

# **WE BRING COLOUR INTO YOUR PROCESSES**

---



*Agitator technology for  
the chemical industry*



**PRG**



# EXCELLENT QUALITY, FIRST-CLASS ADVICE: THE PERFECT MIX FOR YOUR SUCCESS

**More than 40 years of experience, innovative technologies and excellent service: this mix has turned PRG into one of the world's leading suppliers of agitator technology, agitators and agitator systems.**

With the highest precision and state-of-the-art production methods, we develop and produce agitating machines and systems for you. You can not only rely on the quality of our products, but also on our extensive consulting expertise: in-depth knowledge of the industry and a sound understanding of processes ensure that we always provide you with the optimum technical solution for your requirements – whether you are a plant planner for large industrial applications or a medium-sized company.

We carry out a test run of all our agitators at the factory to check the functionality and technical details. This allows you to commission our agitator technology on site very promptly. The agitators we use impress with their durability and maximum system availability. In addition, our service technicians are available to you flexibly for service assignments. This ensures short response times for maintenance and servicing issues.

**Quality and precision down to the smallest detail – this is what customers worldwide from a wide range of industries rely on.**



FOOD



NEW FOOD



COSMETICS



BIOGAS



PHARMA



BIOTECH

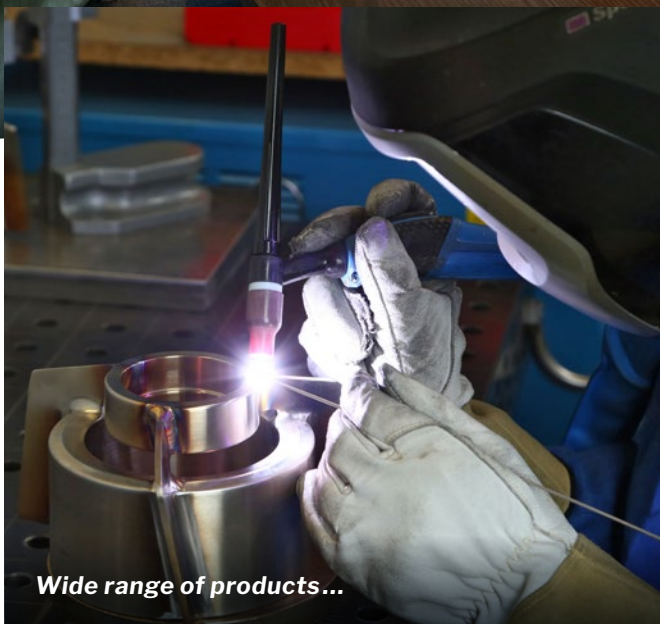


CHEMICALS

# HIGHEST PRECISION: FROM THE DEVELOPMENT TO THE AGITATOR



*Highest level of consulting expertise*



*Wide range of products...*



*... for the best mixing results*

# AGITATORS FROM PRG: AS INDIVIDUAL AS YOUR PRODUCTS

*To ensure you always achieve the best stirring result for your products, we offer you a wide range of highly developed agitator types. Special designs are also possible.*

*All of the agitators we offer are freely configurable and available for all common installation situations. This enables seamless integration into your processes. You can trust us to always provide you with the best technical solution for your production processes.*

*Do you have an unusual product or special requirements? No problem. Our internal development department will create special designs for you.*

*As diverse as our agitators are: they are all characterised by excellent material quality and maximum cost-effectiveness. Our exceptional production depth enables us to manufacture the majority of the required agitator components independently or process them in-house. This enables us to implement your wishes with the greatest possible flexibility.*

*At the same time, we guarantee precision and quality down to the smallest detail. It is a matter of course for us that, when manufacturing our products, we are always guided by the applicable legal requirements and your in-house factory standards.*

**So whatever you have  
in mind: we will build  
the right agitator  
for you!**



# JUST THE RIGHT CHEMISTRY

**Producing paints, varnishes and adhesives or plastics calls for agitators that can do a wide range of tasks – precisely tailored to the respective product and in consistently high quality.**

As one of the leading agitator system manufacturers in Europe, PRG offers you technically sophisticated products that are perfectly tailored to your requirements. Our highly developed coaxial agitators, for example, are extremely versatile and equally suitable for heating, cooling, stirring, mixing, dissolving, effectively transferring heat, and for storing numerous products.

Whether combining components of different densities or transferring, storing or buffering highly viscous and aggressive media: we design and build our agitators in close cooperation with the customer and, working from the specified parameters, develop tailor-made solutions for the most demanding of processes. This includes applications that encompass large pressure and temperature ranges, which therefore require a particularly robust design and high-performance sealing technology. Thanks to precise strength calculations, the high-quality components and materials, and the use of cooling and heating flanges, our products can also withstand extreme requirements. This resilience ensures maximum process reliability.

