

G.H.A SERIES WORM GEARBOXES AND BEVEL SPUR GEARBOXES
SPECIFICALLY DESIGNED FOR USE IN THE FOOD AND MEDICAL TECHNOLOGY INDUSTRIES

The G.H.A. series offers hygienic worm gearboxes, bevel gearboxes, and motors for demanding applications in the food and medical technology industries. The patented G.H.A. coating combines corrosion protection, wear resistance, and hygienic properties for reliable use in sensitive production environments.

Advantages

- High corrosion resistance
- Antibacterial surface
- Reduced microbial growth
- Hygienic design
- Lighter weight compared to stainless steel gearboxes
- Resistant to moisture and chemicals, as well as wash-down cleaning processes

Applications

- Food industry (e.g., bakery machinery)
- Medical technology / Pharmaceutical industry
- Packaging industry
- Marine applications



G.H.A Series - Features	
Housings/Flanges	Aluminum alloy, sandblasted or tumbled and GHA-treated *
Antistatic	yes
Corrosion-resistant	yes
Antibacterial	yes
Grease-repellent	yes
Lubrication	FDA H1/UH1 upon request
Shaft seals	FDA version available upon request
Hollow shaft	Stainless steel
Screws	Stainless steel
Worm gear	Stainless steel hub, bronze worm gear ring

G.H.A Series - Design & Sizes		
Series	Design	Sizes
GHA Premium	Worm gear	30, 40, 50, 63, 75
GK Classic	Worm gear	30, 40, 50, 63, 75, 89
GX Modular	Worm gear	30, 40, 50, 63, 75, 89
GT Classic	Bevel-spur gear set	56, 63, 75

G.H.A Series - Power Range			
Series	Power P in kW	Torque M in Nm	Transmission ratios i
GHA Premium	0,06 - 2,2	15 - 230	5 - 100
GK Classic	0,06 - 5,5	15 - 350	5 - 100
GX Modular	0,06 - 5,5	15 - 350	5 - 100
GT Classic	0,09 - 2,2	115 - 140	8 - 315

*Patented G.H.A. process (EP1207220): Anodic oxidation with sealing of fine pores using silver ions

G.H.A Series - Optimal Motor Combination		
Characteristic	MHA Premium	MHA Classic
Energy Efficiency Class	IE4	IE1 up to IE4
Protection rating	IP69K	IP55
Voltage / Frequency	230/400 V, 50 Hz	230/400 V, 50 Hz
Operating Mode	S1 Continuous operation	S1 Continuous operation
Design	B14	B5 o B14
Housing	Aluminum alloy G.H.A.-treated	Aluminum alloy G.H.A.-treated
Construction Method	Smooth, cleaning-optimized outer housing without a fan	Classic ribbed engine housing
Corrosion-resistant	yes	yes



All data, calculations and other information are based on our current knowledge and have been compiled with great care. The available data are non-binding and serve informational purposes only. Further information can be found at www.walther-flender.de