

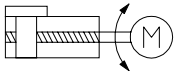
# Spindle drives DGE-...-SP-KG-KF-RR-SA

Ø 25, 40 mm, stroke 100 to 1000 mm

Cleanroom class ISO 4 or 5 (FS209E class 10 or 100)

Electromechanical axes  
Spindle drives units with slide, and recirculating ball bearing guides housed into a tube profile with end cover plates.

**DGE-...-SP-KG-KF-RR-SA**



- Precision, rigid guide
- Greater flexibility thanks to wide choice of 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

**Order example:**

Part no: 15059857  
Type DGE-25-500-SP-KG-KF-RR-SA  
Electrical axes, spindle drive, Ø 25 mm, stroke 500 mm  
SP: With spindle drive  
KG: Drive come with coupling housing and motor flange  
KF: Recirculating ball bearing guides  
RR-SA: Product modified for cleanroom use

**Material:**

Drive profile barrel: Anodised aluminium  
Tube with end plates: Aluminium, nickel plated

**Important technical data:**

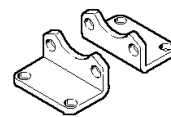
- For used in Cleanroom class ISO 4 (FS209E class 10), max. speed should be 0.5 m/s and max. acceleration 1 m/s<sup>2</sup>
- For used in Cleanroom class ISO 5 (FS209E class 100), max. speed should be 1.0 m/s and max. acceleration 4 m/s<sup>2</sup>
- Repetition accuracy: ± 0.02 mm
- Ambient temperature: 0...+40°C
- Protection class on cover strip: IP 40
- For x-stroke, please contact Festo
- To simplify ordering only one type is included in the Cleanroom product range. Please contact Festo for other variations

**Accessories:**

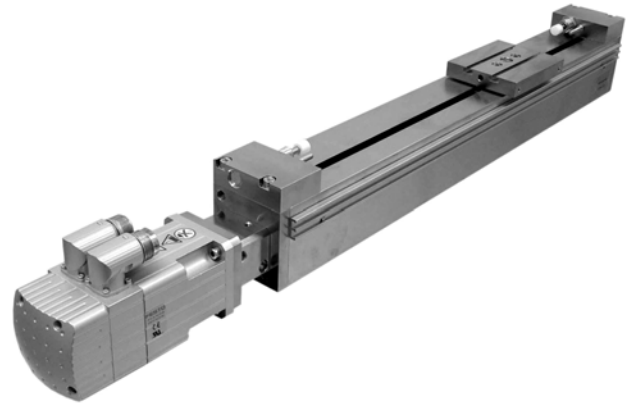
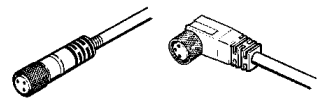
Single phase motor controller (for used with PNP sensors)  
SEC-AC-305/PO1

Standard servo motor  
MTR-AC-...

Foot mounting  
HNC-40 for DGE-25-...-RR  
HNC-63 for DGE-40-...-RR



Sensor cable (Page 40)  
SIM-M8-...-RR



Type	Part No.	Piston Ø [mm]	Stroke [mm]	Max. feed force [N]	Spindle		Speed	
					Diameter [mm]	Feed pitch [mm/rev]	[rpm]	Max speed [m/s]
DGE-25-...-SP-KG-KF-RR-SA	15059857	25	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000	250	12	10	3000	0.5
DGE-40-...-SP-KG-KF-RR-SA	15059858	40	200, 300, 400, 500, 600, 800, 1000	600	20	20	3000	1.0

# Spindle drives DGE-...-SP-KG-KF-RR-SA

Ø 25, 40 mm, stroke 100 to 1000 mm

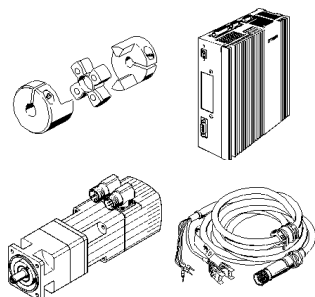
Cleanroom class ISO 4 or 5 (FS209E class 10 or 100)

## Optional packages:

Part no: 15060236

Basic servo motor package (used with PNP sensors) for DGE-25-...-SP-...-RR-SA consisted of:

