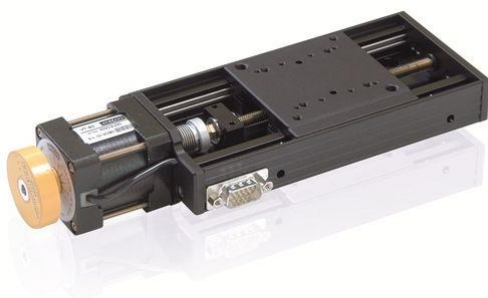


Translation Stage



VT-80

- + Travel range up to 300 mm
- + Uni- directional repeatability down to 0.4 μm
- + Maximum speed 20 mm/ sec
- + Load capacity up to 5 kg
- + Integrated limit switches

The translation stage VT-80 is a popular laboratory stage with a wide range of travel lengths. A backlash- free re-circulating ball bearing along with a back- lash compensated lead screw guarantees quiet and smooth motion. The translation stages VT-80 are equipped with integrated limit switches and motorized with DC or 2- phase stepper motors. Additionally the VT-80 can be ordered with our smc pollux motor- controller module. Due to the compact dimensions, the VT-80 stages are especially suitable for applications in instrumentation, but suitable only for lower duty cycles. All translation stages of the series VT-80 can be directly assembled as XY. XY- assembly with travel of 25 mm must be set- up at our plant. Please indicate set- up configurations when ordering.

Specifications

VT-80								
Load Characteristics	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)	kax ($\mu\text{rad/ Nm}$)	kay ($\mu\text{rad/ Nm}$)
DC- B-026	40	50	50	2.5	5	2.5	220	150
2Phase-041	40	50	50	2.5	5	2.5	220	150
2Phase-042	40	50	50	2.5	5	2.5	220	150
Travel Range (mm)	25	50	75	100	150	200	250	300
Straightness / Flatness (μm)	± 8	± 10	± 11	± 12	± 14	± 20	± 25	± 35
Pitch (μrad)	± 100	± 110	± 120	± 130	± 150	± 170	± 190	± 210
Yaw (μrad)	± 150	± 150	± 150	± 150	± 150	± 150	± 150	± 150
Weight (kg)	0.55	0.65	0.7	0.75	0.85	0.95	1.1	1.25

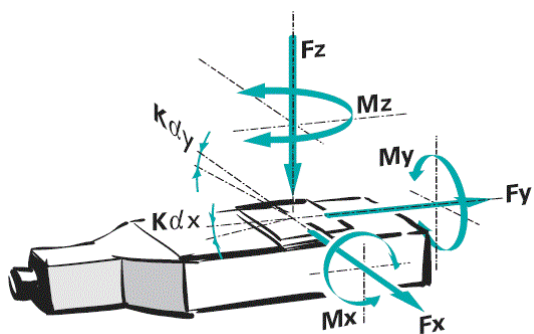
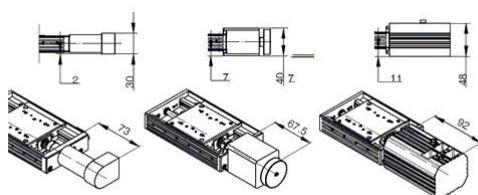
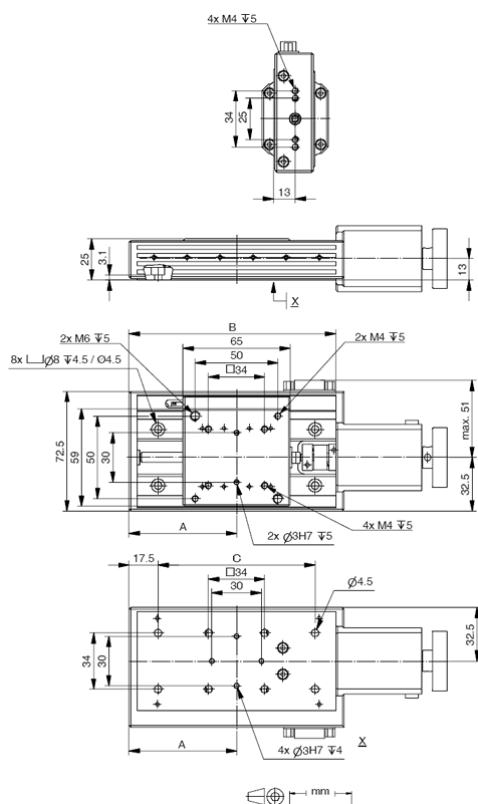
Specifications

Motor (Pitch 1 mm)	DC- B-026	2Phase-041	2Phase-042
Speed max. (mm/ sec)	20	20	13
Resolution calculated (μm)	0.5 (RE)	5 (FS)	5 (FS)
Resolution typical (μm)	0.5	0.2	0.2
Bi- directional Repeatability (μm)	± 10	± 10	± 10
Uni- directional Repeatability (μm)	0.8	0.4	0.4
Nominal Current (A)	0.98	1.7	0.5
Voltage Range (V)	24		
Accuracy	on request	on request	on request
Velocity Range (mm/ sec)	0.001 ... 20	0.001 ... 20	0.001 ... 20
Material	Aluminium, black anodized	Aluminium, black anodized	Aluminium, black anodized

Order Information

62309110
 VT-80 Translation Stage, DC Motor- B-026, 25 mm
62309120
 VT-80 Translation Stage, DC Motor- B-026, 50 mm
62309130
 VT-80 Translation Stage, DC Motor- B-026, 75 mm
62309140
 VT-80 Translation Stage, DC Motor- B-026, 100 mm
62309150
 VT-80 Translation Stage, DC Motor- B-026, 150 mm
62309160
 VT-80 Translation Stage, DC Motor- B-026, 200 mm
62309170
 VT-80 Translation Stage, DC Motor- B-026, 250 mm
62309180
 VT-80 Translation Stage, DC Motor- B-026, 300 mm
62309210
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 25 mm
62309220
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 50 mm
62309230
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 75 mm
62309240
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 100 mm
62309250
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 150 mm
62309260
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 200 mm
62309270
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 250 mm
62309280
 VT-80 Translation Stage, 2- Phase Stepper Motor-041, 300 mm
62309410
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 25 mm
62309420
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 50 mm
62309430
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 75 mm
62309440
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 100 mm
62309450
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 150 mm
62309460
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 200 mm
62309470
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 250 mm
62309480
 VT-80 Translation Stage, 2- Phase Stepper Motor-042, 300 mm

Drawings / Images



Travel range (mm):
 25 / 50 / 75 / 100 /
 150 / 200 / 250 / 300
 A (mm): 52.5 / 65 /
 77.5 / 90 / 115 / 140 /
 165 / 190
 B (mm): 100 / 125 /
 150 / 175 / 225 / 275 /
 325 / 375
 C (mm): 70 / 95 / 120 /
 145 / 195 / 245 / 295 /
 345

DC- B-026,
 2Phase-041, 2Phase-042