



### Features at a glance

- With GC cardan joints in combination with AT telescopic shafts, it is possible to transmit torque and • movement easily and precisely from two shaft ends at a distance.
- High reliability, maintenance-free, extremely precise, and easy-of-use.
- Maximum working angle: 45°
- Suitable for intermittent (UI) and continuous (UC) operation.
- Telescopic shaft and cardan joint made entirely of solid stainless steel (AISI 303).
- Sliding bushes made of self-lubricating plastic material or smooth-running (LG) for improved working efficiency (optional).
- Available bores: ø6 ø8 (combinable with each other); ø10 ø14 (combinable with each other).
- Universally applicable and ideal for retrofitting existing installations.

Dimensions	Length	35 mm (bore diameter: ø6 mm – ø8 mm) 52 mm (bore diameter: ø10 mm – ø14 mm)				
Mounting	Telescopic shaft	ø6 - ø8 (combinable with each other) with keyway ø10 - ø14 (combinable with each other) with keyway				
Working angle	e	max. 45°				
Material		Stainless steel (AISI 303), sliding bushes made of plastic material				
Operating mode <sup>2)</sup>		Intermittent movements (UI) Continuous movements (UC)				

### **Technical characteristics**

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Our GC cardan joints are available in combination with AT08 telescopic shafts, to transmit movements of non-aligned elements and to compensate misalignments.

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Willtec Messtechnik GmbH & Co. KG • Eschenweg 4 • 79232 March-Hugstetten • Germany Phone: +49 (0) 7665/93465-0 • Fax: +49 (0) 7665/93465-22 www.willtec.de • Email: info@willtec.de

Page 1 of 4	Measure	Indicate	Control	Sensors	Mechanics	Accessory	
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### **Dimensions**



For a proper selection of the GC cardan joints, please refer to the following tables of technical characteristics, efficiencies, as well as the corresponding versions with dimensions.

Dimensions GC_									
(D) . E .	Version	Α	В	С	D	E	F		
	GC06	ø06	ø16	35	M4	2	7		
	GC08	ø08	ø16	35	M4	2	9		
	GC10	ø10	ø24	52	M5	3	11,4		
	GC14	ø14	ø24	52	M5	5	16,2		

All dimensions in mm



Continuous Use (UC)						Angle (°)	Coefficient (C)				
	RPM						0	1.25			
Version	100	200	400	600	800	1000	5	1.25			
GC06	7	6	5	3.5	2.5	1.5	10	1			
GC08	7	6	5	3.5	2.5	1.5	20	0.8			
GC10	14	12	10	7.5	6	4	30	0.45			
GC14	14	12	10	7.5	6	4	40	0.3			
							45	0.25			

The values are given in Nm %, with a working angle of 10°. In case of intermittent use (UI), it is possible to increase the torque values by 30% for this period.

For a working angle different from 10°, the torque must be modified according to the coefficient (C) compared to the angle variation.

Mounting Telescopic Shaft							
	Version	Diameter 1	Diameter 2				
	CC06	ø06	ø06				
	GC06	ø06	ø08				
	6608	ø08	ø06				
1 2	GC08	ø08	ø08				
	6610	ø10	ø10				
	GC10	ø10	ø14				
	CC14	ø14	ø10				
	GC14	ø14	ø14				

Mounting telescopic shaft with keyway: Bore diameter in mm, available combinations (standard).

Indicate

Control

Telescopic shaft or gearbox mounting: square, hexagonal (optional, on request).

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Measure

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## Combinable devices

loads.



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### Areas of application

palletizers

textile machines

printing machines

GC cardan joints in combination with AT telescopic shafts, are used in a wide range of industries and systems, ideal for retrofitting existing installations:

• remote operation of elements

sliding doors and closures

connection of lifting jacks

filling and packaging machines

- machine tools
- food processing machines
- automotive systems (remote opening of valves, seat adjustment, window mechanism operation)

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- paper machines
- automatic assembly machines
- linear multi-axis systems

## Ordering example

Туре		GC08	-	F08-F06	-	LG
Version						
GC06						
GC08						
GC10						
GC14						
Bore diamete	er <sup>1)</sup> (mm)					
F06-F06	= GC06 - ø06 - ø06					
F06-F08	= GC06 - ø06 - ø08					
F08-F06	= GC08 - ø08 - ø06					
F08-F08	= GC08 - ø08 - ø08					
F10-F10	= GC10 - ø10 - ø10					
F10-F14	= GC10 - ø10 - ø14					
F14-F10	= GC14 - ø14 - ø10					
F14-F14	= GC14 - ø14 - ø14					

#### Bearing

- = sliding bushes made of plastic material (standard)
- **LG** = sliding bushes smooth-running (optional)
- 1) Version Diameter 1 Diameter 2 (see table **Mounting Telescopic Shaft**).



Other versions that cannot be generated from the order code are available on request as special versions.

Our GC cardan joints are available in combination with AT08 telescopic shafts. Please order AT08 telescopic shaft separately. For more information on our AT08 telescopic shafts, please refer to the corresponding data sheet.



The manufacturer reserves the right to make changes to the products that it deems necessary for their improvement without prior notice.

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