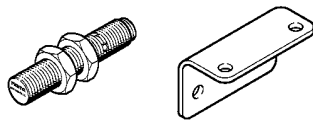
- Motor controller: SEC-AC-305/PO1
- Standard servo motor: MTR-AC-55-3S-AA
- Coupling: KSE-30-D06-D09
- Cable set (5 m): KSEC-AC-5



Part no: 15060238

Proximity Sensor package (PNP)

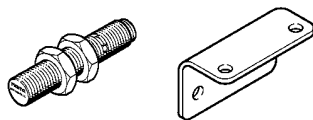
- Proximity Sensor: 2 x SIEN-M8B-PS-S-L
- Switching Lug on slide: SF-25
- Sensor brackets: 2 x HW-18/25-M8
- Slot nuts: 2 x ZVB-8



Part no: 15060239

Proximity Sensor package (NPN)

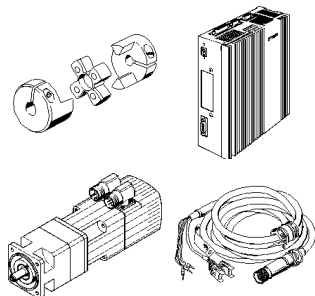
- Proximity Sensor: 2 x SIEN-M8NB-NS-S-L
- Switching Lug on slide: SF-25
- Sensor brackets: 2 x HW-18/25-M8
- Slot nuts: 2 x ZVB-8



Part no: 15060237

Basic servo motor package (used with PNP sensors) for DGE-40-...-SP-...-RR-SA consisted of:

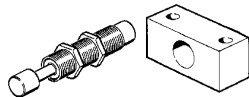
- Motor controller: SEC-AC-305/PO1
- Standard servo motor: MTR-AC-70-3S-AA
- Coupling: KSE-30-D11-D12
- Cable set (5 m): KSEC-AC-5



Part no: 15060240

Shock absorber package for DGE-25-...-RR-SA

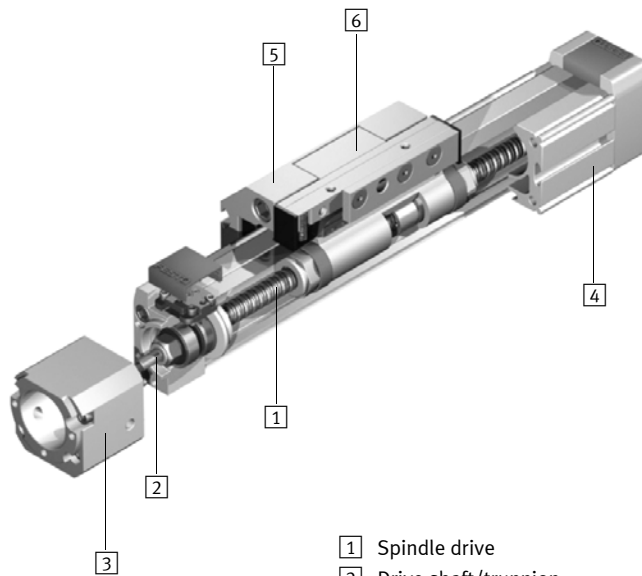
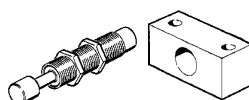
- Shock absorber: 2 x YSR-12-12-C (2x)
- Shock absorber retainer with end stop: 2 x KYP-25-SA



Part no: 15060241

Shock absorber package for DGE-40-...-RR-SA

- Shock absorber: 2 x YSR-16-20-C
- Shock absorber retainer with end stop: 2 x KYP-40-SA

