

Linear axes and axis systems HX

Double axes HD

15. Double axes HD

15.1 Properties of double axes HD with toothed belt drive

The HIWIN double axes HD are linear modules for flexible use and consist of two belt axes HM-B, which are connected to each other via a synchronous shaft. They are preferably used in applications where a single axis is not sufficient due to high torque loads or the dimensions of the loads to be transported. HIWIN double axes HD are also ideally suited as a basis for multi-axis systems.



Synchronous shaft

The synchronous shaft ensures safe and rigid power transmission for parallel movement of both axes. Due to the generously dimensioned diameter, the synchronous shaft is very torsionally stiff, meaning no additional bearing is required, even at higher speeds and longer axis distances.



Critical speed of the synchronous shaft

The critical speed depends on the length and diameter of the synchronous shaft and must not be exceeded during operation. The resulting maximum centre distance depending on the size and the axis speed of the HIWIN double axes can be calculated using the diagram in Fig. 15.1.

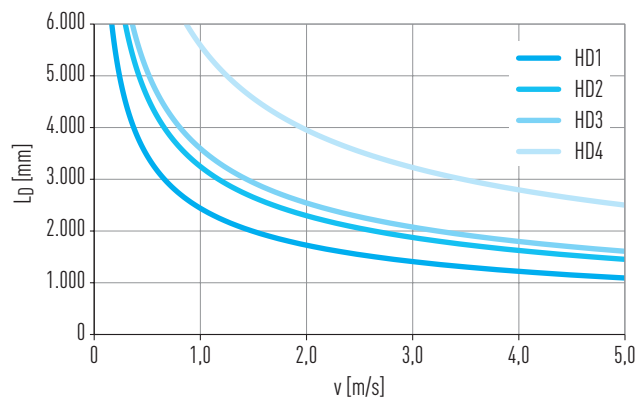


Fig. 15.1 Maximum centre distance L_D as a function of axis speed v

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Double axes HD

15.3 Dimensions and specifications of HD1

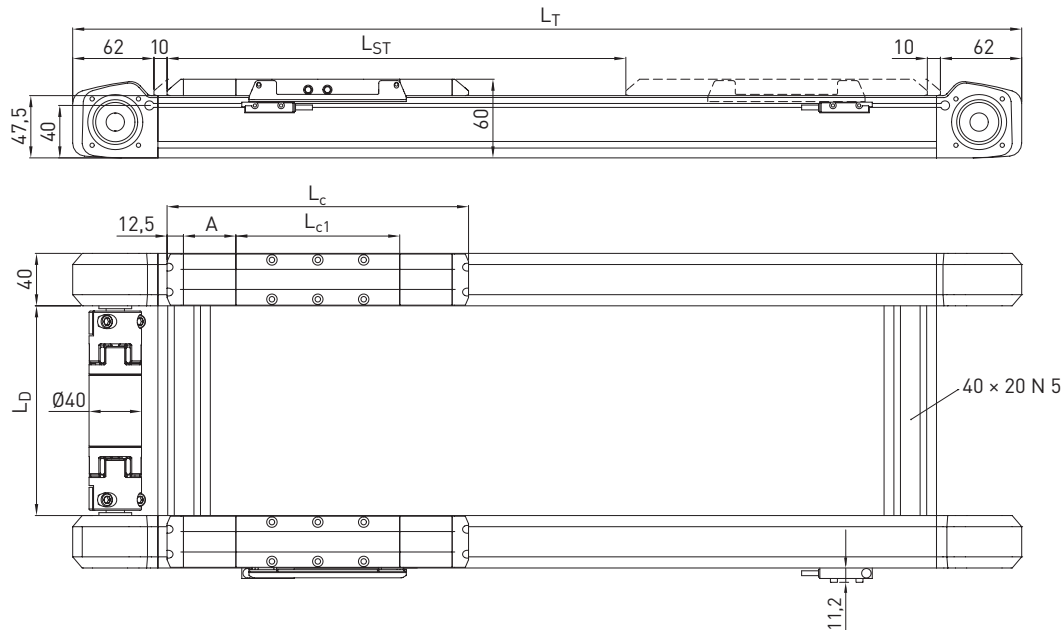


Table 15.1 HD1 dimensions

Type of carriage	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Carriage profile length L_c [mm]	125	160	230	125	160	230
Total carriage length L_{c1} [mm]	150	185	255	230	265	335
Cover strip deflection A [mm]	—	—	—	40	40	40
Max. stroke length L_{ST} [mm]	3,000	3,000	3,000	3,000	3,000	3,000
Total length L_T [mm]	$L_T = L_{ST} + 294$	$L_T = L_{ST} + 329$	$L_T = L_{ST} + 399$	$L_T = L_{ST} + 374$	$L_T = L_{ST} + 409$	$L_T = L_{ST} + 479$
Centre distance L_D min. [mm]	160	160	160	160	160	160
Centre distance L_D max. [mm]	1,500	1,500	1,500	1,500	1,500	1,500

Table 15.2 General technical data

Max. feed force F_{x_max} [N]	450
Max. speed [m/s]	5
Max. drive torque M_{A_max} [Nm]	8
Typical load capacity ¹⁾ [kg]	25
Single axis	HMD40B

¹⁾ With equal load distribution on both axes

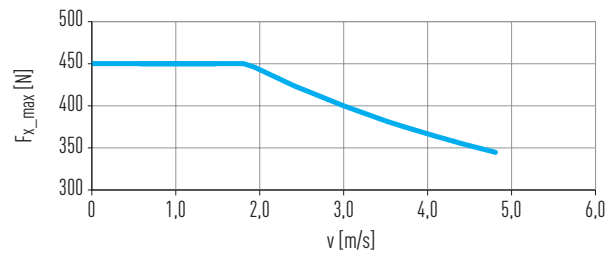


Fig. 15.2 Max. feed force F_{x_max} as a function of axis speed v

Table 15.3 Mechanical properties

Type of carriage	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Mass of the carriage [kg]	0.66	0.77	1.00	0.74	0.86	1.09
Mass at 0-stroke and centre distance $L_D = 0$ ²⁾ [kg]	3.33	3.65	4.32	3.93	4.26	4.92
Mass per 1 m stroke [kg/m]	6.04			6.09		
Mass per 1 m centre distance L_D [kg/m]	2.74			2.74		
$J_{rot.}$ ¹⁾ at 0-stroke and centre distance $L_D = 0$ [kgcm ²]	1.40			1.40		
$J_{rot.}$ ¹⁾ per 1 m stroke centre distance [kgcm ² /m]	3.24			3.24		
Idle torque at 0-stroke [Nm]	0.35			0.50		

¹⁾ Rotational moment of inertia

²⁾ The values apply to axes with one carriage. For axes with 2 carriages, add the following: Mass of carriage + mass per 1 m stroke x (clearance between the carriages (in m) + carriage length L_c (in m))

Note: For further dimensions and data, see belt axis HMD40B on Page 26.

15.4 Dimensions and specifications of HD2

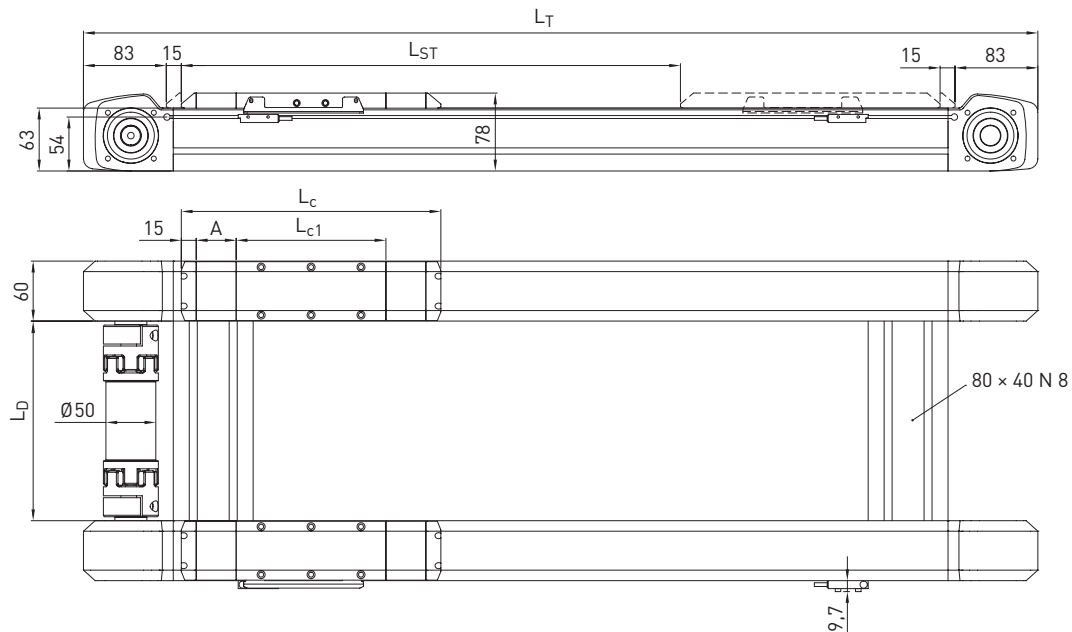


Table 15.4 HD2 dimensions

Type of carriage	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Carriage profile length L_c [mm]	150	200	300	150	200	300
Total carriage length L_c [mm]	180	230	330	260	310	410
Cover strip deflection A [mm]	—	—	—	40	40	40
Max. stroke length L_{ST} [mm]	5,704	5,654	5,554	5,624	5,574	5,474
Total length L_T [mm]	$L_T = L_{ST} + 376$	$L_T = L_{ST} + 426$	$L_T = L_{ST} + 526$	$L_T = L_{ST} + 456$	$L_T = L_{ST} + 506$	$L_T = L_{ST} + 606$
Centre distance L_D min. [mm]	186	186	186	186	186	186
Centre distance L_D max. [mm]	2,000	2,000	2,000	2,000	2,000	2,000

Table 15.5 General technical data

Max. feed force F_{x_max} [N]	1,323
Max. speed [m/s]	5
Max. drive torque M_{a_max} [Nm]	33
Typical load capacity ¹⁾ [kg]	63
Single axis	HM060B

¹⁾ With equal load distribution on both axes

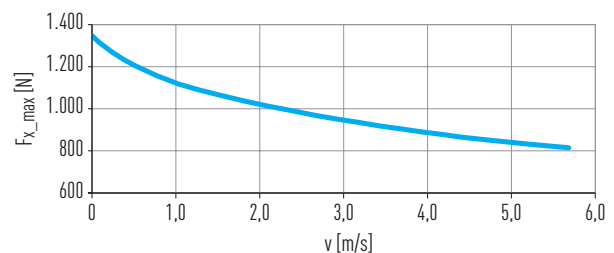


Fig. 15.3 Max. feed force F_{x_max} as a function of axis speed v

Table 15.6 Mechanical properties

Type of carriage	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Mass of the carriage [kg]	1.62	1.91	2.49	1.78	2.07	2.65
Mass at 0-stroke and centre distance $L_D = 0$ ²⁾ [kg]	8.19	9.04	10.73	9.29	10.14	11.84
Mass per 1 m stroke [kg/m]	10.93			11.02		
Mass per 1 m centre distance L_D [kg/m]	10.26			10.26		
$J_{rot.}$ ¹⁾ at 0-stroke and centre distance $L_D = 0$ [kgcm ²]	6.53			6.53		
$J_{rot.}$ ¹⁾ Per 1 m stroke centre distance [kgcm ² /m]	6.63			6.63		
Idle torque at 0-stroke [Nm]	0.94			2.00		

¹⁾ Rotational moment of inertia

²⁾ The values apply to axes with one carriage. For axes with 2 carriages, add the following: Mass of carriage + mass per 1 m stroke x (clearance between the carriages (in m) + carriage length L_c (in m))

Note: For further dimensions and data, see belt axis HM060B on Page 28.

Linear axes and axis systems HX

Double axes HD

15.5 Dimensions and specifications of HD3

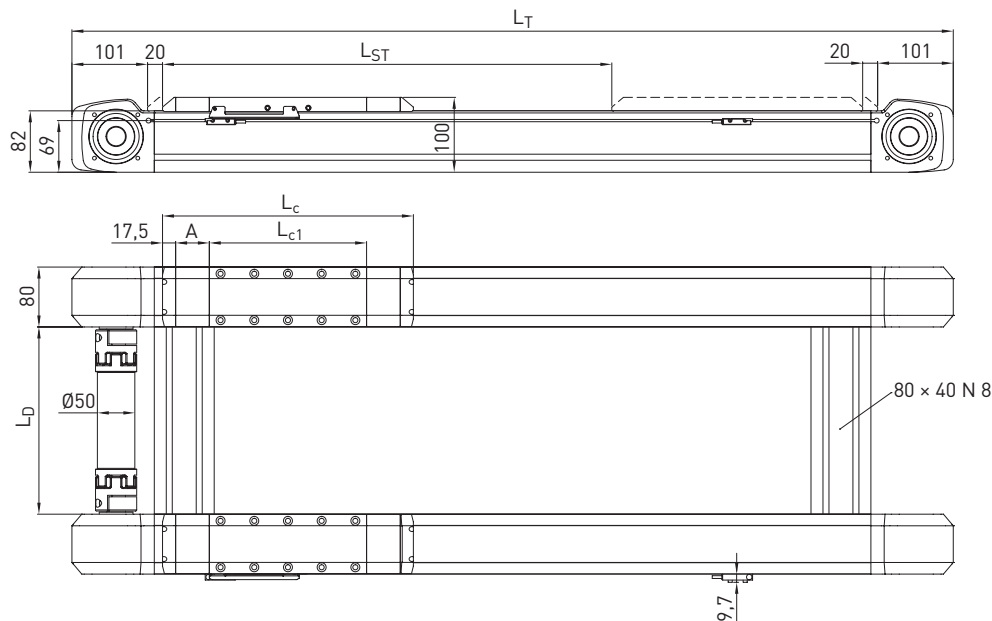


Table 15.7 HD3 dimensions

	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Type of carriage						
Carriage profile length L_c [mm]	210	300	390	210	300	390
Total carriage length L_c [mm]	245	335	425	335	425	515
Cover strip deflection A [mm]	—	—	—	45	45	45
Max. stroke length L_{ST} [mm]	5,633	5,543	5,453	5,543	5,453	5,363
Total length L_T [mm]	$L_T = L_{ST} + 487$	$L_T = L_{ST} + 577$	$L_T = L_{ST} + 667$	$L_T = L_{ST} + 577$	$L_T = L_{ST} + 667$	$L_T = L_{ST} + 757$
Centre distance L_D min. [mm]	200	200	200	200	200	200
Centre distance L_D max. [mm]	2,400	2,400	2,400	2,400	2,400	2,400

Table 15.8 General technical data

Max. feed force F_{x_max} [N]	1,852
Max. speed [m/s]	5
Max. drive torque M_{a_max} [Nm]	56
Typical load capacity [kg] ¹⁾	150
Single axis	HM080B

¹⁾ With equal load distribution on both axes

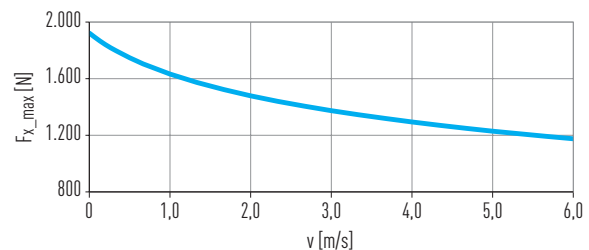


Fig. 15.4 Max. feed force F_{x_max} as a function of axis speed v

Table 15.9 Mechanical properties

	Variant without cover			Variant with cover		
	S	M	L	S	M	L
Type of carriage						
Mass of the carriage [kg]	3.10	3.94	4.77	3.40	4.24	5.07
Mass at 0-stroke and centre distance $L_D = 0$ ²⁾ [kg]	16.09	18.73	21.36	18.28	20.93	23.57
Mass per 1 m stroke [kg/m]	19.73			19.84		
Mass per 1 m centre distance L_D [kg/m]	10.26			10.26		
$J_{rot.}$ ¹⁾ at 0-stroke and centre distance $L_D = 0$ [kgcm ²]	15.00			15.00		
$J_{rot.}$ ¹⁾ Per 1 m stroke centre distance [kgcm ² /m]	6.63			6.63		
Idle torque at 0-stroke [Nm]	2.40			2.60		

¹⁾ Rotational moment of inertia

²⁾ The values apply to axes with one carriage. For axes with 2 carriages, add the following: Mass of carriage + mass per 1 m stroke x (clearance between the carriages (in m) + carriage length L_c (in m))

Note: For further dimensions and data, see belt axis HM080B on Page 30.

15.6 Dimensions and specifications of HD4

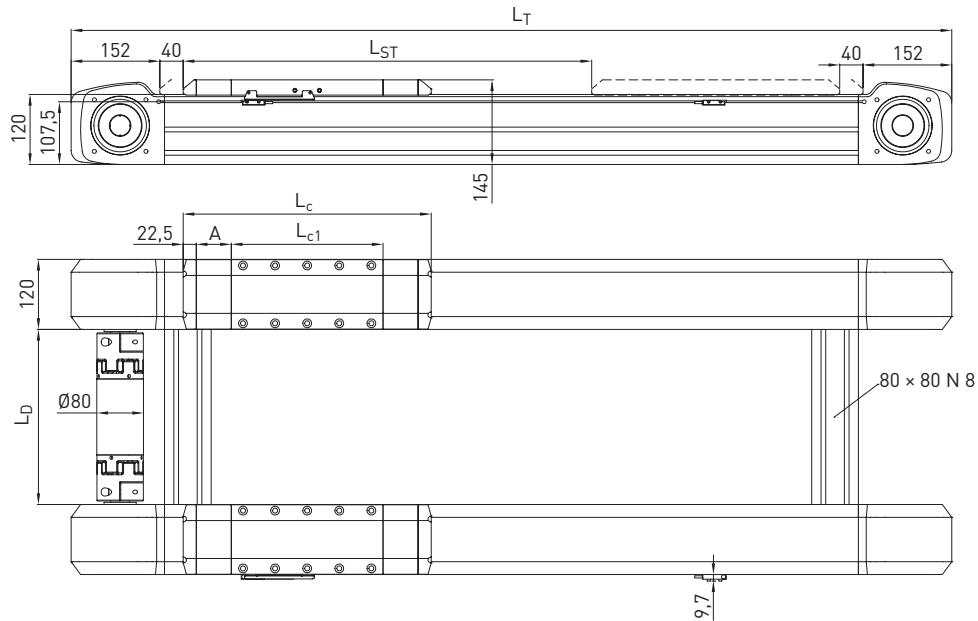


Table 15.10 HD4 dimensions

Type of carriage	Variant without cover			Variant with cover		
	S	M	L/H	S	M	L/H
Carriage profile length L_c [mm]	260	370	535	260	370	535
Total carriage length L_c [mm]	305	415	580	425	535	700
Cover strip deflection A [mm]	—	—	—	60	60	60
Max. stroke length L_{ST} [mm]	5,531	5,421	5,256	5,411	5,301	5,136
Total length L_T [mm]	$L_T = L_{ST} + 689$	$L_T = L_{ST} + 799$	$L_T = L_{ST} + 964$	$L_T = L_{ST} + 809$	$L_T = L_{ST} + 919$	$L_T = L_{ST} + 1,084$
Centre distance L_D min. [mm]	256	256	256	256	256	256
Centre distance L_D max. [mm]	3,000	3,000	3,000	3,000	3,000	3,000

Table 15.11 General technical data

Max. feed force F_{x_max} [N]	4,385
Max. speed [m/s]	5
Max. drive torque M_{a_max} [Nm]	201
Typical load capacity [kg] ¹⁾	300
Single axis	HM120B

¹⁾ With equal load distribution on both axes

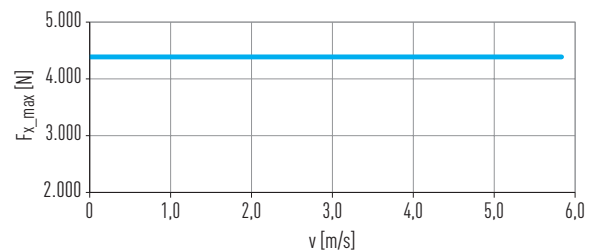


Fig. 15.5 Max. feed force F_{x_max} as a function of axis speed v

Table 15.12 Mechanical properties

Type of carriage	Variant without cover				Variant with cover			
	S	M	L	H	S	M	L/H	H
Mass of the carriage [kg]	10.59	12.15	15.58	17.44	11.61	13.18	16.60	18.39
Mass at 0-stroke and centre distance $L_D = 0$ ²⁾ [kg]	50.31	56.68	64.66	66.21	56.63	63.02	71.22	72.77
Mass per 1 m stroke [kg/m]	41.54				41.72			
Mass per 1 m centre distance L_D [kg/m]	18.42				18.42			
$J_{rot.}$ ¹⁾ at 0-stroke and centre distance $L_D = 0$ [kgcm ²]	104.30				104.30			
$J_{rot.}$ ¹⁾ Per 1 m stroke centre distance [kgcm ² /m]	44.90				44.90			
Idle torque at 0-stroke [Nm]	6.20				9.00			

¹⁾ Rotational moment of inertia

²⁾ The values apply to axes with one carriage. For axes with 2 carriages, add the following: Mass of carriage + mass per 1 m stroke x (clearance between the carriages (in m) + carriage length L_c (in m))

Note: For further dimensions and data, see belt axis HM120B on Page 32.

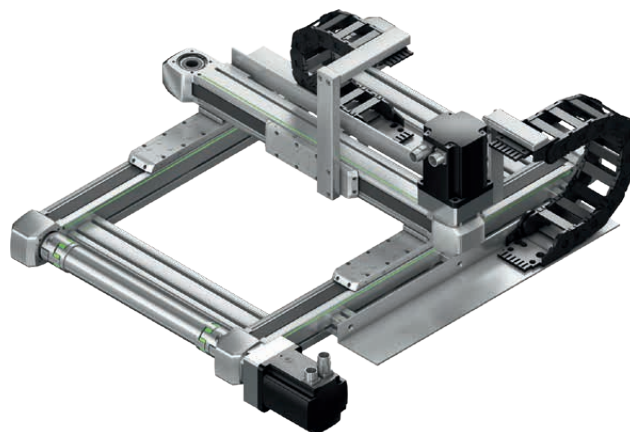
Linear axes and axis systems HX

Two-axis systems HS2

16. Two-axis systems HS2

16.1 Properties of the double axis systems HS2

HIWIN two-axis systems HS2 are flexible units for positioning along the X- and Y-axes. They consist of a HIWIN double axis HD in the X direction and a HIWIN belt axis HM-B or HT-B in the Y direction. HIWIN two-axis systems HS2 are especially suitable for two-dimensional or flat movements in one plane and form the basis for three-axis systems.



Energy chain

Generously dimensioned energy chains provide space for safely carrying the supply lines. The energy chains are integrated into the complete system in a particularly compact and space-saving way.



Maximum axis speed in X direction

The maximum axis speed in the X direction depends on the size and the centre distance, which in the two-axis system HS2 results from the selected stroke in the Y direction. The dependence of the maximum axis speed on stroke length Y can be determined from the diagram in Fig. 16.1.

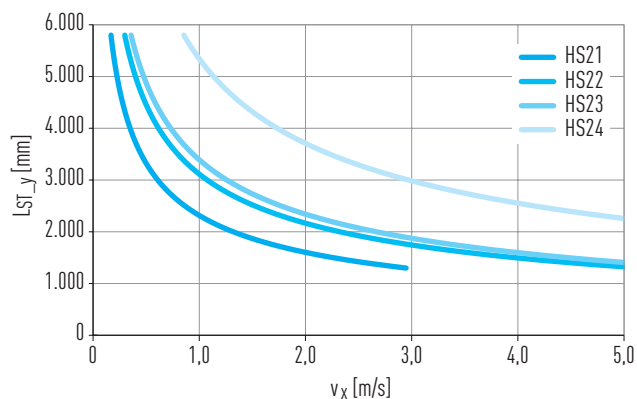
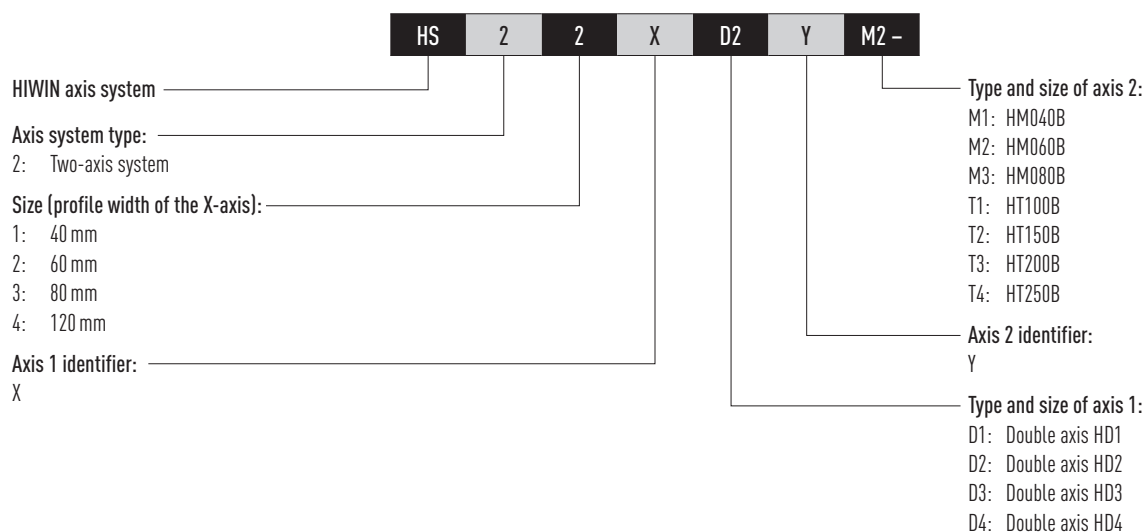
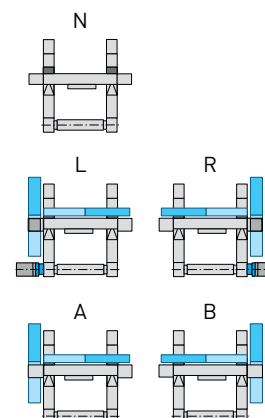
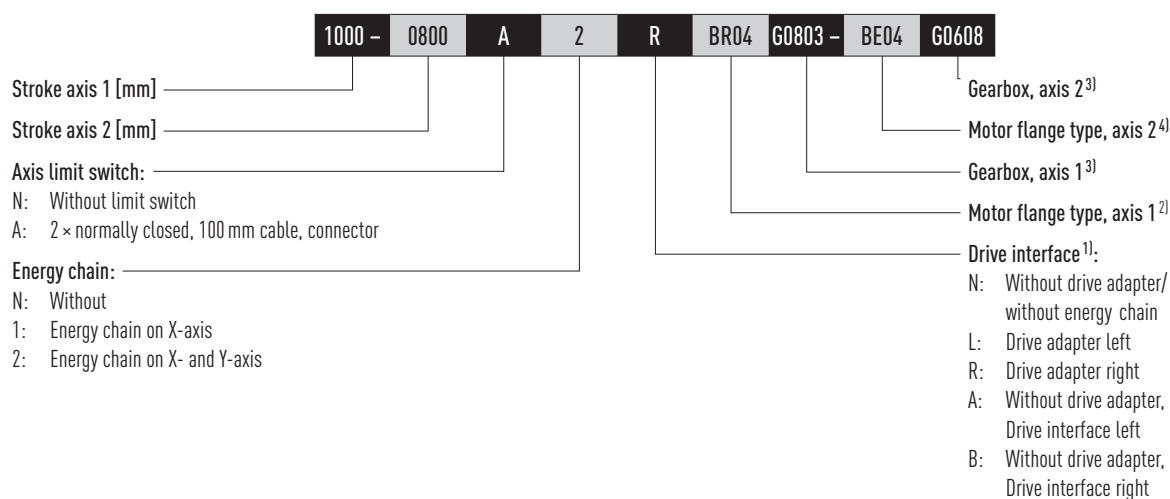


Fig. 16.1 Max. axis speed v in X direction, as a function of stroke L_{ST} in Y direction

16.2 Order code for two-axis systems HS2



Continuation, order code for two-axis systems HS2



¹⁾ If no drive interface is selected, the order code ends after this digit.

²⁾ You can find all flange types in Table 22.1 from page 160. If no flange type is selected, the "Gearbox, axis 1" position is omitted.

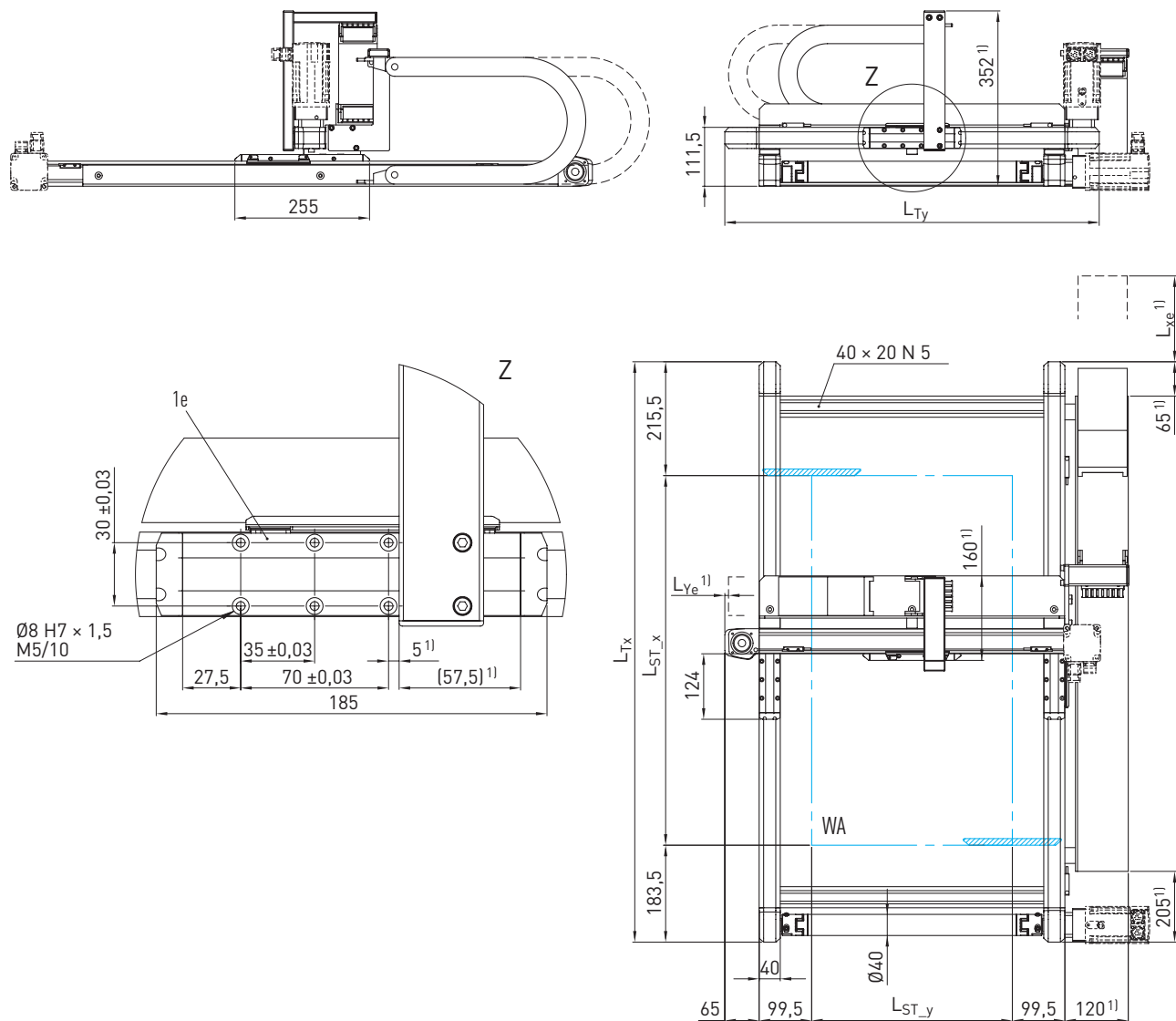
³⁾ You can find matching gearboxes in section 22.1.5.5 from page 195.

⁴⁾ All flange types for linear modules HM-B can be found in Table 22.1 from page 160, for linear tables HT-B in Table 22.2 from page 166. If no flange type is selected, the order code ends after this digit.

Linear axes and axis systems HX

Two-axis systems HS2

16.3 Dimensions and specifications of HS21-D-M

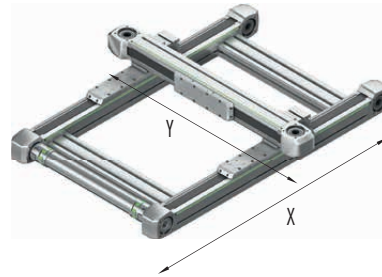


¹⁾ Omitted for variant without energy chain

L_{ST} Stroke
 WA Working space
 1e Interface application

Table 16.1 HS21-D-M dimensions	
Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 399$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 329$

Table 16.2 Energy chain		
	X-axis	Y-axis
Inner cross section $W \times H$ [mm]	77×25	57×25
Bending radius [mm]	100	75
End position at electrical zero F [mm]	$L_{Xe} = 190.5$	$L_{Ye} = 7.0$
End position at mechanical zero [mm]	$L_{Xe} = 195.5$	$L_{Ye} = 2.0$


Table 16.3 General technical data

	X-axis	Y-axis
Axis type	HD1N	HM040B-N
Type of carriage	L	M
Max. feed force F_{x_max} [N]	450	300
Max. speed¹⁾ [m/s]	5	
Max. acceleration¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	8	5
Max. stroke [mm]	3,000	1,300
Typical load capacity [kg]	5	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD1 can be found in section 15.3 on page 106

Dimensions and specifications of single axis HM040B can be found in section 5.3 on page 26

Table 16.4 Drive

	X-axis	Y-axis
Toothed belt drive element	B15HTD3	
Feed constant [mm/U]	111	
Toothed belt effective diameter [mm]	35.33	

Table 16.5 Mechanical properties

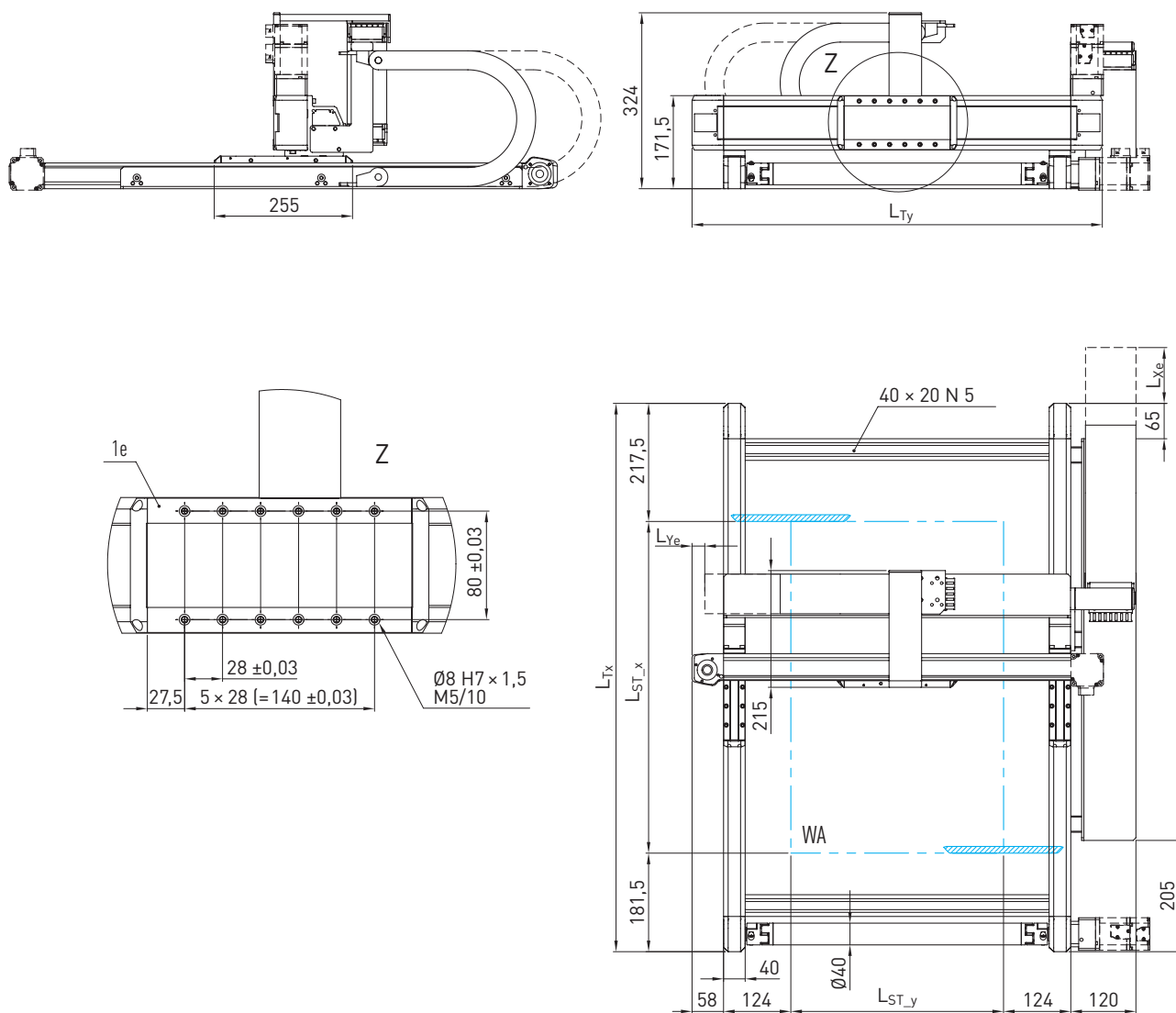
Moving mass Y-axis [kg]	0.41
Moving mass X-axis at 0-stroke Y-axis [kg]	2.92
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	3.02
Mass of total system at 0-stroke X- and Y-axis [kg]	6.93
Mass of total system per 1 m stroke X-axis [kg/m]	6.04
Mass of total system per 1 m stroke Y-axis [kg/m]	5.36

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS2

16.4 Dimensions and specifications of HS21-D-T



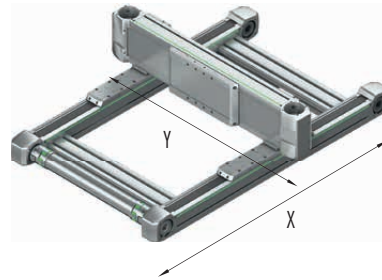
L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 16.6 HS21-D-T dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 399$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 364$

Table 16.7 Energy chain

	X-axis	Y-axis
Inner cross section $W \times H$ [mm]	77×25	57×25
Bending radius [mm]	100	75
End position at electrical zero F [mm]	$L_{Xe} = 190.5$	$L_{Ye} = 23.5$
End position at mechanical zero [mm]	$L_{Xe} = 195.5$	$L_{Ye} = 11.0$


Table 16.8 General technical data

	X-axis	Y-axis
Axis type	HD1N	HT100B-C
Type of carriage	L	S
Max. feed force F_{x_max} [N]	450	813
Max. speed¹⁾ [m/s]	5	
Max. acceleration¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	8	14
Max. stroke [mm]	3,000	1,300
Typical load capacity [kg]	20	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD1 can be found in section 15.3 on page 106

Dimensions and specifications of linear table HT100B can be found in section 7.3 on page 46

Table 16.9 Drive

	X-axis	Y-axis
Toothed belt drive element	B15HTD3	B25HTD5
Feed constant [mm/U]	111	105
Toothed belt effective diameter [mm]	35.33	33.42

Table 16.10 Mechanical properties

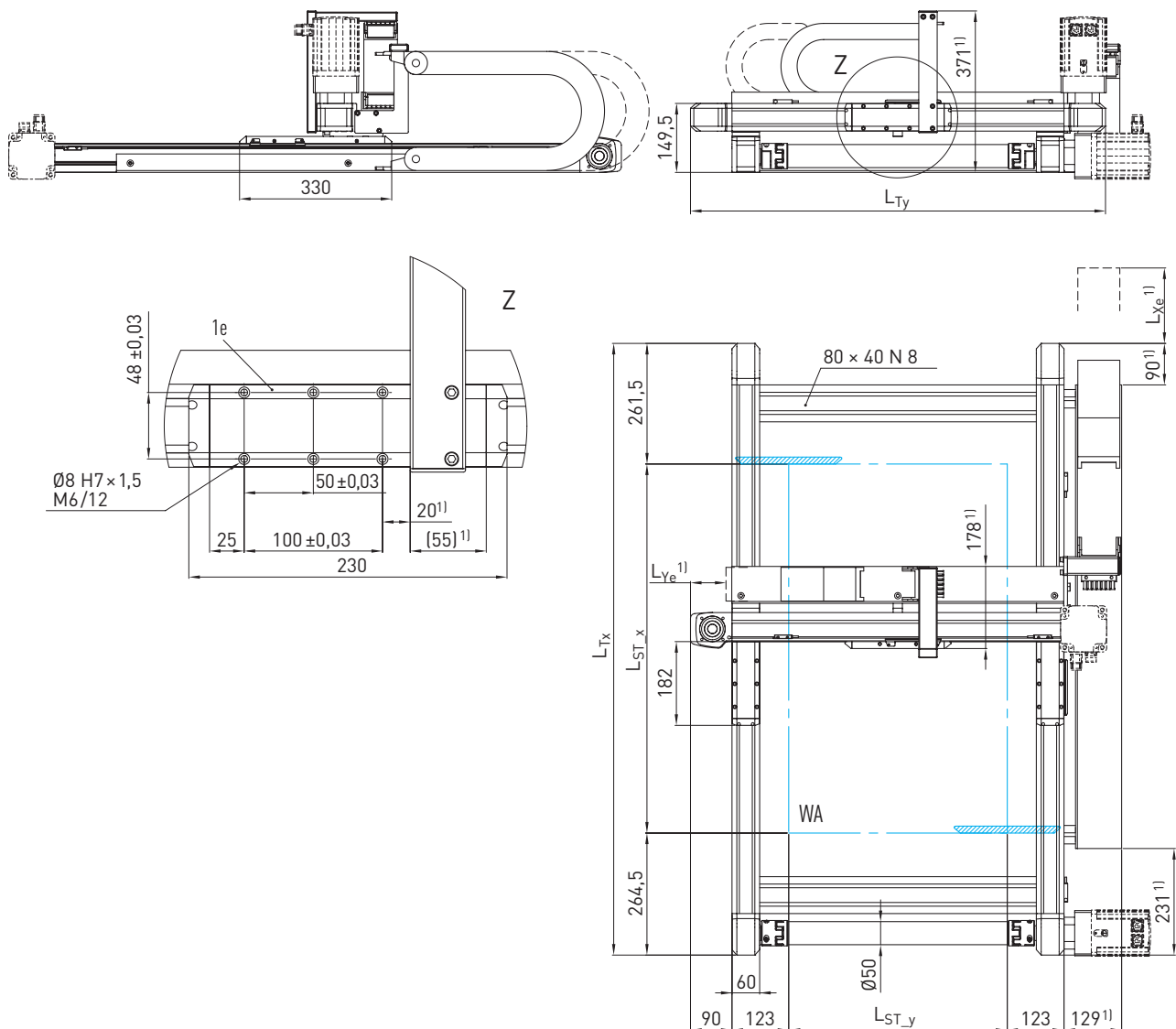
Moving mass Y-axis [kg]	1.59
Moving mass X-axis at 0-stroke Y-axis [kg]	6.22
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	6.71
Mass of total system at 0-stroke X- and Y-axis [kg]	10.48
Mass of total system per 1 m stroke X-axis [kg/m]	6.04
Mass of total system per 1 m stroke Y-axis [kg/m]	9.10

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS2

16.5 Dimensions and specifications of HS22-D-M



¹⁾ Omitted for variant without energy chain

L_{ST} Stroke
WA Working space
1e Interface application

Table 16.11 HS22-D-M dimensions

Total length X-axis L _{Tx} [mm]	$L_{Tx} = L_{ST_x} + 526$
Total length Y-axis L _{Ty} [mm]	$L_{Ty} = L_{ST_y} + 426$

Table 16.12 Energy chain

	X-axis	Y-axis
Inner cross section W × H [mm]	75 × 35	57 × 25
Bending radius [mm]	100	75
End position at electrical zero F [mm]	L _{He} = 199.0	L _{He} = 45.5
End position at mechanical zero [mm]	L _{He} = 206.5	L _{He} = 38.0

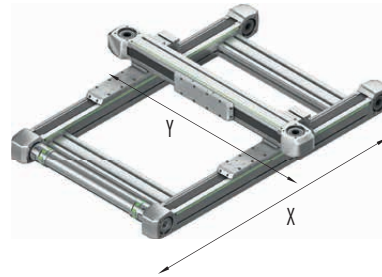


Table 16.13 General technical data

	X-axis	Y-axis
Axis type	HD2N	HM060B-N
Type of carriage	L	M
Max. feed force F_{x_max} [N]	1,323	882
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s ²]	30	
Max. drive torque M_{A_max} [Nm]	33	22
Max. stroke [mm]	5,000	1,700
Typical load capacity [kg]	12	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD2 can be found in section 15.4 on page 107

Dimensions and specifications of single axes HM060B can be found in section 5.4 on page 28

Table 16.14 Drive

	X-axis	Y-axis
Toothed belt drive element	B25HTD5	
Feed constant [mm/U]	155	
Toothed belt effective diameter [mm]	49.34	

Table 16.15 Mechanical properties

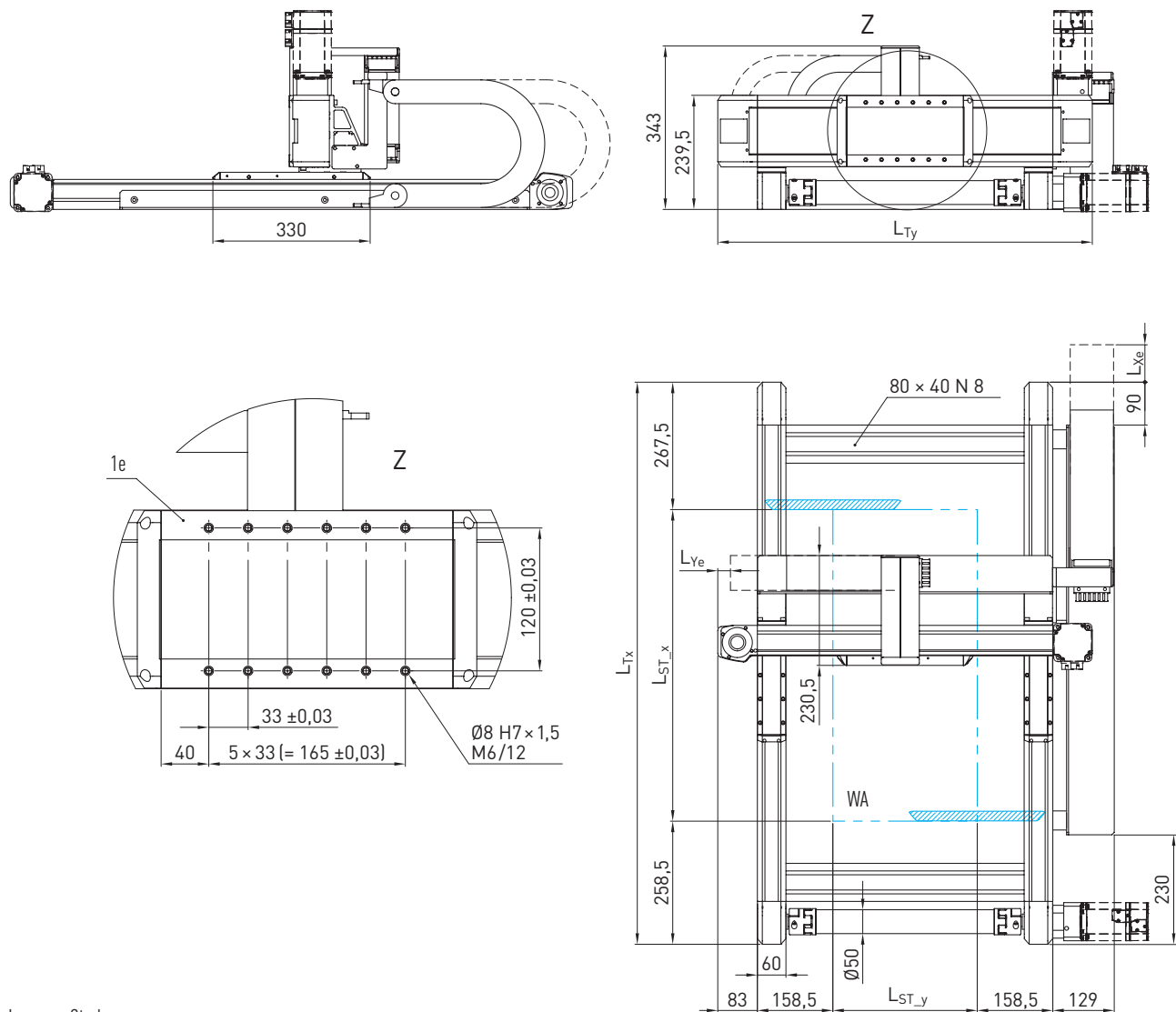
Moving mass Y-axis [kg]	1.02
Moving mass X-axis at 0-stroke Y-axis [kg]	7.04
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	5.47
Mass of total system at 0-stroke X- and Y-axis [kg]	17.23
Mass of total system per 1 m stroke X-axis [kg/m]	10.93
Mass of total system per 1 m stroke Y-axis [kg/m]	15.70

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS2

16.6 Dimensions and specifications of HS22-D-T



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 16.16 HS22-D-T dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 526$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 483$

Table 16.17 Energy chain

	X-axis	Y-axis
Inner cross section $W \times H$ [mm]	75 × 35	57 × 25
Bending radius [mm]	100	75
End position at electrical zero F [mm]	$L_{Xe} = 199.0$	$L_{Ye} = 26.5$
End position at mechanical zero [mm]	$L_{Xe} = 206.5$	$L_{Ye} = 16.5$

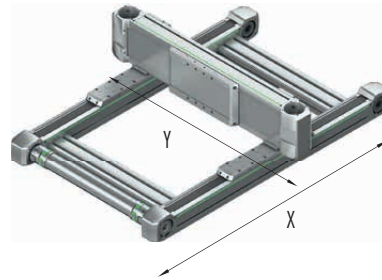


Table 16.18 General technical data

	X-axis	Y-axis
Axis type	HD2N	HT150B-C
Type of carriage	L	S
Max. feed force F_{x_max} [N]	1,323	1,300
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s ²]	30	
Max. drive torque M_{A_max} [Nm]	33	32
Max. stroke [mm]	5,000	1,650
Typical load capacity [kg]	40	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD2 can be found in section 15.4 on page 107

Dimensions and specifications of linear table HT150B can be found in section 7.4 on page 48

Table 16.19 Drive

	X-axis	Y-axis
Toothed belt drive element	B25HTD5	B40HTD5
Feed constant [mm/U]	155	
Toothed belt effective diameter [mm]	49.34	

