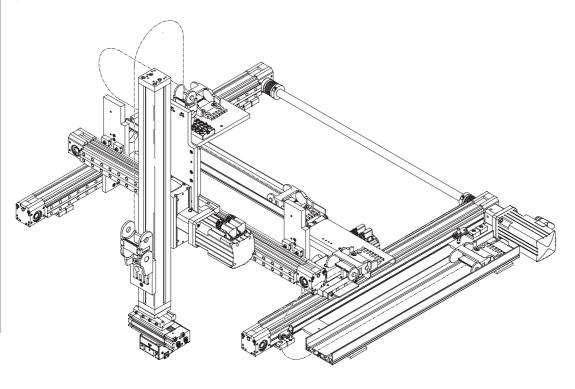
At a glance

Electrical axes DGE-... are often combined to form multi-axis systems. It is particularly important when realising

gantry systems with a long gantry axis and heavy loads that the two basic axes be driven synchronously. For these systems, two axes with toothed belt drive are generally coupled with a shared motor and synchronised using a connecting shaft. Connecting shafts are available for sizes 25, 40 and 63.



FESTO

Connecting shafts KSK Technical data

Connecting shaft KSK



25, 40 and 63 mm



General technical data				
Size		25	40	63
Basic moment of inertia if L1 = 0 mm	[kg cm ^{2]}	0.31	1.47	13.10
Additional moment of inertia per 1 m L1	[kg cm ² /m]	0.34	0.80	3.35
Max. permissible axial offset	[mm]	±2		
Basic weight if L1 = 0 mm	[kg]	0.22	0.36	1.8
Additional weight per 1 m L1	[kg/m]	0.32	0.48	0.8

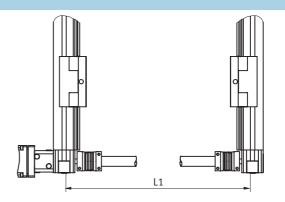
Operating and enviro	nmental condition	ns						
Size		25 40 63						
Ambient temperature	[°C]	-10 +40						
Corrosion resistance class CRC ¹⁾		2						
Materials	Hubs	Wrought aluminium alloy						
Coupling	Bellows	High-alloy steel						
Materials		High-alloy steel						
Connecting tube								

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Distance (centre-to-centre distance L1) between the axes

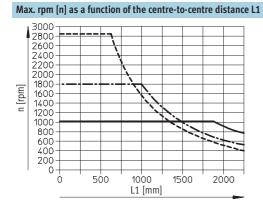
A connecting shaft consists of a connecting tube with two couplings attached to its ends. The connecting shaft transmits the required torque, and thus avoids misalignment between the axes. It also ensures

slip-free transmission, resulting in identical travel at both axes. The centre-to-centre distance between the two axes must be entered under distance (see table).



Size		25	40	63
L1 _{min} .	[mm]	200	250	350
L1 _{max} .	[mm]	2 000	2 000	2 000

2.3



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Size	B1	B2	D1 Ø	D2 Ø	D3 Ø	H1	L1	L2	L3	L4	L5	Part No.	Туре
[mm]													
25	50	5.1	21.27	8	40	1.6	Required centre-to-	51.4	133.6	156.4	10.2	196 587	KSK-25
40	59	6.5	26.52	15	49	2.5	centre distance between	71.4	164.4	194.6	13.1	196 588	KSK-40
63	94	10.8	41.6	25	81	6	the axes	114.6	261.4	305.6	21.6	196 589	KSK-63

- 🖣 - Note

Specify the centre-to-centre distance L1 in the type code when ordering.

Ordering example:

in the type code when ordering. Two toothed belt axes DGE-40-ZR are to be linked using a connecting shaft

be ordered:

and a centre-to-centre distance

Type: KSK-40-1000 Part No.: 196 588

The following connecting shaft must

L1 = 1 000 mm