

The Specialist for Special Cases

- **Milling Technology for Contract Manufacturing**
- **Companies that can react skillfully and quickly to market-specific requirements enjoy economic success.**
- **Specialists are needed who not only step in or deliver on short notice but also provide extensive consultation in addition to service and continuity.**

JRS – The system and technology partner

Expert application consulting, a comprehensive product portfolio and worldwide service under one roof – JRS, the global market leader in renewable, functional raw materials, is a driver of innovation and develops groundbreaking solutions for the food industry based on environmentally-friendly plant fiber technology. Special delivery forms for end products such as spheres and a number of common additives for coatings, as lubricants and highly loadable carriers are also included in the JRS portfolio.



In addition to these end products, our group of companies provides various

processing technologies like press and spray granulation, germ-reducing hot gas milling

or jet milling, and a contract manufacturing service.

Process heat and steam for production Efficient. Durable. Reliable.

www.bosch-industrial.com

Three good reasons for high-quality boiler systems from Bosch:

- ▶ Reduced energy costs for higher competitiveness
- ▶ Modular components for increasing efficiency of new and existing systems
- ▶ Industry-specific expertise and more than 150 years of experience



BOSCH
Invented for life

Realization of individual customer needs

JRS specializes in non-standard solutions and quantities; providing customized solutions for each customer and their product goals.

In addition, JRS subsidiaries with FDA approval offer the modification of solids, active ingredients and auxiliary materials along with the bioavailability of high-quality additives which are effectively increased through specific processes or encapsulation. An example of this would be by processes like ultra-fine milling in the fineness range of 2-80 µm. In contrast to conventional pelleting, unique granulation processes produce grains without short-term temperature peaks.

Contract granulation – contract compacting

Powder or fiber mixtures must be converted for products to be free-flowing and easily dosed; the most effective process for this is granulation or compacting.

At JRS, only the recipe components are compacted between the press rollers, without the addition of foreign substances. Crushing and screening devices are used to convert granulates into any desired grain size and compaction level. The procedure generally causes only a transient temperature increase of 20 - 30°C. Using special auxiliary equipment products that are very hygroscopic or temperature-sensitive products can be processed. The technology and global market leader is the only service provider in Germany to offer its customers certified compacting services with food standard FSSC 22000, HACCP in volumes of over 100 metric tons per month.

Modular, customizable plant park

As a global network partner, JRS has access to a logistics and production network around the globe. The unique production and process technology generates a wide range of products. Several JRS production facilities have a climatized, moisture-conditioned production environment that ensures year-round, weather-independent processability

of hygroscopic special products. JRS also has the ability to compact fine powders into solid granules.

Added value for the competitive edge

The owner-managed JRS corporate group stands for 140 years of innovation, quality, reliability and long-term perspectives. With more than 2500 employees working according to the philosophy of "green" JRS fiber technology on a continuous growth trajectory, the key premise is to achieve the highest possible added value for the customer.

JRS processes have been thoroughly prepared for decades and are always in line with the latest industry developments. Thanks to innovative process technology and comprehensive expertise, fully integrated solutions are created with unique performance while application specialists add value through extensive expert knowledge and custom formulation solutions for every customer. 

