
AGITATOR TECHNOLOGY IN PERFECTION



PRG
RÜHRTECHNIK IN PERFEKTION



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

With more than 35 years of experience in agitation technology and process engineering, innovative technologies and first-class advice, PRG mbH is one of the world's leading suppliers of agitators and agitation plants.

With the highest level of precision and state-of-the-art manufacturing methods, we develop and produce agitators and mixing systems that perfectly fit for your processes. You can rely not just on the quality of our products but also on our well-established expertise as consultants: Exceptional knowledge of the industry and a sound understanding of its processes ensure that we will always offer you the best possible technical solution to meet your needs. This is something that

our customers from a wide range of industries can always count on, whether they come from the cosmetics, chemicals, biotechnology, food, biogas or pharmaceuticals sectors, or are system planners for large-scale industrial applications or medium-sized companies.

Economical, innovative, reliable: Take your agitation technology to a new level - we look forward to your enquiry!

>120
EMPLOYEES

4,800 m²
PRODUCTION
AREA

>50%
EXPORT QUOTA



High level consulting from the very beginning of a project



Every Detail in high end finishing



Innovative technology for highest requirements



PRG company history from 1981 to the present

1981
Founded by
Hubert Dierkes

1990
New building goes up
at the Warburg site

2001
Frank Dierkes
appointed
Managing Director

2004
PRG joins the
BANG training
network

2005
Expansion:
Production area

2007
Further construction:
Warehouse customi-
sation and the production
of steel parts, offices and
training rooms

2010
PRG India
founded

2012
Further construction:
Offices, social areas, tech-
nical centre, final assembly
for pharma/biotech, small
parts and pallet storage

2016
Expansion:
Surface
finishing

2017
Further construction:
self-contained ware-
house and logistics



AGITATORS FROM PRG: JUST THE RIGHT CHEMISTRY

The processes and products of the chemical industry are as varied as the requirements placed on agitator technology used for this purpose. PRG offers a wide range of highly-developed and sophisticated agitator types that can be perfectly adapted to the respective task – including for highly complex mechanical and thermal processes or multi-phase systems.

All the agitators we offer are freely configurable, which guarantees seamless integration into your processes. We can also offer special constructions designed by our own development department to meet your specific requirements. As diverse as our agitators and stirring devices are, they are all characterised by excellent material and manufacturing quality, as well as the highest economic efficiency and reliability. This is because we exclusively use raw materials of the highest quality and selected components from well-known manufacturers.

When manufacturing our agitators for the chemical industry, we process all standard stainless steels as well as special materials that are ideally suited to the respective material requirements – for example, Hastelloy. Exceptional vertical integration in our production also allows us to manufacture or finish most of the required agitator components independently. This helps us respond to your wishes with the greatest possible flexibility and, at the same time, to guarantee precision, quality, and ease of maintenance – for example, with regard to the uncomplicated cleanability of our products. When constructing the agitators we offer, and when manufacturing seals and flanges, we also comply with common standards such as DIN 28161 or TA Luft.

Whatever you plan to do: We will build the right agitator for you!



Efficient and flexible: Coaxial agitators from PRG

SOPHISTICATED AGITATOR TECHNOLOGY FOR THE MOST DEMANDING OF PRODUCTS: WE BRING COLOUR INTO YOUR PROCESSES

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.