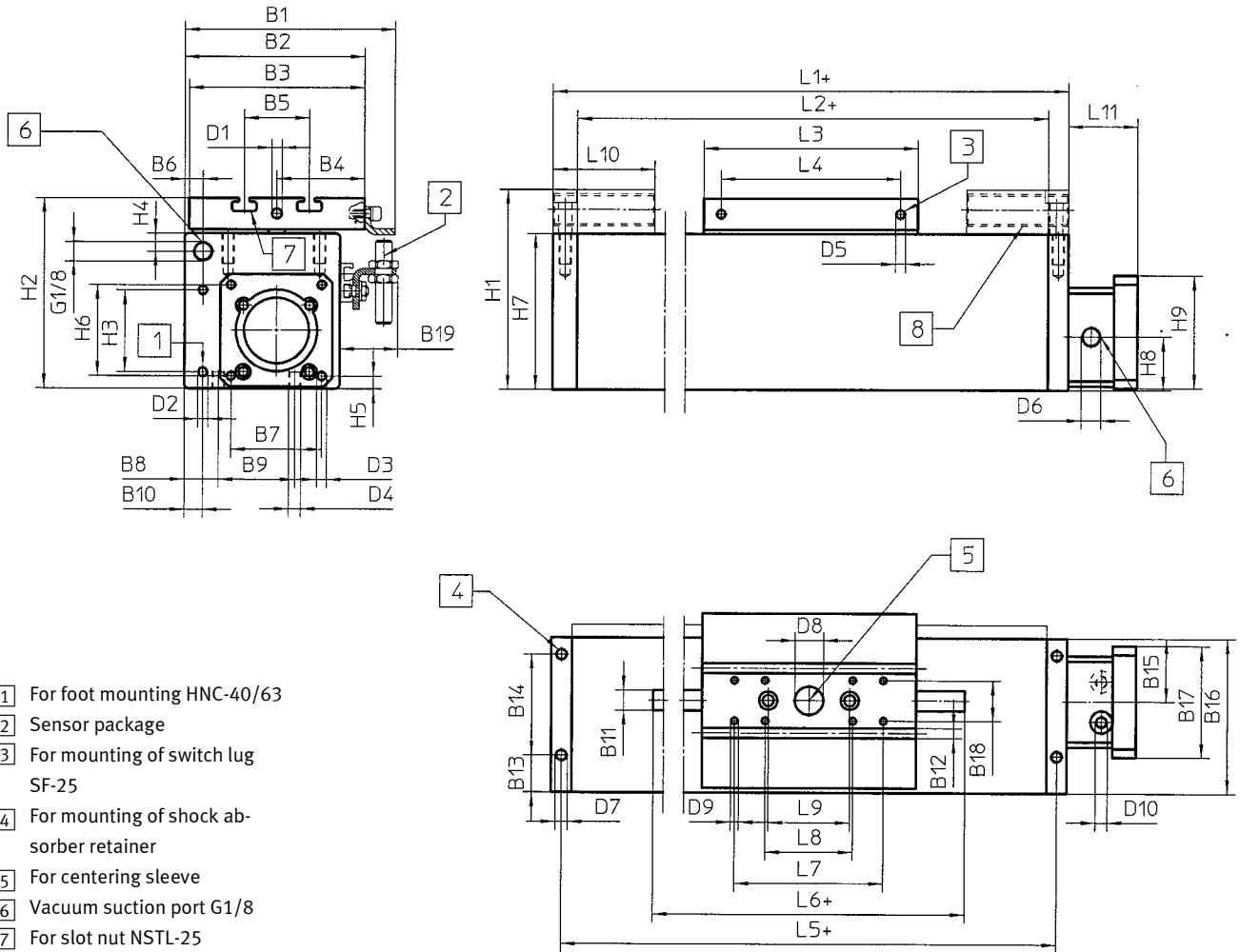


- 1 Spindle drive
- 2 Drive shaft/trunnion
- 3 Coupling housing
- 4 Profile barrel
- 5 Driver
- 6 Slide

# Spindle drives DGE-...-SP-KG-KF-RR-SA

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Cleanroom class ISO 4 or 5 (FS209E class 10 or 100)



- 1 For foot mounting HNC-40/63
- 2 Sensor package
- 3 For mounting of switch lug SF-25
- 4 For mounting of shock absorber retainer
- 5 For centering sleeve
- 6 Vacuum suction port G1/8
- 7 For slot nut NSTL-25
- 8 Shock absorber retainer

+ = plus stroke length

Ø [mm]	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
25	103	88.2	86	43	32	9	44.5	16.7	37.5	8.5	12	5	18.2	49.5	35	76.2	55
40	158	127	127	57.8	55	22	53	28.5	70	20	18	5	28.5	70	57.8	127	70

Ø [mm]	B18	B19	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	H1	H2	H3	H4	H5
25	32	29	Ø 6	M6	M5	M6	M4	G1/8	M6	Ø 14 G7	M4	M6	98.2	95.2	38	9	6.1
40	20	29	Ø 6	M8	-	M8	M4	G1/8	M8	Ø 25 G7	M6	M6	155	146	56.5	20.5	13.5

Ø [mm]	H6	H7	H8	H9	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
25	44.5	76.2	25.3	55	257	233	105	88	245	153	73	43	40	50	31.5
40	53	127	38	70	367	335	167	88	351	235	120	40	60	60	64