Table 16.20 Mechanical properties

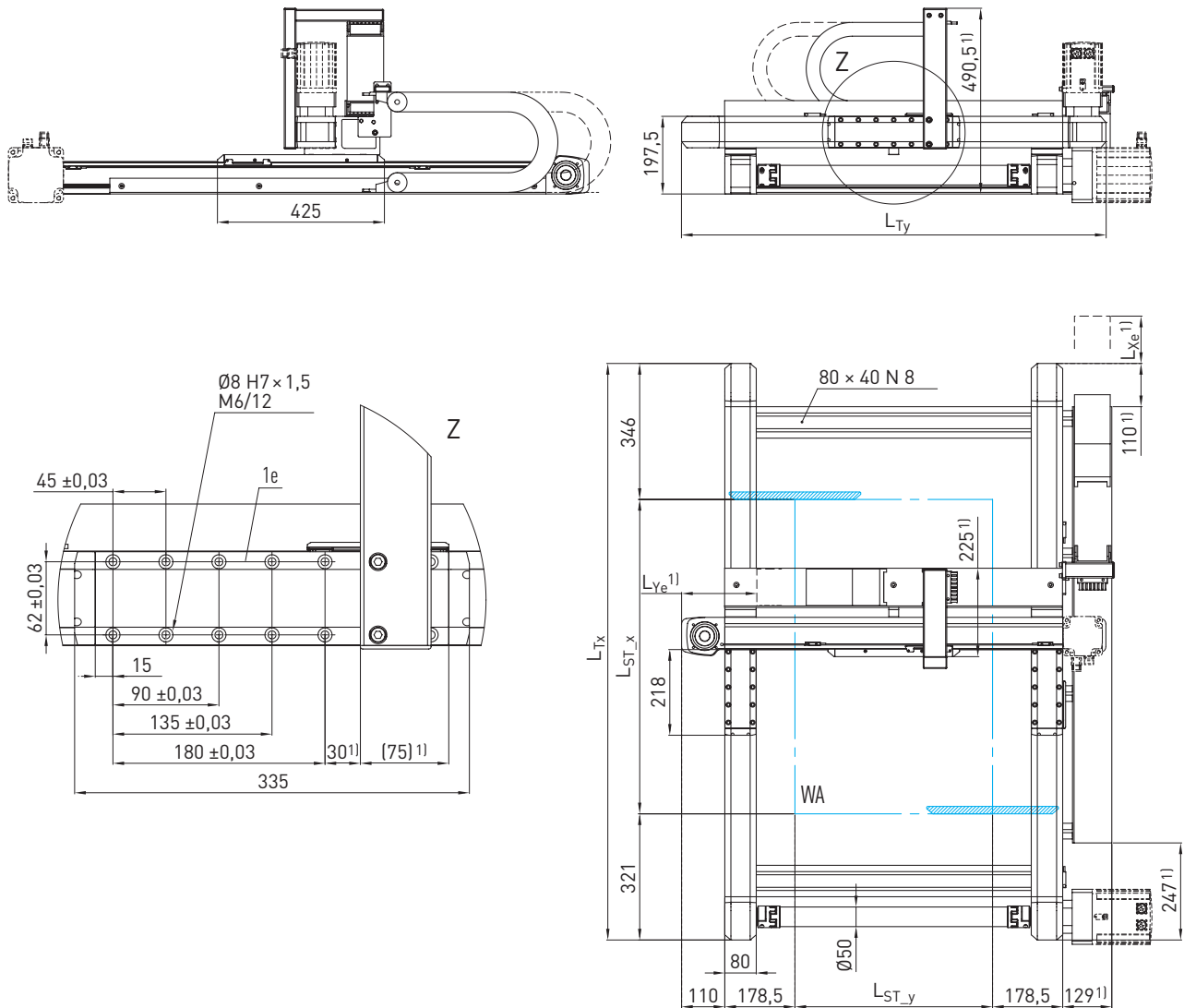
Moving mass Y-axis [kg]	3.08
Moving mass X-axis at 0-stroke Y-axis [kg]	13.48
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	11.16
Mass of total system at 0-stroke X- and Y-axis [kg]	24.70
Mass of total system per 1 m stroke X-axis [kg/m]	10.93
Mass of total system per 1 m stroke Y-axis [kg/m]	21.48

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS2

16.7 Dimensions and specifications of HS23-D-M



¹⁾ Omitted for variant without energy chain

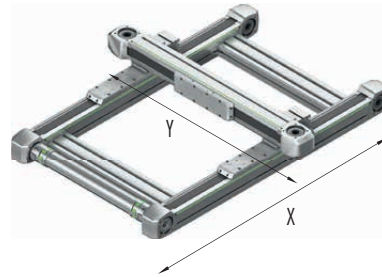
L_{ST} Stroke
WA Working space
1e Interface application

Table 16.21 HS23-D-M dimensions

Total length X-axis L _{Tx} [mm]	$L_{Tx} = L_{ST_x} + 667$
Total length Y-axis L _{Ty} [mm]	$L_{Ty} = L_{ST_y} + 577$

Table 16.22 Energy chain

	X-axis	Y-axis
Inner cross section W × H [mm]	75 × 35	77 × 25
Bending radius [mm]	100	100
End position at electrical zero F [mm]	L _{Xe} = 159.5	L _{Ye} = 158.5
End position at mechanical zero [mm]	L _{Xe} = 169.5	L _{Ye} = 148.5


Table 16.23 General technical data

	X-axis	Y-axis
Axis type	HD3N	HM080B-N
Type of carriage	L	M
Max. feed force F_{x_max} [N]	1,852	1,235
Max. speed¹⁾ [m/s]	5	
Max. acceleration¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	56	37
Max. stroke [mm]	5,000	1,600
Typical load capacity [kg]	30	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD3 can be found in section 15.5 on page 108

Dimensions and specifications of single axis HM080B can be found in section 5.5 on page 30

Table 16.24 Drive

	X-axis	Y-axis
Toothed belt drive element	B35HTD5	
Feed constant [mm/U]	190	
Toothed belt effective diameter [mm]	60.48	

Table 16.25 Mechanical properties

Moving mass Y-axis [kg]	2.09
Moving mass X-axis at 0-stroke Y-axis [kg]	15.12
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	9.86
Mass of total system at 0-stroke X- and Y-axis [kg]	35.39
Mass of total system per 1 m stroke X-axis [kg/m]	19.73
Mass of total system per 1 m stroke Y-axis [kg/m]	20.27

Note: All values without energy chain and without drive

Two-axis systems HS2

Table 16.26 **HS23-D-T dimensions**

	X-axis	Y-axis
Inner cross section W × H [mm]	75 × 35	77 × 25
Bending radius [mm]	100	100
End position at electrical zero F [mm]	L _{Xe} = 159.5	L _{Ye} = 63.0
End position at mechanical zero [mm]	L _{Xe} = 169.5	L _{Ye} = 48.0

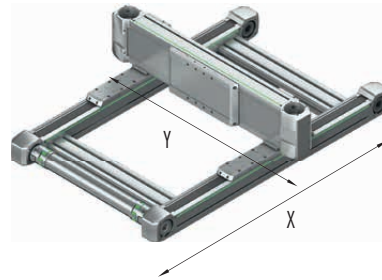


Table 16.28 General technical data

	X-axis	Y-axis
Axis type	HD3N	HT200B-C
Type of carriage	L	S
Max. feed force F_{x_max} [N]	1,852	3,000
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s ²]	30	
Max. drive torque M_{A_max} [Nm]	56	88
Max. stroke [mm]	5,000	1,550
Typical load capacity [kg]	80	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD3 can be found in section 15.5 on page 108

Dimensions and specifications of linear table HT200B can be found in section 7.5 on page 50

Table 16.29 Drive

	X-axis	Y-axis
Toothed belt drive element	B35HTD5	B50HTD8
Feed constant [mm/U]	190	184
Toothed belt effective diameter [mm]	60.48	58.57

Table 16.30 Mechanical properties

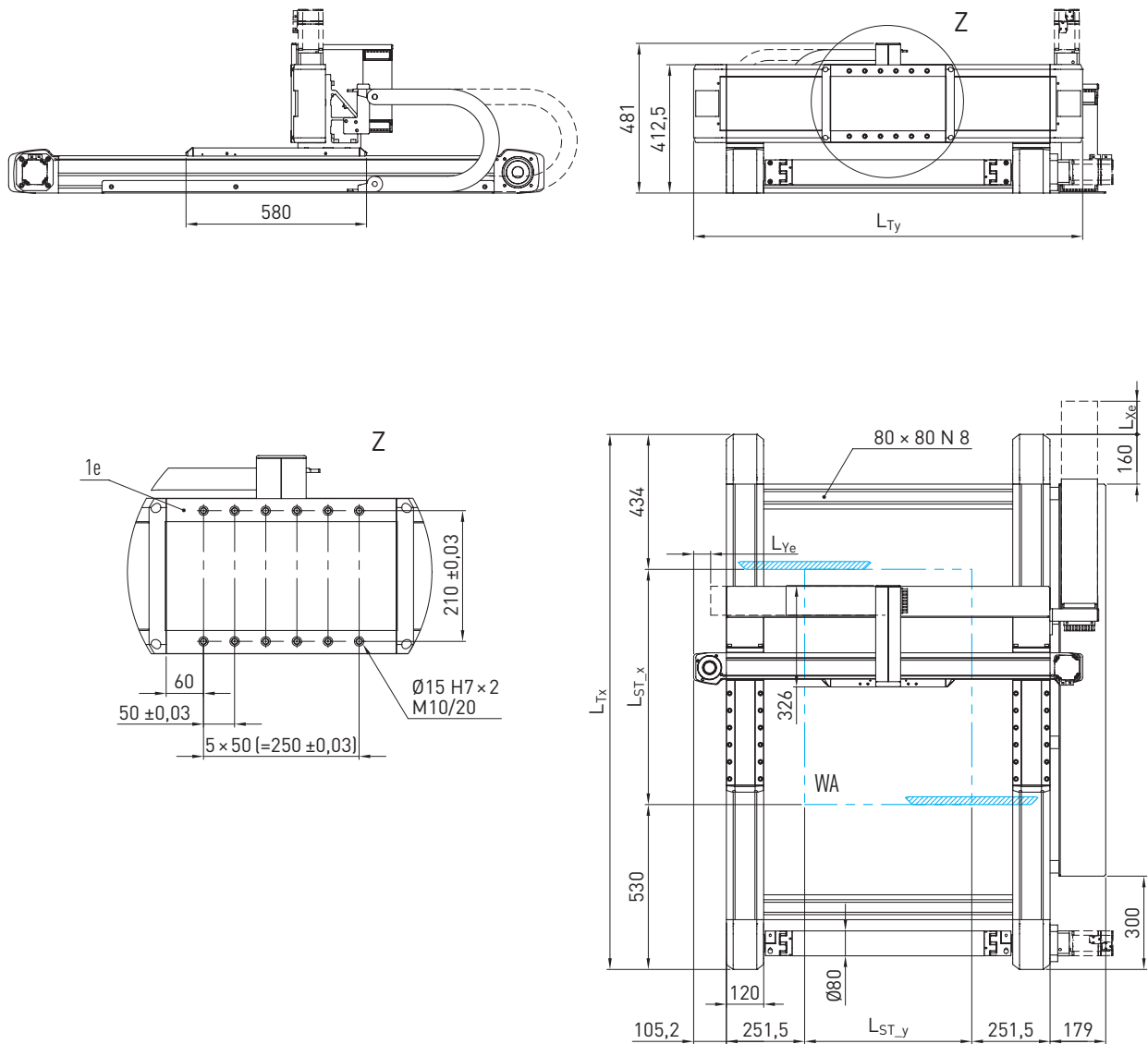
Moving mass Y-axis [kg]	5.52
Moving mass X-axis at 0-stroke Y-axis [kg]	26.89
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	17.57
Mass of total system at 0-stroke X- and Y-axis [kg]	48.21
Mass of total system per 1 m stroke X-axis [kg/m]	19.73
Mass of total system per 1 m stroke Y-axis [kg/m]	28.01

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS2

16.9 Dimensions and specifications of HS24-D-T



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 16.31 HS24-D-T dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 964$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 713$

Table 16.32 Energy chain

	X-axis	Y-axis
Inner cross section $W \times H$ [mm]	100 × 35	77 × 25
Bending radius [mm]	125	100
End position at electrical zero F [mm]	$L_{Xe} = 116.5$	$L_{Ye} = 111.5$
End position at mechanical zero [mm]	$L_{Xe} = 136.5$	$L_{Ye} = 91.5$

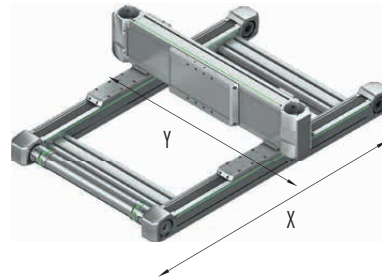


Table 16.33 General technical data

	X-axis	Y-axis
Axis type	HD4N	HT250B-C
Type of carriage	L	S
Max. feed force F_{x_max} [N]	4,385	4,500
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s ²]	30	
Max. drive torque M_{A_max} [Nm]	201	149
Max. stroke [mm]	5,000	1,400
Typical load capacity [kg]	130	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD4 can be found in section 15.6 on page 109

Dimensions and specifications of linear table HT250B can be found in section 7.6 on page 52

Table 16.34 Drive

	X-axis	Y-axis
Toothed belt drive element	B60HTD8	B75HTD8
Feed constant [mm/U]	288	208
Toothed belt effective diameter [mm]	91.67	66.21

Table 16.35 Mechanical properties

Moving mass Y-axis [kg]	10.27
Moving mass X-axis at 0-stroke Y-axis [kg]	53.78
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	22.87
Mass of total system at 0-stroke X- and Y-axis [kg]	114.13
Mass of total system per 1 m stroke X-axis [kg/m]	41.54
Mass of total system per 1 m stroke Y-axis [kg/m]	39.62

Note: All values without energy chain and without drive

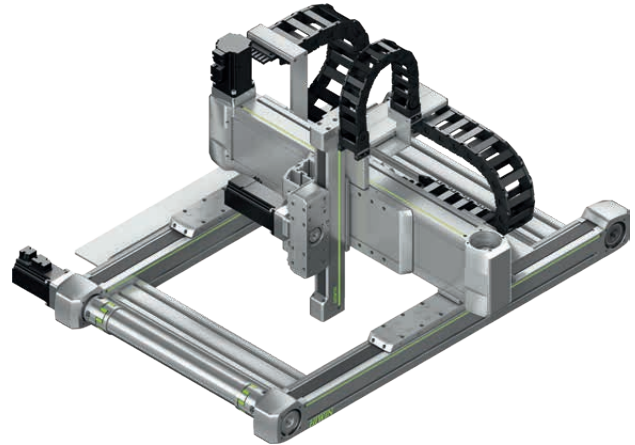
Linear axes and axis systems HX

Two-axis systems HS3

17. Two-axis systems HS3

17.1 Properties of three-axis systems HS3

HIWIN three-axis systems HS3 are flexible units for positioning along the X- Y- and Z-axis. They consist of a HIWIN double axis HD in the X direction, a HIWIN belt axis HT-B in the Y direction and a HIWIN cantilever axis HC-B in the Z direction. HIWIN HS32 three-axis systems are particularly suitable for three-dimensional movements.



Energy chain

Generously dimensioned energy chains provide space for safely carrying the supply lines. The energy chains are integrated into the complete system in a particularly compact and space-saving way.



Maximum axis speed in X direction

The maximum axis speed in the X direction depends on the size and the centre distance, which in the three-axis system HS3 results from the selected stroke in the Y direction. The dependence of the maximum axis speed on stroke length Y can be determined from the diagram in Fig. 17.1.

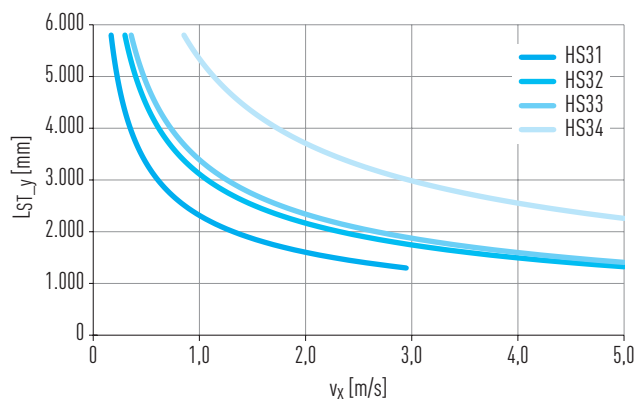
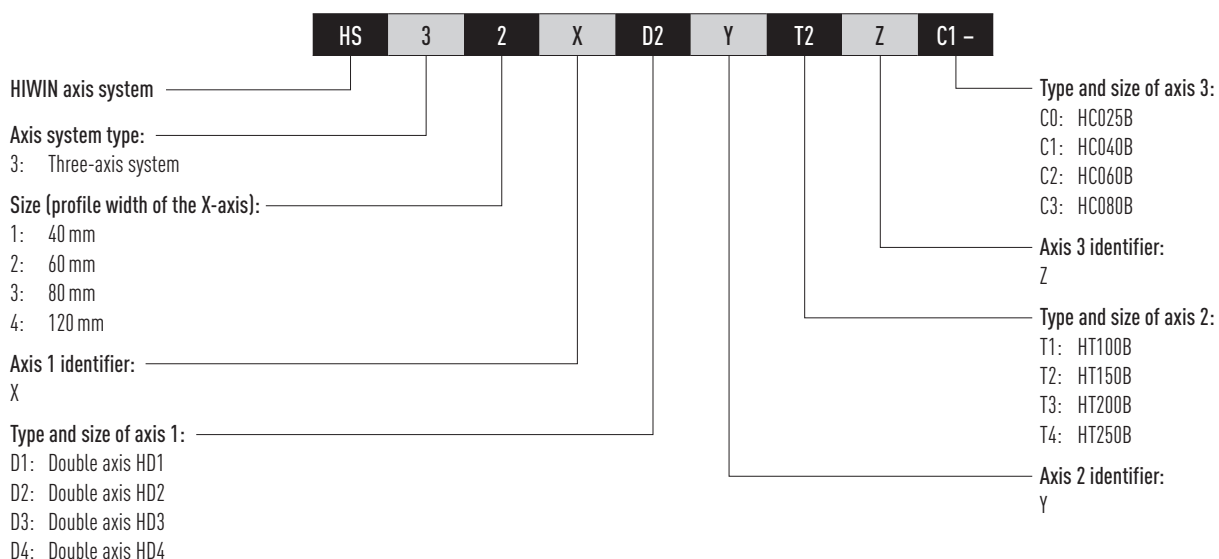
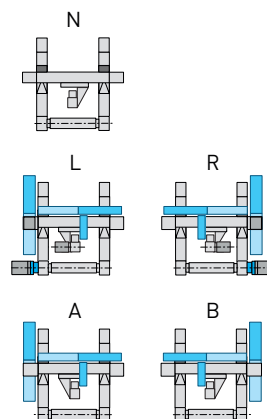
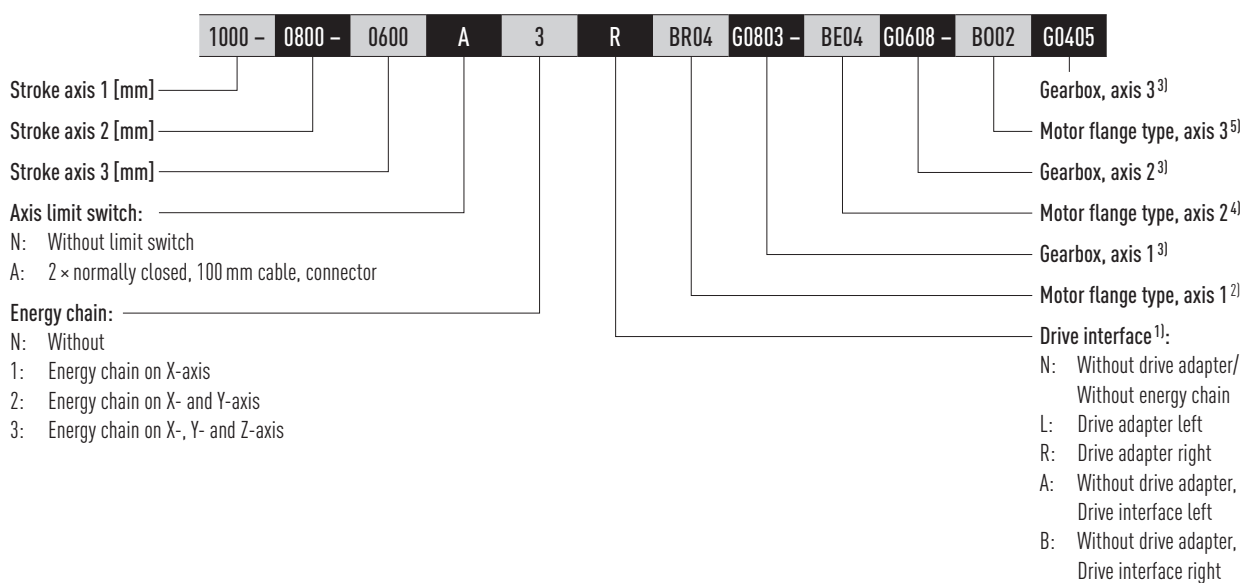


Fig. 17.1 Max. axis speed v in X direction, as a function of stroke L_{ST} in Y direction

17.2 Order code for three-axis systems HS3



Continuation, order code for three-axis systems HS3



¹⁾ If no drive interface is selected, the order code ends after this digit.

²⁾ You can find all flange types in Table 22.1 from page 160. If no flange type is selected, the "Gearbox, axis 1" position is omitted.

³⁾ You can find matching gearboxes in section 22.1.5.5 from page 195.

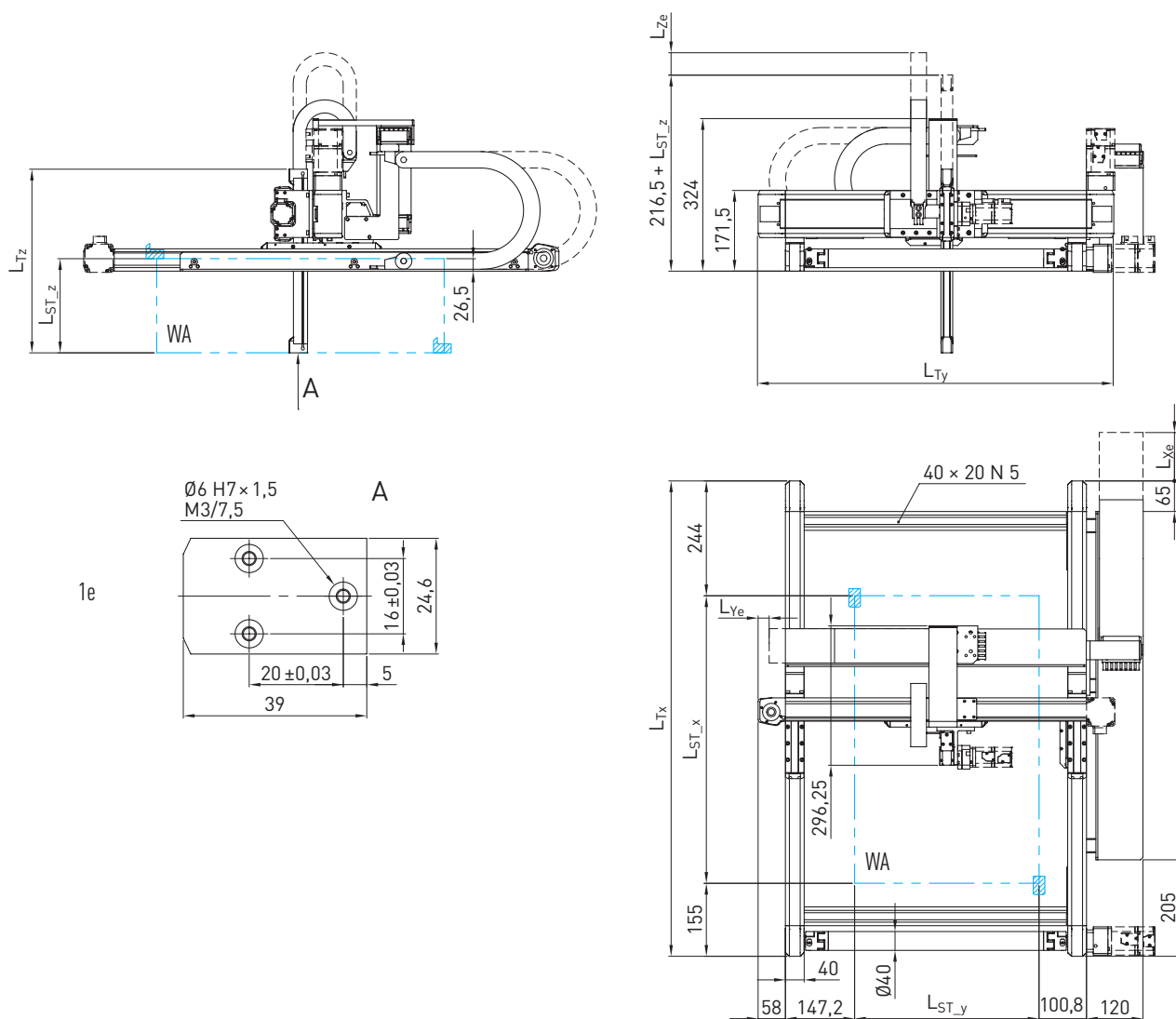
⁴⁾ You can find all flange types in Table 22.2 from page 166. If no flange type is selected, the "Gearbox, axis 2" position is omitted.

⁵⁾ You can find all flange types in Table 22.4 from page 177. If no flange type is selected, the order code ends after this digit.

Linear axes and axis systems HX

Two-axis systems HS3

17.3 Dimensions and specifications of HS31-D-T-C



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 17.1 HS31-D-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 399$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 364$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 190$

Table 17.2 Energy chain

	X-axis	Y-axis	Z-axis
Inner cross section $W \times H$ [mm]	77×25	57×25	20×21
Bending radius [mm]	100	75	48
End position at electrical zero F [mm]	$L_{Xe} = 190.5$	$L_{Ye} = 23.5$	$L_{Ze} = 151.0 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{Xe} = 195.5$	$L_{Ye} = 11.0$	$L_{Ze} = 147.5 - L_{ST}/2$

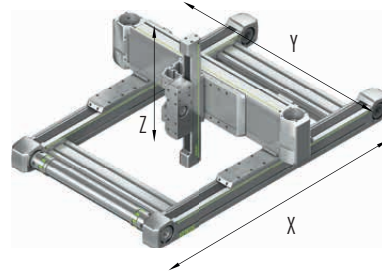


Table 17.3 General technical data

	X-axis	Y-axis	Z-axis
Axis type	HD1N	HT100B-C	HC025B
Type of carriage	L	S	
Max. feed force F_{x_max} [N]	450	813	241
Max. speed¹⁾ [m/s]	5		
Max. acceleration¹⁾ [m/s²]	30		
Max. drive torque M_{A_max} [Nm]	8	14	3
Max. stroke [mm]	3,000	1,300	300
Typical load capacity [kg]	2		

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD1 can be found in section 15.3 on page 106

Dimensions and specifications of single axis HT100B can be found in section 7.3 on page 46

Dimensions and specifications of single axis HC025B can be found in section 13.3 on page 88

Table 17.4 Drive

	X-axis	Y-axis	Z-axis
Toothed belt drive element	B15HTD3	B25HTD5	B12HTD3
Feed constant [mm/U]	111	105	81
Toothed belt effective diameter [mm]	35.33	33.42	25.78

Table 17.5 Mechanical properties

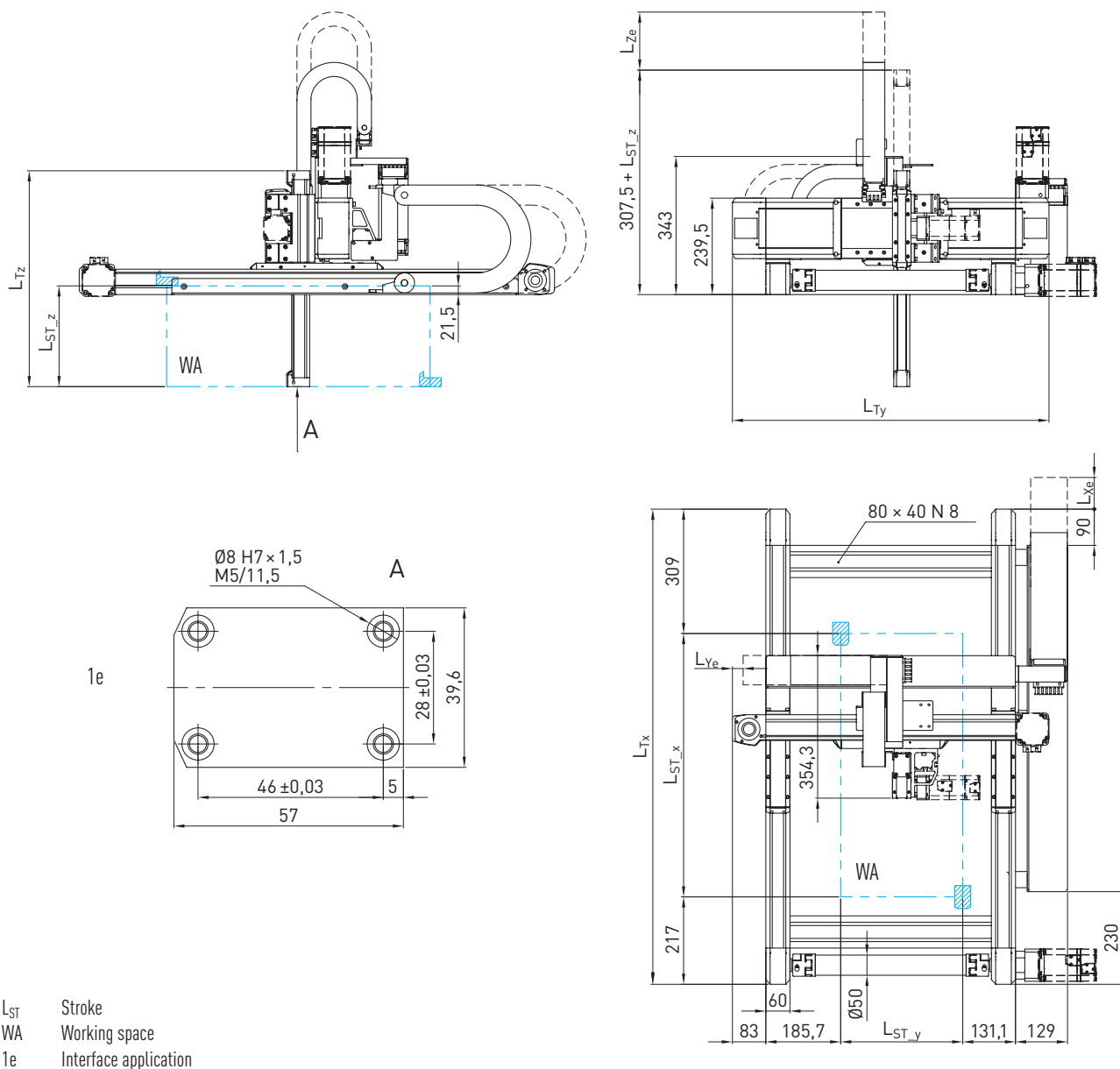
Moving mass Z-axis at 0-stroke [kg]	0.30
Moving mass Z-axis per 1 m stroke [kg/m]	1.27
Moving mass Y-axis at 0-stroke Z-axis [kg]	2.35
Moving mass X-axis at 0-stroke Y- and Z-axis [kg]	6.98
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	6.71
Mass of total system at 0-stroke X-, Y- and Z-axis [kg]	11.24
Mass of total system per 1 m stroke X-axis [kg/m]	6.04
Mass of total system per 1 m stroke Y-axis [kg/m]	9.10
Mass of total system per 1 m stroke Z-axis [kg/m]	1.27

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS3

17.4 Dimensions and specifications of HS32-D-T-C



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 17.6 HS32-D-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 526$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 483$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 286$

Table 17.7 Energy chain

	X-axis	Y-axis	Z-axis
Inner cross section $W \times H$ [mm]	75 × 35	57 × 25	38 × 25
Bending radius [mm]	100	75	75
End position at electrical zero F [mm]	$L_{Xe} = 199.0$	$L_{Ye} = 26.5$	$L_{Ze} = 274.0 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{Xe} = 206.5$	$L_{Ye} = 16.5$	$L_{Ze} = 269.0 - L_{ST}/2$

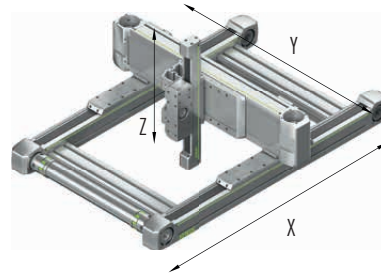


Table 17.8 General technical data

	X-axis	Y-axis	Z-axis
Axis type	HD2N	HT150B-C	HC040B
Type of carriage	L	S	
Max. feed force F_{x_max} [N]	1,323	1,300	404
Max. speed¹⁾ [m/s]	5		
Max. acceleration¹⁾ [m/s²]	30		
Max. drive torque M_{A_max} [Nm]	33	32	8
Max. stroke [mm]	5,000	1,650	500
Typical load capacity [kg]	8		

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD2 can be found in section 15.4 on page 107

Dimensions and specifications of single axis HT150B can be found in section 7.4 on page 48

Dimensions and specifications of single axes HC040B can be found in section 13.4 on page 90

Table 17.9 Drive

	X-axis	Y-axis	Z-axis
Toothed belt drive element	B25HTD5	B40HTD5	B20HDT3
Feed constant [mm/U]	155		123
Toothed belt effective diameter [mm]	49.34		39.15

Table 17.10 Mechanical properties

Moving mass Z-axis at 0-stroke [kg]	0.92
Moving mass Z-axis per 1 m stroke [kg/m]	2.76
Moving mass Y-axis at 0-stroke Z-axis [kg]	6.59
Moving mass X-axis at 0-stroke Y- and Z-axis [kg]	17.00
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	11.16
Mass of total system at 0-stroke X-, Y- and Z-axis [kg]	28.21
Mass of total system per 1 m stroke X-axis [kg/m]	10.93
Mass of total system per 1 m stroke Y-axis [kg/m]	21.48
Mass of total system per 1 m stroke Z-axis [kg/m]	2.76

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS3

17.5 Dimensions and specifications of HS33-D-T-C

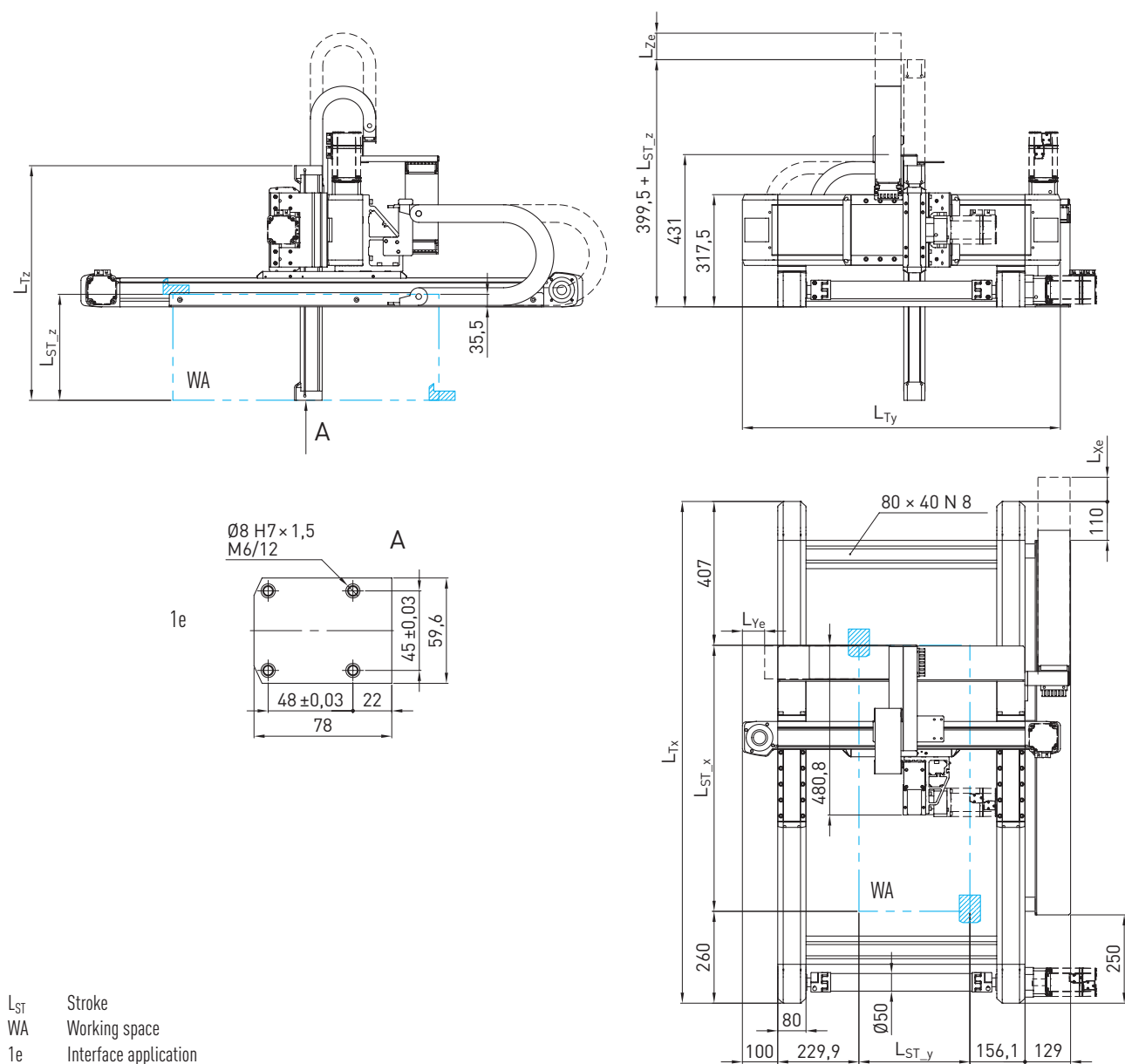
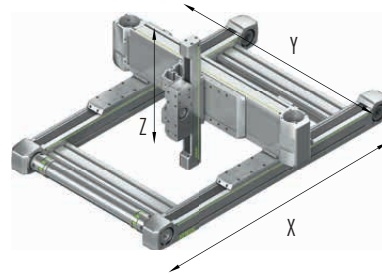


Table 17.11 HS33-D-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 667$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{ST_y} + 586$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 364$

Table 17.12 Energy chain

	X-axis	Y-axis	Z-axis
Inner cross section $W \times H$ [mm]	75×35	77×25	57×25
Bending radius [mm]	100	100	75
End position at electrical zero F [mm]	$L_{Xe} = 159.5$	$L_{Ye} = 63.0$	$L_{Ze} = 282.5 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{Xe} = 169.5$	$L_{Ye} = 48.0$	$L_{Ze} = 275.0 - L_{ST}/2$


Table 17.13 General technical data

	X-axis	Y-axis	Z-axis
Axis type	HD3N	HT200B-C	HC060B
Type of carriage	L	S	
Max. feed force F_{x_max} [N]	1,852	3,000	983
Max. speed¹⁾ [m/s]	5		
Max. acceleration¹⁾ [m/s²]	30		
Max. drive torque M_{A_max} [Nm]	56	88	27
Max. stroke [mm]	5,000	1,550	800
Typical load capacity [kg]	16		

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD3 can be found in section 15.5 on page 108

Dimensions and specifications of single axis HT200B can be found in section 7.5 on page 50

Dimensions and specifications of single axes HC060B can be found in section 13.5 on page 92

Table 17.14 Drive

	X-axis	Y-axis	Z-axis
Toothed belt drive element	B35HTD5	B50HTD8	B30HTD5
Feed constant [mm/U]	190	184	170
Toothed belt effective diameter [mm]	60.48	58.57	54.11

Table 17.15 Mechanical properties

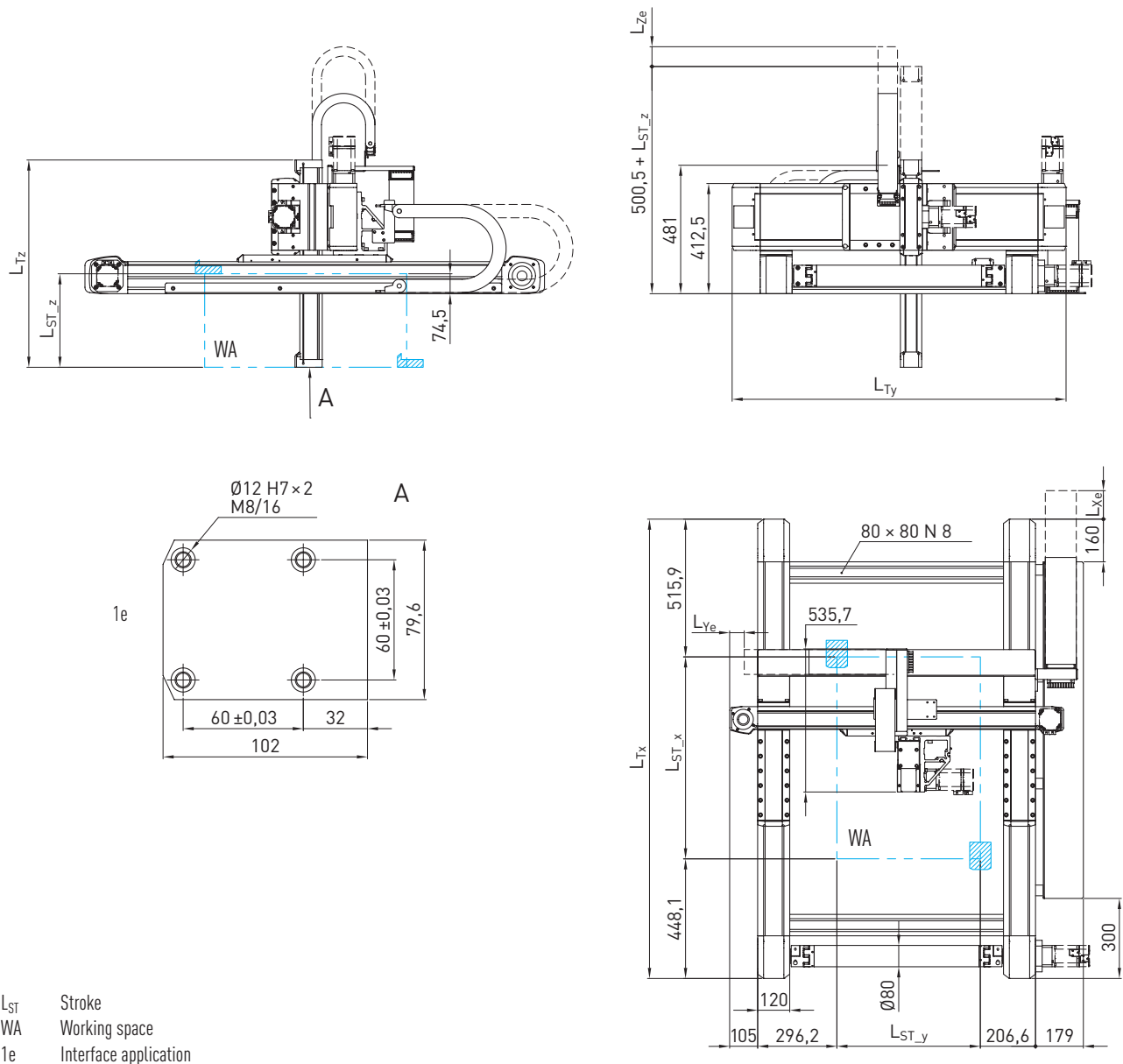
Moving mass Z-axis at 0-stroke [kg]	2.24
Moving mass Z-axis per 1 m stroke [kg/m]	5.17
Moving mass Y-axis at 0-stroke Z-axis [kg]	12.84
Moving mass X-axis at 0-stroke Y- and Z-axis [kg]	34.20
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	17.57
Mass of total system at 0-stroke X-, Y- and Z-axis [kg]	55.52
Mass of total system per 1 m stroke X-axis [kg/m]	19.73
Mass of total system per 1 m stroke Y-axis [kg/m]	28.01
Mass of total system per 1 m stroke Z-axis [kg/m]	5.17

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Two-axis systems HS3

17.6 Dimensions and specifications of HS34-D-T-C



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 17.16 HS34-D-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{STx} + 964$
Total length Y-axis L_{Ty} [mm]	$L_{Ty} = L_{STy} + 713$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{STz} + 426$

Table 17.17 Energy chain

	X-axis	Y-axis	Z-axis
Inner cross section $W \times H$ [mm]	100 × 35	77 × 25	57 × 25
Bending radius [mm]	125	100	100
End position at electrical zero F [mm]	$L_{Xe} = 116.5$	$L_{Ye} = 111.5$	$L_{Ze} = 259.0 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{Xe} = 136.5$	$L_{Ye} = 91.5$	$L_{Ze} = 249.0 - L_{ST}/2$

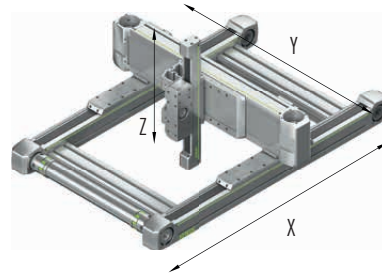


Table 17.18 General technical data

	X-axis	Y-axis	Z-axis
Axis type	HD4N	HT250B-C	HC080B
Type of carriage	L	S	
Max. feed force F_{x_max} [N]	4,385	4,500	1,310
Max. speed ¹⁾ [m/s]	5		
Max. acceleration ¹⁾ [m/s ²]	30		
Max. drive torque M_{A_max} [Nm]	201	149	42
Max. stroke [mm]	5,000	1,400	1,200
Typical load capacity [kg]	30		

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of double axis HD4 can be found in section 15.6 on page 109

Dimensions and specifications of single axis HT250B can be found in section 7.6 on page 52

Dimensions and specifications of single axes HC080B can be found in section 13.6 on page 94

Table 17.19 Drive

	X-axis	Y-axis	Z-axis
Toothed belt drive element	B60HTD8	B75HTD8	B40HTD5
Feed constant [mm/U]	288	208	200
Toothed belt effective diameter [mm]	91.67	66.21	63.66

Table 17.20 Mechanical properties

Moving mass Z-axis at 0-stroke [kg]	4.51
Moving mass Z-axis per 1 m stroke [kg/m]	8.99
Moving mass Y-axis at 0-stroke Z-axis [kg]	25.77
Moving mass X-axis at 0-stroke Y- and Z-axis [kg]	69.28
Moving mass X-axis per 1 m stroke Y-axis [kg/m]	22.87
Mass of total system at 0-stroke X-, Y- and Z-axis [kg]	129.63
Mass of total system per 1 m stroke X-axis [kg/m]	41.54
Mass of total system per 1 m stroke Y-axis [kg/m]	39.62
Mass of total system per 1 m stroke Z-axis [kg/m]	8.99

Note: All values without energy chain and without drive

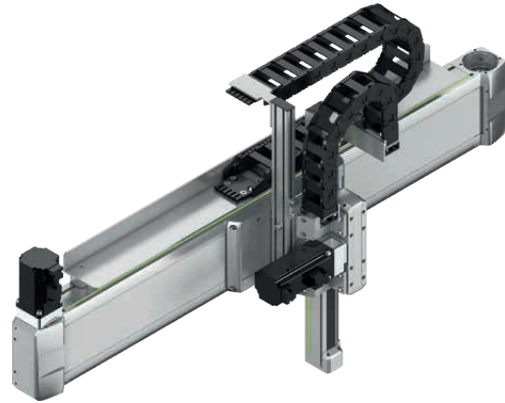
Linear axes and axis systems HX

Linear gantries HSL

18. Linear gantries HSL

18.1 Properties of the linear gantries HSL

HIWIN linear gantries HSL are flexible units for positioning along the X- and Z-axis. They consist of a HIWIN belt axis HT-B in the X direction and a HIWIN cantilever axis HC-B in the Z direction. HIWIN HSL linear gantries are particularly well suited for two-dimensional movements.

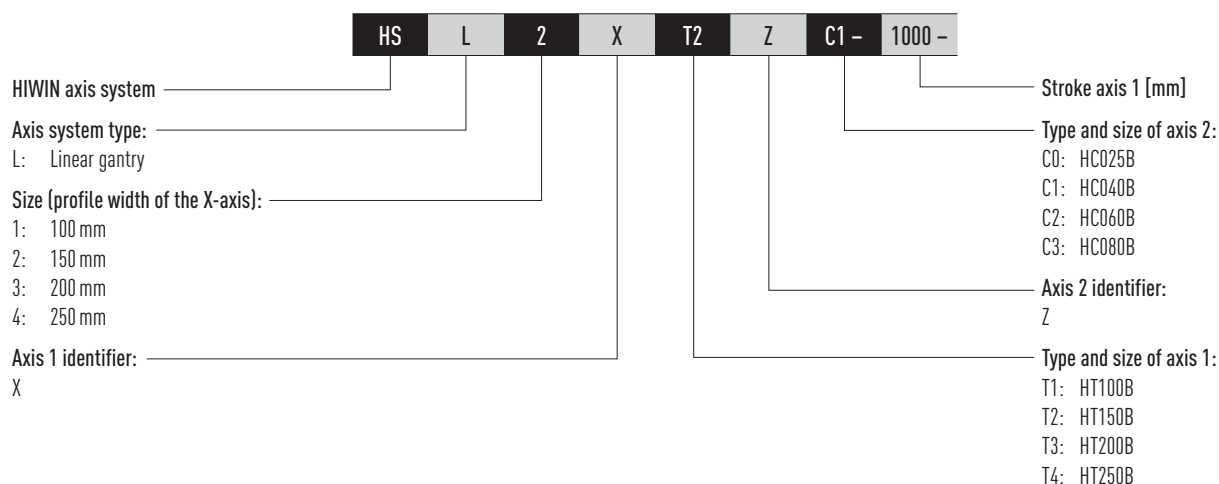


Energy chain

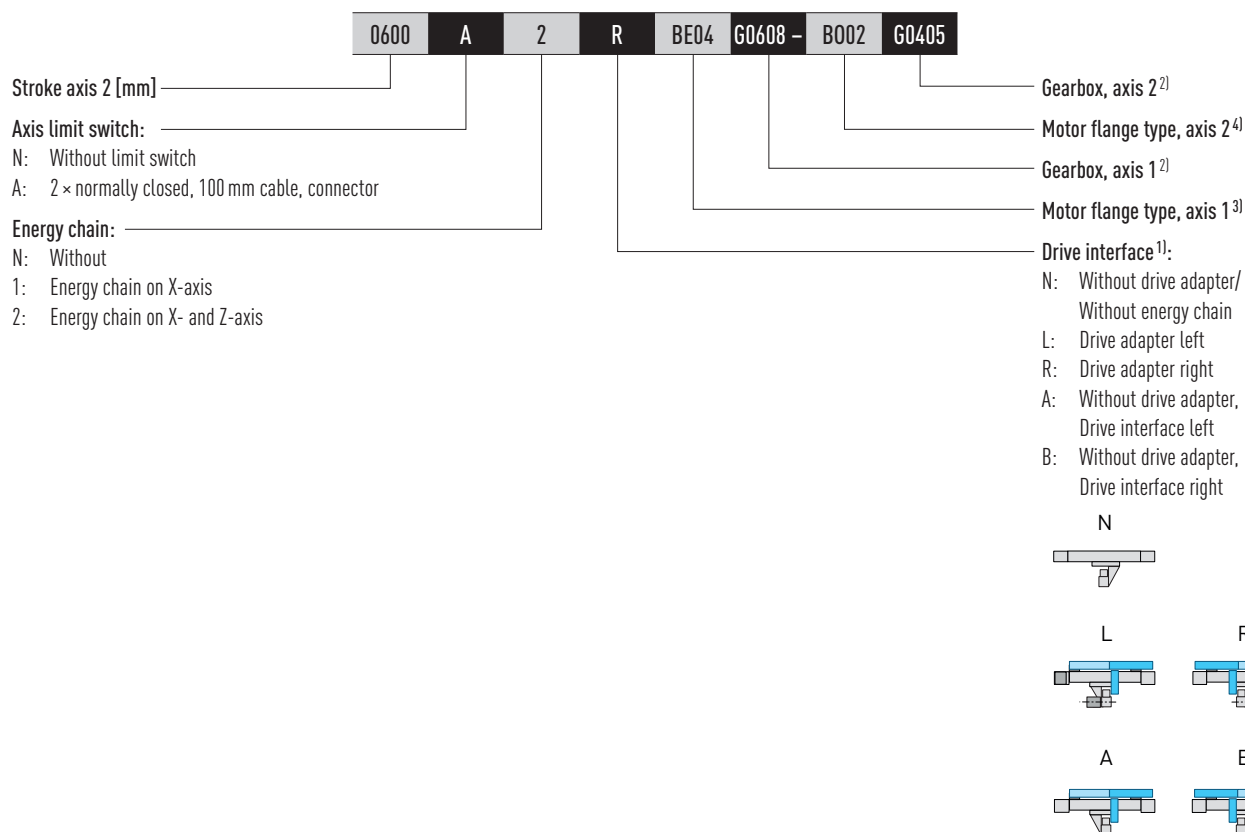
Generously dimensioned energy chains provide space for safely carrying the supply lines. The energy chains are integrated into the complete system in a particularly compact and space-saving way.



