



GEIGER SYSTEM INline

Product Data Sheet



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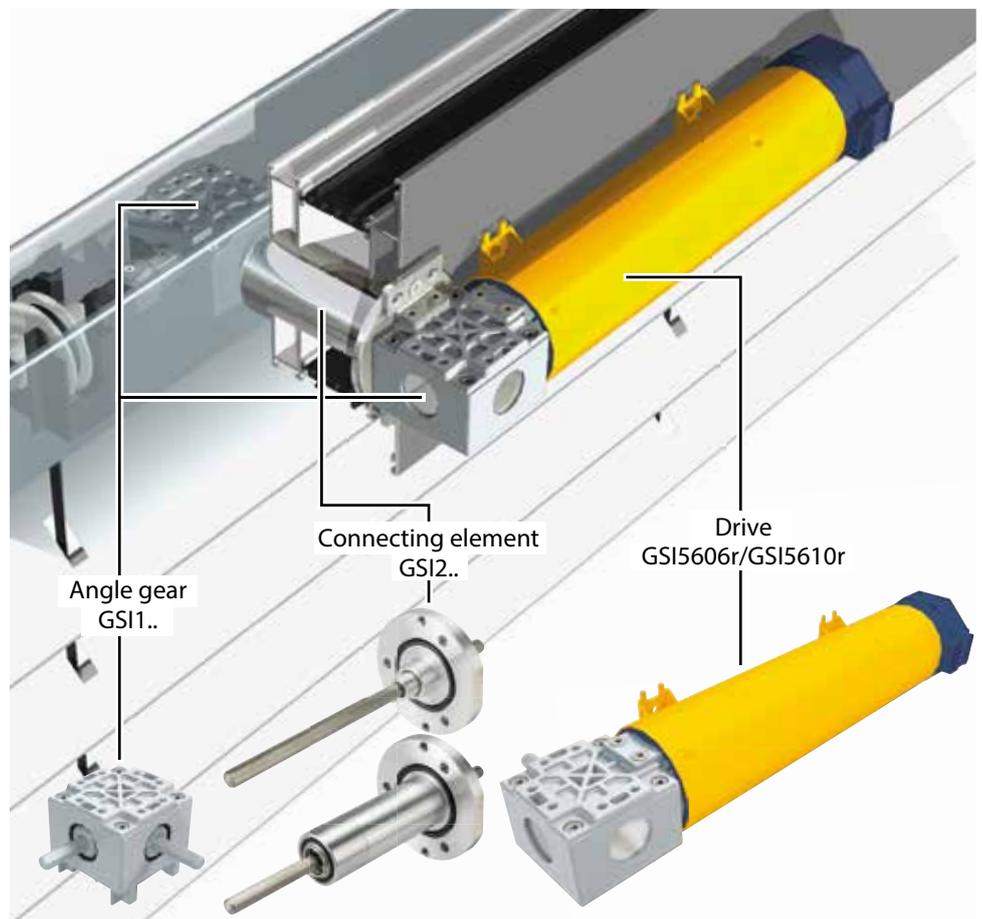
DRIVE SYSTEM FOR CLOSED CAVITY FACADE

Introduction

The GSI system (GEIGER system INline) was specially designed to install the sun protection drive outside the facade, in particular outside the closed cavity facade.

The installation location is a real challenge due to the ambient conditions within the facade and for questions of maintenance. All components which are used were tested in order to meet the extreme operating conditions to be faced by sun protection systems in Closed Cavity Facade (CCF).

Overview



Drive GSI56.. r

The drive module of the GJ56 motor serves as a basic component of the GSI kit. The GSI5606 r and the GSI5610 r are noise-reduced drives with a mechanical end stop. The planetary gear and the brake have been adapted to the specific requirements of the facade.

The angle gear GSI1.. is directly adapted to the drive (the attachment - mounting position - can be freely selected in a grid of 90°). The result is a compact and precise unit without additional coupling elements. The drive can be directly flanged to the facade with two L-angles or connected with one of the connecting elements (GSI2..).



Technical Data GSI-motor (GSI56.. r with mechanical end stop)

	GSI5606 r	GSI5610 r
Voltage	230 V~/50 Hz	230 V~/50 Hz
Current	0,40 A	0,60 A
Cos Phi (cosφ)	> 0,95	> 0,95
Inrush current (factor)	x 1,2	x 1,2
Power	90 W	135 W
Torque	06 Nm	10 Nm
Speed	26 rpm	26 rpm
Protection class	IP 54	IP 54
Limit switch range	80 rotations	80 rotations
Operating mode	S2 6 min	S2 4 min
Sound pressure level ¹⁾	34 dB(A)	35 dB(A)
Length	315 mm (Incl. shaft protrusion)	320 mm (Incl. shaft protrusion)
Diameter	55 mm	55 mm
Weight	ca. 2,00 kg (Incl. gear)	ca. 2,10 kg (Incl. gear)

¹⁾ The average sound pressure level data are intended for guidance only. The values were determined by GEIGER at a distance of 1 m, with a hanging motor at idle speed and averaged over 10 seconds. There is no reference to any specific test standard.