In the chemical industry in particular, agitator systems play a key role in potentially explosive atmospheres. That's why the explosion-proof design of our products and all relevant individual components according to the ATEX Directive 2014/34 EU is standard for us.

**All of these factors have made PRG agitator technology the first choice of renowned customers worldwide. We look forward to impressing you too with our services!**

**Examples of end products:**

Paints

Varnishes

Adhesives

Plastics

**+ many other products**



# HIGH PERFORMANCE IS OUR MOTIVATION

*Preparing suspensions and dispersions requires a variety of different mixing tasks. Depending on the product and the processes you specify, different technologies can be used here. Whether sophisticated high-speed machines or reliable gear-driven agitators, whether high- or low-solubility products: PRG always provides you the right solution – at the highest quality.*

*Our agitators are available for all common installation situations, which ensures seamless integration into your processes. Our innovative ideas and the continual further development of our products also contribute to making the production processes of our customers even more effective and economical. One example of this is our unique top-driven jet mixer, whose quick-change mechanism allows particularly straightforward replacement of the mechanical seal.*

*Another quality feature of our products is the space-saving and energy-efficient drive technology, which offers engine outputs ranging from 5.5 to 250 kW. This ensures favourable conditions for high-performance agitator systems that are perfectly suited to the special requirements of the chemical industry. After all, even high peripheral speeds of up to 30 m/s and the reliable drive provided by large shafts of up to 20 metres in length and a shaft diameter of up to 300 mm are easy to implement in this manner.*

***Benefit from the numerous advantages the tailor-made agitators from PRG offer. If you would like more detailed advice, we would be delighted to arrange a personal consultation with you.***

***Examples of end products:***

***Emulsion paints***

***Aerated concrete***

***Cleaning agents***

***Liquid detergent***

***Fertiliser***

***Polymers (suspension)***

***+ many other products***



# AGITATORS FOR THE CHEMICAL INDUSTRY



## Suspension reactor

- ✓ Suspending solids in liquids
- ✓ Easy-to-install design for servicing the mechanical seal
- ✓ Agitator design fit for purpose designed by PRG or dimensioned with sufficient power reserves according to customer request



## Coaxial agitator

- ✓ Two or more stirring tasks are performed simultaneously by two stirring systems
- ✓ Optimum heat transfer and good mixing in an agitator at the same time
- ✓ For sterile processes



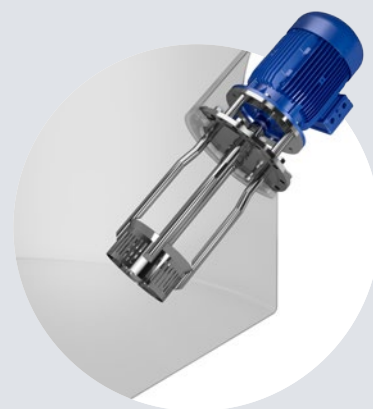
## Atex self-priming high-pressure magnetic agitator

- ✓ Installation from above
- ✓ Hermetically closed system
- ✓ With dry-running hybrid bearing



## Dissolver agitator

- ✓ Process-optimised installation position and short process times thanks to specially designed dissolvers with high shear intensity for a wide range of stirring volumes



## Jet mixer

- ✓ Dispersing powders in liquids
- ✓ High mixing effect with low use of material
- ✓ The optimum installation position enables shorter process times

# TAKE YOUR AGITATOR TECHNOLOGY TO A NEW LEVEL! **WE LOOK FORWARD TO RECEIVING YOUR INQUIRY**



Quality products made in Germany & India



PRG GmbH operates a certified quality management procedure according to DIN EN ISO 9001/2015 and also holds Ex certification according to Directive 2014/34/EU

PRG Germany

## PRG Präzisions-Rührer Gesellschaft mbH

Anton-Böhlen-Straße 13  
34414 Warburg | Germany

**Phone** +49 5641 9006-0  
**Fax** +49 5641 9006-99  
**Email** [info@prg-gmbh.de](mailto:info@prg-gmbh.de)

[www.prg-gmbh.de](http://www.prg-gmbh.de)

PRG India

## PRG Agitators Pvt. Ltd.

66 Alindra, Savli GIDC  
Manjusar, Vadodara - 391 775  
Gujarat | India

**Phone** +91 972 633 68 24  
**Email** [info@prgagitators.com](mailto:info@prgagitators.com)

[www.prgagitators.com](http://www.prgagitators.com)



Management  
System  
ISO 9001:2015  
[www.tuv.com](http://www.tuv.com)  
ID 900031876