18.2 Order code for linear gantries HSL



Continuation, order code for linear gantries HSL



¹⁾ If no drive interface is selected, the order code ends after this digit.

²⁾ You can find matching gearboxes in section 22.1.5.5 from page 195.

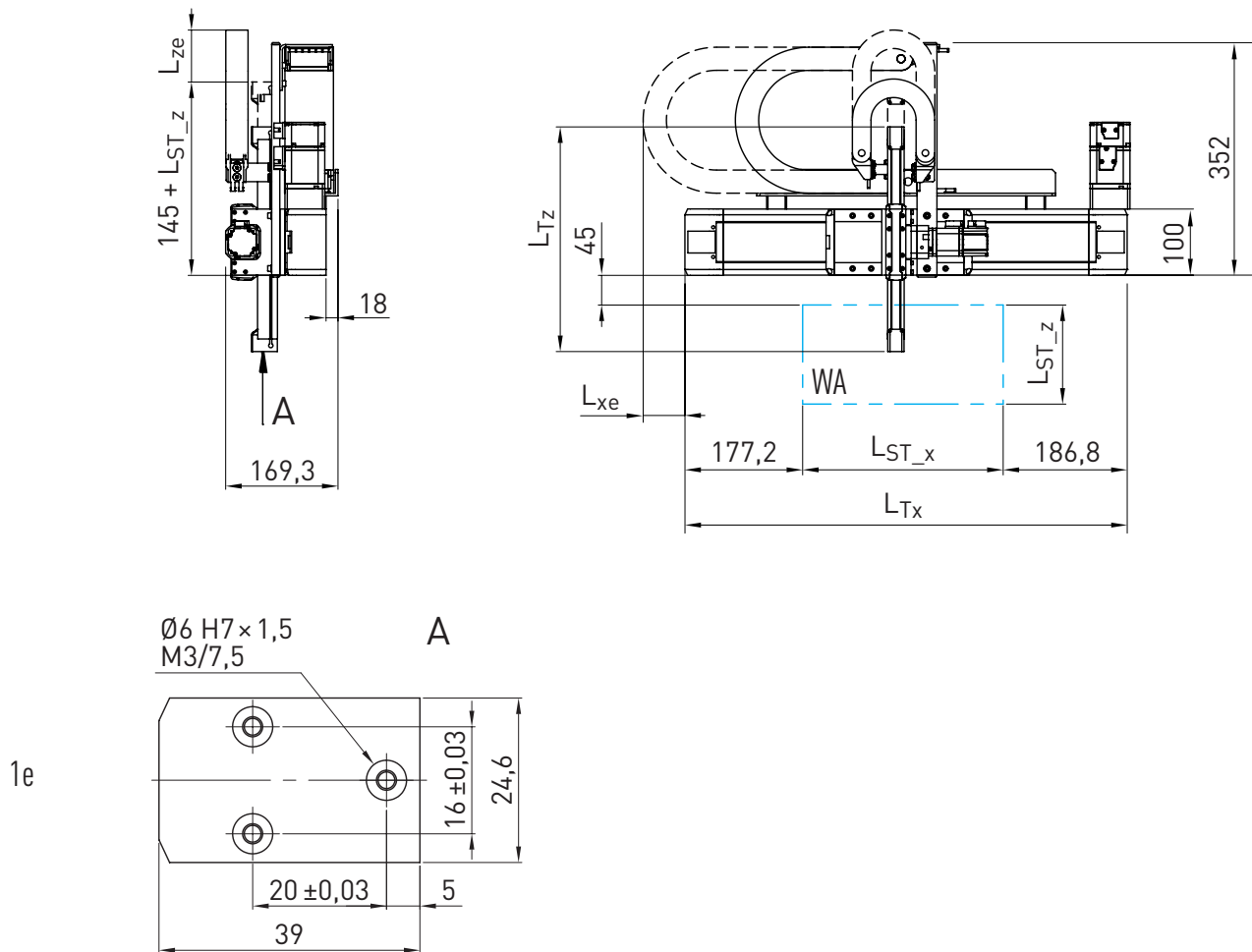
³⁾ You can find all flange types in Table 22.2 from page 166. If no flange type is selected, the "Gearbox, axis 1" position is omitted.

⁴⁾ You can find all flange types in Table 22.4 from page 177. If no flange type is selected, the order code ends after this digit.

Linear axes and axis systems HX

Linear gantries HSL

18.3 Dimensions and specifications of HSL1-T-C



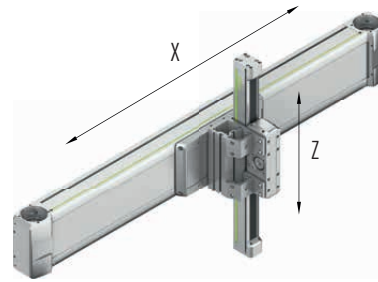
L_{ST} Stroke
WA Working space
1e Interface application

Table 18.1 HSL1-T-C dimensions

Total length X-axis L _{Tx} [mm]	$L_{Tx} = L_{ST_x} + 364$
Total length Z-axis L _{Tz} [mm]	$L_{Tz} = L_{ST_z} + 190$

Table 18.2 Energy chain

	X-axis	Z-axis
Inner cross section W × H [mm]	57 × 25	20 × 21
Bending radius [mm]	75	48
End position at electrical zero F [mm]	L _{xe} = 7.5	L _{ze} = 151.0 - L _{ST} /2
End position at mechanical zero [mm]	L _{xe} = 15.0	L _{ze} = 147.5 - L _{ST} /2


Table 18.3 General technical data

	X-axis	Z-axis
Axis type	HT100B-C	HC025B
Max. feed force F_{x_max} [N]	813	241
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	14	3
Max. stroke [mm]	5,000	300
Typical load capacity [kg]	2	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of single axes HT100B can be found in section 7.3 on page 46

Dimensions and specifications of single axis HC025B can be found in section 13.3 on page 88

Table 18.4 Drive

	X-axis	Z-axis
Toothed belt drive element	B25HTD5	B12HTD3
Feed constant [mm/U]	105	81
Toothed belt effective diameter [mm]	33.42	25.78

Table 18.5 Mechanical properties

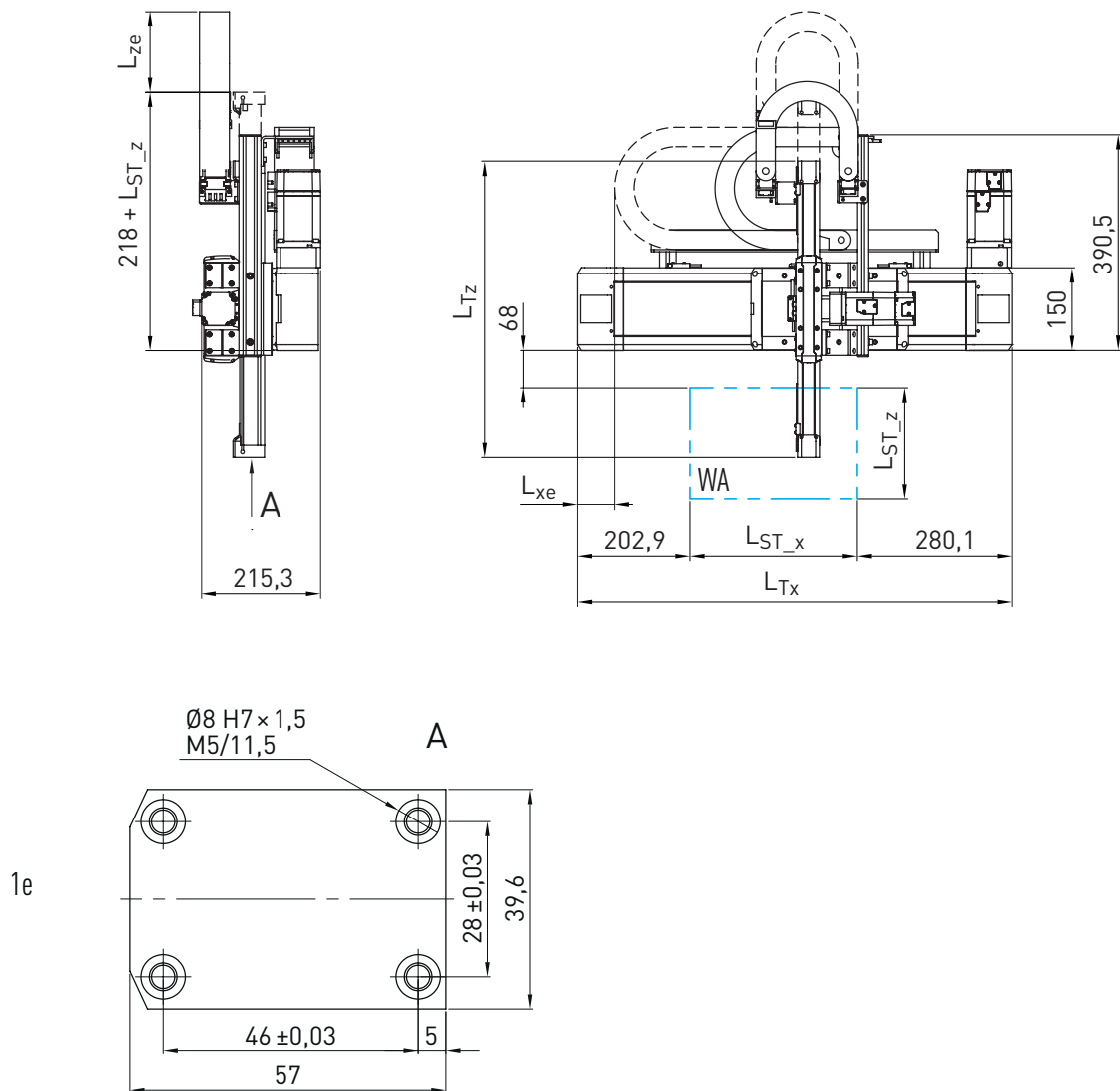
Moving mass Z-axis at 0-stroke [kg]	0.30
Moving mass Z-axis per 1 m stroke [kg/m]	1.27
Moving mass X-axis at 0-stroke Z-axis [kg]	5.47
Moving mass X-axis per 1 m stroke Z-axis [kg/m]	1.27
Mass of total system at 0-stroke X- and Z-axis [kg]	5.49
Mass of total system per 1 m stroke X-axis [kg/m]	16.51
Mass of total system per 1 m stroke Z-axis [kg/m]	1.27

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Linear gantries HSL

18.4 Dimensions and specifications of HSL2-T-C



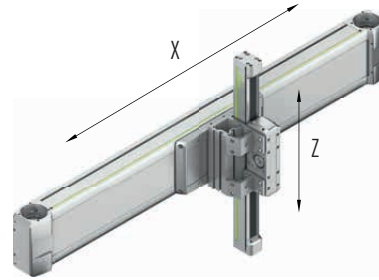
L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 18.6 HSL2-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 483$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 286$

Table 18.7 Energy chain

	X-axis	Z-axis
Inner cross section $W \times H$ [mm]	57×25	38×25
Bending radius [mm]	75	75
End position at electrical zero F [mm]	$L_{xe} = -68.0$	$L_{ze} = 274.0 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{xe} = -60.5$	$L_{ze} = 169.0 - L_{ST}/2$


Table 18.8 General technical data

	X-axis	Z-axis
Axis type	HT150B-C	HC040B
Max. feed force F_{x_max} [N]	1,300	404
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	32	8
Max. stroke [mm]	5,000	500
Typical load capacity [kg]	8	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of single axes HT150B can be found in section 7.4 on page 48

Dimensions and specifications of single axis HC040B can be found in section 13.4 on page 90

Table 18.9 Drive

	X-axis	Z-axis
Toothed belt drive element	B40HTD5	B20HDT3
Feed constant [mm/U]	155	123
Toothed belt effective diameter [mm]	49.34	39.15

Table 18.10 Mechanical properties

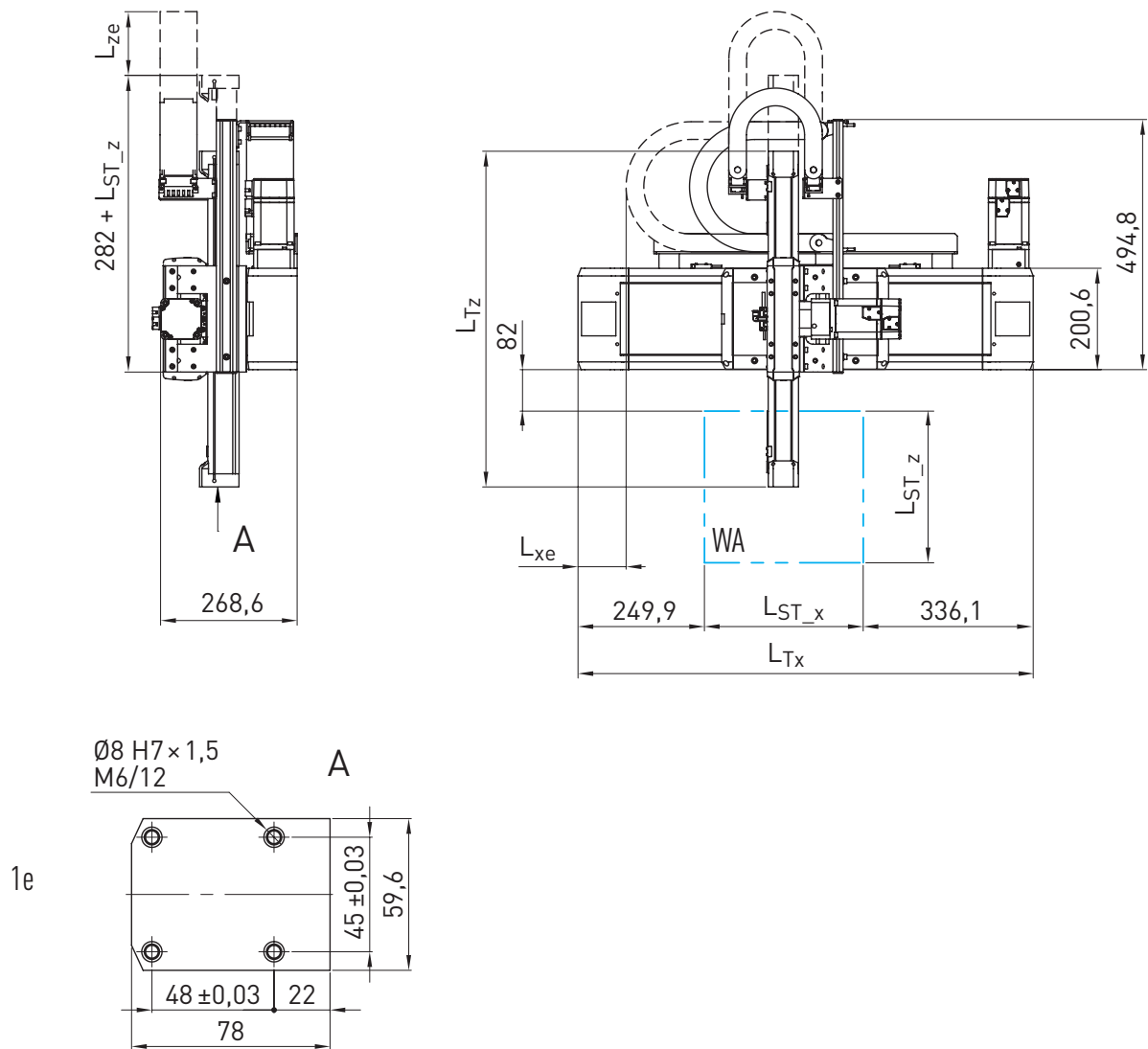
Moving mass Z-axis at 0-stroke [kg]	0.92
Moving mass Z-axis per 1 m stroke [kg/m]	2.76
Moving mass X-axis at 0-stroke Z-axis [kg]	10.73
Moving mass X-axis per 1 m stroke Z-axis [kg/m]	2.76
Mass of total system at 0-stroke X- and Z-axis [kg]	13.54
Mass of total system per 1 m stroke X-axis [kg/m]	20.83
Mass of total system per 1 m stroke Z-axis [kg/m]	2.76

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Linear gantries HSL

18.5 Dimensions and specifications of HSL3-T-C



L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 18.11 HSL3-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 586$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 364$

Table 18.12 Energy chain

	X-axis	Z-axis
Inner cross section $W \times H$ [mm]	77×25	57×25
Bending radius [mm]	100	75
End position at electrical zero F [mm]	$L_{Xe} = -134.0$	$L_{Ze} = 282.5 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{Xe} = -126.5$	$L_{Ze} = 275.0 - L_{ST}/2$

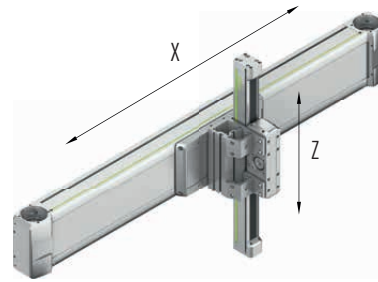


Table 18.13 General technical data

	X-axis	Z-axis
Axis type	HT200B-C	HC060B
Max. feed force F_{x_max} [N]	3,000	983
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	88	27
Max. stroke [mm]	5,000	800
Typical load capacity [kg]	16	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of single axes HT200B can be found in section 7.5 on page 50

Dimensions and specifications of single axis HC060B can be found in section 13.5 on page 92

Table 18.14 Drive

	X-axis	Z-axis
Toothed belt drive element	B50HTD8	B30HTD5
Feed constant [mm/U]	184	170
Toothed belt effective diameter [mm]	58.57	54.11

Table 18.15 Mechanical properties

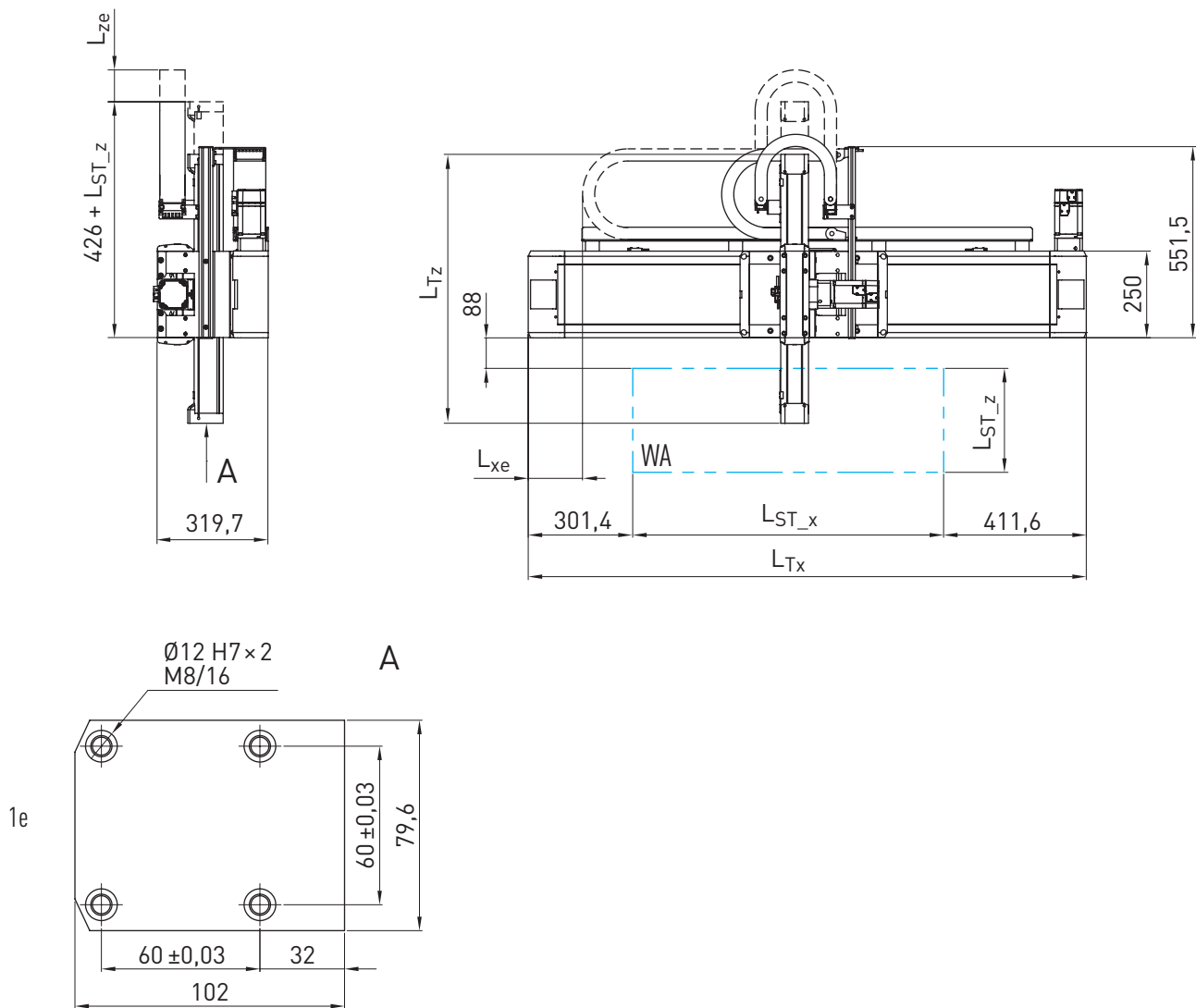
Moving mass Z-axis at 0-stroke [kg]	2.24
Moving mass Z-axis per 1 m stroke [kg/m]	5.17
Moving mass X-axis at 0-stroke Z-axis [kg]	20.90
Moving mass X-axis per 1 m stroke Z-axis [kg/m]	5.17
Mass of total system at 0-stroke X- and Z-axis [kg]	26.96
Mass of total system per 1 m stroke X-axis [kg/m]	32.94
Mass of total system per 1 m stroke Z-axis [kg/m]	5.17

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Linear gantries HSL

18.6 Dimensions and specifications of HSL4-T-C



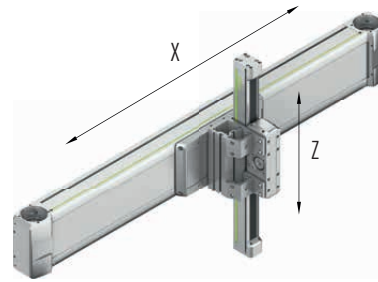
L_{ST} Stroke
 WA Working space
 $1e$ Interface application

Table 18.16 HSL4-T-C dimensions

Total length X-axis L_{Tx} [mm]	$L_{Tx} = L_{ST_x} + 713$
Total length Z-axis L_{Tz} [mm]	$L_{Tz} = L_{ST_z} + 426$

Table 18.17 Energy chain

	X-axis	Z-axis
Inner cross section $W \times H$ [mm]	77×25	57×25
Bending radius [mm]	100	100
End position at electrical zero F [mm]	$L_{xe} = -197.5$	$L_{ze} = 259.0 - L_{ST}/2$
End position at mechanical zero [mm]	$L_{xe} = -190.0$	$L_{ze} = 249.0 - L_{ST}/2$


Table 18.18 General technical data

	X-axis	Z-axis
Axis type	HT250B-C	HC080B
Max. feed force F_{x_max} [N]	4,500	1,310
Max. speed ¹⁾ [m/s]	5	
Max. acceleration ¹⁾ [m/s²]	30	
Max. drive torque M_{A_max} [Nm]	149	42
Max. stroke [mm]	5,000	1200
Typical load capacity [kg]	30	

¹⁾ Restrictions possible with variant with energy chain depending on the stroke

Note: Dimensions and specifications of single axes HT250B can be found in section 7.6 on page 52

Dimensions and specifications of single axis HC080B can be found in section 13.6 on page 94

Table 18.19 Drive

	X-axis	Z-axis
Toothed belt drive element	B75HTD8	B40HTD5
Feed constant [mm/U]	208	200
Toothed belt effective diameter [mm]	66.21	63.66

Table 18.20 Mechanical properties

Moving mass Z-axis at 0-stroke [kg]	4.51
Moving mass Z-axis per 1 m stroke [kg/m]	8.99
Moving mass X-axis at 0-stroke Z-axis [kg]	35.40
Moving mass X-axis per 1 m stroke Z-axis [kg/m]	8.99
Mass of total system at 0-stroke X- and Z-axis [kg]	49.19
Mass of total system per 1 m stroke X-axis [kg/m]	37.92
Mass of total system per 1 m stroke Z-axis [kg/m]	8.99

Note: All values without energy chain and without drive

Linear axes and axis systems HX

Adapters for cross tables and multi-axis systems

19. Adapters for cross tables and multi-axis systems

HIWIN adapters for cross tables and multi-axis systems allow two and more axes to be flexibly combined. This allows individual multi-axis systems to be designed quickly and easily. Forces and torques are safely transmitted through force and form closure. Centring sleeves allow for precise and reproducible connection. All adapters are supplied ready for installation including mounting material.

Depending on the desired alignment of the axes to be connected, four basic adapter types are available:

CPN: Adapter for connecting the axis profile of the upper axis to the carriage of the

lower axis. Both carriages point in the same direction.

CPR: Adapter for connecting the axis profile of the upper axis with the carriage of the lower axis, with the two carriage rotated 90° in relation to each other.

CCN: Adapter for connecting the carriage of the upper axis to the carriage of the lower axis.

CCR: Adapter for connecting the drive block of the upper axis to the carriage of the lower axis, with the carriage and the drive block rotated 90° in relation to each other.

19.1 Product selection

19.1.1 Axis combinations depending on the size

Table 19.1 Overview of possible combinations as a function of the size

			Y-axis																	
			HM				HT				HC				KK					
			040	060	080	120	100	150	200	250	25	40	60	80	30	40	50	60	86	100
X-axis	HM	040	● ¹⁾ ■ ¹⁾				● ¹⁾ ■ ¹⁾								●▲	●▲				
		060	● ¹⁾	● ¹⁾ ■ ¹⁾			● ¹⁾	● ¹⁾ ■ ¹⁾								●▲	●▲			
		080		● ¹⁾	● ¹⁾ ■ ¹⁾			● ¹⁾	● ¹⁾ ■ ¹⁾								●▲	●▲		
		120			● ¹⁾	● ¹⁾			● ¹⁾	● ¹⁾ ■ ¹⁾										
	HT	100	●■▲				●■▲				★	▲					●▲	●▲		
		150	●■▲	●■▲			●■▲	●■▲				★▲	▲					●▲	●▲	
		200		●■▲	●■▲			●■▲	●■▲				★▲	▲					●▲	●▲
		250			●■▲	●■▲			●■▲	●■▲				★▲						

● CPN; ■ CPR; ▲ CCN; ★ CCR

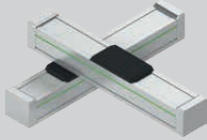
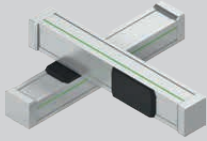
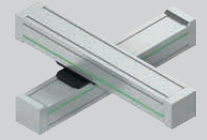
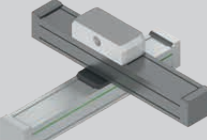
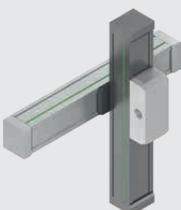
¹⁾ Two single axes HM or one double axis HD are required in the X-axis.

Note: Depending on the selected axis configuration, collisions of attachments or covering of mounting holes may occur. This must be checked in each individual case.

19.1.2 Cross table

Cross table combinations made up of two single axes.

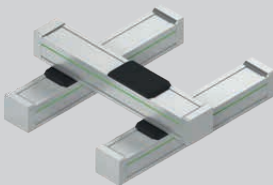
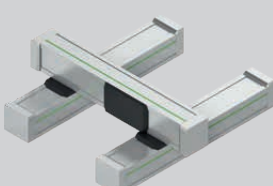
Table 19.2 Product selection diagram

Connection	X-Y	X-Z	Z-X	Page :
CPN adapter ● Carriage – profile				Page 149
CPR adapter ■ Carriage – profile (rotated 90°)				Page 151
CPN adapter ▲ Carriage – carriage				Page 153
CPN adapter ★ Carriage – drive block				Page 154

19.1.3 Two-axis system

Two-axis systems with two single axis or one double axis as the foundation.

Table 19.3 Product selection diagram

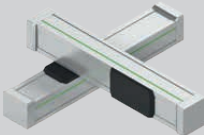
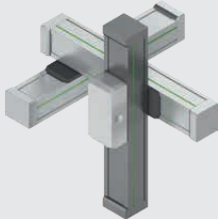
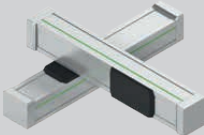
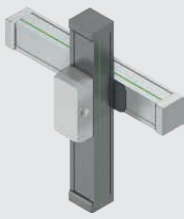
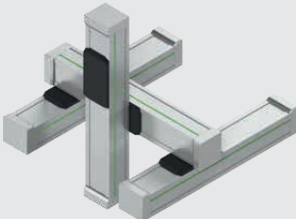
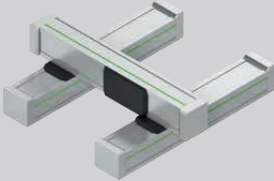
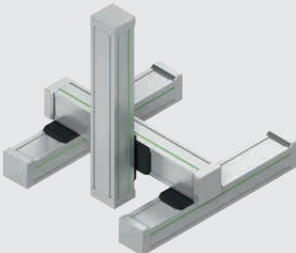
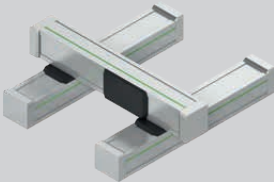
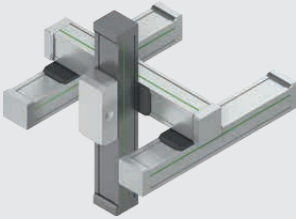
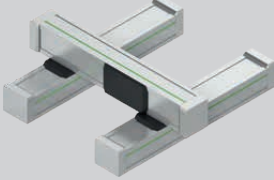
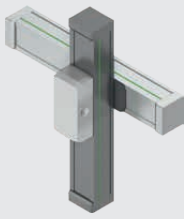
Connection	X-Y	X-Z	Z-X	Page :
CPN adapter ● Carriage – profile				Page 150
CPR adapter ■ Carriage – profile (rotated 90°)				Page 152

Linear axes and axis systems HX

Adapters for cross tables and multi-axis systems

19.1.4 Three- and multi-axis system

Three- and multi-axis systems can be created flexibly by combining several adapters from Table 19.2 and Table 19.3. Some examples follow.

Table 19.4 Example of multi-axis systems		
Complete system X-Y-Z	Adapter X-Y	Adapter Y-Z
	 Page 151	 Page 153
	 Page 151	 Page 154
	 Page 152	 Page 149
	 Page 152	 Page 153
	 Page 152	 Page 154

19.2 CPN adapters

19.2.1 CPN adapters for single axes

HIWIN adapters for combining two single axes (axis 1: HM/HT; axis 2: HM/HT/KK) via a carriage-profile connection.

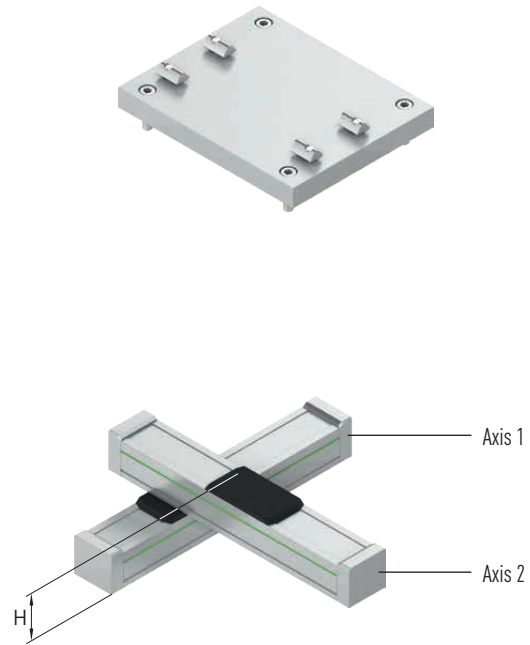
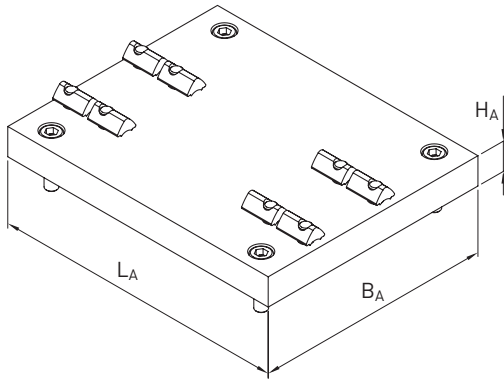


Table 19.5 Specifications for CPN adapters for single axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)						
HM	040	KK	30	59	79	12	95.0	0.159	25-001622
	040		40	70	79	12	102.0	0.187	25-001623
	060		40	76	114	12	120.0	0.291	25-001626
	060		50	92	114	12	128.5	0.366	25-001627
	080		50	98	107	12	150.5	0.376	25-001630
	080		60	114	104	15	159.5	0.513	25-001631
HT	100B/100S	HM	040	99	72	12	134.0	0.265	25-001608
	100L		040	99	72	12	142.0	0.265	25-001608
	150		040	79	149	12	156.0	0.417	25-001609
	150		060	149	120	15	177.0	0.792	25-001610
	200		060	199	102	15	193.0	0.907	25-001611
	200		080	199	142	15	215.0	1.287	25-001612
	250		080	249	126	20	230.0	1.858	25-001613
	250		120	249	180	20	275.0	2.558	25-001614
	100B/100S	HT	100B/100S	158	100	12	136.0	0.547	25-001615
	100B/100S		100L	158	100	12	144.0	0.547	25-001615
	100L		100B/100S	158	100	12	144.0	0.547	25-001615
	100L		100L	158	100	12	152.0	0.547	25-001615
	150		100	210	100	15	161.0	0.882	25-001616
	150		150	222	150	15	183.0	1.420	25-001617
	200		150	274	150	15	199.0	1.756	25-001618
	200		200	294	200	15	215.0	2.519	25-001619
	250		200	348	200	20	230.0	3.918	25-001620
	250		250	296	250	20	240.0	4.146	25-001621
	100B/100S	KK	50	100	99	12	112.5	0.326	25-001624
	100L		50	100	99	12	120.5	0.326	25-001624
	100		60	108	99	12	118.5	0.371	25-001625
	150		60	149	118	15	143.5	0.724	25-001628
	150		86	149	118	15	163.0	0.732	25-001629
	200		86	199	142	15	179.0	1.170	25-001632
	200		100	199	142	15	187.0	1.193	25-001633

Linear axes and axis systems HX

Adapters for cross tables and multi-axis systems

19.2.2 CPN adapters for double axes

HIWIN adapters for combining two single axes HM or a double axis HD with a single axis HM/HT via a carriage-profile connection.

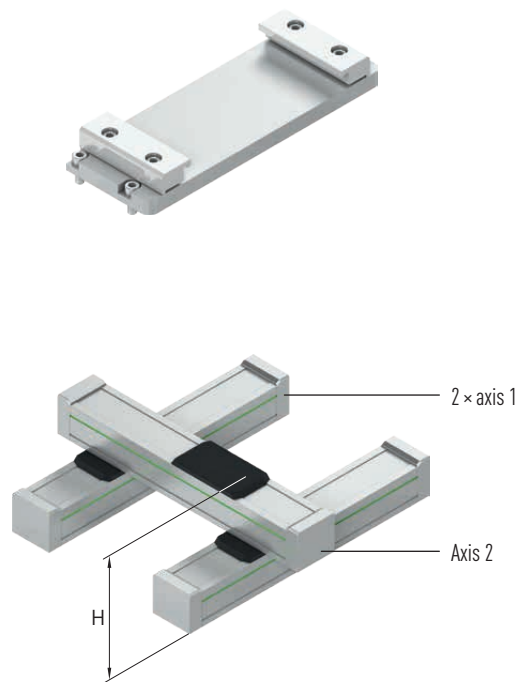
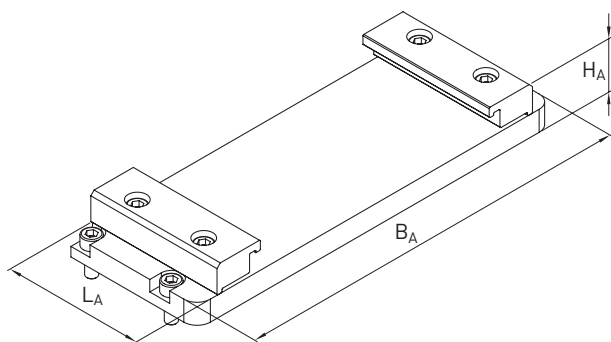


Table 19.6 Specifications for CPN adapters for double axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)						
HM (2 x) ¹⁾	040	HM	040	76	82	12	132	0.543	25-001594
	060		040	76	114	12	150	0.710	25-001595
	060		060	76	114	12	168	0.944	25-001596
	080		060	79	150	15	193	1.375	25-001597
	080		080	79	150	15	215	1.457	25-001598
	120		080	119	185	20	265	3.146	25-001599
	120		120	119	240	20	310	3.826	25-001600
	040 ²⁾	HT	100B/100S	76	151	12	134	0.876	25-001601
	040 ²⁾		100L	76	151	12	142	0.876	25-001601
	060 ³⁾		100B/100S	76	164	12	152	0.944	25-001602
	060 ³⁾		100L	76	164	12	160	0.944	25-001602
	060 ²⁾		150	76	214	12	174	1.324	25-001603
	080 ³⁾		150	79	244	12	196	1.568	25-001604
	080 ³⁾		200	110	287	15	215	3.188	25-001605
	120 ³⁾		200	119	296	20	265	4.498	25-001606
	120 ³⁾		250	119	351	20	275	5.180	25-001607

¹⁾ Alternative: Double axis HD

²⁾ HM axis with carriage length L required

³⁾ HM axis with carriage length M or L required

19.3 CPN adapters

19.3.1 CPR adapters for single axes (rotated 90°)

HIWIN adapters for combining two single axes (axis 1: HT; axis 2: HM/HT) via a carriage-profile connection (axis 2 rotated 90°).

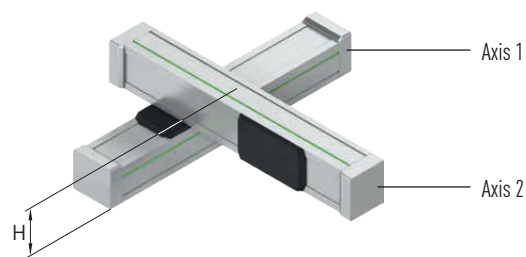
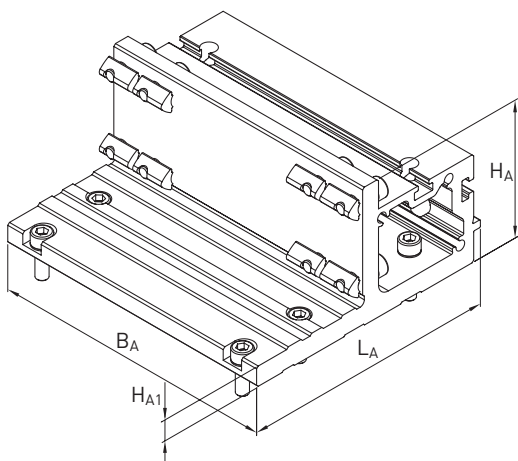


Table 19.7 Specifications for CPR adapters for single axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H _{A1} [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)							
HT	100B/100S	HM	040	122	99	56.0	11.5	118.0	0.684	25-001568
	100L		040	122	99	56.0	11.5	126.0	0.684	25-001568
	150		040	110	149	56.0	11.5	140.0	0.955	25-001569
	150		060	134	149	71.5	11.5	155.5	1.173	25-001570
	200		060	134	199	71.5	11.5	171.5	1.541	25-001571
	200		080	183	199	97.5	17.5	197.5	3.542	25-001572
	250		080	196	249	97.5	17.5	207.5	4.623	25-001573
	250		120	206	249	137.5	17.5	247.5	5.191	25-001574
	100B/100S	HT	100B/100S	122	99	111.5	11.5	173.5	0.956	25-001575
	100B/100S		100L	122	99	111.5	11.5	181.5	0.956	25-001575
	100L		100B/100S	122	99	111.5	11.5	181.5	0.956	25-001575
	100L		100L	122	99	111.5	11.5	189.5	0.956	25-001575
	150		100	111	149	111.5	11.5	195.5	1.366	25-001576
	150		150	134	149	161.5	11.5	245.5	1.836	25-001577
	200		150	190	199	167.5	17.5	267.5	4.131	25-001578
	200		200	190	199	217.5	17.5	317.5	5.428	25-001579
	250		200	196	249	217.5	17.5	327.5	6.881	25-001580
	250		250	206	249	236.0	17.5	377.5	7.190	25-001581

Linear axes and axis systems HX

Adapters for cross tables and multi-axis systems

19.3.2 CPR adapters for double axes (rotated 90°)

HIWIN adapters for combining two single axes HM or a double axis HD with a single axis HM/HT (axis 2 rotated 90°) via a carriage-profile connection.

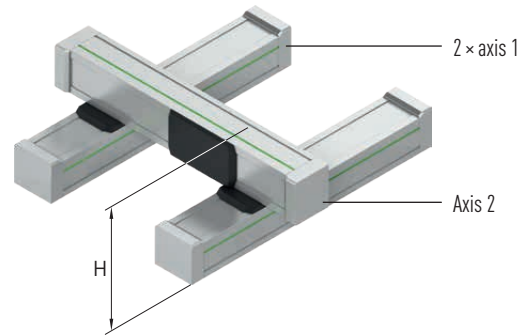
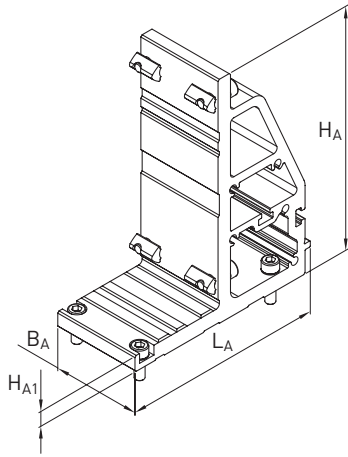


Table 19.8 Specifications for CPR adapters for double axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H _{A1} [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)							
HM (2 ×) ¹⁾	040	HM	040	112	39	56.0	11.5	116.0	0.544	25-001561
	060		060	134	59	71.5	11.5	149.5	0.971	25-001562
	080		080	197	79	97.5	17.5	197.5	3.096	25-001563
	040	HT	100	112	39	111.5	11.5	171.5	0.760	25-001564
	060		150	134	59	161.5	11.5	239.5	1.520	25-001565
	080		200	197	79	217.0	17.5	317.5	4.516	25-001566
	120		250	207	119	236.0	17.5	412.5	7.125	25-001567

¹⁾ Alternative: Double axis HD

19.4 CCN adapters

19.4.1 CCN adapters for single axes

HIWIN adapters for combining two single axes (axis 1: HM/HT; axis 2: HM, HT, KK) via a carriage-carriage connection.

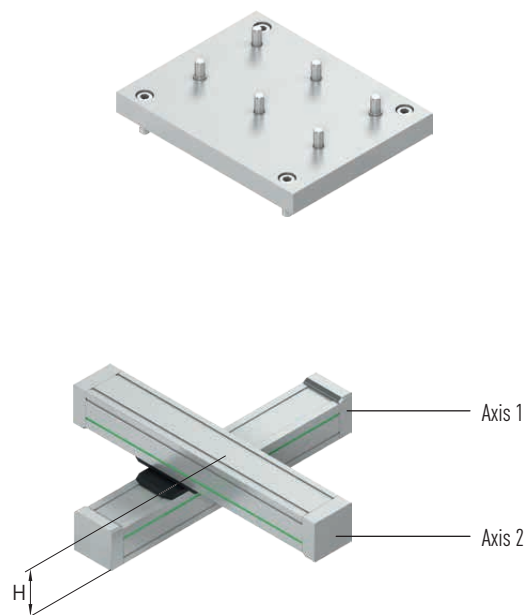
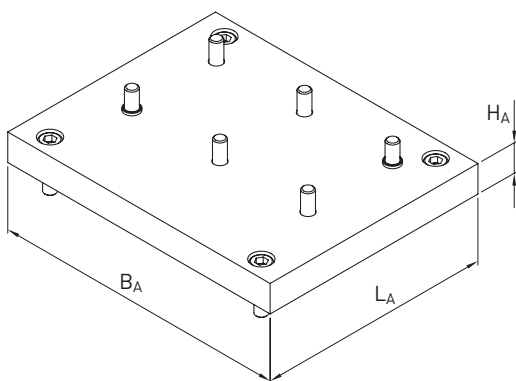


Table 19.9 Specifications for CCN adapters for single axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)						
HM	040	KK	30	39	79	12	87	0.105	25-001634
	040		40	39	79	12	92	0.110	25-001635
	060		40	59	112	15	113	0.256	25-001638
	060		50	59	112	15	119	0.287	25-001639
	080		50	79	112	15	141	0.345	25-001642
	080		60	79	112	15	148	0.372	25-001643
HT	100B/100S	HM	040	97	99	12	134	0.335	25-001582
	100L		040	97	99	12	142	0.335	25-001582
	150		040	79	149	12	156	0.409	25-001583
	150		060	118	149	15	177	0.783	25-001584
	200		060	102	199	15	193	0.876	25-001585
	200		080	142	199	15	215	1.246	25-001586
	250		080	249	180	20	230	2.547	25-001587
	250		120	249	180	20	275	2.605	25-001646
	100B/100S	HT	100B/100S	99	134	12	148	0.894	25-001588
	100B/100S		100L	99	134	12	156	0.894	25-001588
	100L		100B/100S	99	134	12	156	0.894	25-001588
	100L		100L	99	134	12	164	0.894	25-001588
	150		100	149	142	15	176	1.758	25-001589
	150		150	149	182	15	198	2.257	25-001590
	200		150	199	194	15	214	3.196	25-001591
	200		200	199	240	15	230	3.958	25-001592
	250		200	249	249	20	250	6.803	25-001593
	250		250	249	296	20	260	8.109	25-001647
	100B/100S	HC	040	97	99	12	134	0.335	25-001582
	100L		040	97	99	12	142	0.335	25-001582
	150		040	79	149	12	156	0.409	25-001583
	150		060	118	149	15	177	0.783	25-001584
	200		060	102	199	15	193	0.876	25-001585
	200		080	142	199	15	215	1.246	25-001586
	250		080	249	180	20	230	2.547	25-001587

¹⁾ KK axes with two blocks required

Linear axes and axis systems HX

Adapters for cross tables and multi-axis systems

Table 19.9 Specifications for CCN adapters for single axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)						
HT	100B/100S	KK ¹⁾	50	98	104	12	100	0.339	25-001636
	100L		50	98	104	12	108	0.339	25-001636
	100B/100S		60	98	113	12	107	0.369	25-001637
	100L		60	98	113	12	115	0.369	25-001637
	150		60	116	149	15	132	0.675	25-001640
	150		86	114	168	15	145	0.808	25-001641
	200		86	140	199	15	161	1.164	25-001644
	200		100	140	199	15	170	1.206	25-001645

¹⁾ KK axes with two blocks required

19.5 CCR adapters

19.5.1 CCR adapters for single axes

HIWIN adapters for combining linear tables HT with cantilever axes HC. The connection is made between the carriage of linear table HT and the drive block of cantilever axis HC.

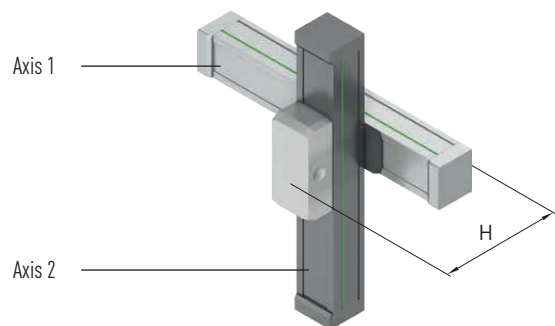
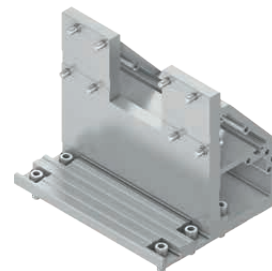
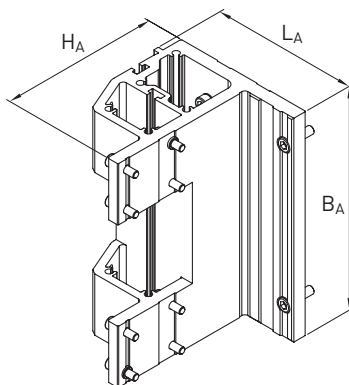


Table 19.10 Specifications for CCR adapters for single axes

Axis 1		Axis 2		L _A [mm]	B _A [mm]	H _A [mm]	H [mm]	Weight [kg]	Article number
Axis type	Size (profile width)	Axis type	Size (profile width)						
HT	100B/100S	HC	025	80	100	79.8	143.25	0.298	25-002359
	100L		025	80	100	79.8	151.25	0.298	25-002359
	150		040	112	168	120.8	207.3	1.333	25-002360
	200		060	131	210	161.3	264.8	2.161	25-002361
	250		080	198	249	209.7	319.7	5.780	25-002362
			100	207	312	235.7	365.7	7.705	80064588

20. Adapters for robot axes

With the HIWIN adapters for robot axes, a lightweight robot and a HIWIN linear axis HT can be combined. This makes it quick and easy to design a 7th axis system. The adapters are designed so that the robots can rotate freely in the lower axis even with axes with an energy chain attached. The HT linear axes with robot adapters are optimised for horizontal installation. Axes for vertical use on request.

All adapters are supplied ready for installation:

- Including mounting material for fastening the adapter on the carriage of the axis.
- Including mounting material for fastening the robot on the adapter

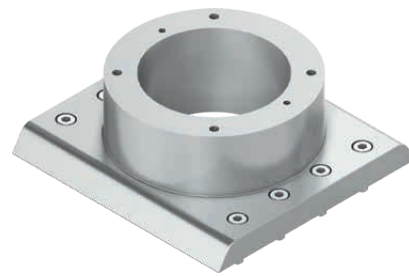
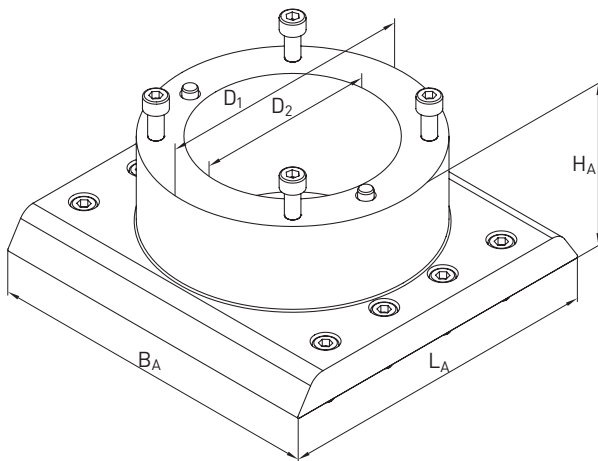


Table 20.1 Specifications for adapters for robot axes

Robot		Axis		L _A	W _A	H _A	Ø D ₁	Ø D ₂	Weight	Article number
Manufacturer	Size	Model	Size	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	Adapter set
Universal Robots	UR03	HTB, HTS	200	191	199	70	128	90	2.528	25-002658
	UR05			191	199	70	151	105	2.873	25-002657
	UR10 + UR16		250	231	249	60	190	95	5.100	25-002659
Techman	TM5-700 + TM5-900	HTB, HTS	200	190	199	90	177	120	4.242	25-002661
	TM12 + TM14		250	230	249	75	203	130	5.391	25-002664

Linear axes and axis systems HX

Distance measuring system

21. Distance measuring system

If the precision of the linear axis given by the drive element is not sufficient for an application, the positioning and repeat accuracy of spindle and belt axes can be increased by using a distance measuring system. On the linear axes HM-B, HM-S, HT-B, HT-S and HC-B, the distance measuring system is located externally, on the side of the carriage. See Fig. 21.1, Fig. 21.2 and Fig. 21.3. Linear motor axes HT-L are supplied with distance measuring system as standard.

