



SGM

**High Precision 4-Planet
Planetary Gearboxes**

SGM



With 4 planet gears on the main stage, SGM high precision planetary gearboxes offer greater output torque, for the same size, than the similar SG series, while still offering it's reliability, repeatability and durability.

Highlights:

- Six Sizes
- 1, 2 and 3 Stages
- 4 or more Stages on Demand
- 4 Planets in the Main Stage
- 5 Different Backlash Classes, including ca. 0'
- Robust and Compact Design
- High Efficiency
- Triple Emergency Stop Torque

- Superior Permissible Output Loads Thanks to High Capacity Bearings
- Smooth and Quiet Operation Thanks to High Gearing Quality
- Suitable for Rack&Pinion Systems
- Extremely High Torsional Stiffness
- Very Good Load Balancing Leading to High Operational Safety
- 6 Output Shaft Variants, including Integral Pinion and Hollow Shaft with Shrink Disk
- Simple Motor Mounting Thanks to a Proven Input Coupling System. Perfect Balancing of the Clamping Ring Ensures Vibration Free Transmission
- Ready For all Servomotor Brands



Cutting Edge Technology



| Type | Number of Stages | Max Output Torque (Nm) | Transmission Ratios | Backlash |
|-----------|------------------|------------------------|--|-----------------------------|
| SGM-100 | 1 | 120 | 4 | |
| SGM-100 | 2 | 120 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-100 | 3 | 120 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |
| SGM-350 | 1 | 350 | 4 | |
| SGM-350 | 2 | 350 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-350 | 3 | 350 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |
| SGM-650 | 1 | 700 | 4 | |
| SGM-650 | 2 | 700 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-650 | 3 | 700 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |
| SGM-1200 | 1 | 1300 | 4 | |
| SGM-1200 | 2 | 1300 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-1200 | 3 | 1300 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |
| SGM-4000 | 1 | 4500 | 4 | |
| SGM-4000 | 2 | 4500 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-4000 | 3 | 4500 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |
| SGM-12000 | 1 | 12000 | 4 | |
| SGM-12000 | 2 | 12000 | 12, 16, 20, 28, 40 | <10'; <5'; <3'; <1'; ca. 0' |
| SGM-12000 | 3 | 12000 | 36, 60, 80, 100, 120, 160, 200, 280, 400 | |

For High Performance CNC Machinery

Servotak[®]

PRECISION GEARBOXES

France – Germany – Italy – Portugal – Spain

Axis Automation, SLU

Avenida de la Plata, 23 – 1 46013 Valencia – Spain

Tel: +34 963 950 442 — Fax: +34 963 348 267

www.servotak.eu

