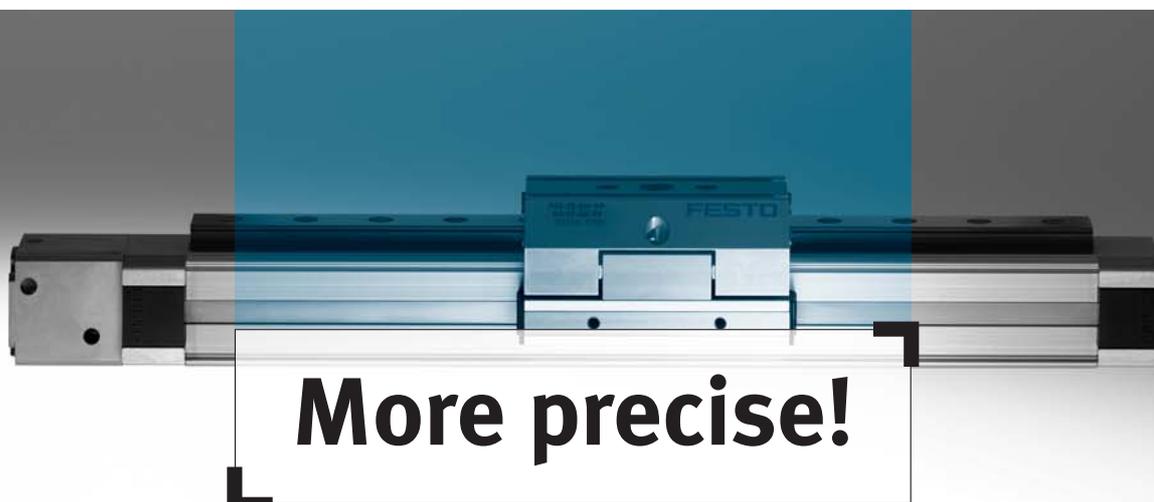


Electrical spindle axis DGE-SP

FESTO



High-precision, high strength, extra compact: The DGE-SP

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 load capacity and high mechanical torques in addition to standardisation of all the drive technologies in the same design. For maximum precision and performance: the DGE-SP.

Superb precision

The sturdy guide with a repeat accuracy of ± 0.02 mm.

Extremely fit

With a feed force of up to 1600 N and high rated loads thanks to the extremely rigid guide.

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.

Modular

Thanks to the wide range with many options and versions.



High precision!

Extra powerful!

Team player!

144.2.PSI →

Product Short Information

Electrical spindle axis DGE-SP



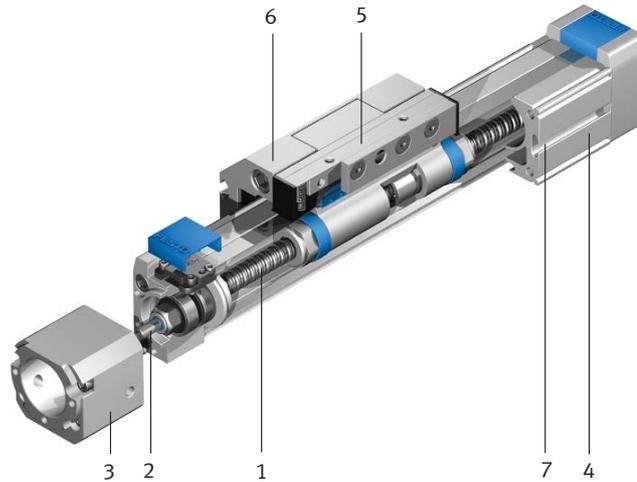
Modern drives – systematically economic*

Spindle drives DGE-SP

- 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 flexible thanks to versatile mounting and assembly options
- Wide range of options for mounting on drive units
- Comprehensive range of mounting accessories for multi-axis combinations
- Optimally adapted motor controller combinations



- 1 Spindle shaft
- 2 Drive shaft
- 3 Coupling housing
- 4 Aluminium profile
- 5 Driver
- 6 Slide
- 7 Sensors can be integrated.

Note

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

DGE-SP with driver			Type DGE-...-SP			
Spindle drives			18	25	40	63
Size			18	25	40	63
Nominal stroke	[mm]		100 ... 500	1 ... 1000	1 ... 1500	1 ... 2000
Max. driving torque	[Nm]		0.1	0.45	2.1	8.5
Max. feed force	[N]		140	250	600	1600
Spindle	diameter	[mm]	8	12	20	32
	feed constant (pitch)	[mm/rev.]	4	10	20	30
Max. speed	[m/s]		0.2	0.5	1	1.2
Repeat accuracy	[mm]		±0.02			
Max. applied load	F _z	[N]	1.8	2	15	106
Max. lateral torque	M _x	[Nm]	0.5	1	4	8



DGE-SP with slide			Type DGE-...-SP-KF-GK/-GA			
Spindle drives			18	25	40	63
Size			18	25	40	63
Nominal stroke	standard slide	[mm]	100 ... 500	1 ... 1500	1 ... 1500	1 ... 2000
Max. driving torque		[Nm]	0.1	0.45	2.1	8.5
Max. feed force		[N]	140	250	600	1600
Spindle	diameter	[mm]	8	12	20	32
	feed constant (pitch)	[mm/rev.]	4	10	20	30
Max. speed	[m/s]		0.2	0.5	1	1.2
Repeat accuracy	[mm]		±0.02			
Max. applied load	F _z	[N]	930	3080	7300	14050
Max. lateral torque	M _x	[Nm]	7	45	170	580



DGE-SP with heavy duty guide			Type DGE-...-SP-HD		
Spindle drives			18	25	40
Size			18	25	40
heavy-duty guide			HD18	HD20	HD40
Nominal stroke		[mm]	100 ... 400	100 ... 900	200 ... 1500
Max. driving torque		[Nm]	0.1	0.45	2.1
Max. feed force		[N]	140	250	600
Spindle	diameter	[mm]	8	12	20
	feed constant (pitch)	[mm/rev.]	4	10	20
Speed	drive rpm	[rpm]	3000	3000	3000
Max. speed	[m/s]		0.2	0.5	1
Repeat accuracy	[mm]		±0.02		
Max. applied load	F _z	[N]	1820	5600	5600
Max. lateral torque	M _x	[Nm]	70	260	375



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Subject to change

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* Tested representatively and certified for the products ADVU, DGPL and DNC.