The distance measuring system is integrated inside the axis to save space. Different measuring systems are available depending on the requirements for measuring principle, interface and resolution, see Table 21.1. For motionless commutation of linear motor axes HT-L, the HIWIN MAGIC distance measuring system can also be combined with the HIWIN digital hall sensor.

Table 21.1 Selection of distance measuring system

Order code	Description	Repeatability [mm]			Signal period [mm]	Resolution [μm]	Interface		Measuring principle	Max. stroke [mm]
		H_B	H_S	H_L						
A	MAGIC	± 0.02	± 0.01	± 0.005	1	1	Incremental	1 V _{SS} (analogue) ¹⁾	Magnetic	—
B ²⁾	MAGIC	—	—	± 0.005	1	1	Incremental	1 V _{SS} (analogue) ¹⁾	Magnetic	—
D	MAGIC	± 0.02	± 0.01	± 0.005	—	1	Incremental	TTL (digital) ¹⁾	Magnetic	—
E ²⁾	MAGIC	—	—	± 0.005	—	1	Incremental	TTL (digital) ¹⁾	Magnetic	—
H	LIC 211	—	—	± 0.005	—	0.1	Absolute, EnDat 2.2	EnDat 22	Optical	5,200 ³⁾
R ⁴⁾	BML-S160	—	—	± 0.005	2	1	Absolute, 32-bit	BiSS-C, 1 V _{SS}	Magnetic	—
S ⁴⁾	BML-S160	—	—	± 0.005	2	1	Absolute, 26-bit	SSI	Magnetic	—
T ⁶⁾	TTK70	—	—	± 0.005	1	31.25	Absolute, 17-bit	HIPERFACE	Magnetic	3,600 ⁵⁾

Other distance measuring systems on request

¹⁾ Compatible with all common servo drives and the HIWIN servo drive ED1. For more information on HIWIN servo drives, see the "Servo drives and servo motors" catalogue or visit www.hiwin.de.

²⁾ With digital hall sensor for motionless commutation.

³⁾ Depending on the size and option, up to 5,469 mm possible on request

⁴⁾ The distance measuring system has a safety-related, analogue, incremental real-time signal

⁵⁾ depending on the size and option up to max. 3,800 mm possible on request

⁶⁾ Is not available for HT100L

21.1 External distance measuring system HIWIN MAGIC for linear axes HM-B, HM-S, HT-B, HT-S and HC

The HIWIN MAGIC distance measuring system is located on the side of the carriage in linear modules HM-B and HM-S, linear tables HT-B and HT-S and cantilever axes HC-B. The dimensions can be found in Fig. 21.1, Fig. 21.2, Fig. 21.3 and Table 21.2. On linear modules HM-B and HM-S and on linear tables HT-B and HT-S, the distance measuring system is located on the opposite side of the drive adaptation or the limit switches. On linear axes without adaptation material and limit switches, the distance measuring system is located on the left-hand side by default. On cantilever axes HC, the distance measuring system is always located on the left-hand side by default, just like the limit switches. Other types are available on request.

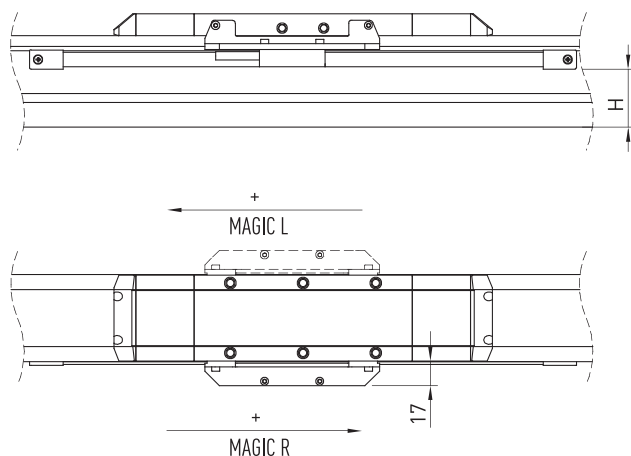


Fig. 21.1 MAGIC distance measuring system – linear axes HM-B and HM-S

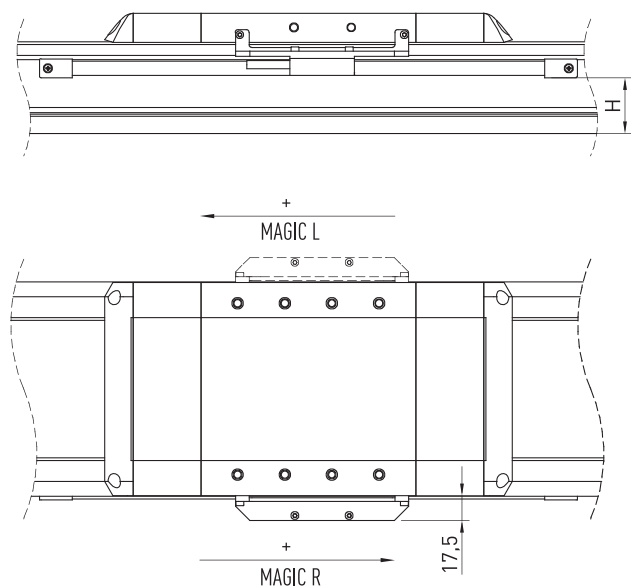


Fig. 21.2 MAGIC distance measuring system – linear axes HT-B and HT-S

Linear axes and axis systems HX

Distance measuring system

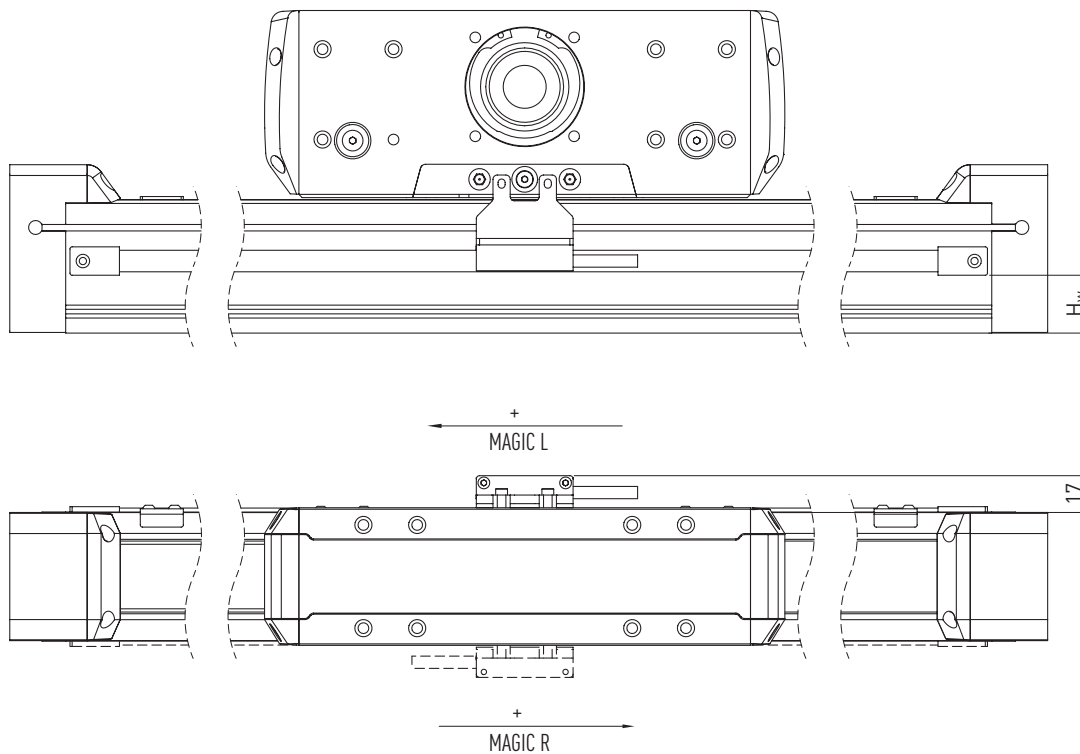


Fig. 21.3 MAGIC distance measuring system – cantilever axes HC

Table 21.2 Dimensions of MAGIC distance measuring system for linear axes HM, HT and HC					
Linear axis	Distance H_w [mm]	Linear axis	Distance H_w [mm]	Linear axis	Distance H_w [mm]
HM040	25	HT100	27	HC025B	12
HM060	36	HT150	38	HC040B	22
HM080	54	HT200	55	HC060B	27
HM120	93	HT250	59	HC080B	49
				HC100B	71.5

21.2 Internal distance measuring system system for linear axes HT-L

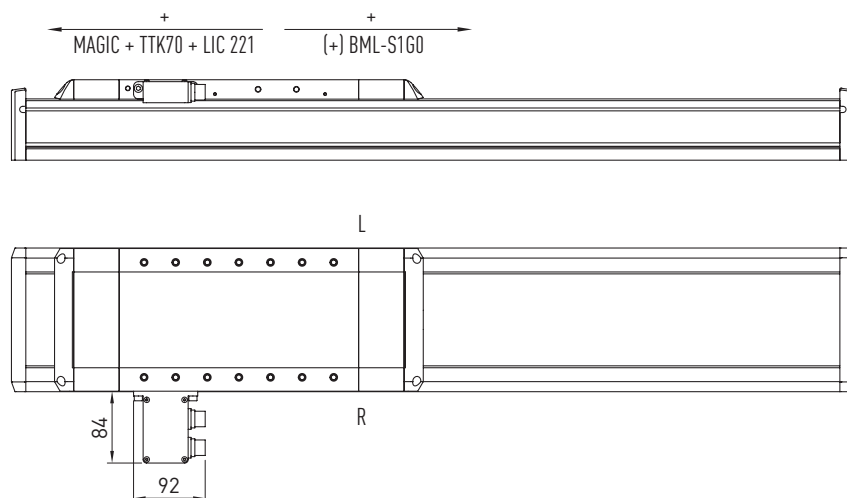


Fig. 21.4 Linear axis HT-L: Connection interface “D” – connector right/rear

22. Drive adaptation

22.1 Drive adaptation of linear modules HM-B, linear tables HT-B, cantilever axes HC and double axes HD

22.1.1 Motor adaptation of linear modules HM-B and double axes HD

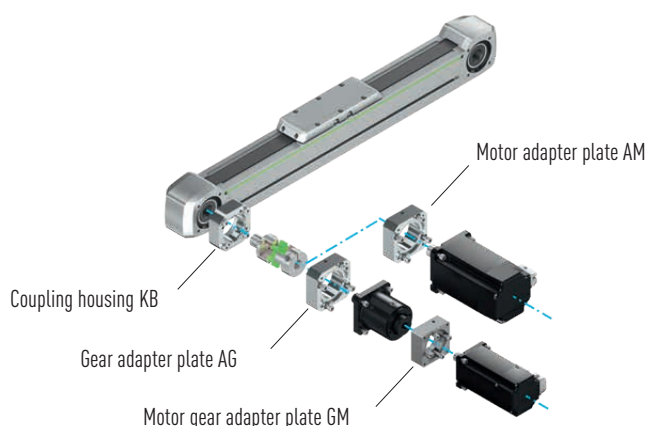
Adaptation to the linear axis is of multi-sectional design to allow simple flange-mounting of all standard motors and gearboxes.

The flange type set comprises the following components:

- Coupling housing KB
- Coupling components
- Motor adapter plate AM or gearbox adapter plate AG and motor gearbox adapter plate GM (omitted in NG01 – NG07)

The dimensions of the coupling housing, motor adapter plate as well as the gear adapter plate can be found in section 22.1.5 from page 184.

Motor adaptation of linear modules with toothed belt drive (HM-B)

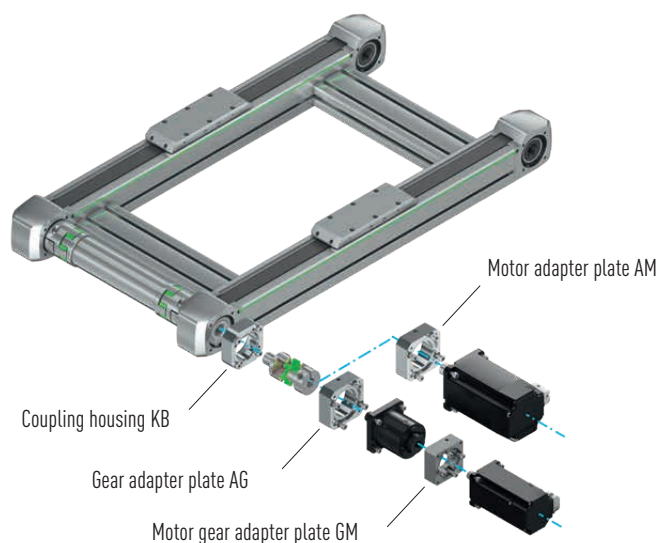


Gear adapter plate AG:
Motor gear adapter plate GM:
Motor adapter plate AM:

Adapter from axis to gearbox
Adapter from gearbox to motor
Adapter from axis to motor

Fig. 22.1 Motor adaptation of linear modules HM-B

Motor adaptation of double axes (HD)



Gear adapter plate AG:
Motor gear adapter plate GM:
Motor adapter plate AM:

Adapter from axis to gearbox
Adapter from gearbox to motor
Adapter from axis to motor

Fig. 22.2 Motor adaptation of double axes HD

Motor adaptation of multi-axis systems (HS)

The suitable motor adapter for HIWIN multi-axis systems HS must be selected separately for each axis.

Linear axes and axis systems HX

Drive adaptation

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
Gearbox adapter			NG01	NG02		NG03	NG04		NG05	NG06		NG07			
HIWIN	EM1-C-M-20-2	HW03		HW03		HW05	HW05		HW10						
	EM1-C-M-40-2	HW03		HW03		HW05	HW05		HW10						
	EM1-C-M-05-2		HW16	HW16		HW15									
	EM1-C-M-10-2		HW16	HW16		HW15									
	EM1-C-M-75-2				HW06		HW06		HW08						
	EM1-A-M-1K-2				HW25 ²⁾			HW13		HW13		HW14		HW27 ²⁾	HW27 ²⁾
	EM1-D-M-1A-2				HW25 ²⁾			HW13		HW13		HW14		HW27 ²⁾	HW27 ²⁾
	EM1-D-M-2K-2				HW25 ²⁾			HW13		HW13	HW14	HW14		HW27 ²⁾	HW27 ²⁾
B&R	8LSA24	BR02	BR02	BR02		BR07									
	8LSA25	BR02	BR02	BR02		BR07									
	8LSA33	BR03 ²⁾				BR04	BR04		BR13						
	8LSA34	BR03 ²⁾			BR04	BR04	BR04		BR13						
	8LSA35	BR03 ²⁾			BR04	BR04	BR04		BR13						
	8LSA43				BR05		BR05	BR10	BR10	BR10		BR17		BR30 ²⁾	
	8LSA44				BR05		BR05	BR10	BR10	BR10		BR17		BR30 ²⁾	
	8LSA45				BR05		BR05	BR10	BR10	BR10		BR17		BR30 ²⁾	
	8LSA46				BR05			BR10	BR10			BR17		BR30 ²⁾	
	8LSA53				BR21 ²⁾			BR12 ²⁾		BR12		BR14		BR33 ²⁾	BR33 ²⁾
	8LSA54				BR21 ²⁾			BR12 ²⁾				BR14		BR33 ²⁾	BR33 ²⁾
	8LSA55				BR21 ²⁾			BR12 ²⁾				BR14		BR33 ²⁾	BR33 ²⁾
	8LSN43				BR06 ²⁾		BR06	BR11	BR11	BR11		BR18		BR27 ²⁾	BR27 ²⁾
	8LSN44				BR06 ²⁾			BR11	BR11			BR18		BR27 ²⁾	BR27 ²⁾
	8LSN45				BR06 ²⁾			BR11	BR11			BR18		BR27 ²⁾	BR27 ²⁾
	8LSN46				BR06 ²⁾			BR11				BR18		BR27 ²⁾	BR27 ²⁾
	8LSN54				BR21 ²⁾			BR12 ²⁾			BR14	BR14		BR33 ²⁾	BR33 ²⁾
	8LSA56							BR12 ²⁾				BR14		BR33 ²⁾	BR33 ²⁾
	8LSA57							BR12 ²⁾			BR14	BR14		BR33 ²⁾	BR33 ²⁾
	8LSA63							BR23 ²⁾							
	8LSN55							BR12 ²⁾			BR14	BR14	BR33 ²⁾	BR33 ²⁾	BR33 ²⁾
	8LSN56							BR12 ²⁾			BR14	BR14	BR33 ²⁾	BR33 ²⁾	BR33 ²⁾
	8LSA64										BR15				
	8LSA65										BR15				
	8LSA66										BR15		BR35 ²⁾		
	8LSN57										BR14	BR14	BR33 ²⁾	BR33 ²⁾	
Beckhoff	AM8022	BE01	BE01	BE01		BE04									
	AM8023	BE01	BE01	BE01		BE04									
	AM8031	BE02		BE02		BE05	BE05		BE09						
	AM8531	BE02		BE02	BE05	BE05	BE05	BE09	BE09						
	AM8032			BE02	BE05	BE05	BE05		BE09						
	AM8033				BE05	BE05	BE05		BE09						
	AM8532				BE05	BE05	BE05	BE09	BE09						
	AM8533				BE05	BE05	BE05	BE09	BE09						
	AM8041				BE06		BE06		BE10	BE10		BE18		BE23 ²⁾	
	AM8042				BE06		BE06	BE10	BE10	BE10		BE18		BE23 ²⁾	

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
Beckhoff	AM8043				BE06		BE06	BE10	BE10	BE10		BE18		BE23 ²⁾	
	AM8541				BE06		BE06	BE10	BE10	BE10		BE18		BE23 ²⁾	
	AM8542				BE06		BE06	BE10	BE10	BE10		BE18		BE23 ²⁾	
	AM8543				BE06		BE06	BE10	BE10	BE10		BE18		BE23 ²⁾	
	AM8051				BE07			BE11		BE11		BE15		BE25 ²⁾	
	AM8052				BE07			BE11		BE11		BE15		BE25 ²⁾	
	AM8551				BE07			BE11		BE11		BE15		BE25 ²⁾	
	AM8552				BE07			BE11		BE11		BE15		BE25 ²⁾	
	AM8053							BE11		BE11		BE15		BE25 ²⁾	
	AM8553							BE11			BE15	BE15		BE25 ²⁾	
	AM8061							BE12 ²⁾							BE28 ²⁾
	AM8062							BE12 ²⁾			BE16		BE28 ²⁾		BE28 ²⁾
	AM8561							BE12 ²⁾			BE16		BE28 ²⁾		BE28 ²⁾
	AM8063										BE16		BE28 ²⁾		
	AM8562										BE16		BE28 ²⁾		
	AM8563										BE16		BE28 ²⁾		
	AM8071										BE17		BE31 ²⁾		
	AM8072										BE17		BE31 ²⁾		
Bosch	MS2N03-A0	B002	B002	B002		B009									
	MS2N03-B0	B002	B002	B002		B009									
	MS2N03-D0	B037		B037		B041									
	MS2N04-B0	B003			B005	B005	B005		B010						
	MSK030B	B002	B002	B002		B009									
	MSK030C	B002	B002	B002		B009									
	MSK040B	B003		B003	B005	B005	B005		B010						
	MSK040C	B003			B005	B005	B005		B010						
	MS2N04-C0				B005	B005	B005		B010						
	MS2N04-D0				B005	B005	B005		B010						
	MS2N05-B0				B006		B006	B011	B011	B011		B019		B049 ²⁾	
	MS2N05-C0				B006		B006	B011	B011	B011		B019		B049 ²⁾	
	MS2N05-D0				B006			B011	B011			B019		B049 ²⁾	
	MS2N06-B1				B008 ²⁾			B013		B013		B021		B058 ²⁾	B058 ²⁾
	MS2N06-C0				B008 ²⁾			B013		B013		B021		B058 ²⁾	B058 ²⁾
	MS2N06-D0				B008 ²⁾			B013				B021		B058 ²⁾	B058 ²⁾
	MS2N06-D1				B008 ²⁾			B013			B021	B021		B058 ²⁾	B058 ²⁾
	MSK043C				B005	B005	B005		B010						
	MSK050B				B006		B006	B011	B011	B011		B019		B049 ²⁾	
	MSK050C				B006		B006	B011	B011	B011		B019		B049 ²⁾	
	MSK060B				B008 ²⁾			B013		B013		B021		B058 ²⁾	B058 ²⁾
	MSK060C				B008 ²⁾			B013				B021		B058 ²⁾	B058 ²⁾
	MSK061B				B007 ²⁾		B007	B012	B012	B012		B020		B052 ²⁾	B052 ²⁾
	MSK061C				B007 ²⁾			B012	B012			B020		B052 ²⁾	B052 ²⁾
	MS2N06-E0							B013				B021		B058 ²⁾	B058 ²⁾
	MS2N07-B1							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾
	MS2N07-C1							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
Bosch	MSK070C							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾
	MSK070D							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾
	MSK070E							B015 ²⁾			B018		B061 ²⁾		
	MSK071C							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾
	MSK075C							B015 ²⁾			B018		B061 ²⁾		B061 ²⁾
	MSK076C							B014 ²⁾			B017	B017	B055 ²⁾	B055 ²⁾	B055 ²⁾
	MS2N07-D0										B018		B061 ²⁾		
	MS2N07-D1										B018		B061 ²⁾		
	MS2N07-E0										B018		B061 ²⁾		
	MS2N07-E1										B018		B061 ²⁾		
	MS2N10-B1										B034		B066 ²⁾		
	MS2N10-C0										B034		B066 ²⁾		
	MS2N10-C1										B034		B066 ²⁾		
	MS2N10-D0										B034				
	MSK071D										B018		B061 ²⁾		
	MSK071E										B018		B061 ²⁾		
	MSK075D										B018		B061 ²⁾		
	MSK075E										B018		B061 ²⁾		
	MSK100A										B044		B064 ²⁾		
Lenze	MCS06F	LE01		LE01		LE04	LE04		LE11						
	MCS06I	LE01				LE04	LE04		LE11						
	MCS09D				LE05	LE05	LE05		LE08						
	MCS09F				LE05	LE05	LE05		LE08						
	MCS09H				LE05	LE05		LE08	LE08						
	MCS09L				LE05			LE08	LE08						
	MCS12D				LE06 ²⁾			LE09	LE09	LE09		LE15		LE21 ²⁾	LE21 ²⁾
	MCS12H				LE06 ²⁾			LE09				LE15		LE21 ²⁾	LE21 ²⁾
	MCS12L							LE09				LE15		LE21 ²⁾	LE21 ²⁾
	MCS14D							LE10 ²⁾				LE13		LE24 ²⁾	LE24 ²⁾
	MCS14H							LE10 ²⁾			LE13	LE13		LE24 ²⁾	
	MCS14L										LE13	LE13	LE24 ²⁾		
	MCS14P										LE13		LE24 ²⁾		
	MCS19F										LE14		LE27 ²⁾		
Omron	R88M-1M20030	OM07		OM07		OM08	OM08		OM09						
	R88M-1M40030	OM10		OM10		OM11	OM11		OM12						
	R88M-1M05030		OM03	OM03		OM04									
	R88M-1M10030		OM03	OM03		OM04									
	R88M-1M75030				OM13		OM13	OM14	OM14						
	R88M-1L1K030				OM15		OM15	OM16	OM16	OM16		OM17		OM29 ²⁾	
	R88M-1L1K530				OM15		OM15	OM16	OM16	OM16		OM17		OM29 ²⁾	
	R88M-1L75030				OM15		OM15		OM16	OM16		OM17		OM29 ²⁾	
	R88M-1L2K030				OM15			OM16	OM16	OM16		OM17		OM29 ²⁾	
	R88M-1L3K030				OM18 ²⁾			OM19				OM20		OM32 ²⁾	OM32 ²⁾
	R88M-1M1K020				OM18 ²⁾			OM19		OM19		OM20		OM32 ²⁾	OM32 ²⁾
	R88M-1M1K520				OM18 ²⁾			OM19				OM20		OM32 ²⁾	OM32 ²⁾
	R88M-1M40020				OM15		OM15	OM16	OM16	OM16		OM17		OM29 ²⁾	

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
Omron	R88M-1M60020				OM15		OM15	OM16	OM16	OM16		OM17		OM29 ²⁾	
	R88M-1M2K020				OM18 ²⁾			OM19			OM20	OM20		OM32 ²⁾	OM32 ²⁾
	R88M-1L4K030							OM22				OM23		OM35 ²⁾	OM35 ²⁾
	R88M-1L5K030							OM22				OM23		OM35 ²⁾	
	R88M-1M3K020							OM22			OM23	OM23		OM35 ²⁾	OM35 ²⁾
Schneider	BSH0553	SE02	SE02	SE02		SE10									
	BSH0701	SE03		SE03		SE07	SE07		SE16						
	BSH0702	SE03		SE03		SE07	SE07		SE16						
	BMH0701	SE03		SE03	SE07	SE07	SE07		SE16						
	BMH0702	SE03		SE03	SE07	SE07	SE07		SE16						
	BMH0703	SE04		SE04	SE08	SE08	SE08	SE12	SE12						
	BSH0551		SE02	SE02		SE10									
	BSH0552		SE02	SE02		SE10									
	BSH1001				SE09		SE09		SE13	SE13		SE20		SE29 ²⁾	
	BSH1002				SE09		SE09	SE13	SE13	SE13		SE20		SE29 ²⁾	
	BSH1003				SE09			SE13	SE13	SE13		SE20		SE29 ²⁾	
	BSH1004				SE25			SE14				SE21		SE35 ²⁾	
	BSH1401				SE24 ²⁾			SE15 ²⁾				SE19		SE32 ²⁾	SE32 ²⁾
	BMH1001				SE09		SE09	SE13	SE13	SE13		SE20		SE29 ²⁾	
	BMH1002				SE09		SE09	SE13	SE13	SE13		SE20		SE29 ²⁾	
	BMH1003				SE09		SE09	SE13	SE13	SE13		SE20		SE29 ²⁾	
	BMH1401				SE24 ²⁾			SE15 ²⁾		SE15	SE19	SE19		SE32 ²⁾	SE32 ²⁾
	BSH0703					SE08	SE08		SE12						
	BSH1402							SE15 ²⁾			SE19	SE19		SE32 ²⁾	
	BMH1402							SE15 ²⁾			SE19	SE19	SE32 ²⁾	SE32 ²⁾	SE32 ²⁾
	BMH1403							SE15 ²⁾			SE19	SE19	SE32 ²⁾	SE32 ²⁾	SE32 ²⁾
	BSH1403										SE19		SE32 ²⁾		
	BSH1404										SE19		SE32 ²⁾		
SEW	CMP40M	SW02	SW02	SW02		SW06									
	CMP50S	SW03		SW03		SW07	SW07		SW11						
	CMP50M	SW03			SW07	SW07	SW07		SW11						
	CMP40S		SW02	SW02		SW06									
	CMP50L				SW07	SW07	SW07		SW11						
	CMP63S				SW08	SW08	SW08		SW12						
	CMP63M				SW08	SW08	SW08	SW12	SW12						
	CMP63L				SW08			SW12	SW12						
	CMP71S				SW09 ²⁾			SW13		SW13		SW17		SW27 ²⁾	SW27 ²⁾
	CMP71M				SW09 ²⁾			SW13				SW17		SW27 ²⁾	SW27 ²⁾
	CMPZ71S				SW09 ²⁾			SW13				SW17		SW27 ²⁾	SW27 ²⁾
	CMP71L							SW13				SW17		SW27 ²⁾	SW27 ²⁾
	CMP80S							SW14 ²⁾							SW30 ²⁾
	CMPZ71M							SW13				SW17		SW27 ²⁾	SW27 ²⁾
	CMPZ71L							SW13			SW17	SW17		SW27 ²⁾	SW27 ²⁾
	CMP80M										SW18				
	CMP80L										SW18		SW30 ²⁾		
	CMP100S										SW19		SW33 ²⁾		

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
SEW	CMP100M										SW19		SW33 ²⁾		
	CMPZ80S										SW18		SW30 ²⁾		
	CMPZ80M										SW18		SW30 ²⁾		
	CMPZ80L										SW18		SW30 ²⁾		
	CMPZ100S										SW19		SW33 ²⁾		
Siemens	1FK2103-4	SM23		SM23		SM24	SM24		SM25						
	1FK2203-2	SM23		SM23		SM24	SM24		SM25						
	1FK2203-4	SM23		SM23		SM24	SM24		SM25						
	1FK7022	SM02	SM02	SM02		SM07									
	1FK7032	SM03		SM03	SM04	SM04	SM04		SM11						
	1FK7034	SM03			SM04	SM04	SM04		SM11						
	1FL6032-2	SM27		SM27		SM28	SM28		SM29						
	1FL6034-2	SM27		SM27		SM28	SM28		SM29						
	1FK2102-0		SM19	SM19		SM20									
	1FK2102-1		SM19	SM19		SM20									
	1FL6022-2		SM19	SM19		SM20									
	1FL6024-2		SM19	SM19		SM20									
	1FK2103-2			SM23		SM24	SM24		SM25						
	1FK2204-5				SM35		SM35		SM36						
	1FK2104-6				SM35		SM35		SM36						
	1FK2204-6				SM35		SM35	SM36	SM36						
	1FK2105-4				SM37		SM37	SM38	SM38	SM38		SM39		SM62 ²⁾	
	1FK2105-6				SM37			SM38	SM38			SM39		SM62 ²⁾	
	1FK2205-2				SM05		SM05	SM08	SM08	SM08		SM15		SM59 ²⁾	
	1FK2205-4				SM05		SM05	SM08	SM08	SM08		SM15		SM59 ²⁾	
	1FK2106-3				SM06 ²⁾			SM09				SM12		SM71 ²⁾	SM71 ²⁾
	1FK2106-4				SM06 ²⁾			SM09				SM12		SM71 ²⁾	SM71 ²⁾
	1FK2206-2				SM06 ²⁾			SM09		SM09		SM12		SM71 ²⁾	SM71 ²⁾
	1FK2206-4				SM06 ²⁾			SM09			SM12	SM12		SM71 ²⁾	SM71 ²⁾
	1FK7040				SM05		SM05		SM08	SM08		SM15		SM59 ²⁾	
	1FK7042				SM05		SM05	SM08	SM08	SM08		SM15		SM59 ²⁾	
	1FK7060				SM06 ²⁾			SM09		SM09		SM12		SM71 ²⁾	SM71 ²⁾
	1FK7062				SM06 ²⁾			SM09				SM12		SM71 ²⁾	SM71 ²⁾
	1FK7063				SM06 ²⁾			SM09			SM12	SM12		SM71 ²⁾	SM71 ²⁾
	1FL6042-2				SM30		SM30		SM31						
	1FL6044-2				SM30		SM30		SM31						
	1FL6052-2				SM40		SM40	SM41	SM41	SM41		SM42		SM65 ²⁾	
	1FL6054-2				SM40			SM41	SM41	SM41		SM42		SM65 ²⁾	
	1FL6042-1				SM32		SM32	SM33	SM33	SM33		SM34		SM56 ²⁾	
	1FL6044-1				SM32		SM32	SM33	SM33	SM33		SM34		SM56 ²⁾	
	1FL6061-1				SM43 ²⁾			SM44		SM44		SM45		SM68 ²⁾	SM68 ²⁾
	1FL6062-1				SM43 ²⁾			SM44				SM45		SM68 ²⁾	SM68 ²⁾
	1FL6064-1				SM43 ²⁾			SM44			SM45	SM45		SM68 ²⁾	SM68 ²⁾
	1FK2104-4						SM35		SM36						
	1FK2104-5						SM35		SM36						
	1FK2106-6							SM09				SM12		SM71 ²⁾	SM71 ²⁾

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.1 Order code for position flange type ¹⁾ – linear modules HM-B and double axes HD

Drive Manufacturer/Type		HM040B/HD1			HM060B/HD2			HM080B/HD3			HM120B/HD4		HM120B-H/HD4-H		
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only Motor	With PLQE120	With PSBN142
Siemens	1FK2208-3							SM10 ²⁾			SM13		SM74 ²⁾		SM74 ²⁾
	1FK2208-4							SM10 ²⁾			SM13		SM74 ²⁾		SM74 ²⁾
	1FK7080							SM10 ²⁾			SM13				SM74 ²⁾
	1FK7081							SM10 ²⁾			SM13		SM74 ²⁾		SM74 ²⁾
	1FK7083							SM10 ²⁾			SM13		SM74 ²⁾		
	1FL6066-1							SM44			SM45	SM45	SM68 ²⁾	SM68 ²⁾	SM68 ²⁾
	1FL6067-1							SM44			SM45	SM45	SM68 ²⁾	SM68 ²⁾	SM68 ²⁾
	1FK2208-5										SM13		SM74 ²⁾		
	1FK2210-3										SM14		SM80 ²⁾		
	1FK2210-4										SM14		SM80 ²⁾		
	1FK2210-5										SM14		SM80 ²⁾		
	1FK7084										SM13		SM74 ²⁾		
	1FK7100										SM14		SM80 ²⁾		
	1FK7101										SM14		SM80 ²⁾		
	1FK7103										SM14		SM80 ²⁾		

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¹⁾ See order code Page 25 for linear modules HM-B and Page 105 double axes HD

²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

22.1.2 Drive adaptation of linear tables HT-B

The drive adaptation of linear table HT-B is of multi-sectional design to allow for simple flange-mounting of all standard motors and gearboxes.

The flange type set comprises the following components:

- Coupling components
- Motor adapter plate AM or gearbox adapter plate AG and motor gearbox adapter plate GM (omitted in NG11-NG15)

The dimensions of the coupling housing, motor adapter plate as well as the gear adapter plate can be found in section 22.1.5 from page 184.

Linear axes and axis systems HX

Drive adaptation

Motor adaptation of linear tables with toothed belt drive (HT-B)

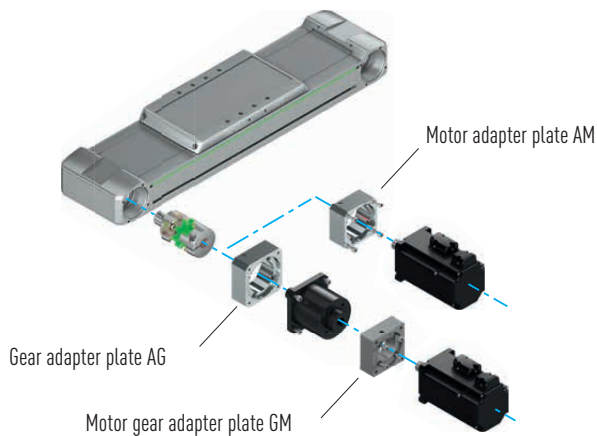


Fig. 22.3 Motor adaptation of linear tables HT-B

Gear adapter plate AG: Adapter from axis to gearbox
 Motor gear adapter plate GM: Adapter from gearbox to motor
 Motor adapter plate AM: Adapter from axis to motor

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
Gearbox adapter			NG11	NG12		NG13	NG14		NG15		NG15
HIWIN	EM1-C-M-20-2			HW03		HW10					
	EM1-C-M-40-2	HW03		HW03		HW10					
	EM1-C-M-05-2		HW16	HW16							
	EM1-C-M-10-2		HW16	HW16							
	EM1-C-M-75-2					HW08					
	EM1-A-M-1K-2				HW13 ²⁾		HW13	HW14	HW14		HW14
	EM1-D-M-1A-2				HW13 ²⁾		HW13	HW14	HW14		HW14
	EM1-D-M-2K-2				HW13 ²⁾			HW14	HW14	HW14	HW14
B&R	8LSA24		BR02	BR02							
	8LSA25		BR02	BR02							
	8LSA33			BR03		BR13					
	8LSA34			BR03		BR13					
	8LSA35			BR03		BR13					
	8LSA43				BR10	BR10	BR10		BR17		BR17
	8LSA44				BR10	BR10	BR10		BR17		BR17
	8LSA45				BR10	BR10	BR10		BR17		BR17
	8LSA46				BR10	BR10		BR17	BR17		BR17
	8LSA53						BR12		BR14		BR14
	8LSA54							BR14 ²⁾	BR14		BR14
	8LSA55							BR14 ²⁾	BR14		BR14
	8LSN43				BR11	BR11	BR11	BR18	BR18		BR18
	8LSN44				BR11	BR11		BR18	BR18		BR18
	8LSN45				BR11	BR11		BR18	BR18	BR18	BR18
	8LSN46				BR11			BR18	BR18	BR18	BR18
	8LSN54							BR14 ²⁾	BR14	BR14	BR14
	8LSA56							BR14 ²⁾	BR14	BR14	BR14
	8LSA57							BR14 ²⁾	BR14	BR14	BR14
	8LSA63							BR15 ²⁾			
	8LSN55							BR14 ²⁾	BR14	BR14	BR14

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
B&R	8LSN56							BR14 ²⁾	BR14	BR14	BR14
	8LSA64							BR15 ²⁾		BR15	
	8LSA65							BR15 ²⁾		BR15	
	8LSA66							BR15 ²⁾		BR15	
	8LSN57							BR14 ²⁾	BR14	BR14	BR14
Beckhoff	AM8022		BE01	BE01							
	AM8023	BE01	BE01	BE01							
	AM8031	BE02		BE02		BE09					
	AM8531	BE02		BE02	BE09	BE09					
	AM8032	BE02		BE02		BE09					
	AM8033	BE02		BE02		BE09					
	AM8532	BE02		BE02	BE09	BE09					
	AM8533	BE02		BE02	BE09	BE09					
	AM8041					BE10	BE10		BE18		BE18
	AM8042				BE10	BE10	BE10		BE18		BE18
	AM8043				BE10	BE10	BE10		BE18		BE18
	AM8541				BE10	BE10	BE10	BE18	BE18		BE18
	AM8542				BE10	BE10	BE10	BE18	BE18		BE18
	AM8543				BE10	BE10	BE10	BE18	BE18		BE18
	AM8051				BE11		BE11		BE15		BE15
	AM8052				BE11		BE11		BE15		BE15
	AM8551				BE11		BE11	BE15	BE15		BE15
	AM8552				BE11		BE11	BE15	BE15	BE15	BE15
	AM8053				BE11			BE15	BE15		BE15
	AM8553				BE11			BE15	BE15	BE15	BE15
	AM8061							BE16 ²⁾		BE16	
	AM8062							BE16 ²⁾		BE16	
	AM8561							BE16 ²⁾		BE16	
	AM8063							BE16 ²⁾		BE16	
	AM8562							BE16 ²⁾		BE16	
	AM8563							BE16 ²⁾		BE16	
	AM8071									BE17 ²⁾	
	AM8072									BE17 ²⁾	
Bosch	MS2N03-A0		B002	B002							
	MS2N03-B0		B002	B002							
	MS2N03-D0	B037		B037							
	MS2N04-B0	B003		B003		B010					
	MSK030B		B002	B002							
	MSK030C		B002	B002							
	MSK040B	B003		B003		B010					
	MSK040C	B003		B003		B010					
	MS2N04-C0	B003		B003		B010					
	MS2N04-D0	B003		B003	B010	B010					
	MS2N05-B0				B011	B011	B011		B019		B019
	MS2N05-C0				B011	B011	B011		B019		B019
	MS2N05-D0				B011	B011			B019		B019

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
Bosch	MS2N06-B1				B013		B013	B021	B021		B021
	MS2N06-C0				B013		B013		B021		B021
	MS2N06-D0				B013			B021	B021		B021
	MS2N06-D1				B013			B021	B021	B021	B021
	MSK043C	B003		B003		B010					
	MSK050B				B011	B011	B011		B019		B019
	MSK050C				B011	B011	B011		B019		B019
	MSK060B				B013		B013	B021	B021		B021
	MSK060C				B013			B021	B021		B021
	MSK061B				B012	B012	B012	B020	B020		B020
	MSK061C				B012	B012		B020	B020		B020
	MS2N06-E0				B013			B021	B021		B021
	MS2N07-B1							B018 ²⁾		B018	
	MS2N07-C1							B018 ²⁾		B018	
	MSK070C							B018 ²⁾		B018	
	MSK070D							B018 ²⁾		B018	
	MSK070E							B018 ²⁾		B018	
	MSK071C							B018 ²⁾		B018	
	MSK075C							B018 ²⁾		B018	
	MSK076C							B017 ²⁾	B017	B017	B017
	MS2N07-D0							B018 ²⁾		B018	
	MS2N07-D1							B018 ²⁾		B018	
	MS2N07-E0							B018 ²⁾		B018	
	MS2N07-E1							B018 ²⁾		B018	
	MS2N10-B1									B034 ²⁾	
	MS2N10-C0									B034 ²⁾	
	MS2N10-C1									B034 ²⁾	
	MS2N10-D0									B034 ²⁾	
	MSK071D							B018 ²⁾		B018	
	MSK071E							B018 ²⁾		B018	
	MSK075D							B018 ²⁾		B018	
	MSK075E							B018 ²⁾		B018	
	MSK100A									B044	
Lenze	MCS06F			LE01		LE11					
	MCS06I			LE01		LE11					
	MCS09D			LE02		LE08					
	MCS09F				LE08	LE08					
	MCS09H				LE08	LE08					
	MCS09L				LE08	LE08					
	MCS12D				LE09	LE09	LE09		LE15		LE15
	MCS12H				LE09			LE15	LE15		LE15
	MCS12L				LE09			LE15	LE15	LE15	LE15
	MCS14D							LE13 ²⁾	LE13		LE13
	MCS14H							LE13 ²⁾		LE13	LE13
	MCS14L							LE13 ²⁾		LE13	LE13
	MCS14P							LE13 ²⁾		LE13	
	MCS19F									LE14	

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
Omron	R88M-1M20030			OM07		OM09					
	R88M-1M40030	OM10		OM10		OM12					
	R88M-1M05030		OM03	OM03							
	R88M-1M10030		OM03	OM03							
	R88M-1M75030				OM14	OM14					
	R88M-1L1K030				OM16	OM16	OM16		OM17		OM17
	R88M-1L1K530				OM16	OM16	OM16		OM17		OM17
	R88M-1L75030					OM16	OM16		OM17		OM17
	R88M-1L2K030				OM16	OM16	OM16		OM17		OM17
	R88M-1L3K030				OM19 ²⁾			OM20	OM20		OM20
	R88M-1M1K020				OM19 ²⁾		OM19	OM20	OM20		OM20
	R88M-1M1K520				OM19 ²⁾			OM20	OM20		OM20
	R88M-1M40020				OM16	OM16	OM16		OM17		OM17
	R88M-1M60020				OM16	OM16	OM16		OM17		OM17
	R88M-1M2K020				OM19 ²⁾			OM20	OM20	OM20	OM20
	R88M-1L4K030				OM22 ²⁾			OM23	OM23		OM23
	R88M-1L5K030				OM22 ²⁾			OM23		OM23	OM23
	R88M-1M3K020				OM22 ²⁾			OM23	OM23	OM23	OM23
Schneider	BSH0553		SE02	SE02							
	BSH0701			SE03		SE16					
	BSH0702	SE03		SE03		SE16					
	BMH0701	SE03		SE03		SE16					
	BMH0702	SE03		SE03		SE16					
	BMH0703	SE04		SE04	SE12	SE12					
	BSH0551		SE02	SE02							
	BSH0552		SE02	SE02							
	BSH1001					SE13	SE13		SE20		SE20
	BSH1002				SE13	SE13	SE13		SE20		SE20
	BSH1003				SE13	SE13			SE20		SE20
	BSH1004				SE14				SE21		SE21
	BSH1401							SE19 ²⁾	SE19		SE19
	BMH1001				SE13	SE13	SE13		SE20		SE20
	BMH1002				SE13	SE13	SE13	SE20	SE20		SE20
	BMH1003				SE13	SE13	SE13	SE20	SE20	SE20	SE20
	BMH1401							SE19 ²⁾	SE19	SE19	SE19
	BSH0703	SE04		SE04		SE12					
	BSH1402							SE19 ²⁾	SE19	SE19	SE19
	BMH1402							SE19 ²⁾	SE19	SE19	SE19
	BMH1403							SE19 ²⁾	SE19	SE19	SE19
	BSH1403							SE19 ²⁾		SE19	
	BSH1404									SE19	

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
SEW	CMP40M		SW02	SW02							
	CMP50S	SW03		SW03		SW11					
	CMP50M	SW03		SW03		SW11					
	CMP40S		SW02	SW02							
	CMP50L	SW03		SW03		SW11					
	CMP63S			SW05		SW12					
	CMP63M				SW12	SW12					
	CMP63L				SW12	SW12					
	CMP71S				SW13		SW13		SW17		SW17
	CMP71M				SW13				SW17		SW17
	CMPZ71S				SW13			SW17	SW17	SW17	SW17
	CMP71L				SW13			SW17	SW17		SW17
	CMP80S				SW14 ²⁾			SW18			
	CMPZ71M				SW13			SW17	SW17	SW17	SW17
	CMPZ71L				SW13			SW17	SW17	SW17	SW17
	CMP80M							SW18		SW18	
	CMP80L							SW18		SW18	
	CMP100S							SW19 ²⁾		SW19	
	CMP100M									SW19	
	CMPZ80S							SW18		SW18	
	CMPZ80M							SW18		SW18	
	CMPZ80L									SW18	
	CMPZ100S									SW19	
Siemens	1FK2103-4AXXX-0			SM23		SM25					
	1FK2203-2AXXX-0			SM23		SM25					
	1FK2203-4AXXX-0	SM23		SM23		SM25					
	1FK7022		SM02	SM02							
	1FK7032	SM03		SM03		SM11					
	1FK7034	SM03		SM03		SM11					
	1FL6032-2			SM27		SM29					
	1FL6034-2	SM27		SM27		SM29					
	1FK2102-0AXXX-0		SM19	SM19							
	1FK2102-1AXXX-0		SM19	SM19							
	1FL6022-2		SM19	SM19							
	1FL6024-2		SM19	SM19							
	1FK2103-2AXXX-0			SM23		SM25					
	1FK2204-5AXXX-0					SM36					
	1FK2104-6AXXX-0					SM36					
	1FK2204-6AXXX-0				SM36	SM36					
	1FK2105-4AXXX-0				SM38	SM38	SM38		SM39		SM39
	1FK2105-6AXXX-0				SM38	SM38			SM39		SM39
	1FK2205-2AXXX-0				SM08	SM08	SM08		SM15		SM15
	1FK2205-4AXXX-0				SM08	SM08	SM08	SM15	SM15		SM15
	1FK2106-3AXXX-0				SM09 ²⁾			SM12	SM12		SM12
	1FK2106-4AXXX-0				SM09 ²⁾			SM12	SM12		SM12
	1FK2206-2AXXX-0				SM09 ²⁾		SM09	SM12	SM12		SM12

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.2 Order code for position flange type ¹⁾ – linear tables HT-B

Drive Manufacturer/Type		HT100B			HT150B			HT200B		HT250B	
		Only motor	With PLE40	With PLQE60	Only motor	With PLQE80	With PLQE120	Only motor	With PLQE120	Only motor	With PLQE120
Siemens	1FK2206-4AXX-0				SM09 ²⁾			SM12	SM12	SM12	SM12
	1FK7040				SM08	SM08	SM08		SM15		SM15
	1FK7042				SM08	SM08	SM08		SM15		SM15
	1FK7060				SM09 ²⁾			SM12	SM12		SM12
	1FK7062				SM09 ²⁾			SM12	SM12	SM12	SM12
	1FK7063				SM09 ²⁾			SM12	SM12	SM12	SM12
	1FL6042-2					SM31					
	1FL6044-2					SM31					
	1FL6052-2				SM41	SM41	SM41		SM42		SM42
	1FL6054-2				SM41	SM41			SM42		SM42
	1FL6042-1				SM33	SM33	SM33		SM34		SM34
	1FL6044-1				SM33	SM33	SM33	SM34	SM34		SM34
	1FL6061-1				SM44 ²⁾			SM45	SM45		SM45
	1FL6062-1				SM44 ²⁾			SM45	SM45	SM45	SM45
	1FL6064-1				SM44 ²⁾			SM45	SM45	SM45	SM45
	1FK2104-4AXX-0					SM36					
	1FK2104-5AXX-0					SM36					
	1FK2106-6AXX-0				SM09 ²⁾			SM12	SM12		SM12
	1FK2208-3AXX-0							SM13 ²⁾		SM13	
	1FK2208-4AXX-0							SM13 ²⁾		SM13	
	1FK7080							SM13 ²⁾		SM13	
	1FK7081							SM13 ²⁾		SM13	
	1FK7083							SM13 ²⁾		SM13	
	1FL6066-1				SM44 ²⁾			SM45	SM45	SM45	SM45
	1FL6067-1				SM44 ²⁾			SM45	SM45	SM45	SM45
	1FK2208-5AXX-0							SM13 ²⁾		SM13	
	1FK2210-3AXX-0									SM14	
	1FK2210-4AXX-0									SM14	
	1FK2210-5AXX-0									SM14	
	1FK7084							SM13 ²⁾		SM13	
	1FK7100									SM14	
	1FK7101									SM14	
	1FK7103									SM14	

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

22.1.3 Drive adaptation of linear tables HT-B

The drive adaptation of linear table HT-B is of multi-sectional design to allow for simple flange-mounting of all standard motors and gearboxes.

The flange type set comprises the following components:

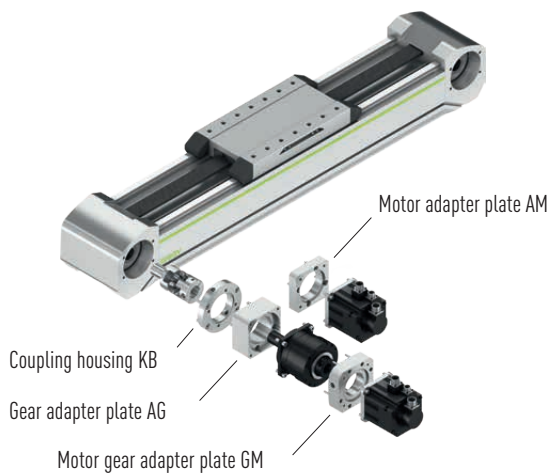
- Coupling housing KB
- Coupling components
- Motor adapter plate AM or gearbox adapter plate AG and motor gearbox adapter plate GM (omitted in NG41 and NG42)

The dimensions of the coupling housing, motor adapter plate as well as the gear adapter plate can be found in section 22.1.5 from page 184.

