Connecting shafts KSK Key features and type code

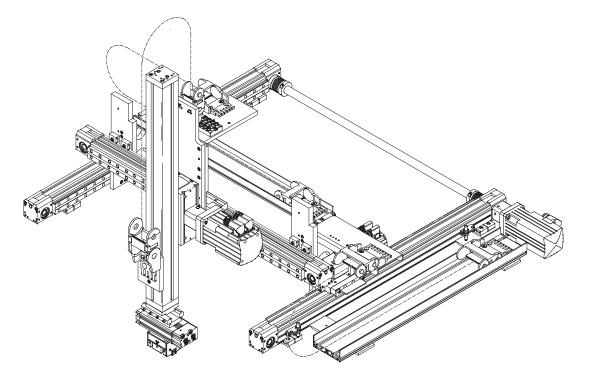
At a glance

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.

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Type code

		KSK
		Lion
Туре		
KSK	Connecting shaft	
Size		
25	for toothed belt axis DGE-25ZR-KF	
40	for toothed belt axis DGE-40ZR-KF	
63	for toothed belt axis DGE-63ZR-KF	
Centre-to	o-centre distance between the axes	

Connecting shafts KSK

Technical data

Connecting shaft KSK

- **O** - Size 25, 40 and 63 mm

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

Accessories

Electrical positioning systems

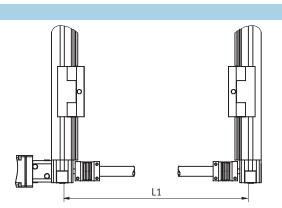
Operating and envir	onmental condition	ns							
Size		25 40 63							
Ambient temperature [°C] -10 +40									
Corrosion resistance	class CRC ¹⁾	2							
Materials	Hubs	s Wrought aluminium alloy							
Coupling	bupling Bellows High-alloy steel								
Materials		High-alloy steel							
Connecting tube									

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).



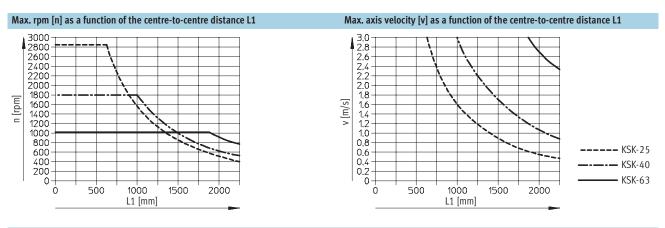
Size		25	40	63
L1 _{min.}	[mm]	200	250	350
L1 _{max.}	[mm]	2 000	2 000	2 000

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Connecting shafts KSK

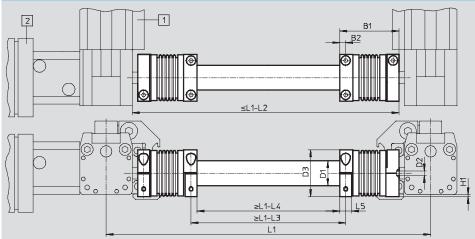
Technical data

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Dimensions and ordering data

Download CAD data → www.festo.com/en/engineering



Size	B1	B2	D1	D2	D3	H1	L1	L2	L3	L4	L5	Part No.	Туре
			Ø	Ø	Ø								
[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:

Two toothed belt axes DGE-40-ZR are to be linked using a connecting shaft and a centre-to-centre distance L1 = 1 000 mm The following connecting shaft must be ordered: Type: KSK-40-1000 Part No.: 196 588