

## Mixers and Flowmakers

# GRUNDFOS SMD/SMG/SFG

The Grundfos SMD/SMG mixers and SFG flowmakers are engineered to provide the most energy efficient mixing. Mixers and flowmakers ensure that particles remain evenly distributed in wastewater and sludge, preventing sedimentation and supporting treatment processes.

The range covers everything from small-scale direct drive mixers, ideal for prefabricated pumping stations, to large-scale flowmakers designed for large tanks and basins. Wastewater infrastructure is a common application area – from network stations to treatment plants – but the mixing power of the SMD, SMG, and SFG ranges is also appreciated by industry and agriculture professionals worldwide. Grundfos provides the best possible mixer or flowmaker for most applications.



### KEY FEATURES AND BENEFITS

- Drive unit is equipped with IE3 motor components, and combined with both direct drive and a variety of gear steps
- Available in a wide range of high-quality, flexible installation accessories
- Variable speed drive can be added for even better performance adaption
- Simple maintenance and service with easy access to spare parts and long service intervals
- Active electronic leak sensor quickly detects even the smallest amount of liquid in the gear housing, allowing ample time for service before any damage is done
- Mechanical shaft seal is protected against abrasive materials by an innovative triple sealing system, minimizing wear and service requirement
- Fitted with self-cleaning stainless steel or polyurethane propellers with diameters between 7 to 102 inches and rotation speeds between 26 and 1750 rpm, 60 Hz
- Hydrodynamic and robust propellers help ensure high efficiency and non-clogging operation
- Stainless steel or cast iron motor housing available

### APPLICATIONS

- Municipal wastewater treatment systems
- Sludge treatment systems
- Sewage pumping stations
- Wastewater treatment plants
- Industrial processes
- Agriculture
- Biogas plants

**TECHNICAL DATA**

SMD/SMG	
<b>MOTOR SIZE:</b>	2 to 25 hp
<b>LIQUID TEMP:</b>	41°F to 104°F
<b>THRUST TO POWER RATIO:</b>	0.17 to 0.22 N/W (SMD)
	0.24 to 0.33 N/W (SMG)
<b>PROPELLER DIAMETER:</b>	18 to 36 in
<b>PROPELLER SPEED:</b>	330 to 710 rpm
<b>AXIAL THRUST:</b>	97 to 978 ft

SFG	
<b>MOTOR SIZE:</b>	1 to 10 hp
<b>LIQUID TEMP:</b>	41°F to 104°F
<b>THRUST TO POWER RATIO:</b>	0.52 to 0.97 N/W
<b>PROPELLER DIAMETER:</b>	52 to 106 in
<b>PROPELLER SPEED:</b>	23 to 95 rpm
<b>AXIAL THRUST:</b>	173 to 1447 ft

Visit [grundfos.us/pei](http://grundfos.us/pei) to learn more about Department of Energy (DOE) pump energy index (PEI) requirements and PEI ratings on specific Grundfos models.