Linear axes and axis systems HX

Drive adaptation

Motor adaptation of bridge axes with toothed belt drive (HB-B)



Gear adapter plate AG:	Adapter from axis to gearbox
Motor gear adapter plate GM:	Adapter from gearbox to motor
Motor adapter plate AM:	Adapter from axis to motor

Fig. 22.4 Motor adaptation of bridge axes HB-B

Table 22.3 Order code for position flange type ¹⁾ – Bridge axes HB-B				
Drive Manufacturer/Type		HB250B		
		Only motor	With PLQE120	With PSBN142
Gearbox adapter			NG11	NG12
HIWIN	EM1-A-M-1K-2		HW27 ²⁾	HW27 ²⁾
	EM1-D-M-1A-2		HW27 ²⁾	HW27 ²⁾
	EM1-D-M-2K-2		HW27 ²⁾	HW27 ²⁾
B&R	8LSA43		BR30 ²⁾	
	8LSA44		BR30 ²⁾	
	8LSA45		BR30 ²⁾	
	8LSA46		BR30 ²⁾	
	8LSA53		BR33 ²⁾	BR33 ²⁾
	8LSA54		BR33 ²⁾	BR33 ²⁾
	8LSA55		BR33 ²⁾	BR33 ²⁾
	8LSN43		BR27 ²⁾	BR27 ²⁾
	8LSN44		BR27 ²⁾	BR27 ²⁾
	8LSN45		BR27 ²⁾	BR27 ²⁾
	8LSN46		BR27 ²⁾	BR27 ²⁾
	8LSN54		BR33 ²⁾	BR33 ²⁾
	8LSA56		BR33 ²⁾	BR33 ²⁾
	8LSA57		BR33 ²⁾	BR33 ²⁾
	8LSN55		BR33 ²⁾	BR33 ²⁾
	8LSN56		BR33 ²⁾	BR33 ²⁾
	8LSN57		BR33 ²⁾	BR33 ²⁾

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.3 Order code for position flange type ¹⁾ – Bridge axes HB-B

Drive Manufacturer/Type		HB250B		
		Only motor	With PLQE120	With PSBN142
Beckhoff	AM8041		BE23 ²⁾	
	AM8042		BE23 ²⁾	
	AM8043		BE23 ²⁾	
	AM8541		BE23 ²⁾	
	AM8542		BE23 ²⁾	
	AM8543		BE23 ²⁾	
	AM8051		BE25 ²⁾	
	AM8052		BE25 ²⁾	
	AM8551		BE25 ²⁾	
	AM8552		BE25 ²⁾	
	AM8053		BE25 ²⁾	
	AM8553		BE25 ²⁾	
	AM8061			BE28 ²⁾
	AM8062			BE28 ²⁾
	AM8561			BE28 ²⁾
	AM8063			BE28 ²⁾
	AM8562	BE28 ²⁾		BE28 ²⁾
	AM8563	BE28 ²⁾		BE28 ²⁾
	AM8072	BE31 ²⁾		
	AM8073	BE31 ²⁾		
Bosch	MS2N05-B0		B049 ²⁾	
	MS2N05-C0		B049 ²⁾	
	MS2N05-D0		B049 ²⁾	
	MS2N06-B1		B058 ²⁾	B058 ²⁾
	MS2N06-C0		B058 ²⁾	B058 ²⁾
	MS2N06-D0		B058 ²⁾	B058 ²⁾
	MS2N06-D1		B058 ²⁾	B058 ²⁾
	MSK050B		B049 ²⁾	
	MSK050C		B049 ²⁾	
	MSK060B		B058 ²⁾	B058 ²⁾
	MSK060C		B058 ²⁾	B058 ²⁾
	MSK061B		B052 ²⁾	B052 ²⁾
	MSK061C		B052 ²⁾	B052 ²⁾
	MS2N06-E0		B058 ²⁾	B058 ²⁾
	MS2N07-B1			B061 ²⁾
	MS2N07-C1			B061 ²⁾
	MSK070C			B061 ²⁾
	MSK070D			B061 ²⁾
	MSK070E			B061 ²⁾
	MSK071C			B061 ²⁾
	MSK075C			B061 ²⁾
	MSK076C		B055 ²⁾	B055 ²⁾
	MS2N07-D0			B061 ²⁾
	MS2N07-D1	B061 ²⁾		B061 ²⁾
	MS2N07-E0			B061 ²⁾
	MS2N07-E1	B061 ²⁾		B061 ²⁾

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.3 Order code for position flange type ¹⁾ – Bridge axes HB-B

Drive Manufacturer/Type		HB250B		
		Only motor	With PLQE120	With PSBN142
Bosch	MS2N10-B1	B066 ²⁾		
	MS2N10-C1	B066 ²⁾		
	MS2N10-D0	B066 ²⁾		
	MSK071D			B061 ²⁾
	MSK071E			B061 ²⁾
	MSK075D			B061 ²⁾
	MSK075E	B061 ²⁾		B061 ²⁾
	MSK100A	B064 ²⁾		
	MS2N10-D1	B066 ²⁾		
	MS2N10-E0	B066 ²⁾		
	MS2N10-E1	B066 ²⁾		
	MS2N10-F0	B066 ²⁾		
	MS2N10-F1	B066 ²⁾		
	MS2N10-R0	B066 ²⁾		
Lenze	MCS12D		LE21 ²⁾	LE21 ²⁾
	MCS12H		LE21 ²⁾	LE21 ²⁾
	MCS12L		LE21 ²⁾	LE21 ²⁾
	MCS14D		LE24 ²⁾	LE24 ²⁾
	MCS14H		LE24 ²⁾	LE24 ²⁾
	MCS14L		LE24 ²⁾	LE24 ²⁾
	MCS14P			LE24 ²⁾
	MCS19F	LE27 ²⁾		
Omron	R88M-1L1K030		OM29 ²⁾	
	R88M-1L1K530		OM29 ²⁾	
	R88M-1L75030		OM29 ²⁾	
	R88M-1L2K030		OM29 ²⁾	
	R88M-1L3K030		OM32 ²⁾	OM32 ²⁾
	R88M-1M1K020		OM32 ²⁾	OM32 ²⁾
	R88M-1M1K520		OM32 ²⁾	OM32 ²⁾
	R88M-1M40020		OM29 ²⁾	
	R88M-1M60020		OM29 ²⁾	
	R88M-1M2K020		OM32 ²⁾	OM32 ²⁾
	R88M-1L4K030		OM35 ²⁾	OM35 ²⁾
	R88M-1L5K030		OM35 ²⁾	OM35 ²⁾
	R88M-1M3K020		OM35 ²⁾	OM35 ²⁾

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.3 Order code for position flange type ¹⁾ – Bridge axes HB-B

Drive Manufacturer/Type		HB250B		
		Only motor	With PLQE120	With PSBN142
Schneider	BSH1001		SE29 ²⁾	
	BSH1002		SE29 ²⁾	
	BSH1003		SE29 ²⁾	
	BSH1004		SE35 ²⁾	
	BSH1401		SE32 ²⁾	SE32 ²⁾
	BMH1001		SE29 ²⁾	
	BMH1002		SE29 ²⁾	
	BMH1003		SE29 ²⁾	
	BMH1401		SE32 ²⁾	SE32 ²⁾
	BSH1402		SE32 ²⁾	SE32 ²⁾
	BMH1402		SE32 ²⁾	SE32 ²⁾
	BMH1403		SE32 ²⁾	SE32 ²⁾
	BSH1403			SE32 ²⁾
	BSH1404			SE32 ²⁾
SEW	CMP71S		SW27 ²⁾	SW27 ²⁾
	CMP71M		SW27 ²⁾	SW27 ²⁾
	CMPZ71S		SW27 ²⁾	SW27 ²⁾
	CMP71L		SW27 ²⁾	SW27 ²⁾
	CMP80S			SW30 ²⁾
	CMPZ71M		SW27 ²⁾	SW27 ²⁾
	CMPZ71L		SW27 ²⁾	SW27 ²⁾
	CMP80M			SW30 ²⁾
	CMP80L			SW30 ²⁾
	CMP100S			SW33 ²⁾
	CMP100M			SW33 ²⁾
	CMPZ80S			SW30 ²⁾
	CMPZ80M			SW30 ²⁾
	CMPZ80L			SW30 ²⁾
	CMPZ100S	SW33 ²⁾		
	CMPZ100M	SW33 ²⁾		
	CMPZ100L	SW33 ²⁾		

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.3 Order code for position flange type ¹⁾ – Bridge axes HB-B

Drive Manufacturer/Type		HB250B		
		Only motor	With PLQE120	With PSBN142
Siemens	1FK2105-4		SM62 ²⁾	
	1FK2105-6		SM62 ²⁾	
	1FK2205-2		SM59 ²⁾	
	1FK2205-4		SM59 ²⁾	
	1FK2106-3		SM71 ²⁾	SM71 ²⁾
	1FK2106-4		SM71 ²⁾	SM71 ²⁾
	1FK2206-2		SM71 ²⁾	SM71 ²⁾
	1FK2206-4		SM71 ²⁾	SM71 ²⁾
	1FK7040		SM59 ²⁾	
	1FK7042		SM59 ²⁾	
	1FK7060		SM71 ²⁾	SM71 ²⁾
	1FK7062		SM71 ²⁾	SM71 ²⁾
	1FK7063		SM71 ²⁾	SM71 ²⁾
	1FL6052-2		SM65 ²⁾	
	1FL6054-2		SM65 ²⁾	
	1FL6042-1		SM56 ²⁾	
	1FL6044-1		SM56 ²⁾	
	1FL6061-1		SM68 ²⁾	SM68 ²⁾
	1FL6062-1		SM68 ²⁾	SM68 ²⁾
	1FL6064-1		SM68 ²⁾	SM68 ²⁾
	1FK2106-6		SM71 ²⁾	SM71 ²⁾
	1FK2208-3			SM74 ²⁾
	1FK2208-4			SM74 ²⁾
	1FK7080			SM74 ²⁾
	1FK7081			SM74 ²⁾
	1FK7083			SM74 ²⁾
	1FL6066-1		SM68 ²⁾	SM68 ²⁾
	1FL6067-1		SM68 ²⁾	SM68 ²⁾
	1FK2208-5			SM74 ²⁾
	1FK2210-3	SM80 ²⁾		
	1FK2210-4	SM80 ²⁾		
	1FK2210-5	SM80 ²⁾		
	1FK7084			SM74 ²⁾
	1FK7100	SM80 ²⁾		
	1FK7101	SM80 ²⁾		
	1FK7103	SM80 ²⁾		
	1FK7105	SM80 ²⁾		

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¹⁾ See order code Page 45 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

22.1.4 Drive adaptation of cantilever axis HC-B

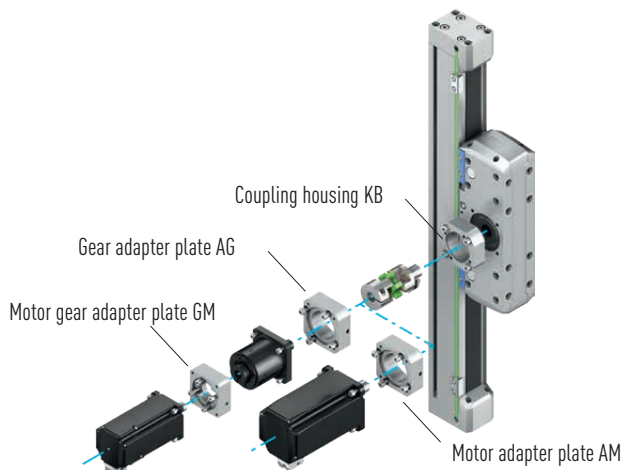
Adaptation to the linear axis is of multi-sectional design to allow simple flange-mounting of all standard motors and gearboxes.

The flange type set comprises the following components:

- Coupling housing KB
- Coupling components
- Motor adapter plate AM or gearbox adapter plate AG and motor gearbox adapter plate GM (omitted in NG21–NG27)

The dimensions of the coupling housing, motor adapter plate as well as the gear adapter plate can be found in section 22.1.5 from page 184.

Motor adaptation of cantilever axes (HC-B)



Gear adapter plate AG:	Adapter from axis to gearbox
Motor gear adapter plate GM:	Adapter from gearbox to motor
Motor adapter plate AM:	Adapter from axis to motor

Fig. 22.5 Motor adaptation of cantilever axes HC-B

Table 22.4 Order code for position flange type ¹⁾ – cantilever axes HC-B																		
Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B		
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120	
Gearbox adapter			NG21		NG22	NG23		NG24	NG25		NG26	NG27		NG28	NG29		NG30	
HIWIN	EM1-C-M-20-2	HW24 ²⁾				HW03 ²⁾		HW05 ²⁾	HW05 ²⁾		HW10 ²⁾			HW23 ²⁾				
	EM1-C-M-40-2	HW24 ²⁾				HW03 ²⁾		HW05 ²⁾	HW05 ²⁾		HW10 ²⁾			HW23 ²⁾				
	EM1-C-M-05-2		HW17 ²⁾			HW16 ²⁾	HW16 ²⁾		HW15 ²⁾									
	EM1-C-M-10-2	HW17 ²⁾	HW17 ²⁾			HW16 ²⁾	HW16 ²⁾		HW15 ²⁾									
	EM1-C-M-75-2								HW06 ²⁾		HW08 ²⁾			HW24 ²⁾				
	EM1-A-M-1K-2							HW25 ²⁾			HW13 ²⁾		HW13 ²⁾			HW14 ²⁾	HW26 ²⁾	
	EM1-D-M-1A-2							HW25 ²⁾			HW13 ²⁾		HW13 ²⁾			HW14 ²⁾	HW26 ²⁾	
	EM1-D-M-2K-2							HW25 ²⁾			HW13 ²⁾		HW13 ²⁾			HW14 ²⁾	HW26 ²⁾	
B&R	8LSA24	BR19 ²⁾	BR19 ²⁾			BR02 ²⁾	BR02 ²⁾		BR07 ²⁾									
	8LSA25	BR19 ²⁾	BR19 ²⁾			BR02 ²⁾	BR02 ²⁾		BR07 ²⁾									
	8LSA33	BR24 ²⁾				BR03 ²⁾	BR03 ²⁾		BR04 ²⁾	BR04 ²⁾		BR13 ²⁾			BR20 ²⁾			
	8LSA34	BR24 ²⁾				BR03 ²⁾	BR03 ²⁾		BR04 ²⁾	BR04 ²⁾		BR13 ²⁾			BR20 ²⁾			
	8LSA35					BR03 ²⁾	BR03 ²⁾		BR04 ²⁾	BR04 ²⁾		BR13 ²⁾			BR20 ²⁾			
	8LSA43								BR05 ²⁾	BR05 ²⁾		BR10 ²⁾	BR10 ²⁾		BR17 ²⁾	BR17 ²⁾		BR29 ²⁾
	8LSA44								BR05 ²⁾	BR05 ²⁾		BR10 ²⁾	BR10 ²⁾		BR17 ²⁾	BR17 ²⁾		BR29 ²⁾
	8LSA45								BR05 ²⁾	BR05 ²⁾		BR10 ²⁾	BR10 ²⁾		BR17 ²⁾	BR17 ²⁾		BR29 ²⁾
	8LSA46								BR05 ²⁾	BR05 ²⁾	BR10 ²⁾	BR10 ²⁾	BR10 ²⁾		BR17 ²⁾	BR17 ²⁾		BR29 ²⁾
	8LSA53								BR21 ²⁾				BR12 ²⁾			BR14 ²⁾		BR32 ²⁾
	8LSA54								BR21 ²⁾				BR12 ²⁾			BR14 ²⁾		BR32 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
B&R	8LSA55						BR21 ²⁾			BR12 ²⁾		BR12 ²⁾			BR14 ²⁾		BR32 ²⁾
	8LSN43						BR06 ²⁾		BR06 ²⁾	BR11 ²⁾	BR11 ²⁾	BR11 ²⁾		BR18 ²⁾	BR18 ²⁾		BR26 ²⁾
	8LSN44						BR06 ²⁾		BR06 ²⁾	BR11 ²⁾	BR11 ²⁾	BR11 ²⁾		BR18 ²⁾	BR18 ²⁾		BR26 ²⁾
	8LSN45						BR06 ²⁾		BR06 ²⁾	BR11 ²⁾	BR11 ²⁾	BR11 ²⁾		BR18 ²⁾	BR18 ²⁾		BR26 ²⁾
	8LSN46						BR06 ²⁾			BR11 ²⁾		BR11 ²⁾			BR18 ²⁾		BR26 ²⁾
	8LSN54						BR21 ²⁾			BR12 ²⁾		BR12 ²⁾			BR14 ²⁾		BR32 ²⁾
	8LSA56									BR12 ²⁾		BR12 ²⁾			BR14 ²⁾		BR32 ²⁾
	8LSA57									BR12 ²⁾		BR12 ²⁾			BR14 ²⁾		BR32 ²⁾
	8LSA63						BR22 ²⁾			BR23 ²⁾							
	8LSN55						BR21 ²⁾			BR12 ²⁾		BR12 ²⁾	BR14 ²⁾		BR14 ²⁾	BR32 ²⁾	BR32 ²⁾
	8LSN56									BR12 ²⁾		BR12 ²⁾	BR14 ²⁾		BR14 ²⁾	BR32 ²⁾	BR32 ²⁾
	8LSA64									BR23 ²⁾							
	8LSA66												BR15 ²⁾				
	8LSN57									BR12 ²⁾		BR12 ²⁾	BR14 ²⁾		BR14 ²⁾	BR32 ²⁾	BR32 ²⁾
Beckhoff	AM8022	BE19 ²⁾	BE19 ²⁾		BE01 ²⁾	BE01 ²⁾		BE04 ²⁾									
	AM8023		BE19 ²⁾	BE01 ²⁾	BE01 ²⁾	BE01 ²⁾		BE04 ²⁾									
	AM8031	BE20 ²⁾		BE02 ²⁾		BE02 ²⁾		BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8531	BE20 ²⁾		BE02 ²⁾		BE02 ²⁾	BE05 ²⁾	BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8032			BE02 ²⁾		BE02 ²⁾		BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8033					BE02 ²⁾		BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8532			BE02 ²⁾		BE02 ²⁾	BE05 ²⁾	BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8533					BE02 ²⁾	BE05 ²⁾	BE05 ²⁾	BE05 ²⁾		BE09 ²⁾			BE21 ²⁾			
	AM8041							BE06 ²⁾		BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8042						BE06 ²⁾	BE06 ²⁾		BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8043						BE06 ²⁾	BE06 ²⁾		BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8541						BE06 ²⁾	BE06 ²⁾	BE10 ²⁾	BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8542						BE06 ²⁾	BE06 ²⁾	BE10 ²⁾	BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8543						BE06 ²⁾	BE06 ²⁾	BE10 ²⁾	BE10 ²⁾	BE10 ²⁾		BE18 ²⁾	BE18 ²⁾		BE22 ²⁾	
	AM8051						BE07 ²⁾				BE11 ²⁾			BE15 ²⁾		BE24 ²⁾	
	AM8052						BE07 ²⁾			BE11 ²⁾		BE11 ²⁾		BE15 ²⁾		BE24 ²⁾	
	AM8551						BE07 ²⁾			BE11 ²⁾		BE11 ²⁾		BE15 ²⁾		BE24 ²⁾	
	AM8552						BE07 ²⁾			BE11 ²⁾		BE11 ²⁾		BE15 ²⁾		BE24 ²⁾	
	AM8053						BE07 ²⁾			BE11 ²⁾		BE11 ²⁾		BE15 ²⁾		BE24 ²⁾	
	AM8553						BE07 ²⁾			BE11 ²⁾		BE11 ²⁾		BE15 ²⁾		BE24 ²⁾	
	AM8061									BE12 ²⁾							
	AM8062									BE12 ²⁾			BE16 ²⁾				
	AM8561									BE12 ²⁾			BE16 ²⁾			BE27 ²⁾	
	AM8063												BE16 ²⁾			BE27 ²⁾	
	AM8562									BE12 ²⁾			BE16 ²⁾			BE27 ²⁾	
	AM8563												BE16 ²⁾			BE27 ²⁾	
	AM8071												BE17 ²⁾			BE30 ²⁾	
	AM8072												BE17 ²⁾			BE30 ²⁾	
	AM8073															BE30 ²⁾	

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.4 Order code for position flange type ¹⁾ – cantilever axes HC-B

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
Bosch	MS2N03-A0	B042 ²⁾	B042 ²⁾		B002 ²⁾	B002 ²⁾		B009 ²⁾									
	MS2N03-B0	B042 ²⁾	B042 ²⁾		B002 ²⁾	B002 ²⁾		B009 ²⁾									
	MS2N03-D0			B037 ²⁾		B037 ²⁾		B041 ²⁾									
	MS2N04-B0	B045 ²⁾		B003 ²⁾		B003 ²⁾		B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MSK030B	B042 ²⁾	B042 ²⁾		B002 ²⁾	B002 ²⁾		B009 ²⁾									
	MSK030C	B042 ²⁾	B042 ²⁾		B002 ²⁾	B002 ²⁾		B009 ²⁾									
	MSK040B	B045 ²⁾		B003 ²⁾		B003 ²⁾		B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MSK040C			B003 ²⁾		B003 ²⁾		B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MS2N04-C0			B003 ²⁾		B003 ²⁾		B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MS2N04-D0					B003 ²⁾	B005 ²⁾	B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MS2N05-B0						B006 ²⁾		B006 ²⁾		B011 ²⁾	B011 ²⁾		B019 ²⁾	B019 ²⁾		B048 ²⁾
	MS2N05-C0						B006 ²⁾		B006 ²⁾		B011 ²⁾	B011 ²⁾		B019 ²⁾	B019 ²⁾		B048 ²⁾
	MS2N05-D0						B006 ²⁾		B006 ²⁾	B011 ²⁾	B011 ²⁾	B011 ²⁾		B019 ²⁾	B019 ²⁾		B048 ²⁾
	MS2N06-B1						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MS2N06-C0						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MS2N06-D0						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MS2N06-D1						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MSK043C			B003 ²⁾		B003 ²⁾		B005 ²⁾	B005 ²⁾		B010 ²⁾			B047 ²⁾			
	MSK050B						B006 ²⁾		B006 ²⁾		B011 ²⁾	B011 ²⁾		B019 ²⁾	B019 ²⁾		B048 ²⁾
	MSK050C						B006 ²⁾		B006 ²⁾		B011 ²⁾	B011 ²⁾		B019 ²⁾	B019 ²⁾		B048 ²⁾
	MSK060B						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MSK060C						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MSK061B						B007 ²⁾		B007 ²⁾	B012 ²⁾	B012 ²⁾	B012 ²⁾		B020 ²⁾	B020 ²⁾		B051 ²⁾
	MSK061C						B007 ²⁾		B007 ²⁾	B012 ²⁾	B012 ²⁾	B012 ²⁾		B020 ²⁾	B020 ²⁾		B051 ²⁾
	MS2N06-E0						B008 ²⁾			B013 ²⁾		B013 ²⁾			B021 ²⁾		B057 ²⁾
	MS2N07-B1									B015 ²⁾			B018 ²⁾				
	MS2N07-C1									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK070C									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK070D									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK070E									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK071C									B015 ²⁾			B018 ²⁾				
	MSK075C									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK076C						B046 ²⁾			B014 ²⁾		B014 ²⁾	B017 ²⁾		B017 ²⁾	B054 ²⁾	B054 ²⁾
	MS2N07-D0									B015 ²⁾			B018 ²⁾				
	MS2N07-D1												B018 ²⁾			B060 ²⁾	
	MS2N07-E0												B018 ²⁾			B060 ²⁾	
	MS2N07-E1												B018 ²⁾			B060 ²⁾	
	MS2N10-B1												B034 ²⁾			B065 ²⁾	
	MS2N10-C0												B034 ²⁾			B065 ²⁾	
	MS2N10-C1												B034 ²⁾			B065 ²⁾	
	MS2N10-D0												B034 ²⁾			B065 ²⁾	
	MSK071D									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK071E									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK075D									B015 ²⁾			B018 ²⁾			B060 ²⁾	
	MSK075E												B018 ²⁾			B060 ²⁾	
	MSK100A									B043 ²⁾			B044 ²⁾			B063 ²⁾	

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
Bosch	MS2N10-D1												B034 ²⁾			B065 ²⁾	
	MS2N10-E0												B034 ²⁾			B065 ²⁾	
	MS2N10-E1															B065 ²⁾	
	MS2N10-F0															B065 ²⁾	
	MS2N10-F1															B065 ²⁾	
	MS2N10-R0															B065 ²⁾	
Lenze	MCS06F	LE17 ²⁾				LE01 ²⁾		LE04 ²⁾	LE04 ²⁾		LE11 ²⁾			LE18 ²⁾			
	MCS06I					LE01 ²⁾		LE04 ²⁾	LE04 ²⁾		LE11 ²⁾			LE18 ²⁾			
	MCS09D			LE02 ²⁾		LE02 ²⁾		LE05 ²⁾	LE05 ²⁾		LE08 ²⁾			LE19 ²⁾			
	MCS09F			LE02 ²⁾		LE02 ²⁾		LE05 ²⁾	LE05 ²⁾		LE08 ²⁾			LE19 ²⁾			
	MCS09H					LE02 ²⁾	LE05 ²⁾	LE05 ²⁾	LE05 ²⁾		LE08 ²⁾			LE19 ²⁾			
	MCS09L						LE05 ²⁾		LE05 ²⁾		LE08 ²⁾			LE19 ²⁾			
	MCS12D						LE06 ²⁾		LE06 ²⁾	LE09 ²⁾	LE09 ²⁾	LE09 ²⁾		LE15 ²⁾	LE15 ²⁾		LE20 ²⁾
	MCS12H						LE06 ²⁾			LE09 ²⁾		LE09 ²⁾			LE15 ²⁾		LE20 ²⁾
	MCS12L									LE09 ²⁾		LE09 ²⁾			LE15 ²⁾		LE20 ²⁾
	MCS14D						LE16 ²⁾			LE10 ²⁾		LE10 ²⁾			LE13 ²⁾		LE23 ²⁾
	MCS14H									LE10 ²⁾		LE10 ²⁾			LE13 ²⁾		LE23 ²⁾
	MCS14L									LE10 ²⁾		LE10 ²⁾	LE13 ²⁾		LE13 ²⁾	LE23 ²⁾	LE23 ²⁾
	MCS14P												LE13 ²⁾			LE23 ²⁾	
	MCS19F												LE14 ²⁾			LE26 ²⁾	
Omron	R88M-1M20030	OM05 ²⁾				OM07 ²⁾		OM08 ²⁾	OM08 ²⁾		OM09 ²⁾			OM25 ²⁾			
	R88M-1M40030	OM24 ²⁾		OM10 ²⁾		OM10 ²⁾		OM11 ²⁾	OM11 ²⁾		OM12 ²⁾			OM26 ²⁾			
	R88M-1M05030		OM01 ²⁾		OM03 ²⁾	OM03 ²⁾		OM04 ²⁾									
	R88M-1M10030	OM01 ²⁾	OM01 ²⁾		OM03 ²⁾	OM03 ²⁾		OM04 ²⁾									
	R88M-1M75030						OM13 ²⁾		OM13 ²⁾		OM14 ²⁾			OM27 ²⁾			
	R88M-1L1K030						OM15 ²⁾		OM15 ²⁾		OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1L1K530						OM15 ²⁾		OM15 ²⁾		OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1L75030							OM15 ²⁾	OM15 ²⁾		OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1L2K030						OM15 ²⁾		OM15 ²⁾		OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1L3K030						OM18 ²⁾			OM19 ²⁾		OM19 ²⁾			OM20 ²⁾		OM31 ²⁾
	R88M-1M1K020						OM18 ²⁾			OM19 ²⁾		OM19 ²⁾			OM20 ²⁾		OM31 ²⁾
	R88M-1M1K520						OM18 ²⁾			OM19 ²⁾		OM19 ²⁾			OM20 ²⁾		OM31 ²⁾
	R88M-1M40020						OM15 ²⁾		OM15 ²⁾		OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1M60020						OM15 ²⁾		OM15 ²⁾	OM16 ²⁾	OM16 ²⁾	OM16 ²⁾		OM17 ²⁾	OM17 ²⁾		OM28 ²⁾
	R88M-1M2K020						OM18 ²⁾			OM19 ²⁾		OM19 ²⁾			OM20 ²⁾		OM31 ²⁾
Omron	R88M-1L4K030						OM21 ²⁾			OM22 ²⁾		OM22 ²⁾			OM23 ²⁾		OM34 ²⁾
	R88M-1L5K030						OM21 ²⁾			OM22 ²⁾		OM22 ²⁾			OM23 ²⁾		OM34 ²⁾
	R88M-1M3K020						OM21 ²⁾			OM22 ²⁾		OM22 ²⁾			OM23 ²⁾		OM34 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.4 Order code for position flange type ¹⁾ – cantilever axes HC-B

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
Schneider	BSH0553	SE01 ²⁾	SE01 ²⁾		SE02 ²⁾	SE02 ²⁾		SE10 ²⁾									
	BSH0701	SE23 ²⁾				SE03 ²⁾		SE07 ²⁾	SE07 ²⁾		SE16 ²⁾			SE26 ²⁾			
	BSH0702					SE03 ²⁾		SE07 ²⁾	SE07 ²⁾		SE16 ²⁾			SE26 ²⁾			
	BMH0701	SE23 ²⁾		SE03 ²⁾		SE03 ²⁾		SE07 ²⁾	SE07 ²⁾		SE16 ²⁾			SE26 ²⁾			
	BMH0702			SE03 ²⁾		SE03 ²⁾		SE07 ²⁾	SE07 ²⁾		SE16 ²⁾			SE26 ²⁾			
	BMH0703			SE04 ²⁾		SE04 ²⁾	SE08 ²⁾	SE08 ²⁾	SE08 ²⁾		SE12 ²⁾			SE27 ²⁾			
	BSH0551	SE01 ²⁾	SE01 ²⁾		SE02 ²⁾	SE02 ²⁾		SE10 ²⁾									
	BSH0552	SE01 ²⁾	SE01 ²⁾		SE02 ²⁾	SE02 ²⁾		SE10 ²⁾									
	BSH1001							SE09 ²⁾			SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾		SE28 ²⁾
	BSH1002						SE09 ²⁾	SE09 ²⁾			SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾		SE28 ²⁾
	BSH1003						SE09 ²⁾	SE09 ²⁾			SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾		SE28 ²⁾
	BSH1004						SE25 ²⁾				SE14 ²⁾			SE21 ²⁾			SE34 ²⁾
	BSH1401						SE24 ²⁾			SE15 ²⁾		SE15 ²⁾			SE19 ²⁾		SE31 ²⁾
	BMH1001						SE09 ²⁾	SE09 ²⁾			SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾		SE28 ²⁾
	BMH1002						SE09 ²⁾	SE09 ²⁾	SE13 ²⁾	SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾			SE28 ²⁾
	BMH1003						SE09 ²⁾	SE09 ²⁾	SE13 ²⁾	SE13 ²⁾	SE13 ²⁾		SE20 ²⁾	SE20 ²⁾			SE28 ²⁾
	BMH1401						SE24 ²⁾			SE15 ²⁾		SE15 ²⁾			SE19 ²⁾		SE31 ²⁾
	BSH0703			SE04 ²⁾		SE04 ²⁾		SE08 ²⁾	SE08 ²⁾		SE12 ²⁾			SE27 ²⁾			
	BSH1402									SE15 ²⁾		SE15 ²⁾			SE19 ²⁾		SE31 ²⁾
	BMH1402						SE24 ²⁾			SE15 ²⁾		SE15 ²⁾	SE19 ²⁾		SE19 ²⁾	SE31 ²⁾	SE31 ²⁾
	BMH1403									SE15 ²⁾		SE15 ²⁾	SE19 ²⁾		SE19 ²⁾	SE31 ²⁾	SE31 ²⁾
	BSH1403												SE19 ²⁾				
	BSH1404												SE19 ²⁾				
SEW	CMP40M	SW21 ²⁾	SW21 ²⁾		SW02 ²⁾	SW02 ²⁾		SW06 ²⁾									
	CMP50S	SW22 ²⁾		SW03 ²⁾		SW03 ²⁾		SW07 ²⁾	SW07 ²⁾		SW11 ²⁾			SW24 ²⁾			
	CMP50M			SW03 ²⁾		SW03 ²⁾		SW07 ²⁾	SW07 ²⁾		SW11 ²⁾			SW24 ²⁾			
	CMP40S	SW21 ²⁾	SW21 ²⁾		SW02 ²⁾	SW02 ²⁾		SW06 ²⁾									
	CMP50L			SW03 ²⁾		SW03 ²⁾		SW07 ²⁾	SW07 ²⁾		SW11 ²⁾			SW24 ²⁾			
	CMP63S			SW05 ²⁾		SW05 ²⁾		SW08 ²⁾	SW08 ²⁾		SW12 ²⁾			SW25 ²⁾			
	CMP63M					SW05 ²⁾	SW08 ²⁾	SW08 ²⁾	SW08 ²⁾		SW12 ²⁾			SW25 ²⁾			
	CMP63L						SW08 ²⁾		SW08 ²⁾		SW12 ²⁾			SW25 ²⁾			
	CMP71S						SW09 ²⁾					SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMP71M						SW09 ²⁾			SW13 ²⁾		SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMPZ71S						SW09 ²⁾			SW13 ²⁾		SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMP71L						SW09 ²⁾			SW13 ²⁾		SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMP80S									SW14 ²⁾							
	CMPZ71M						SW09 ²⁾			SW13 ²⁾		SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMPZ71L						SW09 ²⁾			SW13 ²⁾		SW13 ²⁾			SW17 ²⁾		SW26 ²⁾
	CMP80M									SW14 ²⁾							
	CMP80L												SW18 ²⁾				
	CMP100S									SW23 ²⁾			SW19 ²⁾				

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.4 Order code for position flange type ¹⁾ – cantilever axes HC-B

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
SEW	CMP100M												SW19 ²⁾			SW32 ²⁾	
	CMPZ80S									SW14 ²⁾			SW18 ²⁾			SW29 ²⁾	
	CMPZ80M									SW14 ²⁾			SW18 ²⁾			SW29 ²⁾	
	CMPZ80L												SW18 ²⁾			SW29 ²⁾	
	CMPZ100S									SW23 ²⁾			SW19 ²⁾			SW32 ²⁾	
	CMP100L												SW19 ²⁾			SW32 ²⁾	
	CMPZ100M												SW19 ²⁾			SW32 ²⁾	
	CMPZ100L												SW19 ²⁾			SW32 ²⁾	
Siemens	1FK2103-4	SM47 ²⁾				SM23 ²⁾		SM24 ²⁾	SM24 ²⁾			SM25 ²⁾		SM50 ²⁾			
	1FK2203-2	SM47 ²⁾				SM23 ²⁾		SM24 ²⁾	SM24 ²⁾			SM25 ²⁾		SM50 ²⁾			
	1FK2203-4	SM47 ²⁾				SM23 ²⁾		SM24 ²⁾	SM24 ²⁾			SM25 ²⁾		SM50 ²⁾			
	1FK7022	SM21 ²⁾	SM21 ²⁾		SM02 ²⁾	SM02 ²⁾		SM07 ²⁾									
	1FK7032	SM48 ²⁾		SM03 ²⁾		SM03 ²⁾		SM04 ²⁾	SM04 ²⁾		SM11 ²⁾			SM51 ²⁾			
	1FK7034			SM03 ²⁾		SM03 ²⁾		SM04 ²⁾	SM04 ²⁾		SM11 ²⁾			SM51 ²⁾			
	1FL6032-2	SM49 ²⁾				SM27 ²⁾		SM28 ²⁾	SM28 ²⁾			SM29 ²⁾		SM52 ²⁾			
	1FL6034-2	SM49 ²⁾				SM27 ²⁾		SM28 ²⁾	SM28 ²⁾			SM29 ²⁾		SM52 ²⁾			
	1FK2102-0		SM17 ²⁾		SM19 ²⁾	SM19 ²⁾		SM20 ²⁾									
	1FK2102-1		SM17 ²⁾		SM19 ²⁾	SM19 ²⁾		SM20 ²⁾									
	1FL6022-2		SM17 ²⁾		SM19 ²⁾	SM19 ²⁾		SM20 ²⁾									
	1FL6024-2		SM17 ²⁾		SM19 ²⁾	SM19 ²⁾		SM20 ²⁾									
	1FK2103-2	SM47 ²⁾				SM23 ²⁾		SM24 ²⁾	SM24 ²⁾			SM25 ²⁾		SM50 ²⁾			
	1FK2204-5								SM35 ²⁾		SM36 ²⁾			SM54 ²⁾			
	1FK2104-6								SM35 ²⁾		SM36 ²⁾			SM54 ²⁾			
	1FK2204-6						SM35 ²⁾		SM35 ²⁾		SM36 ²⁾			SM54 ²⁾			
	1FK2105-4						SM37 ²⁾		SM37 ²⁾		SM38 ²⁾	SM38 ²⁾		SM39 ²⁾	SM39 ²⁾		SM61 ²⁾
	1FK2105-6						SM37 ²⁾		SM37 ²⁾		SM38 ²⁾	SM38 ²⁾		SM39 ²⁾	SM39 ²⁾		SM61 ²⁾
	1FK2205-2						SM05 ²⁾		SM05 ²⁾		SM08 ²⁾	SM08 ²⁾		SM15 ²⁾	SM15 ²⁾		SM58 ²⁾
	1FK2205-4						SM05 ²⁾		SM05 ²⁾	SM08 ²⁾	SM08 ²⁾	SM08 ²⁾		SM15 ²⁾	SM15 ²⁾		SM58 ²⁾
	1FK2106-3						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK2106-4						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK2206-2						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK2206-4						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK7040						SM05 ²⁾		SM05 ²⁾		SM08 ²⁾	SM08 ²⁾		SM15 ²⁾	SM15 ²⁾		SM58 ²⁾
	1FK7042						SM05 ²⁾		SM05 ²⁾		SM08 ²⁾	SM08 ²⁾		SM15 ²⁾	SM15 ²⁾		SM58 ²⁾
	1FK7060						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK7062						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK7063						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FL6042-2							SM30 ²⁾		SM31 ²⁾			SM53 ²⁾				
	1FL6044-2							SM30 ²⁾		SM31 ²⁾			SM53 ²⁾				
	1FL6052-2						SM40 ²⁾		SM40 ²⁾		SM41 ²⁾	SM41 ²⁾		SM42 ²⁾	SM42 ²⁾		SM64 ²⁾
	1FL6054-2						SM40 ²⁾		SM40 ²⁾		SM41 ²⁾	SM41 ²⁾		SM42 ²⁾	SM42 ²⁾		SM64 ²⁾
	1FL6042-1						SM32 ²⁾		SM32 ²⁾		SM33 ²⁾	SM33 ²⁾		SM34 ²⁾	SM34 ²⁾		SM55 ²⁾
	1FL6044-1						SM32 ²⁾		SM32 ²⁾	SM33 ²⁾	SM33 ²⁾	SM33 ²⁾		SM34 ²⁾	SM34 ²⁾		SM55 ²⁾
	1FL6061-1						SM43 ²⁾			SM44 ²⁾		SM44 ²⁾			SM45 ²⁾		SM67 ²⁾
	1FL6062-1						SM43 ²⁾			SM44 ²⁾		SM44 ²⁾			SM45 ²⁾		SM67 ²⁾
	1FL6064-1						SM43 ²⁾			SM44 ²⁾		SM44 ²⁾			SM45 ²⁾		SM67 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.4 Order code for position flange type ¹⁾ – cantilever axes HC-B

Drive Manufacturer/Type		HC025B		HC040B			HC060B			HC080B			HC100B			HC150B	
		Only motor	With PLE40	Only motor	With PLE40	With PLQE60	Only motor	With PLQE60	With PLQE80	Only motor	With PLQE80	With PLQE120	Only Motor	With PLQE80	With PLQE120	Only Motor	With PLQE120
Siemens	1FK2104-4								SM35 ²⁾		SM36 ²⁾			SM54 ²⁾			
	1FK2104-5								SM35 ²⁾		SM36 ²⁾			SM54 ²⁾			
	1FK2106-6						SM06 ²⁾			SM09 ²⁾		SM09 ²⁾			SM12 ²⁾		SM70 ²⁾
	1FK2208-3									SM10 ²⁾			SM13 ²⁾			SM73 ²⁾	
	1FK2208-4									SM10 ²⁾			SM13 ²⁾			SM73 ²⁾	
	1FK7080									SM10 ²⁾							
	1FK7081									SM10 ²⁾			SM13 ²⁾				
	1FK7083									SM10 ²⁾			SM13 ²⁾			SM73 ²⁾	
	1FL6066-1						SM43 ²⁾			SM44 ²⁾		SM44 ²⁾	SM45 ²⁾		SM45 ²⁾		SM67 ²⁾
	1FL6067-1						SM43 ²⁾			SM44 ²⁾		SM44 ²⁾	SM45 ²⁾		SM45 ²⁾	SM67 ²⁾	SM67 ²⁾
	1FK2208-5									SM10 ²⁾			SM13 ²⁾			SM73 ²⁾	
	1FK2210-3												SM14 ²⁾			SM79 ²⁾	
	1FK2210-4												SM14 ²⁾			SM79 ²⁾	
	1FK2210-5												SM14 ²⁾			SM79 ²⁾	
	1FK7084									SM10 ²⁾			SM13 ²⁾			SM73 ²⁾	
	1FK7100												SM14 ²⁾			SM79 ²⁾	
	1FK7101												SM14 ²⁾			SM79 ²⁾	
	1FK7103												SM14 ²⁾			SM79 ²⁾	
	1FK7105												SM14 ²⁾			SM79 ²⁾	

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

22.1.5 Dimensions of motor adaptation of linear modules HM-B, linear tables HT-B, bridge axes HB-B, cantilever axes HC and double axes HD

The total width of linear axes with toothed belt drive depends on the following factors:

- Adaptation material (coupling housing KB, motor adapter plate AM, gear adapter plate AG, motor gear adapter plate GM)
- Gearbox
- Motor

Linear axis without gearbox

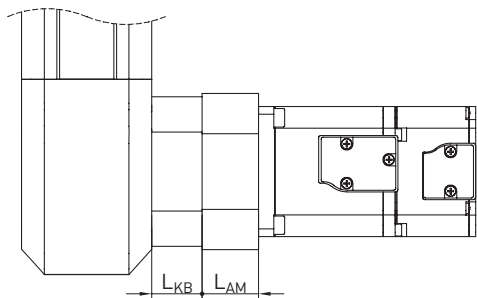


Fig. 22.6 Motor connection of linear module HM-B without gearbox

L_{KB} Length of coupling housing, see Table 22.5
 L_{AM} Length of motor adapter plate, see Table 22.6

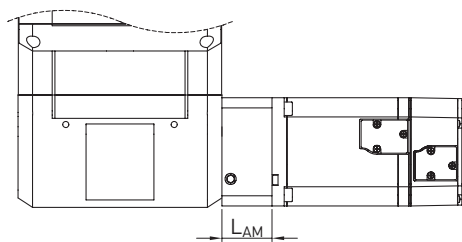


Fig. 22.7 Motor connection of linear table HT-B without gearbox

L_{AM} Length of motor adapter plate, see Table 22.7

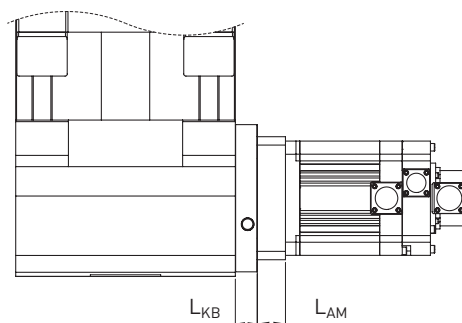


Fig. 22.8 Motor connection of bridge axis HB-B without gearbox

L_{KB} Length of coupling housing, see Table 22.5
 L_{AM} Length of motor adapter plate, see Table 22.6

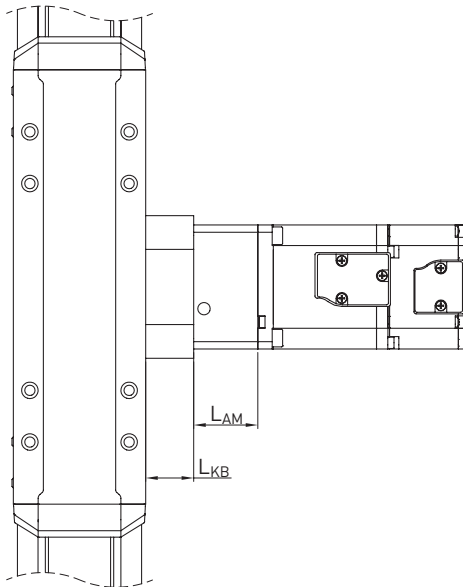


Fig. 22.9 Motor connection of cantilever axis HC without gearbox

L_{KB} Length of coupling housing, see Table 22.5
 L_{AM} Length of motor adapter plate, see Table 22.6

Linear axis with gearbox

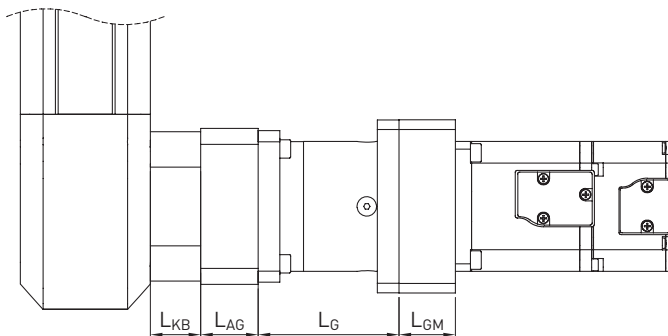


Fig. 22.10 Motor connection of linear module HM-B with gearbox

L_{KB} Length of coupling housing, see Table 22.5
 L_{AG} Length of gearbox adapter plate, see Table 22.9
 L_G Length of gearbox, see Table 22.11
 L_{GM} Length of motor gearbox adapter plate, see Table 22.10

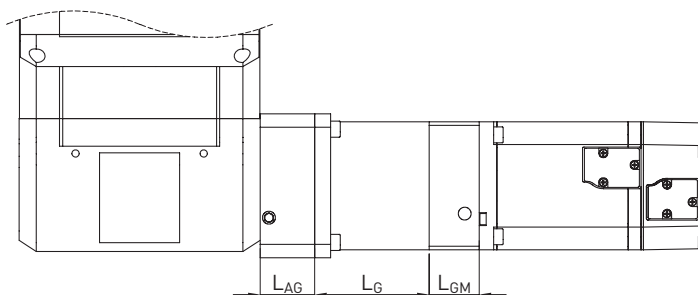


Fig. 22.11 Motor connection of linear table HT-B with gearbox

L_{AG} Length of gearbox adapter plate, see Table 22.9
 L_G Length of gearbox, see Table 22.11
 L_{GM} Length of motor gearbox adapter plate, see Table 22.10

Linear axes and axis systems HX

Drive adaptation

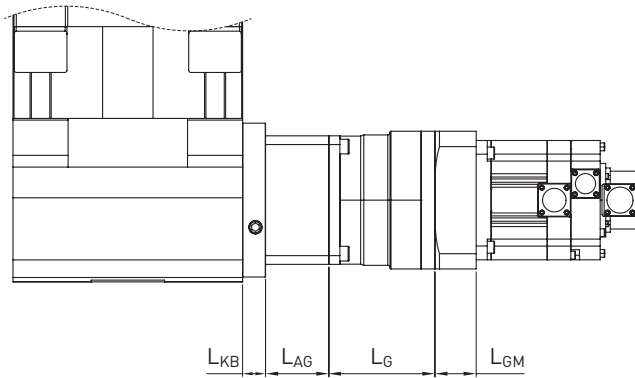


Fig. 22.12 Motor connection of bridge axis HB-B with gearbox

L_{KB} Length of coupling housing, see Table 22.5
L_{AG} Length of gearbox adapter plate, see Table 22.9
L_G Length of gearbox, see Table 22.11
L_{GM} Length of motor gearbox adapter plate, see Table 22.10

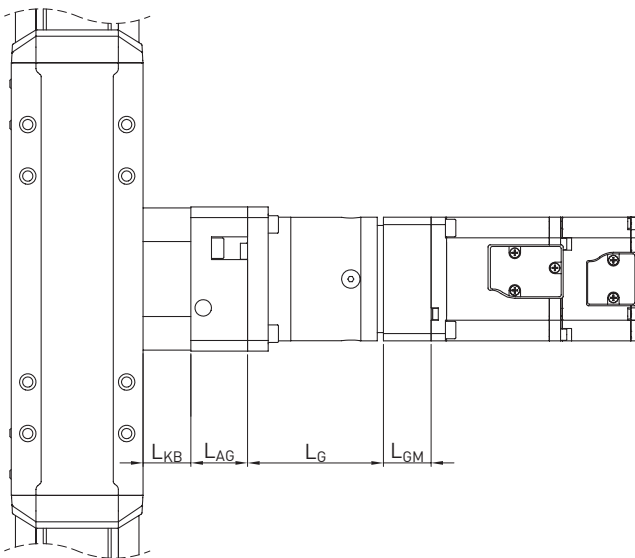


Fig. 22.13 Motor connection of cantilever axis HC with gearbox

L_{KB} Length of coupling housing, see Table 22.5
L_{AG} Length of gearbox adapter plate, see Table 22.9
L_G Length of gearbox, see Table 22.11
L_{GM} Length of motor gearbox adapter plate, see Table 22.10

22.1.5.1 Coupling housing KB for linear modules HM-B and cantilever axes HC

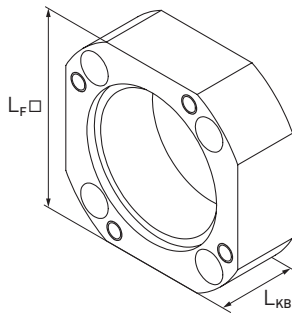


Fig. 22.14 Coupling housing KB for linear modules HM-B and cantilever axes HC

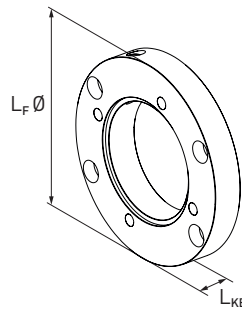


Fig. 22.15 Coupling housing KB for bridge axes HB-B

Table 22.5 Dimensions of coupling housing KB for linear modules HM-B and cantilever axes HC

Coupling housing for	L _F [mm]	L _{KB} [mm]	Article number
HC025B	50	17.0	25-002045
HM040B, HC040B	47	14.7	25-000798
HM060B, HC060B	69	23.2	25-000799
HM080B, HC080B	84	24.1	25-000800
HC100B	107	25.0	80043137
HM120B	118	25.0	25-000801
HB-B	167.5	25.0	80073546

22.1.5.2 Motor adapter plate AM for linear modules HM-B, linear tables HT-B and cantilever axes HC without gearbox

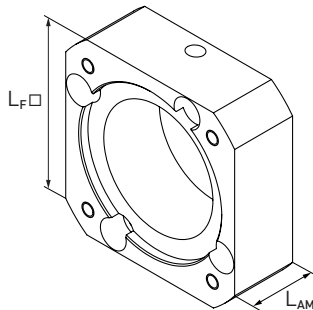


Fig. 22.16 Motor adapter plate AM for linear modules HM-B, linear tables HT-B and cantilever axes HC without gearbox

Table 22.6 Motor adapter plate AM for linear modules HM-B and cantilever axes HC-B without gearbox

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HC025B	HIWIN	EM1-C-M-10-2	50	27,3	25-002722
		EM1-C-M-20-2, EM1-C-M-40-2	60	32,3	80094829
	B&R	8LSA24, 8LSA25	60	26,3	80094837
		8LSA33, 8LSA34	90	32,3	80094838
	Beckhoff	AM8022	58	22,3	80094839
		AM8031, AM8531	75	32,3	80094842
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B, MSK030C	58	22,3	80054104
		MS2N04-B0, MSK040B	82	32,3	80094870
	Lenze	MCS06F	70	25,3	80094873
	Omron	R88M-1M10030	50	27,3	25-002722
		R88M-1M20030, R88M-1M40030	60	32,3	25-002720
	Schneider	BSH0551, BSH0552, BSH0553	58	22,3	80094839
		BSH0701, BMH0701	70	25,3	80094873