Connecting elements GSI2..

The connecting elements of the GSI series are easy-running sealing elements which are attached from the outside on the facade. All connecting elements have the same sealing elements that are tested for tightness.

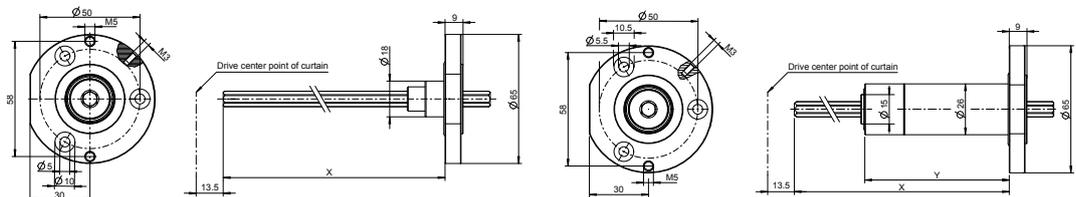
The connecting elements are designed so that the drive can be adapted without additional coupling element which guarantees a perfect alignment of the total unit.

The GSI2.. system is designed in such a manner that the penetration depth for different cavities is scalable (in the factory).

The connecting elements are interchangeable from the outside, when accessible.



	Basic	Standard
Penetration depth	Adaptable to project-specific requirements	Adaptable to project-specific requirements
Input / Output	7 mm hex insert	7 mm hex insert
Bearing	Integrated bearings	Integrated bearings
Tightness	100 % checked for tightness	100 % checked for tightness
Seals	1 x sealed (one profile)	2 x sealed (two profiles)



Angle gear GSI1.. for Venetian blinds

The angle gears GSI1.. have a ratio of 1:1 and allow the right-angled input into the facade. The smooth-running bevel gears are characterized by a tested life of > 10.000 cycles that were carried out constantly with a 10 Nm torque. The versions have different designs and different types of bearings.

The gears can be ordered - with the corresponding shaft heights - for the upper boxes of all common sunscreen manufacturers. The mounting in the upper box is made with four screw connections on the gear unit base.



	GSI100	GSI101	GSI102	GSI103	GSI104	GSI105
Lubrication	Special grease	Special grease				
Shaft height	30 mm	30 mm				
Output position (seen from input)	Right	Left	Right	Left	Right and left	Left and right
Direction of rotation	Input CW ¹⁾ (right)	Input CW ¹⁾ (right)				
	Output CCW ²⁾ (left)	Output CCW ²⁾ (left)	Output CCW ²⁾ (left)	Output CCW ²⁾ (left)	Output CCW ²⁾ (left/RW ³⁾)	Output CW ¹⁾ (right/RW ³⁾)
Input bearing	Ball bearing/ Slide bearing	Ball bearing/ Slide bearing	Ball bearing/ Ball bearing	Ball bearing/ Ball bearing	Ball bearing/ Ball bearing	Ball bearing/ Ball bearing
Output bearing	Ball bearing/ Slide bearing	Ball bearing/ Slide bearing				

¹⁾ CW: clockwise

²⁾ CCW: contra clockwise

³⁾ RW: right output shaft

Angle gear GSI150 for textile sun protection

The angle gear has a gear reduction of 1:1 and allows a perpendicular insertion into the façade. The smooth-running bevel gear is distinguished by its proven lifecycle of > 10,000 cycles carried out with a permanent torque of 10 Nm. Due to its slim construction, the distance from the posts to the textile sun protection can be kept extremely small. This allows for subtle construction that prevents incident light from the side.

The gear is equipped with a 78 mm roller (DM). Other rollers can be used on request depending on order volume. The minimum diameter is 63 mm.

Optionally, two different gearbox shafts can be used.



	GSI150
Lubrication	Special grease
Output position (seen from input)	Left and right
Input bearing	Ball bearing
Output bearing	Ball bearing

A consultation with our designing engineers is necessary for the exact torque construction of the system.

Gearbox shafts for angle gear GSI150



Part Nr.	430E036	430K032 gearbox mounting 430K033 clamping plate
Remark	Proven bearing (axial and radial locking)	Standard bearing (axial and radial locking), low space requirement, simple mounting
Access	Lateral	Down
Fixation	4 screw connection points	3 screw connection points
Gear fixation	With 4 Allen screws	Simple and quick mounting of the gear unit by means of a thread-forming screw

Safety item for safe and secure transportation

Part Nr.	430K036
Remark	Lateral attachment with M3 Torx, space-saving



The name GEIGER Antriebstechnik is synonymous worldwide for drive solutions in the sun protection area.

Today we are with more than 250 employees one of the leading manufacturers of mechanical and electrical drives for Venetian blinds, awnings and rolling shutters.

GEIGER is a well-known, mid-sized company which offers worldwide drive components for the sun protection systems.