-sur-Glâne

1979 : Construction of workshops : mechanical, plastic injection, stock, arrivals, dispatch, cafeteria

1992 : Expansion of factory in Villars-sur-Glâne, company obtains ISO9001 certification

1998 : Expansion of the headquarters

2001 : Acquisition by Polygena

2003 : Foundation of JESA China in Wuxi

## ***Can you give us an overview of JESA products?***

JESA’s core business is the manufacture and design of ball bearings. JESA responds to the most

challenging and specialized demands from the market by offering tailor-made products which have a basic requirement for ball bearings. The most varied ancillary parts made of metal, ceramics, magnesium or plastic are perfectly integrated, to offer the following range of solutions :

- Ball bearings units
- Overmolded bearings
- Bespoke bearings solutions
- Miniature ball bearings (2 - 4 mm inner dia.)
- Standard ball bearings according to ISO 15

***What is your company sales by turnover and markets?***

Turnover by market segment:

- 51% industry
- 20% automotive
- 14% building
- 13% consumer goods
- 2% medical

***Can you describe a few application examples where JESA custom bearings are used?***

**ASYMETRIC ANGULAR BALL BEARING**



***Application***

Power tool

***Advantages***

- Self-alignment at assembly
- High axial load capacity
- Seals optimisation

**PROFILED TRACK ROLLERS**



***Application***

Guide wire

***Advantages***

- High load capacity
- Limited radial clearance
- Less cost of manufacturing

**BACK-UP BEARING**



***Application***

Vacuum pump

***Advantages***



- High static and dynamic load capacity
- High precision
- High acceleration capability

### ***What is your difference with the competitors on the market?***

We adapt our products to the customer needs, after precisely defining various criteria such as shape, load, material, lubrication or even water tightness. Our solutions based on bearings and plastic injection are developed in partnership with our customers.

With rigorous and professional project management, JESA is able to successfully implement tailored designs. At JESA, we offer personalized service and technical support in accordance with the ISO or the automotive quality system standard.

We can also provide bearings in combination with plastic. For each application, the ideal synthetic material as well as an optimized design of the ball bearing overmolded by JESA facilitates a long life, high allowable loads, low wear and quiet operation. The JESA engineering team analyses each application from A to Z in order to develop and manufacture a custom product that perfectly matches the specifications. With JESA's ease in the field of implementing plastics, special technical

polymers, the precise profiles and complex shapes are the JESA capabilities serving the innovative industry.

### ***What is your latest product development?***

Responding to strong market demand, JESA launched recently a standard version of its roller, until now custom produced. Each parameter was analysed, redesigned and optimised, both from a geometric standpoint and at design level in order to be able to offer a standard "LRG" product line, exclusively Swiss Made and with maximum efficiency.

JESA also is standardizing a series of specific chain rollers for plastic film stretching machines. More than ten years have passed since the Fribourg company started the production of the "LR 202" roller type for major plastic film producers in Germany. A specific range has been created to meet demand appropriately.

More information on JESA website: <http://www.jesa.com>

Custom bearing: <http://www.jesa.com/en/bearings/custom-bearings/>

LRG: <http://www.jesa.com/en/bearings/standard-bearings/profile-rollers-lrg-serie/>

LR202: <http://www.jesa.com/en/bearings/standard-bearings/lr-202-roller/>