Linear axes and axis systems HX

Drive adaptation

Table 22.6 Motor adapter plate AM for linear modules HM-B and cantilever axes HC-B without gearbox					
Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HC025B	SEW	CMP40S, CMP40M	58	22,3	80054104
		CMP50S	70	25,3	80094873
	Siemens	1FK2103-2, 1FK2103-4, 1FK2203-2, 1FK2203-4	60	32,3	80094829
		1FK7022	58	22,3	80094839
		1FK7032	72	32,3	80094884
		1FL6032-2, 1FL6034-2	60	33,3	80094888
HM040B	HIWIN	EM1-C-M-20-2	60	30,5	25-000404
	B&R	8LSA24, 8LSA25	58	24,5	25-000403
	Beckhoff	AM8022	55	20,5	25-000402
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B, MSK030C	58	20,5	80052243
	Lenze	MCS06F, MCS06I	62	23,5	25-000406
	Omron	R88M-1M20030	60	30,5	25-000646
	Schneider	BSH0553	55	20,5	25-000402
		BSH0701, BSH0702	62	23,5	25-000406
	SEW	CMP40M	58	20,5	80052243
	Siemens	1FK2103-4, 1FK2203-2, 1FK2203-4	60	30,5	25-000404
		1FK7022	55	20,5	25-000402
		1FL6032-2, 1FL6034-2	60	31,5	80094892
HM040B, HC040B	HIWIN	EM1-C-M-40-2	60	30,5	25-000404
	B&R	8LSA33, 8LSA34, 8LSA35	82	30,5	25-000411
	Beckhoff	AM8023	55	20,5	25-000402
		AM8031, AM8531	70	30,5	25-000407
	Bosch	MS2N03-D0	54	23,5	25-000401
		MS2N04-B0, MSK040B, MSK040C	82	30,5	25-000405
	Omron	R88M-1M40030	60	30,5	25-000646
	Schneider	BMH0701, BMH0702	62	23,5	25-000406
		BMH0703	70	30,5	25-000407
	SEW	CMP50S, CMP50M	62	23,5	25-000406
	Siemens	1FK7032, 1FK7034	72	30,5	25-000408
HM060B	HIWIN	EM1-C-M-75-2	80	37	25-000421
	B&R	8LSA34, 8LSA35	86	27	25-000423
	Beckhoff	AM8032, AM8033	70	27	25-000418
		AM8041	87	37	25-000424
	Bosch	MS2N04-B0, MS2N04-C0, MSK040B, MSK040C, MSK043C	82	27	25-000415
	Lenze	MCS09D, MCS09F	86	27	25-000423
	Omron	R88M-1L75030	100	52	25-001858
	Schneider	BSH1001	98	37	25-000425
		BMH0701, BMH0702	72	20	25-000417
	SEW	CMP50M, CMP50L	72	20	25-000417
		CMP63S	86	27	25-000423
	Siemens	1FK2204-5, 1FK2104-6	80	37	25-000421
		1FK7032, 1FK7034	72	27	25-000419
		1FL6042-2, 1FL6044-2	80	32	80018736
HM060B, HC060B	HIWIN	EM1-A-M-1K-2, EM1-D-M-1A-2, EM1-D-M-2K-2	130	52	25-001791
	B&R	8LSA43, 8LSA44, 8LSA45, 8LSA46	98	37	25-000425
		8LSA53, 8LSA54, 8LSA55, 8LSN54	140	47	80094960
		8LSN43, 8LSN44, 8LSN45, 8LSN46	116	37	25-000430
	Beckhoff	AM8531, AM8532, AM8533	70	27	25-000418
		AM8042, AM8043, AM8541, AM8542, AM8543	87	37	25-000424
		AM8051, AM8052, AM8551, AM8552	104	47	25-000427

Table 22.6 Motor adapter plate AM for linear modules HM-B and cantilever axes HC-B without gearbox

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HM060B, HC060B	Bosch	MS2N04-D0	82	27	25-000415
		MS2N05-B0, MS2N05-C0, MS2N05-D0, MSK050B, MSK050C	98	37	25-000425
		MS2N06-B1, MS2N06-C0, MS2N06-D0, MS2N06-D1, MSK060B, MSK060C	116	47	25-000429
		MSK061B, MSK061C	116	37	25-000428
	Lenze	MCS09H, MCS09L	86	27	25-000423
		MCS12D, MCS12H	116	37	25-000430
	Omron	R88M-1M75030	80	32	25-002598
		R88M-1L1K030, R88M-1L1K530, R88M-1L2K030, R88M-1M40020, R88M-1M60020	100	52	25-001858
		R88M-1L3K030, R88M-1M1K020, R88M-1M1K520, R88M-1M2K020	130	52	25-001791
	Schneider	BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	98	37	25-000425
		BSH1004	104	47	25-000427
		BSH1401, BMH1401	140	47	80094960
		BMH0703	70	27	25-000418
	SEW	CMP63M, CMP63L	86	27	25-000423
		CMP71S, CMP71M, CMPZ71S	116	47	25-000431
	Siemens	1FK2204-6	80	37	25-000421
		1FK2105-4, 1FK2105-6	98	37	25-000425
		1FK2205-2, 1FK2205-4, 1FK7040, 1FK7042	87	37	25-000424
		1FK2106-3, 1FK2106-4, 1FK2206-2, 1FK2206-4, 1FK7060, 1FK7062, 1FK7063	116	47	25-000431
		1FL6052-2, 1FL6054-2	104	42	25-002487
		1FL6042-1, 1FL6044-1	87	32	25-001241
		1FL6061-1, 1FL6062-1, 1FL6064-1	130	55	25-001876
HM080B, HC080B	HIWIN	EM1-A-M-1K-2, EM1-D-M-1A-2, EM1-D-M-2K-2	130	51,5	25-000450
	B&R	8LSA46	98	36,5	25-000442
		8LSA54, 8LSA55, 8LSA56, 8LSA57, 8LSN54, 8LSN55, 8LSN56	138	46,5	80095110
		8LSA63	190	46,5	80095001
		8LSN43, 8LSN44, 8LSN45, 8LSN46	116	36,5	25-002891
	Beckhoff	AM8541, AM8542, AM8543	87	36,5	25-000441
		AM8052, AM8053, AM8551, AM8552, AM8553	100	46,5	80094982
		AM8061, AM8062, AM8561	139	54,5	25-000452
	Bosch	MS2N05-D0	98	36,5	25-000442
		MS2N06-B1, MS2N06-C0, MS2N06-D0, MS2N06-D1, MS2N06-E0, MSK060B, MSK060C	116	46,5	80052246
		MS2N07-B1, MS2N07-C1, MSK070C, MSK070D, MSK070E, MSK071C, MSK075C	139	54,5	25-000452
		MSK061B, MSK061C	116	36,5	25-000445
		MSK076C	139	46,5	25-000451
	Lenze	MCS12D, MCS12H, MCS12L	116	36,5	25-002891
		MCS14D, MCS14H	138	46,5	80095110
	Omron	R88M-1L3K030, R88M-1M1K020, R88M-1M1K520, R88M-1M2K020	130	51,5	25-000450
		R88M-1L4K030, R88M-1L5K030, R88M-1M3K020	130	61,5	80065594
		R88M-1M60020	100	51,5	25-000444
	Schneider	BSH1401, BSH1402, BMH1401, BMH1402, BMH1403	138	46,5	80095110
		BMH1002, BMH1003	98	36,5	25-000442
	SEW	CMP71M, CMP71L, CMPZ71S, CMPZ71M, CMPZ71L	125	46,5	80063703
		CMP80S	138	56,5	25-000453
	Siemens	1FK2205-4	87	36,5	25-000441
		1FK2106-3, 1FK2106-4, 1FK2106-6, 1FK2206-2, 1FK2206-4, 1FK7060, 1FK7062, 1FK7063	125	46,5	80063703
		1FK2208-3, 1FK2208-4, 1FK7080, 1FK7081, 1FK7083	139	54,5	25-000452
		1FL6044-1	87	31,5	80094965
		1FL6061-1, 1FL6062-1, 1FL6064-1, 1FL6066-1, 1FL6067-1	130	54,5	25-002727

Linear axes and axis systems HX

Drive adaptation

Table 22.6 **Motor adapter plate AM for linear modules HM-B and cantilever axes HC-B without gearbox**

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HC100B	Bosch	MS2N10-D1, MS2N10-E0	192	75,7	25-000466
	SEW	CMP100L, CMPZ100M, CMPZ100L	163	55,7	25-000463
	Siemens	1FK7105	192	75,7	25-000466
HC150B	B&R	8LSN55, 8LSN56, 8LSN57	145	45,5	80098625
	Beckhoff	AM8063, AM8561, AM8562, AM8563	145	53,5	80098643
		AM8071, AM8072, AM8073	195	75,5	80098691
	Bosch	MS2N07-C1, MS2N07-D1, MS2N07-E0, MS2N07-E1, MSK070C, MSK070D, MSK070E, MSK071D, MSK071E, MSK075C, MSK075D, MSK075E	145	53,5	80098643
		MS2N10-B1, MS2N10-C0, MS2N10-C1, MS2N10-D0, MS2N10-D1, MS2N10-E0, MS2N10-E1, MS2N10-F0, MS2N10-F1, MS2N10-R0	195	75,5	80098691
		MSK076C	145	45,5	80098698
		MSK100A	185	55,5	80098714
	Lenze	MCS14L, MCS14P	145	45,5	80098625
		MCS19F	195	55,5	80098721
	Schneider	BMH1402, BMH1403	145	45,5	80098625
	SEW	CMP100M, CMP100L, CMPZ100S, CMPZ100M, CMPZ100L	175	55,5	80098739
		CMPZ80S, CMPZ80M, CMPZ80L	145	55,5	80098755
	Siemens	1FK2208-3, 1FK2208-4, 1FK2208-5, 1FK7083, 1FK7084	145	53,5	80098643
		1FK2210-3, 1FK2210-4, 1FK2210-5, 1FK7100, 1FK7101, 1FK7103, 1FK7105	195	75,5	80098691
		1FL6067-1	130	53,5	80098767
		1FL6090-1, 1FL6092-1, 1FL6094-1	175	75,5	80098783
HM120B	HIWIN	EM1-D-M-2K-2	130	50,7	25-000647
	B&R	8LSA57, 8LSN54	140	45,7	25-000459
		8LSA64, 8LSA65	190	45,7	25-000464
	Beckhoff	AM8553	104	45,7	25-000456
	Bosch	MS2N06-D1	116	45,7	80052247
	Lenze	MCS14H	140	45,7	25-000459
	Omron	R88M-1M2K020	130	50,7	25-000647
		R88M-1M3K020	130	60,7	80095018
	Schneider	BSH1402, BMH1401	140	45,7	25-000459
	SEW	CMP80M	138	55,7	25-000460
		CMPZ71L	116	45,7	25-000457
	Siemens	1FK2206-4, 1FK7063	116	45,7	25-000457
		1FK7080	138	53,7	80095040
		1FL6064-1	130	53,7	25-002729
HM120B-H	B&R	8LSA66	195	24	80098859
		8LSN55, 8LSN56, 8LSN57	145	24	80098897
	Beckhoff	AM8062, AM8063, AM8561, AM8562, AM8563	140	32	80098805
		AM8071, AM8072	195	54	80098817
	Bosch	MS2N07-B1, MS2N07-C1, MS2N07-D0, MS2N07-D1, MS2N07-E0, MS2N07-E1, MSK070C, MSK070D, MSK070E, MSK071C, MSK071D, MSK071E, MSK075C, MSK075D, MSK075E	140	32	80098805
		MS2N10-B1, MS2N10-C0, MS2N10-C1	195	54	80098817
		MSK076C	145	24	80098936
		MSK100A	185	34	80098827
	Lenze	MCS14L, MCS14P	145	24	80098897
		MCS19F	195	34	80098832
	Schneider	BSH1403, BSH1404, BMH1402, BMH1403	145	24	80098897
	SEW	CMP80L, CMPZ80S, CMPZ80M, CMPZ80L	145	34	80098914
		CMP100S, CMP100M, CMPZ100S	175	34	80098848

Table 22.6 **Motor adapter plate AM for linear modules HM-B and cantilever axes HC-B without gearbox**

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HM120B-H	Siemens	1FK2208-3, 1FK2208-4, 1FK2208-5, 1FK7081, 1FK7083, 1FK7084	140	32	80098805
		1FK2210-3, 1FK2210-4, 1FK2210-5, 1FK7100, 1FK7101, 1FK7103	195	54	80098817
		1FL6066-1, 1FL6067-1	145	32	80098929
		1FL6090-1, 1FL6092-1, 1FL6094-1	175	54	80098850

Table 22.7 **Motor adapter plate AM for linear tables HT-B without gearbox**

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HT100B	HIWIN	EM1-C-M-40-2	60	30,5	25-000404
	Beckhoff	AM8023	55	20,5	25-000402
		AM8031, AM8032, AM8033, AM8531, AM8532, AM8533	70	30,5	25-000407
	Bosch	MS2N03-D0	54	23,5	25-000401
		MS2N04-B0, MS2N04-C0, MS2N04-D0, MSK040B, MSK040C, MSK043C	82	30,5	25-000405
	Omron	R88M-1M40030	60	30,5	25-000646
	Schneider	BSH0702, BMH0701, BMH0702	62	23,5	25-000406
		BSH0703, BMH0703	70	30,5	25-000407
	SEW	CMP50S, CMP50M, CMP50L	62	23,5	25-000406
	Siemens	1FK2203-4	60	30,5	25-000404
		1FK7032, 1FK7034	72	30,5	25-000408
		1FL6034-2	60	31,5	80094892
HT150B	HIWIN	EM1-A-M-1K-2, EM1-D-M-1A-2, EM1-D-M-2K-2	130	51,5	25-000450
	B&R	8LSA43, 8LSA44, 8LSA45, 8LSA46	98	36,5	25-000442
		8LSN43, 8LSN44, 8LSN45, 8LSN46	116	36,5	25-002891
	Beckhoff	AM8531, AM8532, AM8533	73	26,5	25-000436
		AM8042, AM8043, AM8541, AM8542, AM8543	87	36,5	25-000441
		AM8051, AM8052, AM8053, AM8551, AM8552, AM8553	100	46,5	80094982
	Bosch	MS2N04-D0	82	26,5	25-000433
		MS2N05-B0, MS2N05-C0, MS2N05-D0, MSK050B, MSK050C	98	36,5	25-000442
		MS2N06-B1, MS2N06-C0, MS2N06-D0, MS2N06-D1, MS2N06-E0, MSK060B, MSK060C	116	46,5	80052246
		MSK061B, MSK061C	116	36,5	25-000445
	Lenze	MCS09F, MCS09H, MCS09L	86	26,5	25-000440
		MCS12D, MCS12H, MCS12L	116	36,5	25-002891
	Omron	R88M-1M75030	80	31,5	25-002256
		R88M-1L1K030, R88M-1L1K530, R88M-1L2K030, R88M-1M40020, R88M-1M60020	100	51,5	25-000444
		R88M-1L3K030, R88M-1M1K020, R88M-1M1K520, R88M-1M2K020	130	51,5	25-000450
		R88M-1L4K030, R88M-1L5K030, R88M-1M3K020	130	61,5	80065594
	Schneider	BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	98	36,5	25-000442
		BSH1004	100	46,5	80094982
		BMH0703	73	26,5	25-000436
	SEW	CMP63M, CMP63L	86	26,5	25-000440
		CMP71S, CMP71M, CMP71L, CMPZ71S, CMPZ71M, CMPZ71L	125	46,5	80063703
		CMP80S	138	56,5	25-000453
	Siemens	1FK2204-6	80	36,5	25-000438
		1FK2105-4, 1FK2105-6	98	36,5	25-000442
		1FK2205-2, 1FK2205-4, 1FK7040, 1FK7042	87	36,5	25-000441
		1FK2106-3, 1FK2106-4, 1FK2106-6, 1FK2206-2, 1FK2206-4, 1FK7060, 1FK7062, 1FK7063	125	46,5	80063703
		1FL6052-2, 1FL6054-2	100	41,5	80094968
		1FL6042-1, 1FL6044-1	87	31,5	80094965
		1FL6061-1, 1FL6062-1, 1FL6064-1, 1FL6066-1, 1FL6067-1	130	54,5	25-002727

Linear axes and axis systems HX

Drive adaptation

Table 22.7 Motor adapter plate AM for linear tables HT-B without gearbox					
Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HT200B	HIWIN	EM1-A-M-1K-2, EM1-D-M-1A-2	130	50,7	25-000647
		8LSA46	100	35,7	80095046
		8LSA54, 8LSA55	140	45,7	25-000459
		8LSA63	190	45,7	25-000464
		8LSN43, 8LSN44	116	35,7	80095050
	Beckhoff	AM8541, AM8542, AM8543	95	35,7	80095052
		AM8053, AM8551	104	45,7	25-000456
	Bosch	MS2N06-B1, MS2N06-D0, MS2N06-E0, MSK060B, MSK060C	116	45,7	80052247
		MSK061B, MSK061C	116	35,7	80095056
	Lenze	MCS12H	116	35,7	80095050
		MCS14D	140	45,7	25-000459
	Omron	R88M-1L3K030, R88M-1M1K020, R88M-1M1K520	130	50,7	25-000647
		R88M-1L4K030	130	60,7	80095018
	Schneider	BSH1401	140	45,7	25-000459
		BMH1002	100	35,7	80095046
	SEW	CMP71L	116	45,7	25-000457
		CMP80S	138	55,7	25-000460
	Siemens	1FK2205-4	95	35,7	80095052
		1FK2106-3, 1FK2106-4, 1FK2106-6, 1FK2206-2, 1FK7060	116	45,7	25-000457
		1FL6044-1	100	35,7	80095062
		1FL6061-1	130	53,7	25-002729
HT250B	Beckhoff	AM8071, AM8072	192	75,7	25-000466
	Bosch	MS2N10-B1, MS2N10-C0, MS2N10-C1, MS2N10-D0	192	75,7	25-000466
		MSK100A	192	55,7	80095045
	Lenze	MCS19F	190	55,7	25-000465
	Schneider	BSH1404	140	45,7	25-000459
	SEW	CMP100M, CMPZ100S	163	55,7	25-000463
		CMPZ80L	138	55,7	25-000460
	Siemens	1FK2210-3, 1FK2210-4, 1FK2210-5, 1FK7100, 1FK7101, 1FK7103	192	75,7	25-000466

Table 22.8 Motor adapter plate AM for bridge axes HB-B without gearbox					
Bridge axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HB250B	Beckhoff	AM8562, AM8563	140	32	80098805
		AM8072, AM8073	195	54	80098817
	Bosch	MS2N07-D1, MS2N07-E1, MSK075E	140	32	80098805
		MS2N10-B1, MS2N10-C1, MS2N10-D0, MS2N10-D1, MS2N10-E0, MS2N10-E1, MS2N10-F0, MS2N10-F1, MS2N10-R0	195	54	80098817
		MSK100A	185	34	80098827
	Lenze	MCS19F	195	34	80098832
	SEW	CMPZ100S, CMPZ100M, CMPZ100L	175	34	80098848
	Siemens	1FK2210-3, 1FK2210-4, 1FK2210-5, 1FK7100, 1FK7101, 1FK7103, 1FK7105	195	54	80098817
		1FL6092-1, 1FL6094-1	175	54	80098850

22.1.5.3 Gearbox adapter plate AG for linear modules HM-B, linear tables HT-B and cantilever axes HC

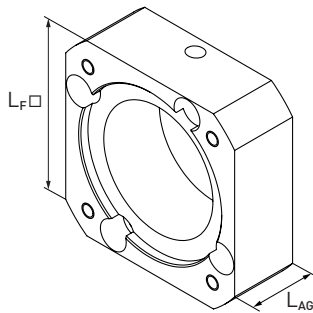


Fig. 22.17 Gearbox adapter plate AG for linear modules HM-B, linear tables HT-B and cantilever axes HC

Table 22.9 Gearbox adapter plate AG for linear modules HM-B, linear tables HT-B and cantilever axes HC

Linear axis	Gearbox ²⁾	L _F [mm]	L _{AG} [mm]	Article number
HC025B	PLE040 ¹⁾	50	27.0	25-002609
HM040B, HT100B, HC040B	PLE040 ¹⁾	50	23.0	25-000735
HM040B, HT100B, HC040B	PLQE60	70	32.8	25-000387
HM060B, HC060B	PLQE60	70	27.5	25-000388
HM060B, HC060B	PLQE80	90	37.0	25-000389
HM080B, HT150B, HC080B	PLQE80	90	35.0	25-000390
HM080B, HT150B, HC080B	PLQE120	115	47.5	25-000391
HM120B, HT200B, HT250B, HC100B	PLQE120	115	43.6	25-000392

¹⁾ Adapter consists of two parts

²⁾ PLE and PLQE are registered trademarks of Neugart GmbH

22.1.5.4 Motor gearbox adapter plate GM for linear modules HM-B, linear tables HT-B and cantilever axes HC

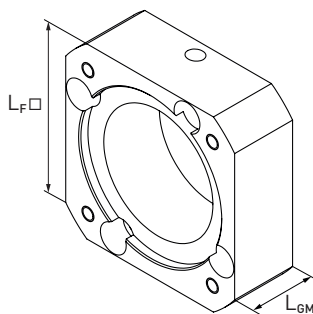


Fig. 22.18 Motor gearbox adapter plate GM for linear modules HM-B, linear tables HT-B and cantilever axes HC

Table 22.10 Motor gearbox adapter plate GM for linear modules HM-B, linear tables HT-B and cantilever axes HC

Gearbox	Manufacturer	Motors	L _F [mm]	L _{GM} [mm]	Article number
PLE40	HIWIN	EM1-C-M-05-2, EM1-C-M-10-2	40	19	25-002320
	B&R	8LSA24, 8LSA25	60	18.0	25-000481
	Beckhoff	AM8022D, AM8022E, AM8023E, AM8023F	60	15.0	25-000478
	Bosch	MSK030B, MSK030C	60	15.0	25-000480
	Schneider	BSH0551, BSH0552, BSH0553	60	15.0	25-000478
	SEW	CMP40S, CMP40M	60	15.0	25-000480
	Siemens	1FK7022	60	15.0	25-000478

PLE and PLQE are registered trademarks of Neugart GmbH

Linear axes and axis systems HX

Drive adaptation

Table 22.10 Motor gearbox adapter plate GM for linear modules HM-B, linear tables HT-B and cantilever axes HC

Gearbox	Manufacturer	Motors	L _F [mm]	L _{GM} [mm]	Article number
PLQE60	HIWIN	EM1-C-M-05-2, EM1-C-M-10-2	60	18.1	25-002298
		EM1-C-M-20-2, EM1-C-M-40-2	60	23.1	25-000486
	B&R	8LSA24, 8LSA25	60	17.1	25-000490
		8LSA33, 8LSA34, 8LSA35	90	23.1	25-000487
	Beckhoff	AM8031D, AM8031F, AM8032D, AM8032E, AM8032H, AM8033E, AM8033F, AM8033J, AM8531D, AM8531F, AM8532D, AM8532E, AM8532H, AM8533E, AM8533F, AM8533J	70	23.1	25-000484
		AM8022D, AM8022E, AM8023E, AM8023F	60	16.0	25-000482
	Bosch	MSK040B, MSK040C, MSK043C	80	23.1	25-000489
		MSK030B, MSK030C	60	16.0	25-000488
	Lenze	MCS06F41, MCS06F60, MCS06I41, MCS06I60	70	16.1	25-000483
		MCS09D41, MCS09D60, MCS09F38, MCS09F60	90	23.1	25-000487
	Schneider	BSH0701, BSH0702, BMH0701, BMH0702	70	16.1	25-000483
		BSH0703, BMH0703	70	23.1	25-000484
		BSH0551, BSH0552, BSH0553	60	16.0	25-000482
	SEW	CMP50S, CMP50M, CMP50L	70	16.1	25-000483
		CMP63S, CMP63M	90	23.1	25-000487
		CMP40S, CMP40M	60	16.0	25-000488
	Siemens	1FK7022	60	16.0	25-000482
		1FK7032, 1FK7034	70	23.1	25-000485
PLQE80	HIWIN	EM1-C-M-20-2, EM1-C-M-40-2	80	21.2	25-000494
		EM1-C-M-75-2	80	31.2	25-000495
	B&R	8LSA33, 8LSA34, 8LSA35	90	21.2	25-000496
	Beckhoff	AM8041D, AM8041E, AM8041H, AM8042E, AM8042F, AM8042J, AM8043E, AM8043H, AM8043K, AM8541D, AM8541E, AM8541H, AM8542E, AM8542F, AM8542J, AM8543E, AM8543H, AM8543K	90	21.2	25-000493
		AM8031D, AM8031F, AM8032D, AM8032E, AM8032H, AM8033E, AM8033F, AM8033J, AM8531D, AM8531F, AM8532D, AM8532E, AM8532H, AM8533E, AM8533F, AM8533J	80	21.2	25-000498
	Bosch	MSK050B, MSK050C	100	31.2	25-000492
		MSK040B, MSK040C, MSK043C	80	21.2	25-000497
		MSK061B, MSK061C	115	31.2	25-000500
	Lenze	MCS09D41, MCS09D60, MCS09F38, MCS09F60, MCS09H41, MCS09H60, MCS09L41, MCS09L51	115	31.2	25-000499
		MCS06F41, MCS06F60, MCS06I41, MCS06I60	80	21.2	25-000498
		MCS12D20, MCS12D41, MCS12H15, MCS12H35, MCS12L20, MCS12L41	115	31.2	25-000499
	Schneider	BSH1001, BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	100	31.2	25-000492
		BSH0701, BSH0702, BSH0703, BMH0701, BMH0702, BMH0703	80	21.2	25-000498
	SEW	CMP63S, CMP63M, CMP63L	90	21.2	25-000496
		CMP50S, CMP50M, CMP50L	80	21.2	25-000498
	Siemens	1FK7032, 1FK7034	80	21.2	25-000491
		1FK7040, 1FK7042	90	21.2	25-000493
PLQE120	HIWIN	EM1-A-M-1K-2	130	36.8	25-000690
	Beckhoff	AM8041D, AM8041E, AM8041H, AM8042E, AM8042F, AM8042J, AM8043E, AM8043H, AM8043K, AM8541D, AM8541E, AM8541H, AM8542E, AM8542F, AM8542J, AM8543E, AM8543H, AM8543K	115	21.8	25-000504
		AM8051E, AM8051G, AM8051K, AM8052F, AM8052J, AM8052L, AM8053G, AM8053K, AM8053N, AM8551E, AM8551G, AM8551K, AM8552F, AM8552J, AM8552L, AM8553G, AM8553K, AM8553N	115	31.8	25-000502
	Bosch	MSK060B, MSK060C	115	31.8	25-000509
		MSK061B, MSK061C	115	21.8	25-000508
		MSK076C, MSK100A	140	31.8	25-000506
		MSK050B, MSK050C	115	21.8	25-000501
	Lenze	MCS12D20, MCS12D41, MCS12H15, MCS12H35, MCS12L20, MCS12L41	115	21.8	25-000507
		MCS14D15, MCS14D36, MCS14H15, MCS14H32, MCS14L15, MCS14L32	140	31.8	25-000503

PLE and PLQE are registered trademarks of Neugart GmbH

Table 22.10 Motor gearbox adapter plate GM for linear modules HM-B, linear tables HT-B and cantilever axes HC

Gearbox	Manufacturer	Motors	L _F [mm]	L _{GM} [mm]	Article number
PLQE120	Schneider	BSH1001, BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	115	21.8	25-000501
		BSH1401, BSH1402, BSH1403, BMH1401, BMH1402, BMH1403	140	31.8	25-000503
		BSH1004	115	31.8	25-000502
	SEW	CMP71S, CMP71M, CMP71L, CMPZ71S, CMPZ71M, CMPZ71L	115	31.8	25-000505
	Siemens	1FK7060, 1FK7062, 1FK7063	115	31.8	25-000505
		1FK7040, 1FK7042	115	21.8	25-000504

PLE and PLQE are registered trademarks of Neugart GmbH

22.1.5.5 Gearboxes for linear modules HM-B, linear tables HT-B, cantilever axes HC and double axes HD

Gearbox¹⁾ for optimal power transmission of the motor to the toothed belt drive.

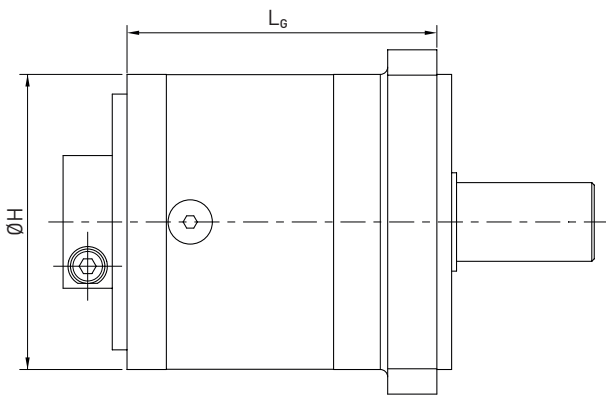


Fig. 22.19 Gearbox dimensioned drawing for linear modules HM-B, linear tables HT-B, cantilever axes HC and double axes HD

Table 22.11 Gearbox for linear modules HM-B, linear tables HT-B, cantilever axes HC and double axes HD

Linear axis	Ratio i	Ø H [mm]	L _G [mm]	Max. Ø motor shaft [mm]	Gearbox	Order code for position gearbox ²⁾
HM040B, HD1, HT100B, HC040B	3	40	48.5	9 [11] ³⁾	PLE40-3	G0403
	5	40	48.5	9 [11] ³⁾	PLE40-5	G0405
	8	40	48.5	9 [11] ³⁾	PLE40-8	G0408
	12	40	61.5	9 [11] ³⁾	PLE40-12	G0412
HM060B, HM060B, HD1, HD2, HT100B, HC060B, HC060B	3	60	63.0	14 [19] ³⁾	PLQE60-3	G0603
	5	60	63.0	14 [19] ³⁾	PLQE60-5	G0605
	8	60	63.0	14 [19] ³⁾	PLQE60-8	G0608
	12	60	75.5	14 [19] ³⁾	PLQE60-12	G0612
HM060B, HM080B, HD2, HD3, HT150B, HC060B, HC080B	3	80	83.5	19 [24] ³⁾	PLQE80-3	G0803
	5	80	83.5	19 [24] ³⁾	PLQE80-5	G0805
	8	80	83.5	19 [24] ³⁾	PLQE80-8	G0808
	12	80	101.0	19 [24] ³⁾	PLQE80-12	G0812
HM080B, HM120B, HD3, HD4, HT150B, HT200B, HT250B, HC080B, HC100B	3	115	124.5	24 [35] ³⁾	PLQE120-3	G1203
	5	115	124.5	24 [35] ³⁾	PLQE120-5	G1205
	8	115	124.5	24 [35] ³⁾	PLQE120-8	G1208
	12	115	152.5	24 [35] ³⁾	PLQE120-12	G1212

¹⁾ Economy series PLE/PLQE, registered trademarks of Neugart GmbH

²⁾ See order code Page 25 for linear modules HM-B, Page 45 linear tables HT-B, Page 87 cantilever axes HC and Page 105 double axes HD

³⁾ Values in brackets possible on request.

Linear axes and axis systems HX

Drive adaptation

22.1.5.6 Coupling component for linear modules HM-B, linear tables HT-B and cantilever axes HC

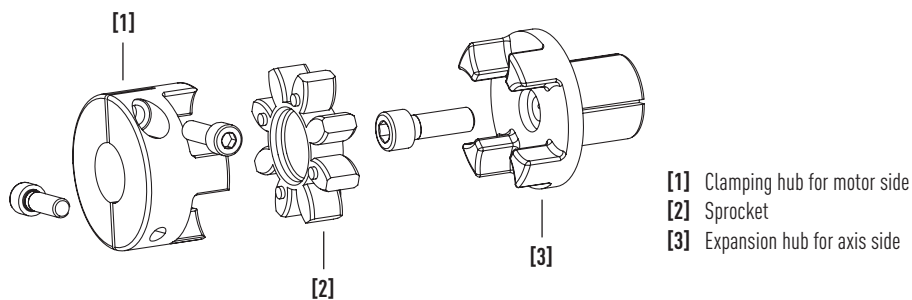


Fig. 22.20 Coupling component for linear modules HM-B, linear tables HT-B and cantilever axes HC

Expansion hub

Coupling element for the axis side.

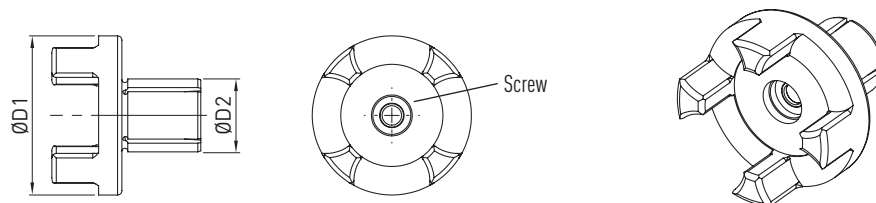


Fig. 22.21 Expansion hub for linear modules HM-B, linear tables HT-B and cantilever axes HC

Table 22.12 Article numbers and dimensions of expansion hub

Linear axis	Model	Ø D1 [mm]	Ø D2 [mm]	Thread size × length	Screw tightening torque [Nm]	Moment of inertia [kgmm ²]	Frictional torque [Nm]	Article number
HC025B	Size 12	24.5	10	M4 × 14	4	2.9	11	25-002015
HM040B, HT100B, HC040B	Size 14	29.5	14	M5 × 18	10	4.4	31	25-002714
HM060B, HC060B	Size 19	39.5	20	M6 × 20	10	9.0	38	25-000199
HM080B, HT150B, HC080B	Size 24	54.5	25	M8 × 30	25	35.6	91	25-000200
HM120B, HT200B, HT250B, HC100B	Size 28	64.5	35	M10 × 35	49	77.0	201	25-000201

Sprocket

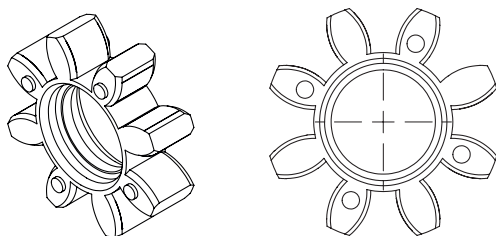


Fig. 22.22 Sprocket for linear modules HM-B, linear tables HT-B and cantilever axes HC

Table 22.13 Sprocket article number

Linear axis	Model	Article number
HC025B	Size 12	25-002709
HM040B, HT100B, HC040B	Size 14	25-002710
HM060B, HC060B	Size 19	25-002711
HM080B, HT150B, HC080B	Size 24	25-002712
HM120B, HT200B, HT250B, HC100B	Size 28	25-002713

Clamping hub

Coupling element for the motor side.

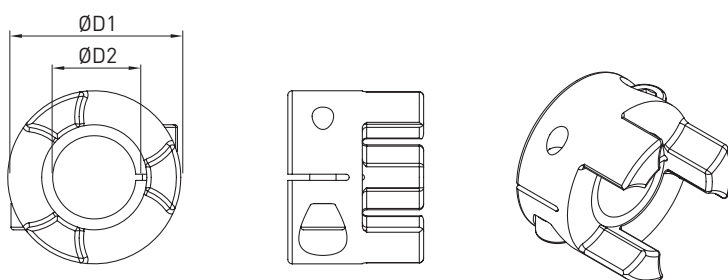


Fig. 22.23 Clamping hub for linear modules HM-B, linear tables HT-B and anti-lever axes HC

Table 22.14 Article numbers and specifications of clamping hub

Linear axis	Model	Ø D1 [mm]	Ø D2 H7 [mm]	Thread size × length	Screw tightening torque [Nm]	Frictional torque [Nm]	Moment of inertia [kgmm ²]	Article number
HC025B	Size 12	24.5	5	M3 × 12	2.1	5.2	1.46	25-002382
			6	M3 × 12	2.1	6.1	1.46	25-002384
			6.35	M3 × 12	2.1	6.4	1.46	25-002385
			8	M3 × 12	2.1	8.1	1.45	25-002386
			9	M3 × 12	2.1	9.1	1.45	25-002387
			10	M3 × 12	2.1	10.1	1.44	25-002388
			11	M3 × 12	2.1	11.1	1.43	25-002389
			12	M3 × 12	2.1	12.1	1.41	25-002390
HM040B, HT100B, HC040B	Size 14	29.5	14	M3 × 12	2.1	14.1	1.41	25-002391
			5	M4 × 12	5.0	10.1	2.70	25-002392
			6	M4 × 12	5.0	12.2	2.69	25-002393
			6.35	M4 × 12	5.0	13.2	2.69	25-002394
			8	M4 × 12	5.0	16.5	2.68	25-002395
			9	M4 × 12	5.0	18.6	2.68	25-002396
			10	M4 × 12	5.0	20.8	2.67	25-002397
			11	M4 × 12	5.0	23.0	2.66	25-002398
			12	M4 × 12	5.0	25.1	2.65	25-002399
			13	M4 × 12	5.0	27.2	2.63	25-002400
HM060B, HC060B	Size 19	39.5	14	M4 × 12	5.0	29.4	2.61	25-002401
			16	M4 × 12	4.0	28.0	6.11	25-002610
			6.35	M6 × 16	14.0	25.8	15.26	25-002403
			8	M6 × 16	14.0	32.5	15.25	25-002404
			9	M6 × 16	14.0	36.5	15.24	25-002405
			10	M6 × 16	14.0	40.6	15.23	25-002406
			11	M6 × 16	14.0	44.6	15.21	25-002407
			12	M6 × 16	14.0	48.7	15.18	25-002408

Linear axes and axis systems HX

Drive adaptation

Table 22.14 Article numbers and specifications of clamping hub

Linear axis	Model	Ø D1 [mm]	Ø D2 H7 [mm]	Thread size × length	Screw tightening torque [Nm]	Frictional torque [Nm]	Moment of inertia [kgmm ²]	Article number
HM060B, HC060B	Size 19	39.5	14	M6 × 16	14.0	56.8	15.11	25-002409
			16	M6 × 16	14.0	64.9	14.99	25-002410
			18	M6 × 16	14.0	73.1	14.82	25-002411
			19	M6 × 16	14.0	77.1	14.71	25-002412
			20	M6 × 16	14.0	81.2	14.58	25-002413
			22	M5 × 16	10.0	71.5	13.95	25-002414
			24	M5 × 16	10.0	75.6	13.52	25-002415
HM080B, HT150B, HC080B	Size 24	54.5	11	M6 × 20	15.0	46.0	53.30	25-002456
			14	M6 × 20	15.0	58.0	53.20	25-002416
			16	M6 × 20	15.0	66.0	53.10	25-002417
			19	M6 × 20	15.0	78.0	52.80	25-002418
			20	M6 × 20	15.0	82.0	52.70	25-002419
			22	M6 × 20	15.0	90.0	52.30	25-002420
			24	M6 × 20	15.0	98.0	51.90	25-002422
			25	M6 × 20	15.0	102.0	51.60	25-002423
			28	M6 × 20	15.0	114.0	50.50	25-002424
			32	M6 × 20	15.0	130.0	48.50	25-002425
HM120B, HT200B, HT250B, HC100B	Size 28	64.5	16	M8 × 25	35.0	130.0	125.45	25-002426
			19	M8 × 25	35.0	152.5	125.11	25-002427
			20	M8 × 25	35.0	160.0	124.95	25-002428
			22	M8 × 25	35.0	175.0	124.55	25-002429
			24	M8 × 25	35.0	190.0	124.02	25-002430
			25	M8 × 25	35.0	197.5	123.70	25-002431
			28	M8 × 25	35.0	220.0	122.47	25-002432
			32	M8 × 25	35.0	240.0	120.08	25-002433
			35	M8 × 25	35.0	262.5	117.59	25-002434
			38	M8 × 25	35.0	285.0	118.33	25-002435

22.2 Drive adaptation of linear modules HM-S and linear tables HT-S

22.2.1 Motor adaptation of linear modules HM-S and linear tables HT-S

The drive adaptation of linear modules HM-S and linear tables HT-S is designed in two parts to ensure easy flange-mounting of all common motors.

The flange type set comprises the following components:

- Coupling housing KB
- Coupling components
- Motor adapter plate AM or belt drive RT

The dimensions of the coupling housing, motor adapter plate and belt drive can be found in section 22.2.2 from page 204.

Motor adaptation of linear modules with ball screw – without belt drive

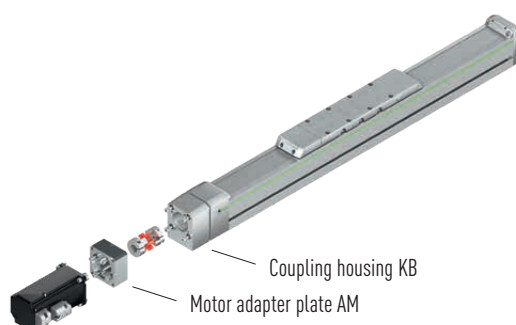


Fig. 22.24 Motor adaptation of linear modules HM-S

Motor adapter plate AM:

Adapter from axis to motor

Motor adaptation of linear tables with ballscrew (HT-S)

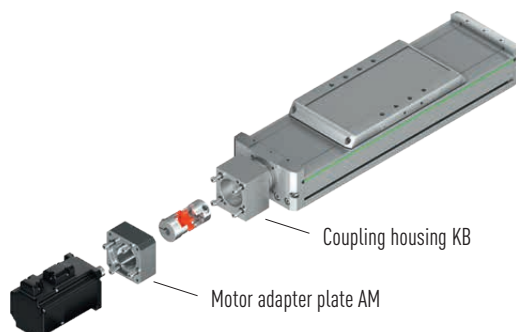


Fig. 22.25 Motor adaptation of linear tables HT-S

Motor adapter plate AM:

Adapter from axis to motor

Motor adaptation of linear tables with ballscrew – with belt drive

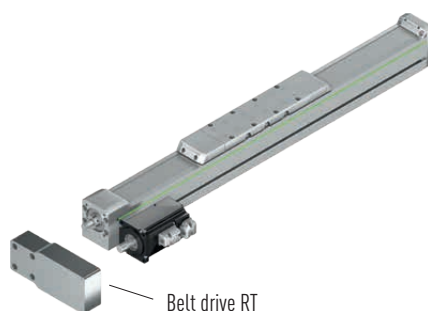


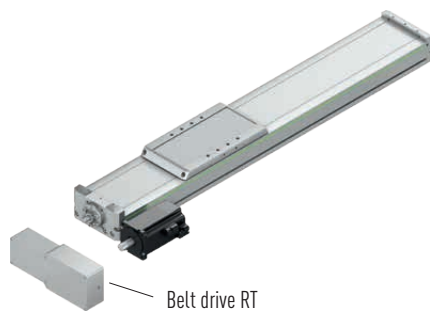
Fig. 22.26 Motor adaptation of linear modules HM-S with belt drive

Belt drive RT:

For deflecting the drive 180°

Linear axes and axis systems HX

Drive adaptation



Belt drive RT:

For deflecting the drive 180°

Fig. 22.27 Motor adaptation of linear tables HT-S with belt drive

Table 22.15 Order code for position flange type ³⁾ – linear modules HM-S and linear tables HT-S

Drive Manufacturer/Type		Linear module HM-S				Linear table HT-S			
		HM040S	HM060S	HM080S	HM120S	HT100S	HT150S	HT200S	HT250S
		Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only
HIWIN	EM1-C-M-20-2	HW21 ¹⁾	HW03 ¹⁾	HW05 ¹⁾		HW03 ¹⁾	HW05 ¹⁾		
	EM1-C-M-40-2		HW03 ¹⁾	HW05 ¹⁾		HW03 ¹⁾	HW05 ¹⁾	HW05 ¹⁾	
	EM1-C-M-05-2	HW22 ¹⁾	HW16 ¹⁾						
	EM1-C-M-10-2	HW22 ¹⁾	HW16 ¹⁾			HW16 ¹⁾			
	EM1-C-M-75-2			HW06 ¹⁾	HW08 ¹⁾		HW06 ¹⁾	HW06 ¹⁾	HW08 ¹⁾
	EM1-A-M-1K-2				HW13 ²⁾			HW25	HW13 ²⁾
	EM1-D-M-1A-2				HW13 ²⁾				HW13 ²⁾
	EM1-D-M-2K-2								HW13 ²⁾
B&R	8LSA24	BR01 ¹⁾	BR02 ¹⁾	BR07 ¹⁾		BR02 ¹⁾	BR07 ¹⁾		
	8LSA25	BR01 ¹⁾	BR02 ¹⁾	BR07 ¹⁾		BR02 ¹⁾	BR07 ¹⁾		
	8LSA33		BR03	BR04 ²⁾		BR03	BR04 ²⁾	BR04 ²⁾	
	8LSA34		BR03	BR04 ²⁾		BR03	BR04 ²⁾	BR04 ²⁾	
	8LSA35		BR03	BR04 ²⁾	BR13 ¹⁾	BR03	BR04 ²⁾	BR04 ²⁾	BR13 ¹⁾
	8LSA43				BR10 ¹⁾			BR05 ²⁾	BR10 ¹⁾
	8LSA44				BR10 ¹⁾				BR10 ¹⁾
	8LSA45								BR10 ¹⁾
	8LSA53				BR12 ²⁾			BR21	BR12 ²⁾
	8LSA54				BR12 ²⁾				BR12 ²⁾
	8LSN43				BR11 ²⁾				BR11 ²⁾
	8LSN44				BR11 ²⁾				BR11 ²⁾
	8LSN54								BR12 ²⁾

¹⁾ Possible belt drive V₁

²⁾ Possible belt drive V₂

³⁾ See order codes Page 35 for linear modules HM-S and Page 55 linear tables HT-S

Table 22.15 Order code for position flange type ³⁾ – linear modules HM-S and linear tables HT-S

Drive Manufacturer/Type		Linear module HM-S				Linear table HT-S			
		HM040S	HM060S	HM080S	HM120S	HT100S	HT150S	HT200S	HT250S
		Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only
Beckhoff	AM8022		BE01 ¹⁾	BE04 ¹⁾		BE01 ¹⁾	BE04 ¹⁾		
	AM8023		BE01 ¹⁾	BE04 ¹⁾		BE01 ¹⁾	BE04 ¹⁾	BE04 ¹⁾	
	AM8031		BE02 ²⁾	BE05 ¹⁾		BE02 ²⁾	BE05 ¹⁾	BE05 ¹⁾	
	AM8531		BE02 ²⁾	BE05 ¹⁾	BE09 ¹⁾	BE02 ²⁾	BE05 ¹⁾	BE05 ¹⁾	BE09 ¹⁾
	AM8032				BE09 ¹⁾			BE05 ¹⁾	BE09 ¹⁾
	AM8033				BE09 ¹⁾				BE09 ¹⁾
	AM8532				BE09 ¹⁾			BE05 ¹⁾	BE09 ¹⁾
	AM8533				BE09 ¹⁾				BE09 ¹⁾
	AM8041			BE06 ²⁾	BE10 ¹⁾		BE06 ²⁾	BE06 ²⁾	BE10 ¹⁾
	AM8042				BE10 ¹⁾				BE10 ¹⁾
	AM8043				BE10 ¹⁾				BE10 ¹⁾
	AM8541			BE06 ²⁾	BE10 ¹⁾		BE06 ²⁾	BE06 ²⁾	BE10 ¹⁾
	AM8542				BE10 ¹⁾				BE10 ¹⁾
	AM8543				BE10 ¹⁾				BE10 ¹⁾
	AM8051				BE11 ¹⁾				BE11 ¹⁾
	AM8551				BE11 ¹⁾				BE11 ¹⁾
Bosch	MS2N03-A0	B001 ¹⁾	B002 ¹⁾	B009 ¹⁾		B002 ¹⁾	B009 ¹⁾		
	MS2N03-B0		B002 ¹⁾	B009 ¹⁾		B002 ¹⁾	B009 ¹⁾		
	MS2N03-D0		B037 ¹⁾	B041 ¹⁾		B037 ¹⁾	B041 ¹⁾	B041 ¹⁾	
	MS2N04-B0		B003 ²⁾	B005 ¹⁾		B003 ²⁾	B005 ¹⁾	B005 ¹⁾	
	MSK030B	B001 ¹⁾	B002 ¹⁾	B009 ¹⁾		B002 ¹⁾	B009 ¹⁾		
	MSK030C		B002 ¹⁾	B009 ¹⁾		B002 ¹⁾	B009 ¹⁾	B009 ¹⁾	
	MSK040B		B003 ²⁾	B005 ¹⁾	B010 ¹⁾	B003 ²⁾	B005 ¹⁾	B005 ¹⁾	B010 ¹⁾
	MSK040C		B003 ²⁾	B005 ¹⁾	B010 ¹⁾	B003 ²⁾	B005 ¹⁾	B005 ¹⁾	B010 ¹⁾
	MS2N04-C0				B010 ¹⁾			B005 ¹⁾	B010 ¹⁾
	MS2N04-D0				B010 ¹⁾				B010 ¹⁾
	MS2N05-B0			B006 ²⁾	B011 ¹⁾		B006 ²⁾	B006 ²⁾	B011 ¹⁾
	MS2N05-C0				B011 ¹⁾				B011 ¹⁾
	MS2N06-B1			B008	B013 ²⁾		B008	B008	B013 ²⁾
	MS2N06-C0				B013 ²⁾				B013 ²⁾
	MSK043C				B010 ¹⁾			B005 ¹⁾	B010 ¹⁾
	MSK050B			B006 ²⁾	B011 ¹⁾		B006 ²⁾	B006 ²⁾	B011 ¹⁾
	MSK050C				B011 ¹⁾			B006 ²⁾	B011 ¹⁾
	MSK060B				B013 ²⁾			B008	B013 ²⁾
	MSK060C				B013 ²⁾				B013 ²⁾
	MSK061B				B012 ²⁾			B007 ²⁾	B012 ²⁾
	MS2N07-B1				B015 ²⁾				B015 ²⁾
Lenze	MCS06F		LE01 ¹⁾	LE04 ¹⁾		LE01 ¹⁾	LE04 ¹⁾		
	MCS06I		LE01 ¹⁾	LE04 ¹⁾		LE01 ¹⁾	LE04 ¹⁾	LE04 ¹⁾	
	MCS09D		LE02 ²⁾	LE05 ²⁾	LE08 ¹⁾	LE02 ²⁾	LE05 ²⁾	LE05 ²⁾	LE08 ¹⁾
	MCS09F				LE08 ¹⁾			LE05 ²⁾	LE08 ¹⁾
	MCS09H				LE08 ¹⁾				LE08 ¹⁾
	MCS12D				LE09 ²⁾				LE09 ²⁾
	MCS12H				LE09 ²⁾				LE09 ²⁾
	MCS14D				LE10 ²⁾				LE10 ²⁾

¹⁾ Possible belt drive V₁

²⁾ Possible belt drive V₂

³⁾ See order codes Page 35 for linear modules HM-S and Page 55 linear tables HT-S

Linear axes and axis systems HX

Drive adaptation

Table 22.15 Order code for position flange type ³⁾ – linear modules HM-S and linear tables HT-S