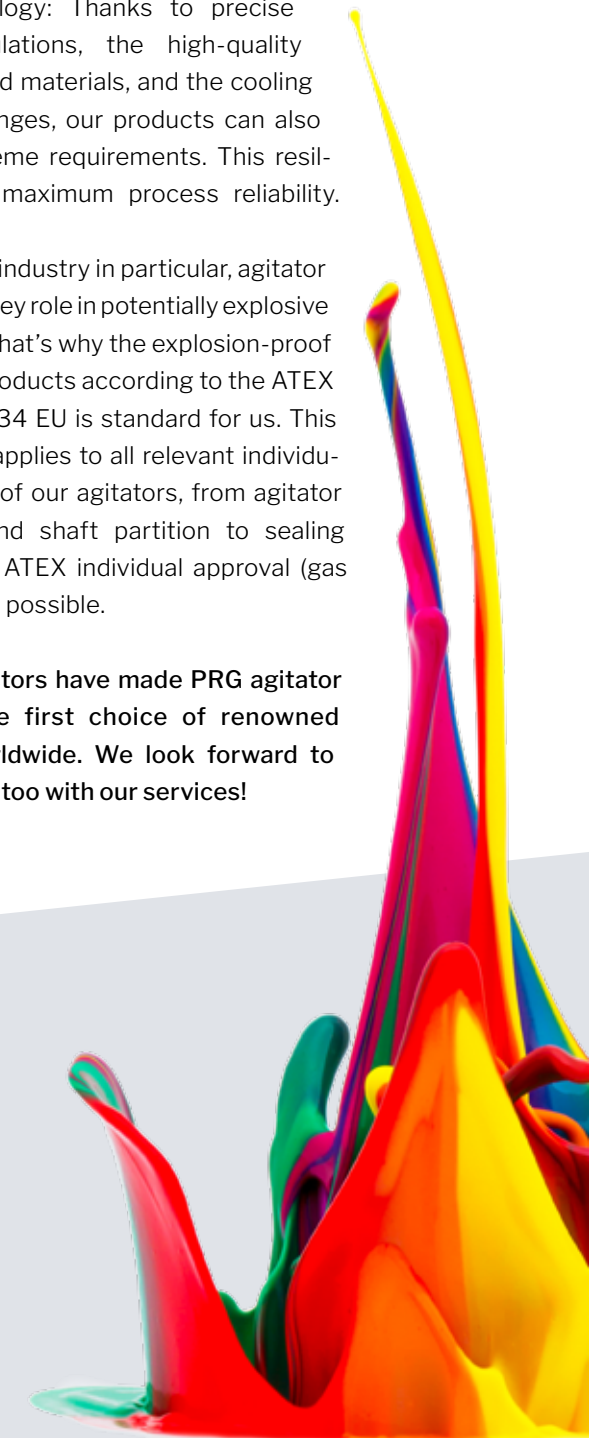
This includes applications that encompass large pressure and temperature ranges, which therefore require a particularly robust design and high-performance sealing technology: Thanks to precise strength calculations, the high-quality components and materials, and the cooling and heating flanges, our products 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 according to the ATEX Directive 2014/34 EU is standard for us. This of course also applies to all relevant individual components of our agitators, from agitator attachments and shaft partition to sealing technology. An ATEX individual approval (gas and dust) is also possible.

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!



For end products of the highest quality



SULFURIC ACID REACTOR

Product data: 60.0 m³ Sulfuric acid

Motor power: 250.0 kW

Output speed: 100 rpm

ATEX classification: II 1/2 G cb II B T4

Sealing: Seal and dismantling device in accordance to DIN and TA Luft (EN 12756 / API 682)

CO-AXIAL AGITATOR

Product data: 15.0 m³ reactor for high viscous products

Motor power: 18.5 kW / 45.0 kW

Output speed: 16 rpm / 70 rpm

ATEX classification: II 2 GD cb II BT4

Sealing: packing gland, rotary shaft seal, single and double-acting mechanical seal (optional: aseptic version)

HIGH PERFORMANCE IS OUR MOTIVATION: STRONG QUALITY FEATURES FOR OPTIMAL STIRRING RESULTS

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 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 device 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. 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 meters 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 happy to have a personal conversation!



