

SETTING NEW STANDARDS FOR **ENERGY EFFICIENCY**

Meet your treatment targets
with our complete range
of mixers, flowmakers and
recirculation pumps

ENSURING EFFICIENCY AND RELIABILITY FOR YOUR PROCESSES

Mixing is extremely important in wastewater treatment and is one of the key operations for the achievement of treatment targets. Grundfos has released a range of **SMD/SMG mixers**, **SFG flowmakers** and **SRG recirculation pumps** that meets your treatment targets with a lower energy consumption for a wide range of applications, where adjustable and efficient operation is required with limited space requirements.

Our mixers and flowmakers offer:

- Superior Thrust-to-Power (T/P) ratio from the best-in-class hydraulic design combined with energy efficient motors built from IE3 components
- Many quality features supplied as standard, ensuring optimized operation and energy savings
- Together with recirculation pumps, a complete product range with minimal performance gaps, for energy efficient product selections

What you get:

- Savings on energy and operations with a short payback time for your investment
- No over-dimensioning of treatment plants and reduced power consumption
- Extended lifetime for the mixer or flowmaker installation

Optimizing your system

Grundfos supplies a range of complementary products that optimize and increase the efficiency of your system.

- Grundfos Remote Management (GRM) for remote monitoring and control
- Variable frequency drives (CUE) for speed control

Our mixers, flowmakers and recirculation pumps are supplied as standard with many design, material and product enhancements that:

- Prolong product lifetime
- Increase efficiency
- Ensure easy installation, service and maintenance



LONG LIFETIME AND OPERATIONAL BENEFITS, DELIVERED AS STANDARD

The full range of mixers, flowmakers and recirculation pumps covers all applications in wastewater treatment plants as well as agricultural and industrial applications and copes with fluid environments with varying concentrations of solids and levels of density and viscosity. Key features supplied as standard for SMG mixers, SFG flowmakers and SRG recirculation pumps are shown below. SMD has similar features, but no gear.

Tapered roller bearings
– absorbs axial and radial forces and prevents heavy load on gear wheels and motor bearings

Planetary gear
– slim design and optimal hydro dynamic performance

Thermal protection
– PTC or PTO in each phase winding

Cable bending protection
– supplied as standard, for protecting the cable

Double sealed cable inlet
– prevents leakage through the cable entry

Multistage sealing system
– prevents solids and wastewater entering gearbox

Optimised propeller
– optimized propeller blade shape for efficient thrust creation and self cleaning effect

Water in oil sensor
– protection against damages caused by leakage

High efficiency and robust motor
– built with IE3 components and insulation class H – reduced energy consumption

Corrosion protection
– 450µm layer coating as standard supply

Galvanic protection
– for minimal corrosive wear

Roller bearings, lubricated for life
– with high temperature grease and increased bearing clearance

MIXING HANDBOOK

The Grundfos handbook “Design recommendations for mixing” covers mixing issues and mixing applications.

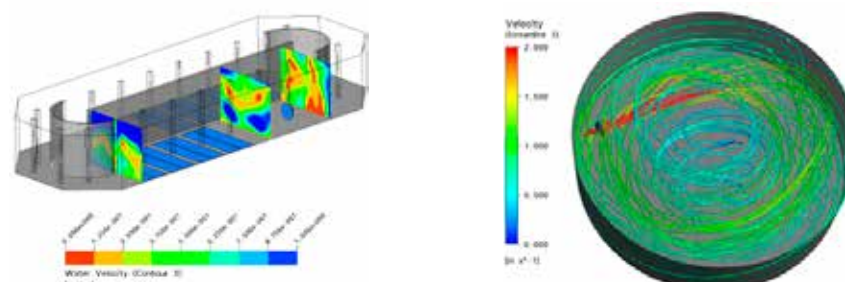
Find pdf on www.grundfos.us



SIZING TOOLS AND RESOURCES

We make it easy for you to size and install our solutions. Your Grundfos representative can advise about design using CFD simulations and help you find and use Grundfos tools, technical articles and documentation that meet precisely your requirements.

Contact your Grundfos sales representative



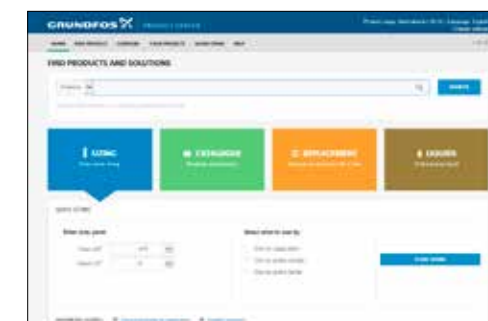
HANDS ON SERVICE

As part of our delivery, our robust and reliable products are easy to work with, offer easy access to spare parts, long service intervals, technical information, commissioning and service reports.

Contact your Grundfos sales representative

GRUNDFOS PRODUCT CENTER

Online search and sizing tool that helps you choose the right pump for installation or replacement, or find information about pumps you already have.



WE HAVE MANY YEARS' EXPERIENCE

Read about our success with installations in wastewater treatment plants around the world

Find cases and additional information on www.grundfos.com



GRUNDFOS



Grundfos offers a complete portfolio of products and solutions for the Municipal market through a number of marquee brands.