Drive Manufacturer/Type		Linear module HM-S				Linear table HT-S			
		HM040S	HM060S	HM080S	HM120S	HT100S	HT150S	HT200S	HT250S
		Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only
Omron	R88M-1M20030	OM06 ¹⁾	OM07 ¹⁾	OM08 ¹⁾		OM07 ¹⁾	OM08 ¹⁾		
	R88M-1M40030		OM10 ¹⁾	OM11 ¹⁾		OM10 ¹⁾	OM11 ¹⁾	OM11 ¹⁾	
	R88M-1M05030	OM02 ¹⁾							
	R88M-1M10030	OM02 ¹⁾	OM03 ¹⁾			OM03 ¹⁾			
	R88M-1M75030			OM13 ¹⁾	OM14 ¹⁾		OM13 ¹⁾	OM13 ¹⁾	OM14 ¹⁾
	R88M-1L1K030			OM15	OM16 ²⁾		OM15	OM15	OM16 ²⁾
	R88M-1L1K530				OM16 ²⁾			OM15	OM16 ²⁾
	R88M-1L75030			OM15	OM16 ²⁾		OM15	OM15	OM16 ²⁾
	R88M-1L2K030				OM16 ²⁾				OM16 ²⁾
	R88M-1L3K030				OM19 ²⁾				OM19 ²⁾
	R88M-1M1K020				OM19 ²⁾			OM18	OM19 ²⁾
	R88M-1M1K520				OM19 ²⁾				OM19 ²⁾
	R88M-1M40020			OM15	OM16 ²⁾		OM15	OM15	OM16 ²⁾
	R88M-1M60020			OM15	OM16 ²⁾		OM15	OM15	OM16 ²⁾
	R88M-1M2K020				OM19 ²⁾				OM19 ²⁾
Schneider	BSH0553		SE02 ¹⁾	SE10 ¹⁾		SE02 ¹⁾	SE10 ¹⁾		
	BSH0701		SE03 ²⁾	SE07 ¹⁾		SE03 ²⁾	SE07 ¹⁾		
	BSH0702		SE03 ²⁾	SE07 ¹⁾		SE03 ²⁾	SE07 ¹⁾	SE07 ¹⁾	
	BMH0701		SE03 ²⁾	SE07 ¹⁾		SE03 ²⁾	SE07 ¹⁾	SE07 ¹⁾	
	BMH0702		SE03 ²⁾	SE07 ¹⁾	SE16 ¹⁾	SE03 ²⁾	SE07 ¹⁾	SE07 ¹⁾	SE16 ¹⁾
	BMH0703		SE04 ²⁾	SE08 ¹⁾	SE12 ¹⁾	SE04 ²⁾	SE08 ¹⁾	SE08 ¹⁾	SE12 ¹⁾
	BSH0551	SE22 ¹⁾	SE02 ¹⁾			SE02 ¹⁾			
	BSH0552	SE22 ¹⁾	SE02 ¹⁾			SE02 ¹⁾			
	BSH1001			SE09 ²⁾	SE13 ¹⁾		SE09 ²⁾	SE09 ²⁾	SE13 ¹⁾
	BSH1002				SE13 ¹⁾				SE13 ¹⁾
	BSH1003				SE13 ¹⁾				SE13 ¹⁾
	BSH1401				SE15 ²⁾				SE15 ²⁾
	BMH1001			SE09 ²⁾	SE13 ¹⁾		SE09 ²⁾	SE09 ²⁾	SE13 ¹⁾
	BMH1002				SE13 ¹⁾				SE13 ¹⁾
	BMH1003				SE13 ¹⁾				SE13 ¹⁾
	BMH1401								SE15 ²⁾
	BSH0703						SE08 ¹⁾	SE08 ¹⁾	
SEW	CMP40M		SW02 ¹⁾	SW06 ¹⁾		SW02 ¹⁾	SW06 ¹⁾		
	CMP50S		SW03 ²⁾	SW07 ¹⁾		SW03 ²⁾	SW07 ¹⁾	SW07 ¹⁾	
	CMP50M		SW03 ²⁾	SW07 ¹⁾		SW03 ²⁾	SW07 ¹⁾	SW07 ¹⁾	
	CMP40S	SW01 ¹⁾	SW02 ¹⁾			SW02 ¹⁾			
	CMP50L				SW11 ¹⁾			SW07 ¹⁾	SW11 ¹⁾
	CMP63S				SW12 ¹⁾		SW08 ²⁾	SW08 ²⁾	SW12 ¹⁾
	CMP63M				SW12 ¹⁾				SW12 ¹⁾
	CMP63L								SW12 ¹⁾
	CMP71S				SW13 ²⁾				SW13 ²⁾
	CMP71M								SW13 ²⁾
	CMPZ71S				SW13 ²⁾				SW13 ²⁾
	CMPZ71M								SW13 ²⁾

¹⁾ Possible belt drive V₁

²⁾ Possible belt drive V₂

³⁾ See order codes Page 35 for linear modules HM-S and Page 55 linear tables HT-S

Table 22.15 Order code for position flange type ³⁾ – linear modules HM-S and linear tables HT-S

Drive Manufacturer/Type		Linear module HM-S				Linear table HT-S			
		HM040S	HM060S	HM080S	HM120S	HT100S	HT150S	HT200S	HT250S
		Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only	Motor only
Siemens	1FK2103-4		SM23 ¹⁾	SM24 ¹⁾		SM23 ¹⁾	SM24 ¹⁾		
	1FK2203-2	SM22 ¹⁾	SM23 ¹⁾	SM24 ¹⁾		SM23 ¹⁾	SM24 ¹⁾		
	1FK2203-4		SM23 ¹⁾	SM24 ¹⁾		SM23 ¹⁾	SM24 ¹⁾	SM24 ¹⁾	
	1FK7022		SM02 ¹⁾	SM07 ¹⁾		SM02 ¹⁾	SM07 ¹⁾		
	1FK7032		SM03 ²⁾	SM04 ¹⁾		SM03 ²⁾	SM04 ¹⁾	SM04 ¹⁾	
	1FK7034		SM03 ²⁾	SM04 ¹⁾	SM11 ¹⁾	SM03 ²⁾	SM04 ¹⁾	SM04 ¹⁾	SM11 ¹⁾
	1FL6032-2	SM26	SM27	SM28 ¹⁾		SM27	SM28 ¹⁾		
	1FL6034-2		SM27	SM28 ¹⁾		SM27	SM28 ¹⁾	SM28 ¹⁾	
	1FK2102-0	SM18 ¹⁾							
	1FK2102-1	SM18 ¹⁾	SM19 ¹⁾			SM19 ¹⁾			
	1FL6022-2	SM18 ¹⁾							
	1FL6024-2	SM18 ¹⁾	SM19 ¹⁾			SM19 ¹⁾			
	1FK2103-2	SM22 ¹⁾	SM23 ¹⁾			SM23 ¹⁾			
	1FK2204-5			SM35 ¹⁾	SM36 ¹⁾		SM35 ¹⁾	SM35 ¹⁾	SM36 ¹⁾
	1FK2104-6			SM35 ¹⁾	SM36 ¹⁾		SM35 ¹⁾	SM35 ¹⁾	SM36 ¹⁾
	1FK2204-6			SM35 ¹⁾	SM36 ¹⁾		SM35 ¹⁾	SM35 ¹⁾	SM36 ¹⁾
	1FK2105-4				SM38 ¹⁾			SM37 ²⁾	SM38 ¹⁾
	1FK2105-6				SM38 ¹⁾				SM38 ¹⁾
	1FK2205-2			SM05 ²⁾	SM08 ¹⁾		SM05 ²⁾	SM05 ²⁾	SM08 ¹⁾
	1FK2205-4				SM08 ¹⁾				SM08 ¹⁾
	1FK2106-3				SM09 ²⁾				SM09 ²⁾
	1FK2206-2				SM09 ²⁾				SM09 ²⁾
	1FK7040			SM05 ²⁾	SM08 ¹⁾		SM05 ²⁾	SM05 ²⁾	SM08 ¹⁾
	1FK7042			SM05 ²⁾	SM08 ¹⁾		SM05 ²⁾	SM05 ²⁾	SM08 ¹⁾
	1FK7060				SM09 ²⁾				SM09 ²⁾
	1FK7062				SM09 ²⁾				SM09 ²⁾
	1FL6042-2			SM30 ¹⁾	SM31 ¹⁾		SM30 ¹⁾	SM30 ¹⁾	SM31 ¹⁾
	1FL6044-2			SM30 ¹⁾	SM31 ¹⁾		SM30 ¹⁾	SM30 ¹⁾	SM31 ¹⁾
	1FL6052-2				SM41 ¹⁾			SM40 ²⁾	SM41 ¹⁾
	1FL6054-2				SM41 ¹⁾				SM41 ¹⁾
	1FL6042-1			SM32 ²⁾	SM33 ¹⁾		SM32 ²⁾	SM32 ²⁾	SM33 ¹⁾
	1FL6044-1			SM32 ²⁾	SM33 ¹⁾		SM32 ²⁾	SM32 ²⁾	SM33 ¹⁾
	1FL6061-1			SM43	SM44		SM43	SM43	SM44
	1FL6062-1				SM44			SM43	SM44
	1FL6064-1				SM44				SM44
	1FK2104-4			SM35 ¹⁾			SM35 ¹⁾	SM35 ¹⁾	
	1FK2104-5			SM35 ¹⁾			SM35 ¹⁾	SM35 ¹⁾	
	1FK7080				SM10 ²⁾				SM10 ²⁾
	1FL6066-1				SM44				SM44
	1FL6067-1				SM44				SM44

¹⁾ Possible belt drive V₁

²⁾ Possible belt drive V₂

³⁾ See order codes Page 35 for linear modules HM-S and Page 55 linear tables HT-S

Linear axes and axis systems HX

Drive adaptation

22.2.2 Dimensions of motor adaptation of linear modules HM-S, linear tables HT-S

The total length of the spindle axis depends on the following factors:

- Adaptation material (coupling housing KB, motor adapter plate AM)
- Belt drive RT
- Motor

Linear axis without belt drive

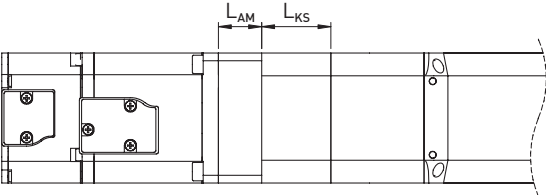


Fig. 22.28 Motor connection of linear modules HM-S without belt drive

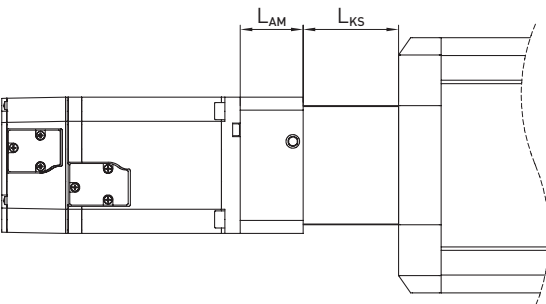


Fig. 22.29 Motor connection of linear table HT-S without belt drive

Linear axis with belt drive

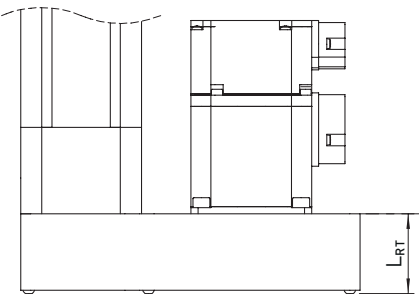


Fig. 22.30 Motor connection of linear modules HM-S with belt drive

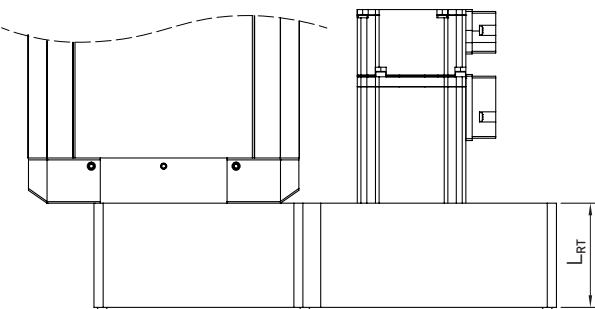


Fig. 22.31 Motor connection of linear tables HT-S with belt drive

L_{KS} Length of coupling housing, see Table 22.16
 L_{AM} Length of motor adapter plate, see Table 22.17

L_{KS} Length of coupling housing, see Table 22.16
 L_{AM} Length of motor adapter plate, see Table 22.17

L_{RT} Length of belt drive, see Table 22.19

L_{RT} Length of belt drive, see Table 22.19

22.2.2.1 Coupling housing KS for linear modules HM-S and linear tables HT-S

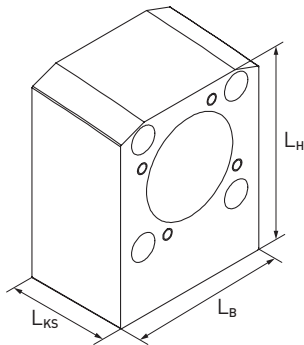


Fig. 22.32 Coupling housing KS for linear modules HM-S

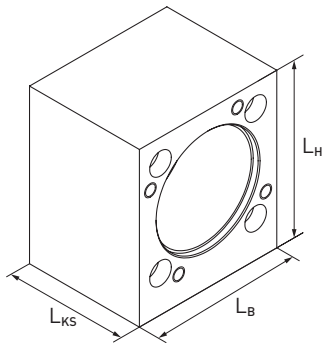


Fig. 22.33 Coupling housing KS for linear tables HT-S

Table 22.16 Dimensions of coupling housing KS for linear modules HM-S and linear tables HT-S

Coupling housing for	L _B [mm]	L _H [mm]	L _{KS} [mm]	Article number
HM040S	39.6	57.6	34	25-000305
HM060S	59.6	75.0	32	25-000306
HM080S	79.6	95.5	41	25-000307
HM120S	119.6	141.9	50	25-000308
HT100S	55.0	58.2	39	25-000952
HT150S	70.0	78.5	56	25-000951
HT200S	75.0	90.0	59	25-000950
HT250S	90.0	99.5	68	25-000949

22.2.2.2 Motor adapter plate AM for linear modules HM-S and linear tables HT-S

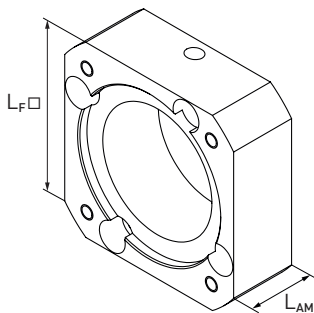


Fig. 22.34 Motor adapter plate AM for linear modules HM-S and linear tables HT-S

Linear axes and axis systems HX

Drive adaptation

Table 22.17 Motor adapter plate AM for linear modules HM-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HM040S	HIWIN	EM1-C-M-05-2, EM1-C-M-10-2	42	22,5	25-002721
		EM1-C-M-20-2	60	27,5	25-002871
	B&R	8LSA24, 8LSA25	58	21,5	25-000397
	Bosch	MS2N03-A0, MSK030B	58	17,5	80052233
	Omron	R88M-1M05030, R88M-1M10030	42	22,5	25-002721
		R88M-1M20030	60	27,5	25-001458
	Schneider	BSH0551, BSH0552	55	17,5	25-000396
	SEW	CMP40S	58	17,5	80052233
	Siemens	1FK2102-0, 1FK2102-1, 1FL6022-2, 1FL6024-2	42	22,5	25-002721
		1FK2103-2, 1FK2203-2	60	27,5	25-002871
		1FL6032-2	60	28,5	25-000398
HM060S	HIWIN	EM1-C-M-05-2, EM1-C-M-10-2	50	25,5	25-002736
		EM1-C-M-20-2, EM1-C-M-40-2	60	30,5	25-000404
	B&R	8LSA24, 8LSA25	58	24,5	25-000403
		8LSA33, 8LSA34, 8LSA35	82	30,5	25-000411
	Beckhoff	AM8022, AM8023	55	20,5	25-000402
		AM8031, AM8531	70	30,5	25-000407
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B, MSK030C	58	20,5	80052243
		MS2N03-D0	54	23,5	25-000401
		MS2N04-B0, MSK040B, MSK040C	82	30,5	25-000405
	Lenze	MCS06F, MCS06I	62	23,5	25-000406
		MCS09D	82	30,5	25-000411
	Omron	R88M-1M10030	50	25,5	25-002736
		R88M-1M20030, R88M-1M40030	60	30,5	25-000446
	Schneider	BSH0551, BSH0552, BSH0553	55	20,5	25-000402
		BSH0701, BSH0702, BMH0701, BMH0702	62	23,5	25-000406
	SEW	BMH0703	70	30,5	25-000407
		CMP40S, CMP40M	58	20,5	80052243
	Siemens	CMP50S, CMP50M	62	23,5	25-000406
		1FK2102-1, 1FL6024-2	50	25,5	25-002736
		1FK2103-2, 1FK2103-4, 1FK2203-2, 1FK2203-4	60	30,5	25-000404
		1FK7022	55	20,5	25-000402
		1FK7032, 1FK7034	72	30,5	25-000408
HM080S	HIWIN	EM1-C-M-20-2, EM1-C-M-40-2	72	27	25-000414
		EM1-C-M-75-2	80	37	25-000421
	B&R	8LSA24, 8LSA25	75	21	80094917
		8LSA33, 8LSA34, 8LSA35	86	27	25-000423
	Beckhoff	AM8022, AM8023	72	18	25-000413
		AM8031, AM8531	70	27	25-000418
		AM8041, AM8541	87	37	25-000424
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B, MSK030C	72	18	80052441
		MS2N03-D0	72	20	25-000412
		MS2N04-B0, MSK040B, MSK040C	82	27	25-000415
		MS2N05-B0, MSK050B	98	37	25-000425
		MS2N06-B1	116	47	25-000429
	Lenze	MCS06F, MCS06I	72	20	25-000417
		MCS09D	86	27	25-000423

Table 22.17 Motor adapter plate AM for linear modules HM-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HM080S	Omron	R88M-1M20030, R88M-1M40030	72	27	25-002186
		R88M-1M75030	80	32	25-002598
		R88M-1L1K030, R88M-1L75030, R88M-1M40020, R88M-1M60020	100	52	25-001858
	Schneider	BSH0553	72	18	25-000413
		BSH0701, BSH0702, BMH0701, BMH0702	72	20	25-000417
		BSH1001, BMH1001	98	37	25-000425
		BMH0703	70	27	25-000418
	SEW	CMP40M	72	18	80052441
		CMP50S, CMP50M	72	20	25-000417
	Siemens	1FK2103-4, 1FK2203-2, 1FK2203-4	72	27	25-000414
		1FK2104-4, 1FK2104-5, 1FK2204-5, 1FK2104-6, 1FK2204-6	80	37	25-000421
		1FK2205-2, 1FK7040, 1FK7042	87	37	25-000424
		1FK7022	72	18	25-000413
		1FK7032, 1FK7034	72	27	25-000419
		1FL6032-2, 1FL6034-2	75	28	80094905
		1FL6042-2, 1FL6044-2	80	32	80018736
		1FL6042-1, 1FL6044-1	87	32	25-001241
		1FL6061-1	130	55	25-001876
HM120S	HIWIN	EM1-C-M-75-2	80	36,5	25-000438
		EM1-A-M-1K-2, EM1-D-M-1A-2	130	51,5	25-000450
	B&R	8LSA35	86	26,5	25-000440
		8LSA43, 8LSA44	98	36,5	25-000442
		8LSA53, 8LSA54	138	46,5	80095110
		8LSN43, 8LSN44	116	36,5	25-002891
	Beckhoff	AM8032, AM8033, AM8531, AM8532, AM8533	73	26,5	25-000436
		AM8041, AM8042, AM8043, AM8541, AM8542, AM8543	87	36,5	25-000441
		AM8051, AM8551	100	46,5	80094982
	Bosch	MS2N04-C0, MS2N04-D0, MSK040B, MSK040C, MSK043C	82	26,5	25-000433
		MS2N05-B0, MS2N05-C0, MSK050B, MSK050C	98	36,5	25-000442
		MS2N06-B1, MS2N06-C0, MSK060B, MSK060C	116	46,5	80052246
		MS2N07-B1	139	54,5	25-000452
		MSK061B	116	36,5	25-000445
	Lenze	MCS09D, MCS09F, MCS09H	86	26,5	25-000440
		MCS12D, MCS12H	116	36,5	25-002891
		MCS14D	138	46,5	80095110
	Omron	R88M-1M75030	80	31,5	25-002256
		R88M-1L1K030, R88M-1L1K530, R88M-1L75030, R88M-1L2K030, R88M-1M40020, R88M-1M60020	100	51,5	25-000444
		R88M-1L3K030, R88M-1M1K020, R88M-1M1K520, R88M-1M2K020	130	51,5	25-000450
	Schneider	BSH1001, BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	98	36,5	25-000442
		BSH1401	138	46,5	80095110
		BMH0702	73	19,5	25-000435
		BMH0703	73	26,5	25-000436
	SEW	CMP50L	73	19,5	25-000435
		CMP63S, CMP63M	86	26,5	25-000440
		CMP71S, CMPZ71S	125	46,5	80063703

Linear axes and axis systems HX

Drive adaptation

Table 22.17 Motor adapter plate AM for linear modules HM-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HM120S	Siemens	1FK2204-5, 1FK2104-6, 1FK2204-6	80	36,5	25-000438
		1FK2105-4, 1FK2105-6	98	36,5	25-000442
		1FK2205-2, 1FK2205-4, 1FK7040, 1FK7042	87	36,5	25-000441
		1FK2106-3, 1FK2206-2, 1FK7060, 1FK7062	125	46,5	80063703
		1FK7034	80	26,5	80095005
		1FK7080	139	54,5	25-000452
		1FL6042-2, 1FL6044-2	80	31,5	80018751
		1FL6052-2, 1FL6054-2	100	41,5	80094968
		1FL6042-1, 1FL6044-1	87	31,5	80094965
		1FL6061-1, 1FL6062-1, 1FL6064-1, 1FL6066-1, 1FL6067-1	130	54,5	25-002727

Table 22.18 Motor adapter plate AM for linear tables HT-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HT100S	HIWIN	EM1-C-M-10-2	50	25,5	25-002736
		EM1-C-M-20-2, EM1-C-M-40-2	60	30,5	25-000404
	B&R	8LSA24, 8LSA25	58	24,5	25-000403
		8LSA33, 8LSA34, 8LSA35	82	30,5	25-000411
	Beckhoff	AM8022, AM8023	55	20,5	25-000402
		AM8031, AM8531	70	30,5	25-000407
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B, MSK030C	58	20,5	80052243
		MS2N03-D0	54	23,5	25-000401
		MS2N04-B0, MSK040B, MSK040C	82	30,5	25-000405
	Lenze	MCS06F, MCS06I	62	23,5	25-000406
		MCS09D	82	30,5	25-000411
	Omron	R88M-1M10030	50	25,5	25-002736
		R88M-1M20030, R88M-1M40030	60	30,5	25-000646
	Schneider	BSH0551, BSH0552, BSH0553	55	20,5	25-000402
		BSH0701, BSH0702, BMH0701, BMH0702	62	23,5	25-000406
		BMH0703	70	30,5	25-000407
	SEW	CMP40S, CMP40M	58	20,5	80052243
		CMP50S, CMP50M	62	23,5	25-000406
	Siemens	1FK2102-1, 1FL6024-2	50	25,5	25-002736
		1FK2103-2, 1FK2103-4, 1FK2203-2, 1FK2203-4	60	30,5	25-000404
		1FK7022	55	20,5	25-000402
		1FK7032, 1FK7034	72	30,5	25-000408
		1FL6032-2, 1FL6034-2	60	31,5	80094892
HT150S	HIWIN	EM1-C-M-20-2	72	27	25-000414
	B&R	8LSA24, 8LSA25	75	21	80094917
	Beckhoff	AM8022	72	18	25-000413
	Bosch	MS2N03-A0, MS2N03-B0, MSK030B	72	18	80052441
	Lenze	MCS06F	72	20	25-000417
	Omron	R88M-1M20030	72	27	25-002186
	Schneider	BSH0553	72	18	25-000413
		BSH0701	72	20	25-000417
	SEW	CMP40M	72	18	80052441
	Siemens	1FK2103-4, 1FK2203-2	72	27	25-000414
		1FK7022	72	18	25-000413
		1FL6032-2	75	28	80094905

Table 22.18 Motor adapter plate AM for linear tables HT-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HT200S	HIWIN	EM1-A-M-1K-2	130	52	25-001791
	B&R	8LSA43	98	37	25-000425
		8LSA53	140	47	80094960
	Beckhoff	AM8032, AM8532	70	27	25-000418
	Bosch	MS2N04-C0, MSK043C	82	27	25-000415
		MSK050C	98	37	25-000425
		MSK060B	116	47	25-000429
		MSK061B	116	37	25-000428
	Lenze	MCS09F	86	27	25-000423
	Omron	R88M-1L1K530	100	52	25-001858
		R88M-1M1K020	130	52	25-001791
	SEW	CMP50L	72	20	25-000417
	Siemens	1FK2105-4	98	37	25-000425
		1FL6052-2	104	42	25-002487
		1FL6062-1	130	55	25-001876
HT250S	HIWIN	EM1-C-M-75-2	80	36,5	25-000438
		EM1-A-M-1K-2, EM1-D-M-1A-2, EM1-D-M-2K-2	130	51,5	25-000450
	B&R	8LSA35	86	26,5	25-000440
		8LSA43, 8LSA44, 8LSA45	98	36,5	25-000442
		8LSA53, 8LSA54, 8LSN54	138	46,5	80095110
		8LSN43, 8LSN44	116	36,5	25-002891
	Beckhoff	AM8032, AM8033, AM8531, AM8532, AM8533	73	26,5	25-000436
		AM8041, AM8042, AM8043, AM8541, AM8542, AM8543	87	36,5	25-000441
		AM8051, AM8551	100	46,5	80094982
	Bosch	MS2N04-C0, MS2N04-D0, MSK040B, MSK040C, MSK043C	82	26,5	25-000433
		MS2N05-B0, MS2N05-C0, MSK050B, MSK050C	98	36,5	25-000442
		MS2N06-B1, MS2N06-C0, MSK060B, MSK060C	116	46,5	80052246
		MS2N07-B1	139	54,5	25-000452
		MSK061B	116	36,5	25-000445
	Lenze	MCS09D, MCS09F, MCS09H	86	26,5	25-000440
		MCS12D, MCS12H	116	36,5	25-002891
		MCS14D	138	46,5	80095110
	Omron	R88M-1M75030	80	31,5	25-002256
		R88M-1L1K030, R88M-1L1K530, R88M-1L75030, R88M-1L2K030, R88M-1M40020, R88M-1M60020	100	51,5	25-000444
		R88M-1L3K030, R88M-1M1K020, R88M-1M1K520, R88M-1M2K020	130	51,5	25-000450
	Schneider	BSH1001, BSH1002, BSH1003, BMH1001, BMH1002, BMH1003	98	36,5	25-000442
		BSH1401, BMH1401	138	46,5	80095110
		BMH0702	73	19,5	25-000435
		BMH0703	73	26,5	25-000436
	SEW	CMP50L	73	19,5	25-000435
		CMP63S, CMP63M, CMP63L	86	26,5	25-000440
		CMP71S, CMP71M, CMPZ71S, CMPZ71M	125	46,5	80063703

Linear axes and axis systems HX

Drive adaptation

Table 22.18 Motor adapter plate AM for linear tables HT-S

Linear axis	Manufacturer	Motors	L _F [mm]	L _{AM} [mm]	Article number
HT250S	Siemens	1FK2204-5, 1FK2104-6, 1FK2204-6	80	36,5	25-000438
		1FK2105-4, 1FK2105-6	98	36,5	25-000442
		1FK2205-2, 1FK2205-4, 1FK7040, 1FK7042	87	36,5	25-000441
		1FK2106-3, 1FK2206-2, 1FK7060, 1FK7062	125	46,5	80063703
		1FK7034	80	26,5	80095005
		1FK7080	139	54,5	25-000452
		1FL6042-2, 1FL6044-2	80	31,5	80018751
		1FL6052-2, 1FL6054-2	100	41,5	80094968
		1FL6042-1, 1FL6044-1	87	31,5	80094965
		1FL6061-1, 1FL6062-1, 1FL6064-1, 1FL6066-1, 1FL6067-1	130	54,5	25-002727

22.2.2.3 Belt drive RT for linear modules HM-S and linear tables HT-S

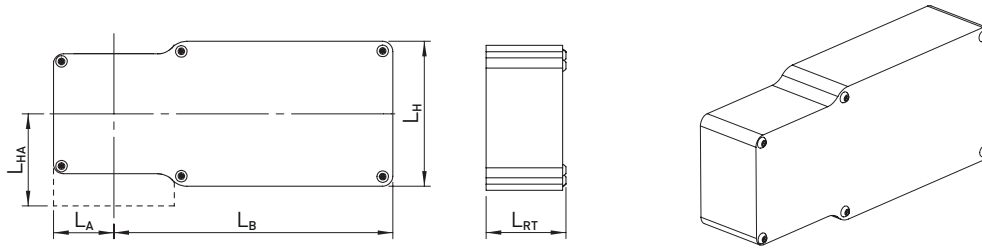


Fig. 22.35 Belt drive for linear modules HM-S and linear tables HT-S

Table 22.19 Specifications of belt drive

Linear axis	Type ¹⁾	L _H	L _B	L _{RT}	L _A	L _{HA}	Translation
HM040S	V ₁	72	138.5	40	30.0	36.25	1
HM060S	V ₁	72	138.5	40	30.0	45.80	1
	V ₂	102	171.5	40	30.0	45.80	1
HM080S	V ₁	102	197.0	51	39.0	61.40	1
	V ₂	131	226.0	61	39.0	61.40	1
HM120S	V ₁	135	248.5	63	55.0	89.00	1
	V ₂	175	288.0	73	55.0	89.00	1
HT100S	V ₁	74	157.0	43	29.5	31.00	1
	V ₂	102	196.0	43	29.5	31.00	1
HT150S	V ₁	102	217.0	60	38.5	43.00	1
	V ₂	131	251.0	70	38.5	43.00	1
HT200S	V ₁	100	237.0	61	42.5	51.00	1
	V ₂	131	268.5	71	42.5	51.00	1
HT250S	V ₁	135	298.0	73	50.7	52.00	1
	V ₂	175	349.5	83	50.7	52.00	1

¹⁾ You can find the required type in Table 22.15

Note: Please note that the belt drive hangs over the lower edge of the axis if the following applies:

$$\frac{L_H}{2} > L_{HA}$$

Linear axes and axis systems HX

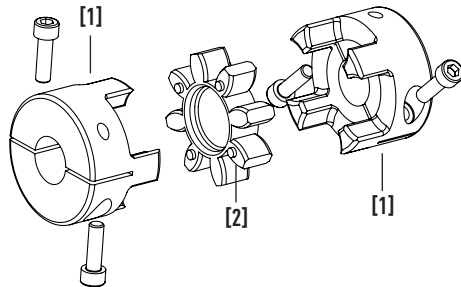
Drive adaptation

Note: Please note that the belt drive can protrude over the side of the axis if the following applies:

$$L_A > \frac{L_B}{2}$$

L_B Axis profile width

22.2.2.4 Coupling component for linear modules HM-S and linear tables HT-S



- [1] Clamping hubs (1 for axis side, 1 for motor side)
- [2] Sprocket

Fig. 22.36 Coupling component for linear modules HM-S, linear tables HT-S

Clamping hub

Coupling element on motor and axis side.

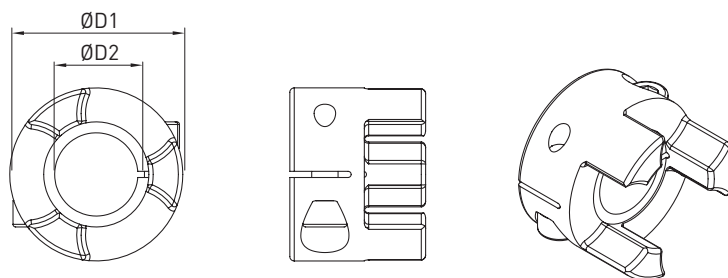


Fig. 22.37 Clamping hub

Table 22.20 Article numbers and specifications of clamping hub

Linear axis	Model	Ø D1 [mm]	Ø D2 H7 [mm]	Thread size × length	Screw tightening torque [Nm]	Frictional torque [Nm]	Moment of inertia [kgmm ²]	Article number
HM040S	Size 12	24.5	5	M3 × 12	2.1	5.2	1.46	25-002382
			6	M3 × 12	2.1	6.1	1.46	25-002384
			6.35	M3 × 12	2.1	6.4	1.46	25-002385
			8	M3 × 12	2.1	8.1	1.45	25-002386
			9	M3 × 12	2.1	9.1	1.45	25-002387
			10	M3 × 12	2.1	10.1	1.44	25-002388
			11	M3 × 12	2.1	11.1	1.43	25-002389
			12	M3 × 12	2.1	12.1	1.41	25-002390
			14	M3 × 12	2.1	14.1	1.41	25-002391
HM060S, HT100S	Size 14	29.5	5	M4 × 12	5.0	10.1	2.70	25-002392
			6	M4 × 12	5.0	12.2	2.69	25-002393
			6.35	M4 × 12	5.0	13.2	2.69	25-002394
			8	M4 × 12	5.0	16.5	2.68	25-002395
			9	M4 × 12	5.0	18.6	2.68	25-002396
			10	M4 × 12	5.0	20.8	2.67	25-002397
			11	M4 × 12	5.0	23.0	2.66	25-002398
			12	M4 × 12	5.0	25.1	2.65	25-002399
			13	M4 × 12	5.0	27.2	2.63	25-002400
			14	M4 × 12	5.0	29.4	2.61	25-002401
			16	M4 × 12	4.0	28.0	6.11	25-002610

Table 22.20 Article numbers and specifications of clamping hub

Linear axis	Model	Ø D1 [mm]	Ø D2 H7 [mm]	Thread size × length	Screw tightening torque [Nm]	Frictional torque [Nm]	Moment of inertia [kgmm ²]	Article number
HM080S, HT150S, HT200S	Size 19	39.5	6.35	M6 × 12	14.0	25.8	15.26	25-002403
			8	M6 × 12	14.0	32.5	15.25	25-002404
			9	M6 × 12	14.0	36.5	15.24	25-002405
			10	M6 × 12	14.0	40.6	15.23	25-002406
HM080S, HT150S, HT200S	Size 19	39.5	11	M6 × 12	14.0	44.6	15.21	25-002407
			12	M6 × 12	14.0	48.7	15.18	25-002408
			14	M6 × 12	14.0	56.8	15.11	25-002409
			16	M6 × 12	14.0	64.9	14.99	25-002410
			18	M6 × 12	14.0	73.1	14.82	25-002411
			19	M6 × 12	14.0	77.1	14.71	25-002412
			20	M6 × 12	14.0	81.2	14.58	25-002413
			22	M5 × 16	10.0	71.5	13.95	25-002414
HM120S, HT250S	Size 24	54.5	24	M5 × 16	10.0	75.6	13.52	25-002415
			11	M6 × 20	15.0	46.0	53.30	25-002456
			14	M6 × 20	15.0	58.0	53.20	25-002416
			16	M6 × 20	15.0	66.0	53.10	25-002417
			19	M6 × 20	15.0	78.0	52.80	25-002418
			20	M6 × 20	15.0	82.0	52.70	25-002419
			22	M6 × 20	15.0	90.0	52.30	25-002420
			24	M6 × 20	15.0	98.0	51.90	25-002422
			25	M6 × 20	15.0	102.0	51.60	25-002423
			28	M6 × 20	15.0	114.0	50.50	25-002424
			32	M6 × 20	15.0	130.0	48.50	25-002425

Sprocket

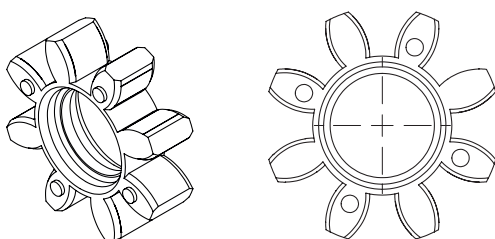


Fig. 22.38 Sprocket

Table 22.21 Sprocket article number

Linear axis	Model	Article number
HM040S	Size 12	25-000202
HM060S, HT100S	Size 14	25-000203
HM080S, HT150S, HT200S	Size 19	25-000204
HM120S, HT250S	Size 24	25-000205

Linear axes and axis systems HX

Drive adaptation

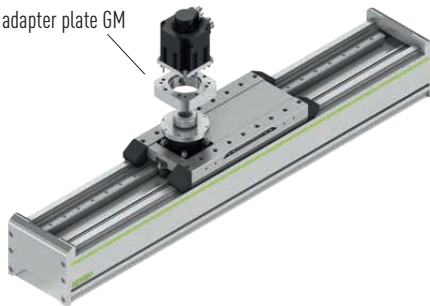
22.2.3 Drive adaptation of bridge axes HB-R

The drive adaptation of the HB-R bridge axis consists of a GM motor gear adapter plate to ensure that all standard motors can be easily flange-mounted.

The dimensions of the motor gearbox adapter plate can be found in section 22.1.5 from page 184.

Motor adaptation of bridge axes with rack and pinion drive (HB-R)

Motor gear adapter plate GM



Motor gear adapter plate GM:

Adapter from gearbox to motor

Fig. 22.39 Motor adaptation of bridge axes HB-R

Table 22.22 Order code for position flange type ¹⁾ – Bridge axes HB-R

Drive		HB250R	
Manufacturer/Type		With NPR035-H	With NPR035-K
Gearbox adapter			
HIWIN	EM1-A-M-1K-2	HW28 ²⁾	
	EM1-D-M-1A-2	HW28 ²⁾	
	EM1-D-M-2K-2	HW28 ²⁾	
B&R	8LSA33	BR25 ²⁾	
	8LSA34	BR25 ²⁾	
	8LSA35	BR25 ²⁾	
	8LSA43	BR31 ²⁾	
	8LSA44	BR31 ²⁾	
	8LSA45	BR31 ²⁾	
	8LSA46	BR31 ²⁾	
	8LSA53	BR34 ²⁾	
	8LSA54	BR34 ²⁾	
	8LSA55	BR34 ²⁾	
	8LSN43	BR28 ²⁾	
	8LSN44	BR28 ²⁾	
	8LSN45	BR28 ²⁾	
	8LSN46	BR28 ²⁾	
	8LSN54	BR34 ²⁾	
	8LSA56	BR34 ²⁾	
	8LSA57	BR34 ²⁾	
	8LSN55	BR34 ²⁾	
	8LSN56	BR34 ²⁾	
	8LSN57	BR34 ²⁾	

NPR is a registered trademark of Wittenstein SE

¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.22 Order code for position flange type ¹⁾ – Bridge axes HB-R

Drive Manufacturer/Type		HB250R	
		With NPR035-H	With NPR035-K
Beckhoff	AM8051	BE26 ²⁾	
	AM8052	BE26 ²⁾	
	AM8551	BE26 ²⁾	
	AM8552	BE26 ²⁾	
	AM8053	BE26 ²⁾	
	AM8553	BE26 ²⁾	
	AM8061		BE29 ²⁾
	AM8062		BE29 ²⁾
	AM8561		BE29 ²⁾
	AM8063		BE29 ²⁾
	AM8562		BE29 ²⁾
	AM8563		BE29 ²⁾
Bosch	MS2N05-B0	B050 ²⁾	
	MS2N05-C0	B050 ²⁾	
	MS2N05-D0	B050 ²⁾	
	MS2N06-B1	B059 ²⁾	
	MS2N06-C0	B059 ²⁾	
	MS2N06-D0	B059 ²⁾	
	MS2N06-D1	B059 ²⁾	
	MSK050B	B050 ²⁾	
	MSK050C	B050 ²⁾	
	MSK060B	B059 ²⁾	
	MSK060C	B059 ²⁾	
	MSK061B	B053 ²⁾	
	MSK061C	B053 ²⁾	
	MS2N06-E0	B059 ²⁾	
	MS2N07-B1		B062 ²⁾
	MS2N07-C1		B062 ²⁾
	MSK070C		B062 ²⁾
	MSK070D		B062 ²⁾
	MSK070E		B062 ²⁾
	MSK071C		B062 ²⁾
	MSK075C		B062 ²⁾
	MSK076C	B056 ²⁾	
	MS2N07-D0		B062 ²⁾
	MS2N07-D1		B062 ²⁾
	MS2N07-E0		B062 ²⁾
	MS2N07-E1		B062 ²⁾
	MSK071D		B062 ²⁾
	MSK071E		B062 ²⁾
	MSK075D		B062 ²⁾
	MSK075E		B062 ²⁾
Lenze	MCS12D	LE22 ²⁾	
	MCS12H	LE22 ²⁾	
	MCS12L	LE22 ²⁾	
	MCS14D	LE25 ²⁾	
	MCS14H	LE25 ²⁾	

NPR is a registered trademark of Wittenstein SE

¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.22 Order code for position flange type ¹⁾ – Bridge axes HB-R

Drive Manufacturer/Type		HB250R	
		With NPR035-H	With NPR035-K
Lenze	MCS14L	LE25 ²⁾	
	MCS14P	LE25 ²⁾	
Omron	R88M-1L1K030	OM30 ²⁾	
	R88M-1L1K530	OM30 ²⁾	
	R88M-1L75030	OM30 ²⁾	
	R88M-1L2K030	OM30 ²⁾	
	R88M-1L3K030	OM33 ²⁾	
	R88M-1M1K020	OM33 ²⁾	
	R88M-1M1K520	OM33 ²⁾	
	R88M-1M40020	OM30 ²⁾	
	R88M-1M60020	OM30 ²⁾	
	R88M-1M2K020	OM33 ²⁾	
	R88M-1L4K030	OM36 ²⁾	
	R88M-1L5K030	OM36 ²⁾	
	R88M-1M3K020	OM36 ²⁾	
Schneider	BSH1001	SE30 ²⁾	
	BSH1002	SE30 ²⁾	
	BSH1003	SE30 ²⁾	
	BSH1004	SE36 ²⁾	
	BSH1401	SE33 ²⁾	
	BMH1001	SE30 ²⁾	
	BMH1002	SE30 ²⁾	
	BMH1003	SE30 ²⁾	
	BMH1401	SE33 ²⁾	
	BSH1402	SE33 ²⁾	
	BMH1402	SE33 ²⁾	
	BMH1403	SE33 ²⁾	
	BSH1403	SE33 ²⁾	
	BSH1404	SE33 ²⁾	
SEW	CMP71S	SW28 ²⁾	
	CMP71M	SW28 ²⁾	
	CMPZ71S	SW28 ²⁾	
	CMP71L	SW28 ²⁾	
	CMP80S	SW31 ²⁾	
	CMPZ71M	SW28 ²⁾	
	CMPZ71L	SW28 ²⁾	
	CMP80M	SW31 ²⁾	
	CMP80L	SW31 ²⁾	
	CMP100S		SW34 ²⁾
	CMP100M		SW34 ²⁾
	CMPZ80S	SW31 ²⁾	
	CMPZ80M	SW31 ²⁾	
	CMPZ80L	SW31 ²⁾	
	CMPZ100S		SW34 ²⁾
	CMP100L		SW34 ²⁾
	CMPZ100M		SW34 ²⁾
	CMPZ100L		SW34 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.22 Order code for position flange type ¹⁾ – Bridge axes HB-R

Drive Manufacturer/Type		HB250R	
		With NPR035-H	With NPR035-K
Siemens	1FK2105-4	SM63 ²⁾	
	1FK2105-6	SM63 ²⁾	
	1FK2205-2	SM60 ²⁾	
	1FK2205-4	SM60 ²⁾	
	1FK2106-3	SM72 ²⁾	
	1FK2106-4	SM72 ²⁾	
	1FK2206-2	SM72 ²⁾	
	1FK2206-4	SM72 ²⁾	
	1FK7040	SM60 ²⁾	
	1FK7042	SM60 ²⁾	
	1FK7060	SM72 ²⁾	
	1FK7062	SM72 ²⁾	
	1FK7063	SM72 ²⁾	
	1FL6052-2	SM66 ²⁾	
	1FL6054-2	SM66 ²⁾	
	1FL6042-1	SM57 ²⁾	
	1FL6044-1	SM57 ²⁾	
	1FL6061-1	SM69 ²⁾	
	1FL6062-1	SM69 ²⁾	
	1FL6064-1	SM69 ²⁾	
	1FK2106-6	SM72 ²⁾	
	1FK2208-3		SM75 ²⁾
	1FK2208-4		SM75 ²⁾
	1FK7080		SM75 ²⁾
	1FK7081		SM75 ²⁾
	1FK7083		SM75 ²⁾
	1FL6066-1	SM69 ²⁾	
	1FL6067-1	SM69 ²⁾	
	1FK2208-5		SM75 ²⁾
	1FK7084		SM75 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

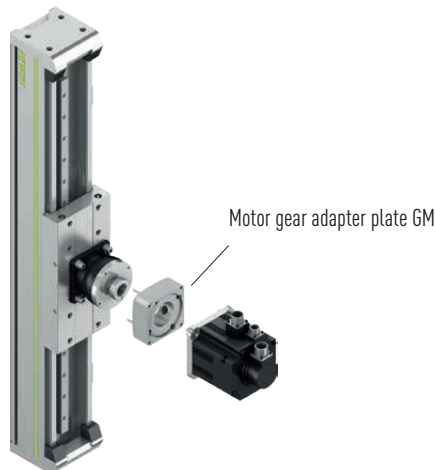
Drive adaptation

22.2.4 Drive adaptation of cantilever axes HC-R

The adaptation to the linear axis consists of a GM motor gear adapter plate to ensure that all standard motors can be easily flange-mounted.

The dimensions of the motor gearbox adapter plate can be found in section 22.1.5 from page 184.

Motor adaptation of cantilever axes rack and pinion drive (HC-R)



Motor gear adapter plate GM:

Adapter from gearbox to motor

Fig. 22.40 Motor adaption of cantilever axes HC-R

Table 22.23 Order code for position flange type ¹⁾ – Cantilever axes HC-R			
Drive		HC150R	
Manufacturer/Type		With NPR035-H	With NPR035-K
Gearbox adapter			
HIWIN	EM1-A-M-1K-2	HW28 ²⁾	
	EM1-D-M-1A-2	HW28 ²⁾	
	EM1-D-M-2K-2	HW28 ²⁾	
B&R	8LSA33	BR25 ²⁾	
	8LSA34	BR25 ²⁾	
	8LSA35	BR25 ²⁾	
	8LSA43	BR31 ²⁾	
	8LSA44	BR31 ²⁾	
	8LSA45	BR31 ²⁾	
	8LSA46	BR31 ²⁾	
	8LSA53	BR34 ²⁾	
	8LSA54	BR34 ²⁾	
	8LSA55	BR34 ²⁾	
	8LSN43	BR28 ²⁾	
	8LSN44	BR28 ²⁾	
	8LSN45	BR28 ²⁾	
	8LSN46	BR28 ²⁾	
	8LSN54	BR34 ²⁾	
	8LSA56	BR34 ²⁾	
	8LSA57	BR34 ²⁾	

NPR is a registered trademark of Wittenstein SE

¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.23 Order code for position flange type ¹⁾ – Cantilever axes HC-R

Drive Manufacturer/Type		HC150R	
		With NPR035-H	With NPR035-K
B&R	8LSN55	BR34 ²⁾	
	8LSN56	BR34 ²⁾	
	8LSN57	BR34 ²⁾	
Beckhoff	AM8051	BE26 ²⁾	
	AM8052	BE26 ²⁾	
	AM8551	BE26 ²⁾	
	AM8552	BE26 ²⁾	
	AM8053	BE26 ²⁾	
	AM8553	BE26 ²⁾	
	AM8061		BE29 ²⁾
	AM8062		BE29 ²⁾
	AM8561		BE29 ²⁾
	AM8063		BE29 ²⁾
	AM8562		BE29 ²⁾
	AM8563		BE29 ²⁾
Bosch	MS2N05-B0	B050 ²⁾	
	MS2N05-C0	B050 ²⁾	
	MS2N05-D0	B050 ²⁾	
	MS2N06-B1	B059 ²⁾	
	MS2N06-C0	B059 ²⁾	
	MS2N06-D0	B059 ²⁾	
	MS2N06-D1	B059 ²⁾	
	MSK050B	B050 ²⁾	
	MSK050C	B050 ²⁾	
	MSK060B	B059 ²⁾	
	MSK060C	B059 ²⁾	
	MSK061B	B053 ²⁾	
	MSK061C	B053 ²⁾	
	MS2N06-E0	B059 ²⁾	
	MS2N07-B1		B062 ²⁾
	MS2N07-C1		B062 ²⁾
	MSK070C		B062 ²⁾
	MSK070D		B062 ²⁾
	MSK070E		B062 ²⁾
	MSK071C		B062 ²⁾
	MSK075C		B062 ²⁾
	MSK076C	B056 ²⁾	
	MS2N07-D0		B062 ²⁾
	MS2N07-D1		B062 ²⁾
	MS2N07-E0		B062 ²⁾
	MS2N07-E1		B062 ²⁾
	MSK071D		B062 ²⁾
	MSK071E		B062 ²⁾
	MSK075D		B062 ²⁾
	MSK075E		B062 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

Table 22.23 Order code for position flange type ¹⁾ – Cantilever axes HC-R

Drive Manufacturer/Type		HC150R	
		With NPR035-H	With NPR035-K
Lenze	MCS12D	LE22 ²⁾	
	MCS12H	LE22 ²⁾	
	MCS12L	LE22 ²⁾	
	MCS14D	LE25 ²⁾	
	MCS14H	LE25 ²⁾	
	MCS14L	LE25 ²⁾	
	MCS14P	LE25 ²⁾	
Omron	R88M-1L1K030	OM30 ²⁾	
	R88M-1L1K530	OM30 ²⁾	
	R88M-1L75030	OM30 ²⁾	
	R88M-1L2K030	OM30 ²⁾	
	R88M-1L3K030	OM33 ²⁾	
	R88M-1M1K020	OM33 ²⁾	
	R88M-1M1K520	OM33 ²⁾	
	R88M-1M40020	OM30 ²⁾	
	R88M-1M60020	OM30 ²⁾	
	R88M-1M2K020	OM33 ²⁾	
	R88M-1L4K030	OM36 ²⁾	
	R88M-1L5K030	OM36 ²⁾	
	R88M-1M3K020	OM36 ²⁾	
Schneider	BSH1001	SE30 ²⁾	
	BSH1002	SE30 ²⁾	
	BSH1003	SE30 ²⁾	
	BSH1004	SE36 ²⁾	
	BSH1401	SE33 ²⁾	
	BMH1001	SE30 ²⁾	
	BMH1002	SE30 ²⁾	
	BMH1003	SE30 ²⁾	
	BMH1401	SE33 ²⁾	
	BSH1402	SE33 ²⁾	
	BMH1402	SE33 ²⁾	
	BMH1403	SE33 ²⁾	
	BSH1403	SE33 ²⁾	
	BSH1404	SE33 ²⁾	
SEW	CMP71S	SW28 ²⁾	
	CMP71M	SW28 ²⁾	
	CMPZ71S	SW28 ²⁾	
	CMP71L	SW28 ²⁾	
	CMP80S	SW31 ²⁾	
	CMPZ71M	SW28 ²⁾	
	CMPZ71L	SW28 ²⁾	
	CMP80M	SW31 ²⁾	
	CMP80L	SW31 ²⁾	
	CMP100S		SW34 ²⁾
	CMP100M		SW34 ²⁾
	CMPZ80S	SW31 ²⁾	
	CMPZ80M	SW31 ²⁾	

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Table 22.23 Order code for position flange type ¹⁾ – Cantilever axes HC-R

Drive Manufacturer/Type		HC150R	
		With NPR035-H	With NPR035-K
SEW	CMPZ80L	SW31 ²⁾	
	CMPZ100S		SW34 ²⁾
	CMP100L		SW34 ²⁾
	CMPZ100M		SW34 ²⁾
	CMPZ100L		SW34 ²⁾
Siemens	1FK2105-4	SM63 ²⁾	
	1FK2105-6	SM63 ²⁾	
	1FK2205-2	SM60 ²⁾	
	1FK2205-4	SM60 ²⁾	
	1FK2106-3	SM72 ²⁾	
	1FK2106-4	SM72 ²⁾	
	1FK2206-2	SM72 ²⁾	
	1FK2206-4	SM72 ²⁾	
	1FK7040	SM60 ²⁾	
	1FK7042	SM60 ²⁾	
	1FK7060	SM72 ²⁾	
	1FK7062	SM72 ²⁾	
	1FK7063	SM72 ²⁾	
	1FL6052-2	SM66 ²⁾	
	1FL6054-2	SM66 ²⁾	
	1FL6042-1	SM57 ²⁾	
	1FL6044-1	SM57 ²⁾	
	1FL6061-1	SM69 ²⁾	
	1FL6062-1	SM69 ²⁾	
	1FL6064-1	SM69 ²⁾	
	1FK2106-6	SM72 ²⁾	
	1FK2208-3		SM75 ²⁾
	1FK2208-4		SM75 ²⁾
	1FK7080		SM75 ²⁾
	1FK7081		SM75 ²⁾
	1FK7083		SM75 ²⁾
	1FL6066-1	SM69 ²⁾	
	1FL6067-1	SM69 ²⁾	
	1FK2208-5		SM75 ²⁾
	1FK7084		SM75 ²⁾

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¹⁾ See order code Page 87 | ²⁾ Drive not suitable for Y-axis of HIWIN multi-axis systems HS

Linear axes and axis systems HX

Drive adaptation

22.2.5 Dimensions of the motorised adaptation of the bridge axes HB-R and cantilever axle HC-R

The total height of the linear axes with rack and pinion drive depends on the following factors:

- Gearbox
- Motor gearbox adapter plate GM
- Motor

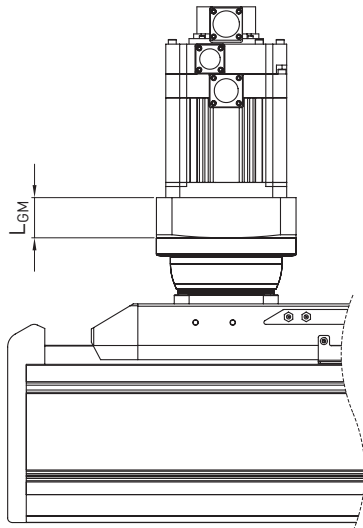


Fig. 22.41 Motor connection of linear module HM-B without gearbox

L_{GM} Length of motor gearbox adapter plate, see Table 22.10

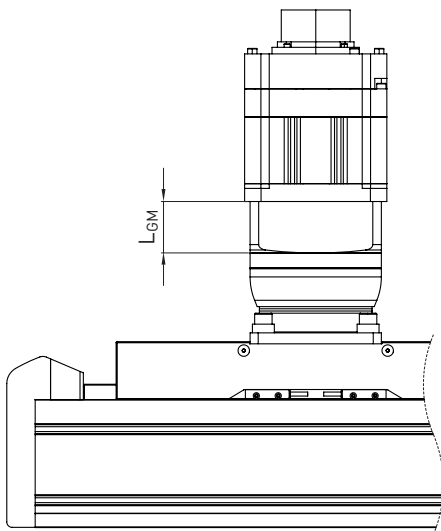


Fig. 22.42 Motor connection of linear table HT-B without gearbox

L_{GM} Length of motor gearbox adapter plate, see Table 22.10

22.3 Energy supply for linear tables HT-B and HT-S

For safe carrying of supply lines, linear tables HT-B and HT-S up to a maximum stroke of 5,000 mm ¹⁾ are optionally supplied with generously dimensioned energy chains. They are extremely compact and save space when attached to the axis. The orientation of the energy chain can be selected according to the order codes in section 7.2 and section 8.2. The linear tables with energy chain are optimised for horizontal installation. Axes with energy chain for vertical use on request. The dimensions of the energy chain are listed in Fig. 22.43, Fig. 22.44, Fig. 22.45 and Table 22.24 as well as Table 22.25.