Best stirring results even with multi-phase processes



SUSPENSION REACTOR

Product data: 5.0 m³ suspension

Motor power: 22.0 kW

Output speed: 120 rpm

ATEX classification: II 2 G cb II B T4 ; II 2 D cb T 135 °C

Feature: DIN-Impeller agitator with dismounting device

DISPERSE REACTOR

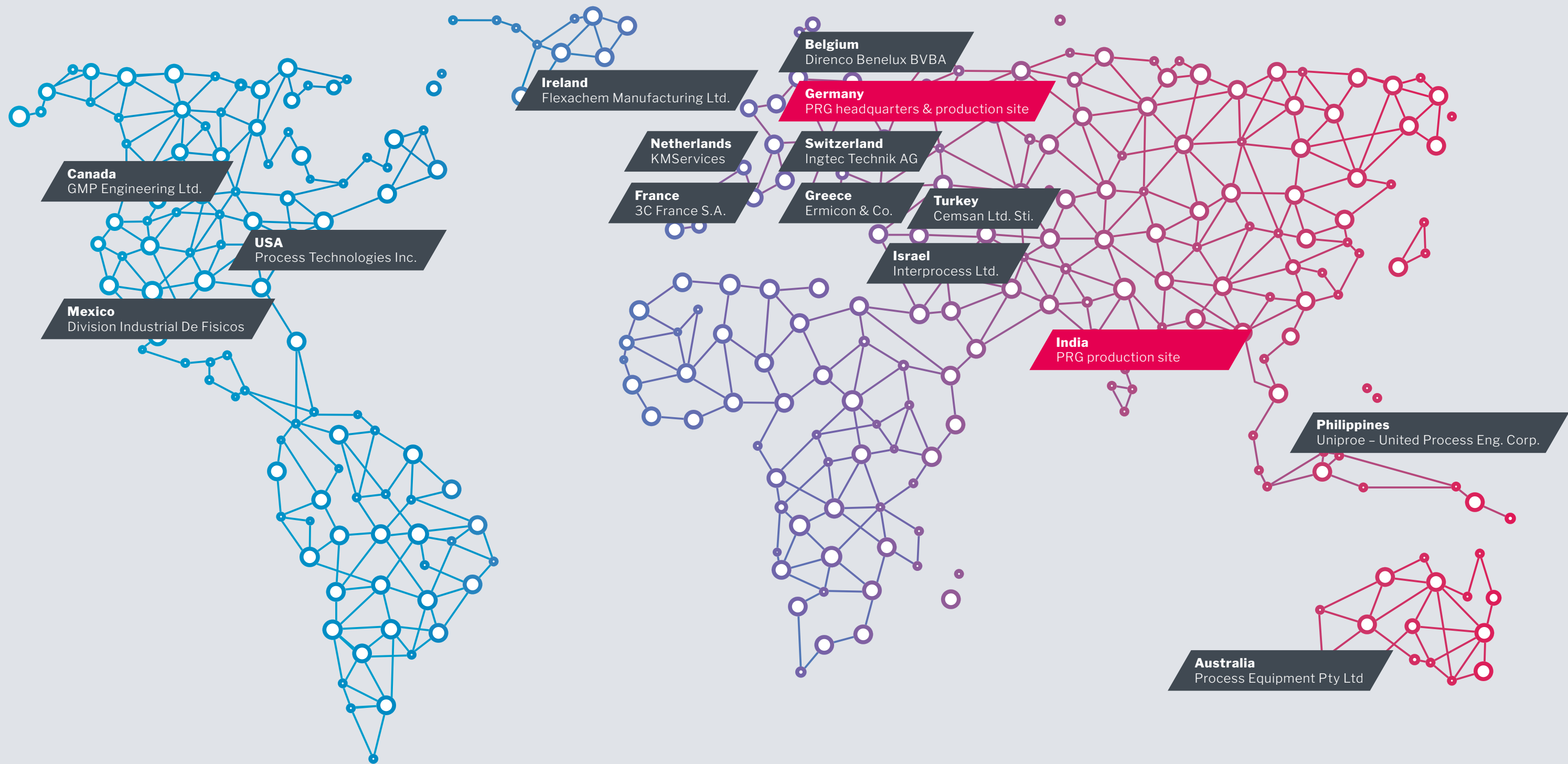
Product data: 6.0 m³ paints and varnishes

Motor power: 90.0 kW

Output speed: 1,000 rpm

ATEX classification: II 1/2 G cb II B T4 ; II 1/2 D cb T 104 °C

Feature: High shear rate with 28.0 m/s tip speed



WE'RE AT YOUR SERVICE THROUGHOUT THE WORLD

We take pride in offering you the best service for your PRG agitators and agitation plants at all times. This starts with advice and planning – and continues way beyond the manufacture of our products.

We're there for you around the clock – and around the world – and are on hand at all times with all the advice and practical support you need. Regardless of whether your agitation equipment needs maintenance, you want to further optimise your processes

or you need quick support and the right spare part in the event of a repair: With 15 sites or representatives on four continents, we're always close by and at your disposal at all times. We look forward to a cooperative partnership with you!



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AGITATOR TECHNOLOGY IN PERFECTION

Agitator technology for the chemical industry

With more than 35 years of experience, innovative technologies and first-class consulting expertise, PRG GmbH is one of the world's leading suppliers of agitators and agitation plants. Our products are used around the globe in a wide variety of industries – not only in the chemical industry, but also in the sectors of food, cosmetics, biotechnology, pharmaceuticals and biogas.

- Made-to-measure agitator technology
- Consulting expertise at the highest levels
- A broad product range
- Quality and precision down to the last detail

 **Quality products made in Germany**

 **The PRG GmbH operates a certified quality management according to DIN EN ISO 9001/2015 and also an Ex-certificate according to guideline 2014/34/EU.**

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