



# ONE STEP AHEAD with HIGH SHEAR XXL

## Trigonal®-Maschinen made by SIEFER – a pioneer and partner in efficient wet mechanical processing

For more than 50 years, Wilhelm SIEFER GmbH & Co. KG with its brand Trigonal® is specialized in the development of mixing and grinding machines for processing low to high viscosity products such as liquid mixtures or solids in liquids.



### Power and precision – the special functional principle

The core of each of our machines excels with its flexible design: rotor and stator each consist of up to four coaxially arranged rotor and stator rings (stages) which each have a toothed design and feature radial channels and/or bores. The number of rings as well as their shape, width, depth and alignment varies.



The resulting immense selection of rotor-stator-systems allows the machine to be optimally adapted to the specific task.

When selecting the appropriate rotor-stator system initially an intense product consideration has to be made: characteristics such as density, hardness, consistency and composition of the medium must be considered. Even temperature sensitivity, agglomeration behavior or surface reactions determine the correct configuration to achieve the desired grinding result.

While hard to brittle products can be crushed by impact, pressure and friction, soft and elastic materials are often to divide successfully only by cutting and shearing effects. If required, a patented shear cutting arrangement of the tooth flanks enables a unique cutting action for crushing elastic media.

With an export share of over 85% and its over 400 different rotor-stator systems SIEFER is the proven partner for a wide range of industries around the world!

Agricultural Chemistry, Paints and Coatings, Paper and Food, Pet Food and Bitumen - these are just some of the numerous industrial areas in which wet processing machines made by SIEFER have been excelling for decades.

### Research and Innovation

In 2014 the automatic gap adjustment –starting with the SM-D3- was developed by SIEFER in close cooperation with SIEMENS to further improve SIEFER's Trigonal®-Machine.



### Because good often is not good enough

The advantage is obvious.

You now always have the possibility to continuously adjust the gap between rotor and stator directly front the control station.

A big advantage for you as a user: all previously installed SM-D3 machines may be upgraded on demand.