¹⁾ For HT100B, the maximum stroke with energy chain is 4,000 mm

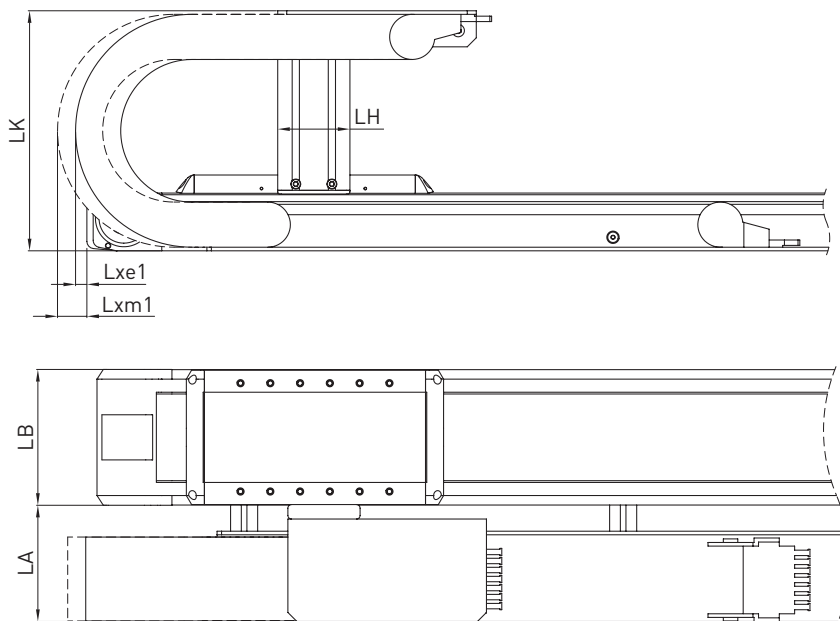


Fig. 22.43 Linear axes HT-B: Option "E"

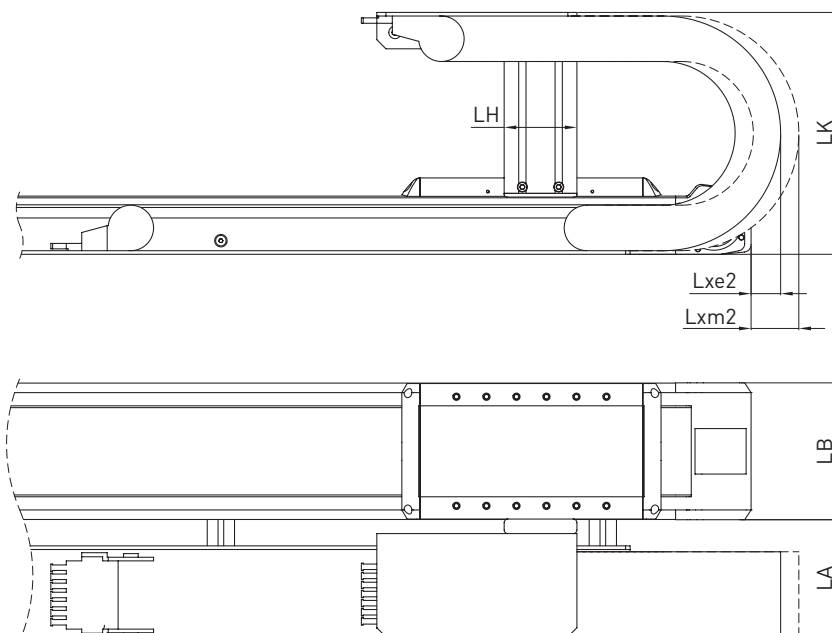


Fig. 22.44 Linear axes HT-B: Option "C" and "F"

Linear axes and axis systems HX

Drive adaptation

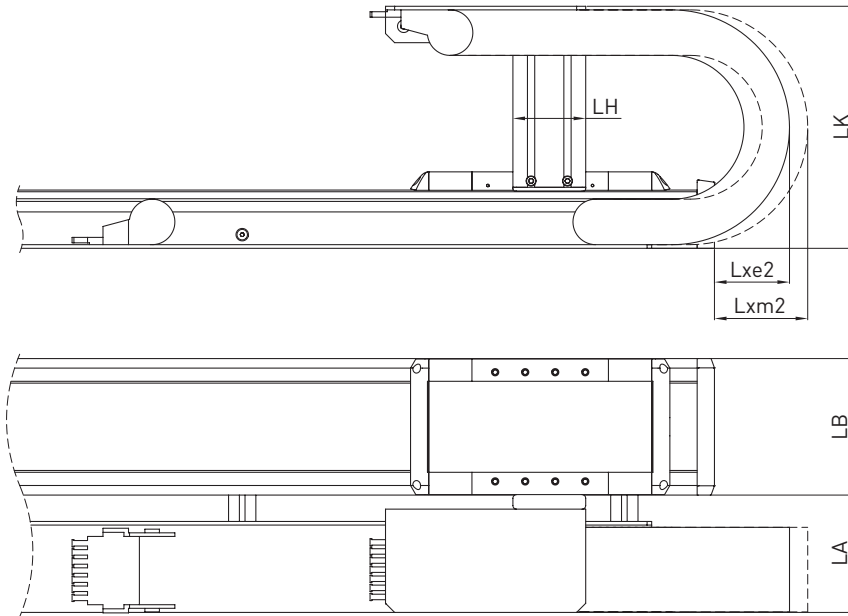


Fig. 22.45 Linear axes HT-S: Option “C”, “D”, “E”, “G” and “H”

Table 22.24 Dimensions of drive interface with energy chain for linear axes HT-B

	Linear table – Variant without cover				Linear table – Variant with cover			
	HT100B	HT150B	HT200B	HT250B	HT100B	HT150B	HT200B	HT250B
LB [mm]	100	150	200	250	100	150	200	250
Inner cross section W × H [mm]	57 × 25	75 × 35	75 × 35	75 × 35	57 × 25	75 × 35	75 × 35	75 × 35
Bending radius [mm]	75	100	100	100	75	100	100	100
LK [mm]	198	266	266	266	198	266	266	266
LA [mm]	100	129	129	129	100	129	129	129
LH [mm]	60	80	80	80	60	80	80	80
Lxe1 [mm]¹⁾	3)	3)	3)	3)	3)	3)	3)	3)
Lxe2 [mm]¹⁾	3)	3)	3)	3)	3)	3)	3)	3)
Lxm1 [mm]²⁾	15	3)	3)	3)	3)	3)	3)	3)
Lxm2 [mm]²⁾	15	3)	3)	3)	3)	3)	3)	3)

¹⁾ At electrical zero

²⁾ At mechanical zero

³⁾ Energy chain without overhang

Table 22.25 Dimensions of drive interface with energy chain for linear axes HT-S

	Linear table – Variant without cover				Linear table – Variant with cover			
	HT100S	HT150S	HT200S	HT250S	HT100S	HT150S	HT200S	HT250S
LB [mm]	100	150	200	250	100	150	200	250
Inner cross section W × H [mm]	57 × 25	75 × 35	75 × 35	75 × 35	57 × 25	75 × 35	75 × 35	75 × 35
Bending radius [mm]	75	100	100	100	75	100	100	100
LK [mm]	198	266	266	266	198	266	266	266
LA [mm]	100	129	129	129	100	129	129	129
LH [mm]	60	80	80	80	60	80	80	80
Lxe1 [mm]¹⁾	3)	3)	3)	3)	3)	3)	3)	3)
Lxe2 [mm]¹⁾	40	3)	3)	3)	10	3)	3)	3)
Lxm1 [mm]²⁾	3)	3)	3)	3)	3)	3)	3)	3)
Lxm2 [mm]²⁾	50	15	3)	3)	20	3)	3)	3)

¹⁾ At electrical zero

²⁾ At mechanical zero

³⁾ Energy chain without overhang

22.4 Connection interface and energy supply for linear motor axes HT-L

Linear motor axes HT-L have an interface for motor and encoder cables. These are located on the side of the carriage and can be connected quickly and easily without tools. Depending on the the installation situation and the desired cable routing, two different orientations of the connector are available, see Fig. 22.46, Fig. 22.47, Fig. 22.48 and Fig. 22.49.

For safe carrying of the supply cables, linear motor axes HT100L and HT150L up to a maximum stroke of 4,000 mm and linear motor axes HT200L and HT250L up to a maximum stroke of 5,000 mm are optionally supplied with generously dimensioned energy chains. They are extremely compact and save space when attached to the axis. The orientation of the energy chain depends on the selected connector orientation. Linear tables HT-L with energy chain are optimised for horizontal installation. Axes with energy chain for vertical use on request.

Dimensions of the energy chain and the electrical interface are listed in Fig. 22.46, Fig. 22.47, Fig. 22.48, Fig. 22.49 and Table 22.26.

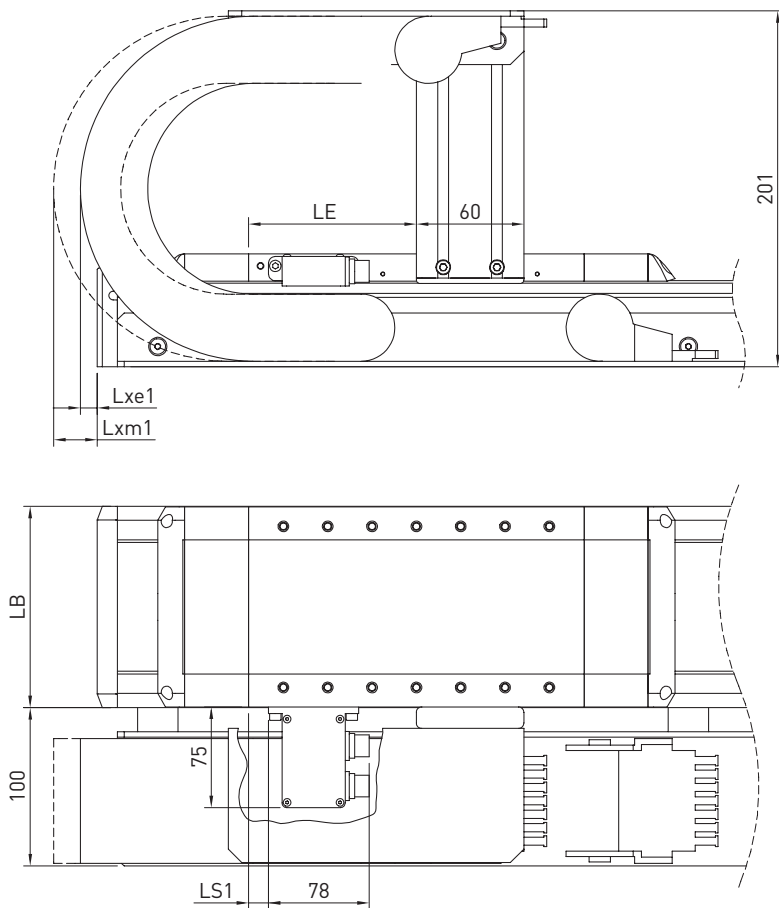


Fig. 22.46 Linear motor axes HT100L: Option “D” and “F” – connector right/rear, also applies mirrored to option “C” and “E” – connector left/rear

Linear axes and axis systems HX

Drive adaptation

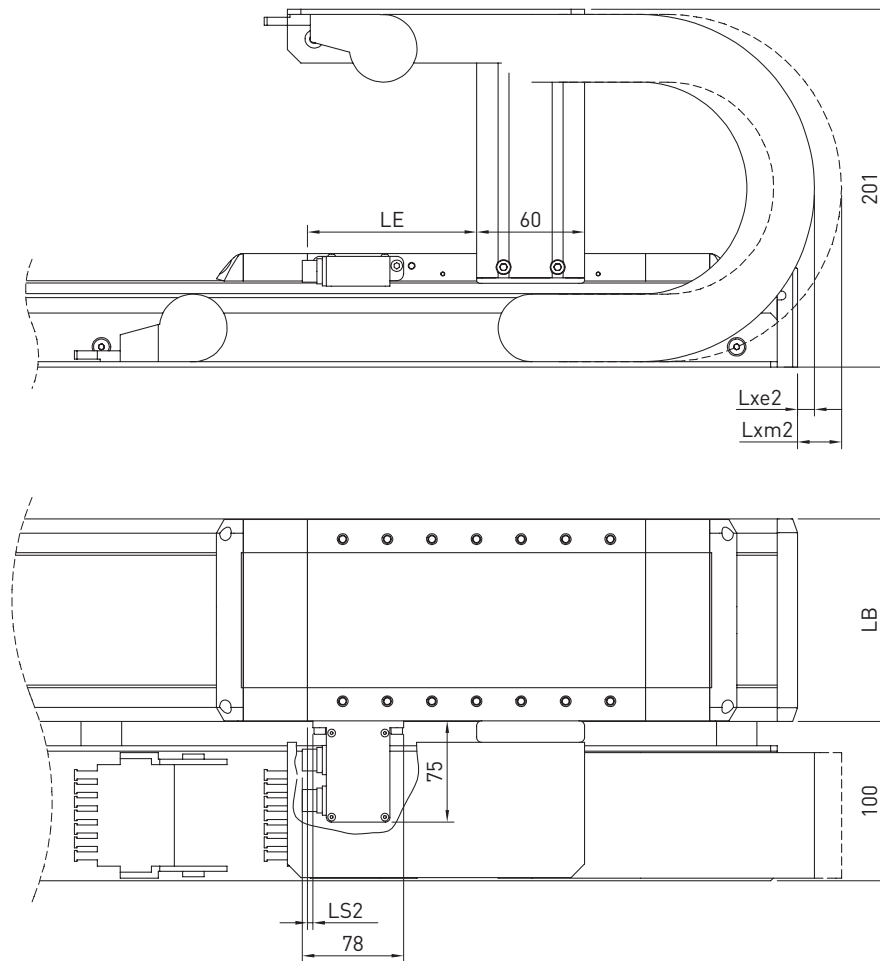


Fig. 22.47 Linear motor axes HT100L: Option "R" and "B" – connector right/front, also applies mirrored to option "L" and "A" – connector left/front

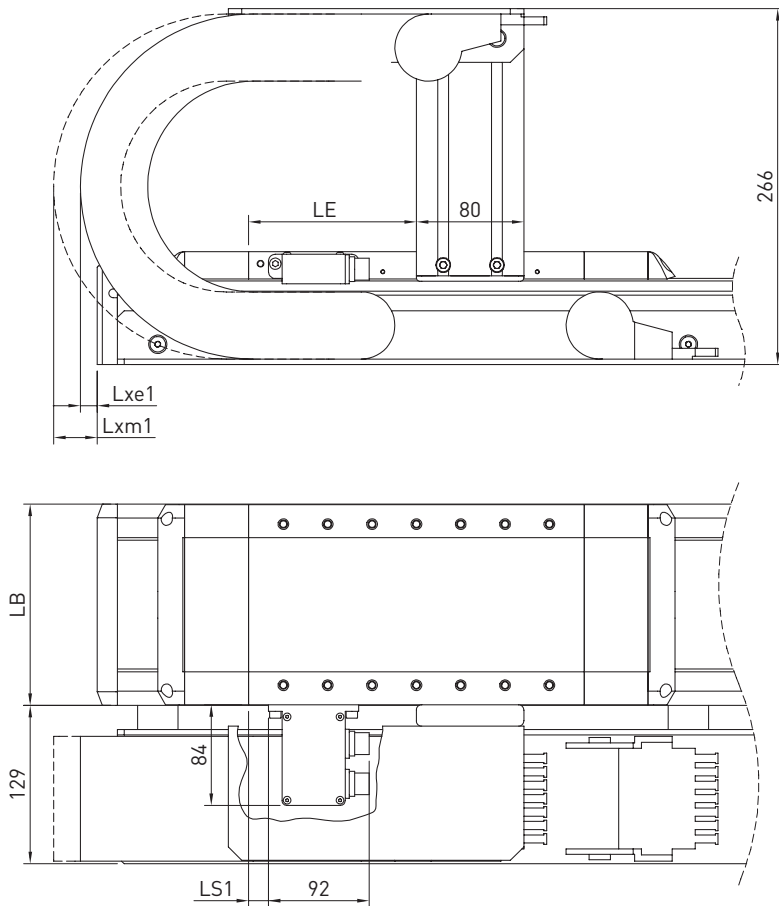


Fig. 22.48 Linear motor axes HT150L, HT200L, HT250L: Option "D" and "F" – connector right/rear, also applies mirrored to option "C" and "E" – connector left/rear

Linear axes and axis systems HX

Drive adaptation

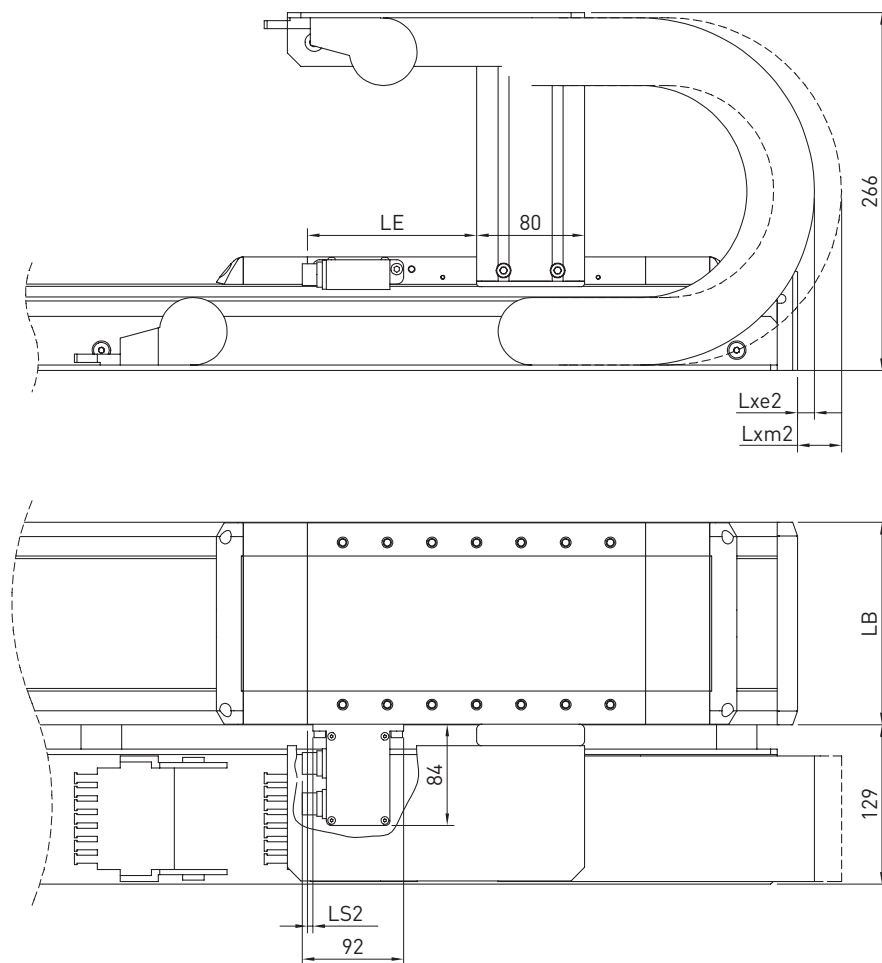


Fig. 22.49 Linear motor axes HT150L, HT200L, HT250L: Option “R” and “B” – connector right/front, also applies mirrored to option “L” and “A” – connector left/front

Table 22.26 Dimensions of drive interface and energy chain for linear motor axes HT-L

	Linear table – Variant without cover				Linear table – Variant with cover			
	HT100L	HT150L	HT200L	HT250L	HT100L	HT150L	HT200L	HT250L
LB [mm]	100	150	200	250	100	150	200	250
Inner cross section W × H [mm]	57 × 25	77 × 25	75 × 35	75 × 35	57 × 25	77 × 25	75 × 35	75 × 35
Bending radius [mm]	75	100	100	100	75	100	100	100
LE [mm]³⁾	117.5	125	120	135	117.5	125	120	135
Lxe1 [mm]¹⁾³⁾	15	20	30	—	—	—	—	—
Lxe2 [mm]¹⁾³⁾	50	—	—	—	—	—	—	—
Lxm1 [mm]²⁾³⁾	25	30	60	35	—	—	10	—
Lxm2 [mm]²⁾³⁾	60	—	—	—	10	—	—	—
LS1 [mm]	11	15	17	25	11	15	17	25
LS2 [mm]	0	4	6	14	0	4	6	14

¹⁾ At electrical zero

²⁾ At mechanical zero

³⁾ Not applicable for variant without energy chain

Suitable motor and encoder cables can be found in the accessories in sections 23.8 up to 23.10

23. Accessories

23.1 Clamping profiles

With the help of clamping profiles, the linear axis is attached to the machine frame from above. The clamping profiles can be swivelled laterally into the profile groove of the axis.

The required number of clamping profiles depends on the axis length and the load and can be found in the assembly instructions. Sets containing 4 clamping profiles are available.

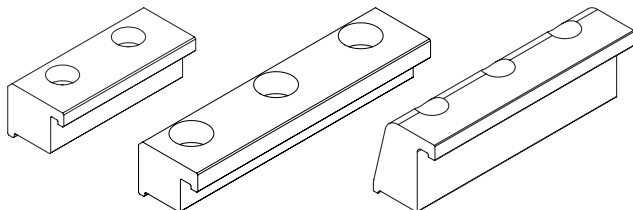


Fig. 23.1 Clamping profiles short and long

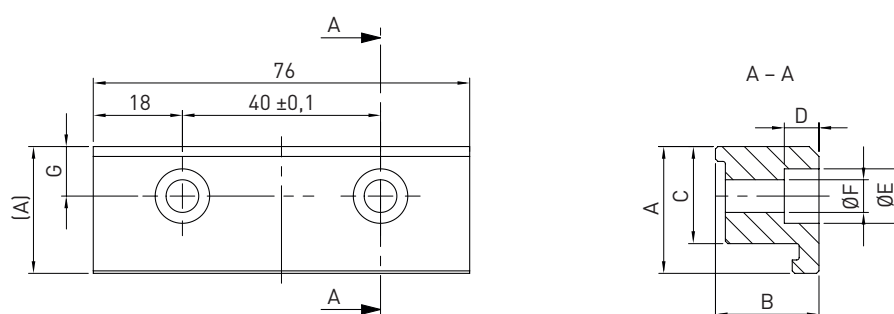


Fig. 23.2 Dimensioned drawing of clamping profile short

Table 23.1 Article numbers and dimensions of clamping profiles short

Suitable for linear axis	Model	A	B	C	D	ØE	ØF	G	Matching screw	Article number, 4 pieces
HM040/HT100	Size 5	18.0	10.5	14.1	6.0	10	5.5	6.85	DIN 912 M5	25-000517
HM060	Size 6	25.6	20.9	19.6	9.5	11	6.6	10.00	DIN 912 M6	25-000518
HT150	Size 6	26.1	15.9	19.6	8.5	11	6.6	10.00	DIN 912 M6	25-001023
HM080 ¹⁾ /HM120/ HT200/HT250	Size 8	28.0	22.0	19.5	8.0	15	9.0	10.00	DIN 912 M8	25-000519

¹⁾ Standard

Unit: mm

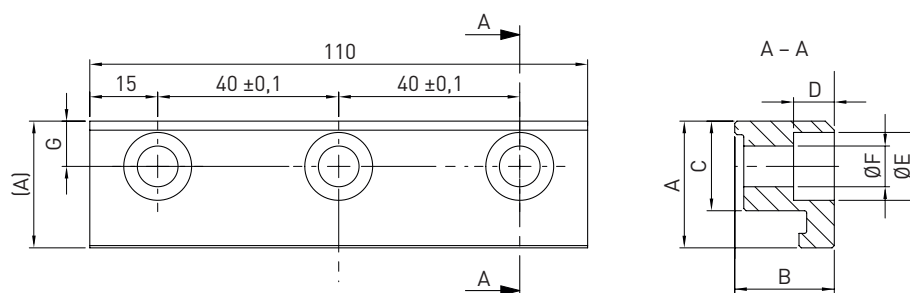


Fig. 23.3 Dimensioned drawing of clamping profile long

Table 23.2 Article numbers and dimensions of clamping profiles long

Suitable for linear axis	Model	A	B	C	D	ØE	ØF	G	Matching screw	Article number, 4 pieces
HM080/HM120 ¹⁾ / HT200 ¹⁾ /HT250 ¹⁾	Size 8	28.0	22.0	19.5	8.0	15.0	9.0	10.0	DIN 912 M8	25-000520

¹⁾ Standard

unit: mm

Linear axes and axis systems HX

Accessories

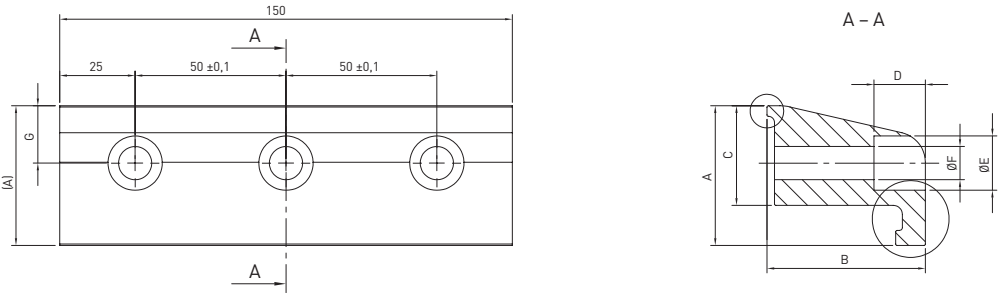


Fig. 23.4 Dimensioned drawing of clamping profile HB

Table 23.3 Article numbers and dimensions of clamping profiles HB										
Suitable for bridge axes	Model	A	B	C	D	Ø E	Ø F	G	Matching screw	Article number, 4 pieces
HB	Size 10	46.3	52.2	33	17	18.0	11.0	19.0	DIN912 M10	80113432

unit: mm

23.2 T nut

T nut for force-fit mounting of the linear axis. Flexible fastening option via the grooves on the side and underside of the axis profile. The required number of T nuts depends on the axis length and the load and can be found in the assembly instructions. Sets containing 10 T nuts are available.

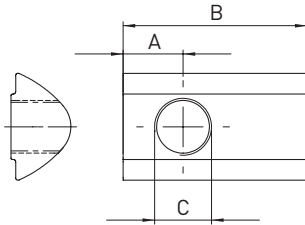


Fig. 23.5 Dimensioned drawing of T nut

Table 23.4 Article numbers and dimensions of T nut

Suitable for linear axis	Model	A	B	C	Article number, 10 pieces
HM040, HT100	Size 5 M4	3.5	12.0	M4	20-000528
HM040, HT100 ¹⁾	Size 5 M5	3.5	12.0	M5	20-000529
HM060, HT150	Size 6 M5	4.5	17.0	M5	20-000530
HM060, HT150 ¹⁾	Size 6 M6	5.5	17.0	M6	20-000531
HM080, HM120, HT200, HT250	Size 8 M5	7.5	23.0	M5	20-000532
HM080, HM120, HT200, HT250	Size 8 M6	6.5	23.0	M6	20-000533
HM080, HM120, HT200, HT250 ¹⁾	Size 8 M8	7.5	23.0	M8	20-000534
HB250	Size 10 M8	8.5	28.5	M8	80114686
HB250 ¹⁾	Size 10 M10	8.5	28.5	M10	80114691

¹⁾ Preferred type for axis mounting
unit: mm

23.3 Centring sleeve

Centring sleeves for insertion into the mounting holes of the carriage for exact and reproducible load pick-up. Sets containing 10 centring sleeves are available.

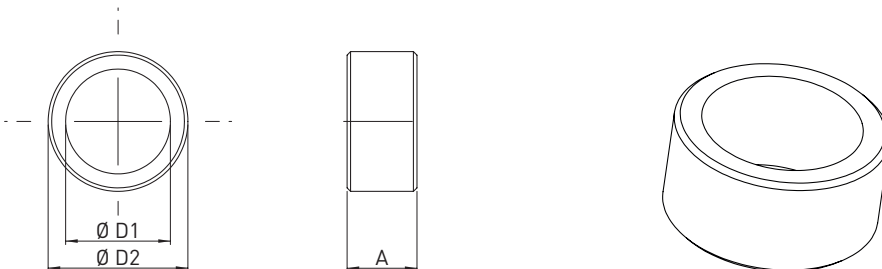


Fig. 23.6 Dimensioned drawing of centring sleeve

Table 23.5 Article numbers and dimensions of centring sleeve

Suitable for linear axis	A	Ø D1	Ø D2	Article number, 10 pieces
HC025	4	4.5	6 h6	25-002195
HM040, HM060, HT100, HT150, HC040, HC060	4	6.5	8 h6	25-000511
HM080, HT200, HC080	4	9.0	12 h6	25-000512
HM120, HT250, HC100B, HC150, HB250	4	11.0	15 h6	25-000513

Unit: mm

Linear axes and axis systems HX

Accessories

23.4 Groove cover

Groove cover for covering mounting groove. Length: 2 m. Sets of 5 groove covers are available.

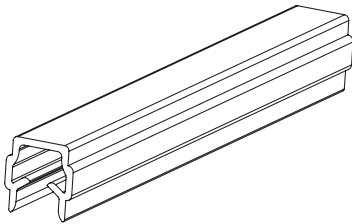


Fig. 23.7 Groove cover for linear axes HM/HT/HC

Table 23.6 Article numbers for groove covers

Suitable for linear axis	Model	Article number, 5 pieces
HM040, HT100, HC040, HC060	Size 5	25-000514
HM060, HT150, HC080	Size 6	25-000515
HM080, HM120, HT200, HT250, HC100B, HC150	Size 8	25-000516
HB250	Size 10	80114653

23.5 Limit switches

Inductive proximity switch, available in either a normally closed or a normally open version. By default, the limit switch is available with connector or open cable end. Set including mounting material.

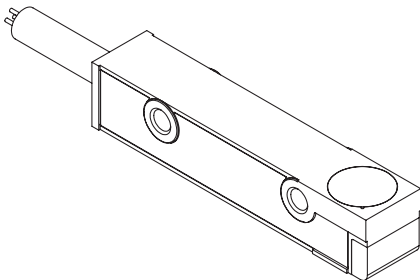


Fig. 23.8 Limit switch for linear axes HM/HT/HC

Table 23.7 Options for limit switch

Suitable for linear axis	Option	Article number
HM, HT, HC040B, HC060B, HC080B, HC100B, HC150	Limit switch with 100 mm cable, connector (normally open)	25-000786
HM, HT, HC040B, HC060B, HC080B, HC100B, HC150	Limit switch with 100 mm cable, connector (normally closed)	25-002766
HM, HT, HC040B, HC060B, HC080B, HC100B, HC150	Limit switch with 4 m cable (normally open)	25-000787
HM, HT, HC040B, HC060B, HC080B, HC100B, HC150	Limit switch with 5 m cable (normally closed)	25-000788
HC025B	Limit switch with 200 mm cable, connector (normally open)	25-002204
HC025B	Limit switch with 2 m cable (normally open)	25-002205
HB250	Limit switch with 100 mm cable, connector (normally open)	80073805
HB250	Limit switch with 300 mm cable, connector (normally closed)	80073846
HB250	Limit switch with 5 m cable (normally open)	80073857
HB250	Limit switch with 5 m cable (normally closed)	80073860

23.6 Extension cable for limit switches

Cable with 3-pin M8 round connector on the limit switch side and open wires at the other end of the cable.

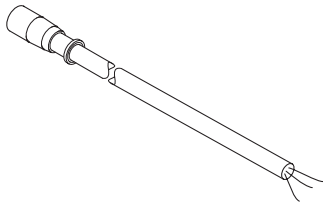


Fig. 23.9 Extension cable for limit switch

Table 23.8 Extension cable for limit switch

Length [m]	Max. cable diameter [mm]	Min. static bending radius [mm]	Min. dynamic bending radius [mm]	Article number
3	4.5	13.5	18.0	8-10-0275
5	4.5	13.5	18.0	8-10-0276
7	4.5	13.5	18.0	8-10-0277
10	4.5	13.5	18.0	8-10-0278
15	4.5	13.5	18.0	8-10-0279

23.7 Damping element

The damping element is used to switch the limit switch in the two carriage end positions (at stroke 0 and stroke max.). Set including mounting material.

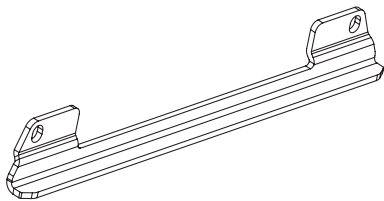


Fig. 23.10 Damping element for linear axes HM/HT

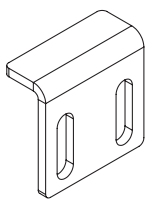


Fig. 23.11 Damping element for cantilever axes HC

Table 23.9 Article numbers for damping element

Suitable for linear axis	Article number
HM, carriage type E	25-001999
HM, carriage type S, M, L	25-000785
HT	25-001031
HC025	25-002196
HC040	25-002197
HC060, HC080	25-002198
HC100B	80056513
HC150	80077897
HB250	80073712

Linear axes and axis systems HX

Accessories

23.8 Motor cable for linear tables HT-L

Motor cable matching linear tables HT-L.

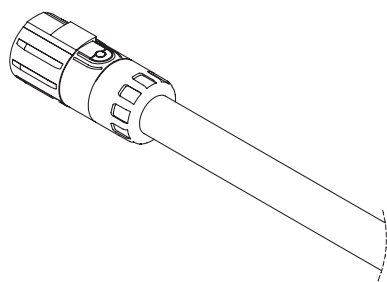


Fig. 23.12 Motor cable for linear table HT100L

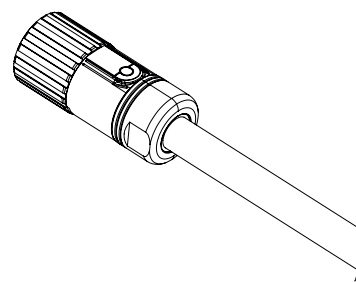


Fig. 23.13 Motor cable for linear table HT150L, HT200L, HT250L, HB250L

Table 23.10 Motor cable for linear table HT-L				
Suitable for linear axis	Length [m]	Connection axis-side	End of cable	Article number
HT100L	3	Connector 915, 9-pin	Open	8-10-1214
HT100L	5	Connector 915, 9-pin	Open	8-10-1215
HT100L	10	Connector 915, 9-pin	Open	8-10-1217
HT150L, HT200L, HT250L, HB250L	3	Connector M23	Open	8-10-0069
HT150L, HT200L, HT250L, HB250L	5	Connector M23	Open	8-10-0070
HT150L, HT200L, HT250L, HB250L	10	Connector M23	Open	8-10-0072

23.9 Encoder cable for incremental distance measuring system for linear tables HT-L

Cable for incremental distance measuring system (option A, B, D, E) for linear axes HT-L.

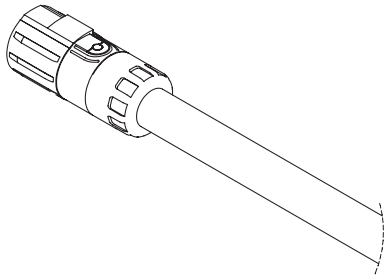


Fig. 23.14 Encoder cable for incremental distance measuring system for linear tables HT100L

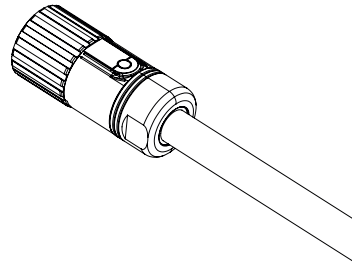


Fig. 23.15 Encoder cable for incremental distance measuring system for linear tables HT150L, HT200L, HT250L, HB250L

Table 23.11 Encoder cable for incremental distance measuring system (A, B, D, E option)

Suitable for linear axis	Length [m]	Suitable for option	Connection axis-side	End of cable	Article number
HT100L	3	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1838
HT100L	5	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1839
HT100L	8	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1840
HT100L	10	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1841
HT100L	12	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1842
HT100L	15	A, B	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1843
HT100L	3	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1844
HT100L	5	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1845
HT100L	8	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1846
HT100L	10	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1847
HT100L	12	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1848
HT100L	15	D, E	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1849
HT100L	3	A, D	Connector 915, 15-pin	Open	8-10-1207
HT100L	5	A, D	Connector 915, 15-pin	Open	8-10-1208
HT100L	10	A, D	Connector 915, 15-pin	Open	8-10-1210
HT100L	3	B, E	Connector 915, 15-pin	Open	8-10-1201
HT100L	5	B, E	Connector 915, 15-pin	Open	8-10-1202
HT100L	10	B, E	Connector 915, 15-pin	Open	8-10-1204
HT150L, HT200L, HT250L, HB250L	3	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1856
HT150L, HT200L, HT250L, HB250L	5	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1857
HT150L, HT200L, HT250L, HB250L	8	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1858
HT150L, HT200L, HT250L, HB250L	10	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1859
HT150L, HT200L, HT250L, HB250L	12	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1860
HT150L, HT200L, HT250L, HB250L	15	A, B	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1861
HT150L, HT200L, HT250L, HB250L	3	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1862
HT150L, HT200L, HT250L, HB250L	5	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1863
HT150L, HT200L, HT250L, HB250L	8	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1864
HT150L, HT200L, HT250L, HB250L	10	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1865
HT150L, HT200L, HT250L, HB250L	12	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1866
HT150L, HT200L, HT250L, HB250L	15	D, E	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1867
HT150L, HT200L, HT250L, HB250L	3	A, D	Connector M17	Open	8-10-0115
HT150L, HT200L, HT250L, HB250L	5	A, D	Connector M17	Open	8-10-0116
HT150L, HT200L, HT250L, HB250L	10	A, D	Connector M17	Open	8-10-0118
HT150L, HT200L, HT250L, HB250L	3	B, E	Connector M17	Open	80028093
HT150L, HT200L, HT250L, HB250L	5	B, E	Connector M17	Open	80028203
HT150L, HT200L, HT250L, HB250L	10	B, E	Connector M17	Open	80028218

Linear axes and axis systems HX

Accessories

23.10 Encoder cable for absolute distance measuring system for linear tables HT-L

Cable for absolute distance measuring system (option H, R, S, T) for linear axes HT-L.

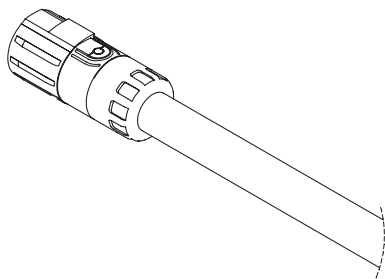


Fig. 23.16 Encoder cable for absolute distance measuring system for linear tables HT100L

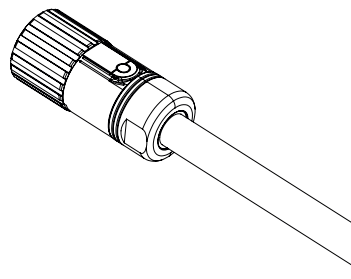


Fig. 23.17 Encoder cable for absolute distance measuring system for linear tables HT150L, HT200L, HT250L, HB250L

Table 23.12 Encoder cable for absolute distance measuring system (H, T, R, S option)					
Suitable for linear axis	Length [m]	Suitable for option	Connection axis-side	End of cable	Article number
HT100L	3	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1850
HT100L	5	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1851
HT100L	8	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1852
HT100L	10	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1853
HT100L	12	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1854
HT100L	15	H, R	Connector 915, 15-pin	Connector suitable for ESC-SS for ED1	8-10-1855
HT100L	3	H, R, S, T	Connector 915, 15-pin	Open	8-10-1207
HT100L	5	H, R, S, T	Connector 915, 15-pin	Open	8-10-1208
HT100L	10	H, R, S, T	Connector 915, 15-pin	Open	8-10-1210
HT150L, HT200L, HT250L, HB250L	3	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1868
HT150L, HT200L, HT250L, HB250L	5	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1869
HT150L, HT200L, HT250L, HB250L	8	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1870
HT150L, HT200L, HT250L, HB250L	10	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1871
HT150L, HT200L, HT250L, HB250L	12	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1872
HT150L, HT200L, HT250L, HB250L	15	H, R	Connector M17	Connector suitable for ESC-SS for ED1	8-10-1873
HT150L, HT200L, HT250L, HB250L	3	H, T, R, S	Connector M17	Open	8-10-0315
HT150L, HT200L, HT250L, HB250L	5	H, T, R, S	Connector M17	Open	8-10-0316
HT150L, HT200L, HT250L, HB250L	10	H, T, R, S	Connector M17	Open	8-10-0318

23.11 Partitions for energy chain

Partitions for separating cables in the energy chain By default, the energy chain is equipped with a partition in every second chain link. Additional partitions are available in a set of 20.

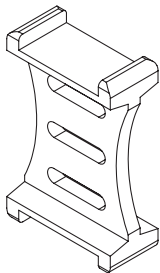


Fig. 23.19 Partition for energy chains

Table 23.13 Article numbers for partitions

Suitable for linear axis				Article number, 20 pcs.
HT/HB	HS (X-axis)	HS (Y-axis)	HS (Z-axis)	
—	—	—	31, L1	8-05-0393
100, 150L	21, 31, L1, L2, L3, L4	21, 22, 23, 24, 31, 32, 33, 34	32, 33, 34, L2, L3, L4	8-05-0336
150B, 150S, 200, 250	22, 23, 24, 32, 33, 34	—	—	8-05-0337

23.12 Belt for noise reduction of the energy chain

Cellular rubber tape, self-adhesive on one side, for attachment to the contact surface of the energy chain in order to reduce noise emissions. Suitable for all linear axes HT, HB and HS with energy chain (exception HT150L with drive interface E or F).

Roll of 10 m

Article number: 25-002485

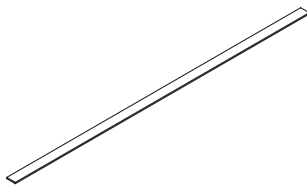


Fig. 23.18 Belt for reduction of noise emissions from the energy chain

Linear axes and axis systems HX

Accessories

23.13 Drive block cover

Cover plate for closing unneeded drives/outputs on linear axes with toothed belt drive

HM-B, HT-B, HB-B and HC-B.

Set including mounting material.

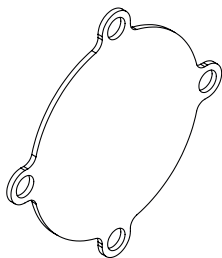


Fig. 23.20 Cover for drive block

Table 23.15 Article numbers for drive block cover	
Suitable for linear axis	Article number
HC025B	25-002379
HM040B, HC040B	25-002375
HM060B, HC060B	25-002376
HM080B, HC080B	25-002377
HM120B, HC100B	25-002378
HT100B	25-002372
HT150B	25-002373
HT200B, HT250B	25-002374
HC150	80111835
HB250	80111787

23.14 Journals for linear axes HM-B and cantilever axes HC

The journal can be clamped to each side of the drive wheel. It can be used to adapt the drive/output, synchronous drive, encoder attachment or the like.

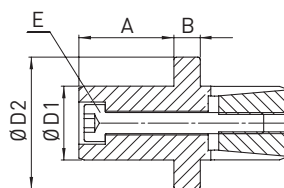
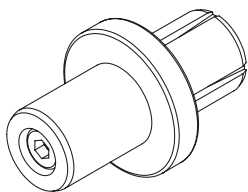


Fig. 23.21 Journal dimensions

Table 23.14 Article numbers and dimensions of journals									
Suitable for linear axis	A [mm]	B [mm]	E (screw)	Ø D1 [mm]	Ø D2 [mm]	Screw tightening torque [Nm]	Moment of inertia [kgmm ²]	Transmittable torque (arithmetic) [Nm]	Article number
HC025B	12	5.5	ISO 4762 M4 × 25	12 h7	17 h9	2.9	0.24	7.7	25-002514
HM040B, HC040B	18	5.0	ISO 4762 M4 × 30	14 h7	25 h9	4.5	1.21	17.0	25-000174
HM060B, HC060B	22	8.0	ISO 4762 M6 × 45	20 h7	32 h9	10.0	5.37	36.0	25-000175
HM080B, HC080B	30	8.0	ISO 4762 M8 × 55	25 h7	45 h9	25.0	17.70	81.0	25-000176
HM120B, HC100B, HC150B	30	10.0	ISO 4762 M10 × 60	32 h7	55 h9	55.0	55.70	213.0	25-000177

23.15 Synchronous shaft

The synchronous shaft is used on double axes to transmit the drive torque from the driven axis to the rotating axis. In addition to the actual synchronous shaft, the set also includes the coupling elements and the adaptation material.

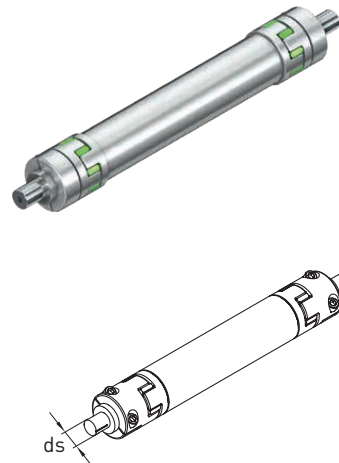
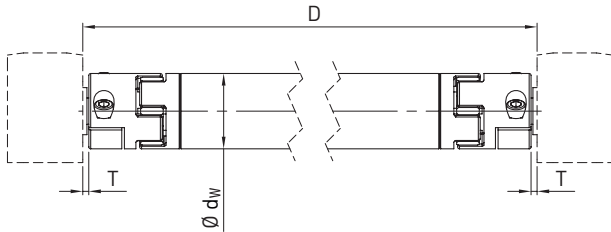
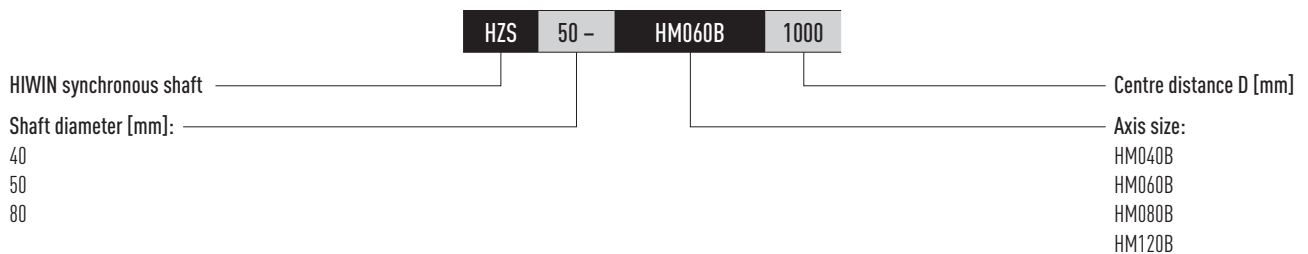


Table 23.17 Dimensions of synchronous shaft

Suitable for double axis	D min.	D max.	T	Ø shaft	Ø ds
HD1/HM040B	160	1,500	3.2	40	14
HD2/HM060B	186	2,000	7.2	50	20
HD3/HM080B	200	2,400	14.2	50	25
HD4/HM120B	256	3,000	5.7	80	35

Unit: mm

23.15.1 Order code for synchronous shaft



23.15.2 Spacer

The spacer is required when the synchronous shaft is not installed horizontally to prevent metal-on-metal contact in the lower coupling.

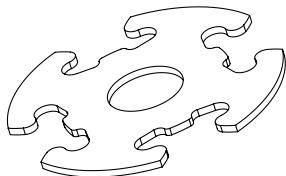


Table 23.16 Article numbers for spacer

Suitable for double axis	Suitable for synchronous shaft	Article number
HD1/HM040B	HZS40HM040Bxxxx ¹⁾	25-000730
HD2/HM060B	HZS50HM060Bxxxx ¹⁾	25-000731
HD3/HM080B	HZS50HM080Bxxxx ¹⁾	25-000731
HD4/HM120B	HZS80HM120Bxxxx ¹⁾	25-000733

¹⁾ xxxx = centre distance D

Linear axes and axis systems HX

Accessories

23.17 HIWIN lubricants

Table 23.19 Recommended HIWIN grease

Grease type	Area of application	Unit of measure	Article number
G04	Linear guideway Ball screw	Cartridge 400 g	20-000345
Grease rack	Rack and pinion	Cartridge 400 g	80076723

Table 23.20 Recommended HIWIN grease gun

Article number	Description	Scope of delivery	Comment
20-000333	Grease gun type GN-400C including lubrication adapter and nozzle set (see Fig. 23.22)	Grease gun type GN-400-C consisting of: - Grease gun - Hydraulic gripping coupling A1 suitable for conical grease nipples according to DIN 71412, outer diameter 15 mm - Hollow mouthpiece A2 for conical and ball grease nipples according to DIN 71412/ DIN 3402, outer diameter 10 mm - Set of lubrication adapters and nozzles	Suitable for 400 g cartridge or direct filling



Fig. 23.22 Grease gun GN-400C

23.16 HIWIN grease nipple

Grease nipple suitable for HM, HT, HB and HC, all sizes, all drive types.

Table 23.18 Grease nipple M4 × 0.7

Article number	Linear axes HM	Linear tables HT	Cantilever axes HC	Figure
20-000325	Standard	Standard: HT100B Option: HT150B, HT200B, HT250B	Standard: HC025B, HC040B, HC060B, HC080B, HC100B	
20-000538	Option	Standard: HT150B, HT200B, HT250B Option: HT100B	Option: HC025B, HC040B, HC060B, HC080B, HC100B	
20-000272	Option	Option	Option: HC025B, HC040B, HC060B, HC080B, HC100B	

Table 23.21 Grease nipple M10 × 1

Article number	Bridge axes HB	Cantilever axes HC	Figure
20-000279	Standard	Standard: HC150B, HC150R	

23.18 Push-in fittings and lubrication adapters

Table 23.22 Push-in fittings and lubrication adapters M4 × 0,7 (Suitable for HM, HT, HC025B, HC040B, HC060B, HC080B, HC100B)

Article number	Description	Figure
8-12-0186	Push-in fitting straight Ø 4	
20-002116	Push-in fitting angled Ø 4	
20-002108	Lubrication adapter M4/M4 for extending the push-in fittings to avoid collisions (e.g. damping element)	A-A

Linear axes and axis systems HX

Accessories

Table 23.23 Hose connection piece and lubrication adapter M10 × 1 (Suitable for HB, HC150B, HC150R)		
Article number	Description	Figure
80090309	Hose fitting, 90°, M10 × 1, d6	
80074396	Hose fitting, 90°, M10 × 1, d8	
80112336	Lubrication adapter, M8 × 1 auf M10 × 1	

WE LIVE NOTION

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