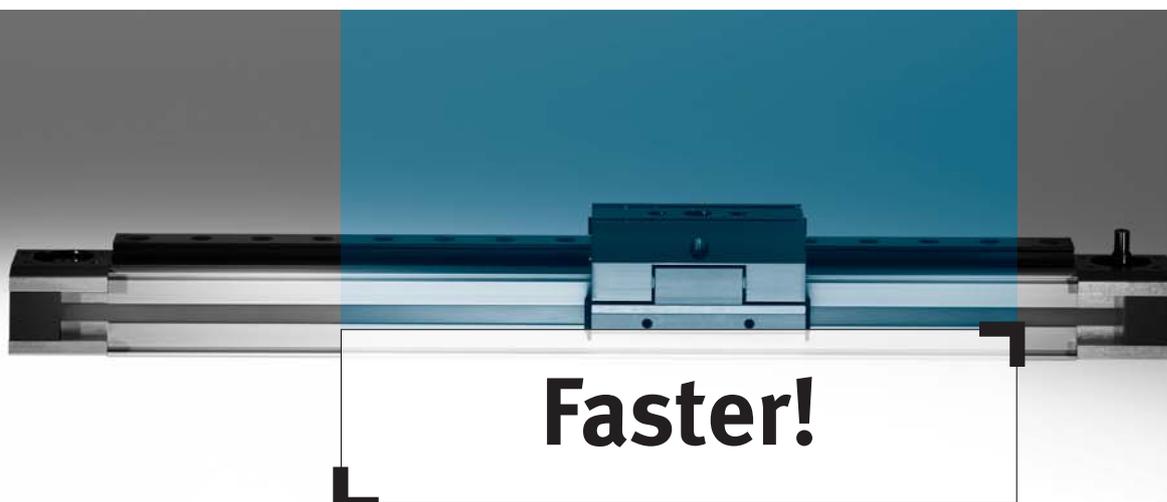


Electrical toothed belt axis DGE-ZR



Extra compact, high precision, extremely sturdy and a superb team player: The DGE-ZR

State of the art when it comes to electrical axes

The DGE Team. What they all have in common is unbeatable compact dimensions with high-loads capacity and high mechanical torques in addition to standardisation of all the drive technologies in the same design. The DGE-ZR demonstrates its outstanding qualities to the full when used in single-axis or multi-axis systems.

Exceptional guidance

Sturdy, precision guidance with repeat accuracy of up to ± 0.08 mm.

Long service life

Not by virtue of the high quality toothed belt alone: a high precision unit thanks to the shape and position of the teeth, it has flexibility and high tensile strength and the guide's minimal friction and lubrication for life make it wear-free.

Flexible team player

Thanks to the open interfaces with the modular handling system, e.g. for motor packages and matching accessories. Includes assembly options and a wide range of options for mounting on drive units. Ideal for Festo's package solutions for the handling sector.



Precise,



fast!



Team player!

144.1.PSI →

Product Short Information

Electrical toothed belt axis DGE-ZR



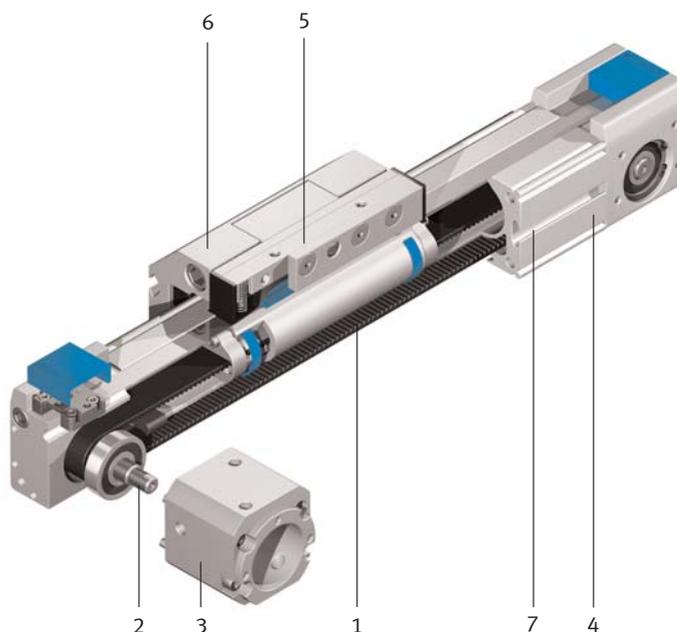
Modern drives – Systematically more economical*

Versions with toothed belt drive DGE-ZR

- Without guide (with driver)
- With recirculating ball bearing guide, available with extended slide as an option
- With heavy-duty guide
- In dust-proof version

Benefits at a glance

- Rigid precision guide
- Highly versatile thanks to the wide choice of mounting and assembly options
- Wide range of options for mounting on drive units
- Comprehensive assembly accessories for multi-axis combinations
- Optimally adapted motor controller combinations



- 1 Toothed belt
- 2 Drive shaft/trunnion
- 3 Coupling housing
- 4 Aluminium profile
- 5 Driver
- 6 Slide
- 7 Sensors can be integrated

Note

Use the PtTool project engineering tool on the Festo CD-ROM. It supports project engineering and calculates the expected positioning time.

Technical data

Toothed belt drive		Type DGE-...-ZR					
Size		8	12	18	25	40	63
Nominal stroke	[mm]	1 ... 650	1 ... 1000	1 ... 1000	1 ... 3000	1 ... 4000	1 ... 4500
Max. driving torque	[Nm]	0.08	0.18	0.5	2.6	9.7	42
Max. feed force	[N]	15	30	60	260	610	1500
Max. speed	[m/s]	1	1.5	2	5	5	5
Repeat accuracy	[mm]	±0.08			±0.1		
Max. applied load Fz	[N]	38	59	120	330	800	1600
Max. lateral torque Mx	[Nm]	0.15	0.3	0.5	1	4	8

Toothed belt drive		Type DGE-...-ZR-KF-GK/-GA					
Size		8	12	18	25	40	63
Guide		recirculating ball bearing guide					
Nominal stroke	[mm]	1 ... 650	1 ... 1000	1 ... 1000	1 ... 3000	1 ... 4000	1 ... 4500
Max. driving torque	[Nm]	0.08	0.18	0.5	2.6	9.7	42
Max. feed force	[N]	15	30	60	260	610	1500
Max. speed	[m/s]	1	1.5	2	3	3	3
Repeat accuracy	[mm]	±0.08			±0.1		
Max. applied load Fz	[N]	255	565	830	3080	7300	14050
Max. lateral torque Mx	[Nm]	1	3	7	45	170	580

Toothed belt drive		Type DGE-...-ZR-HD		
Size		18	25	40
Nominal stroke	[mm]	1 ... 1000	1 ... 2000	1 ... 2000
Max. driving torque	[Nm]	0.5	2.6	9.7
Max. feed force	[N]	60	260	610
Max. speed	[m/s]	3	3	3
Repeat accuracy	[mm]	±0.08	±0.1	
Max. applied load Fz	[N]	1820	5600	5600
Max. lateral torque Mx	[Nm]	70	260	375



Festo AG & Co. KG

Ruiter Strasse 82
73734 Esslingen
Internet www.festo.com
Tel. ++49 (0)711 347-0
Fax ++49 (0)711 347-2144
E-mail service_international@festo.com

* Representatively tested and certified with products ADVU, DGPL and DNC.