

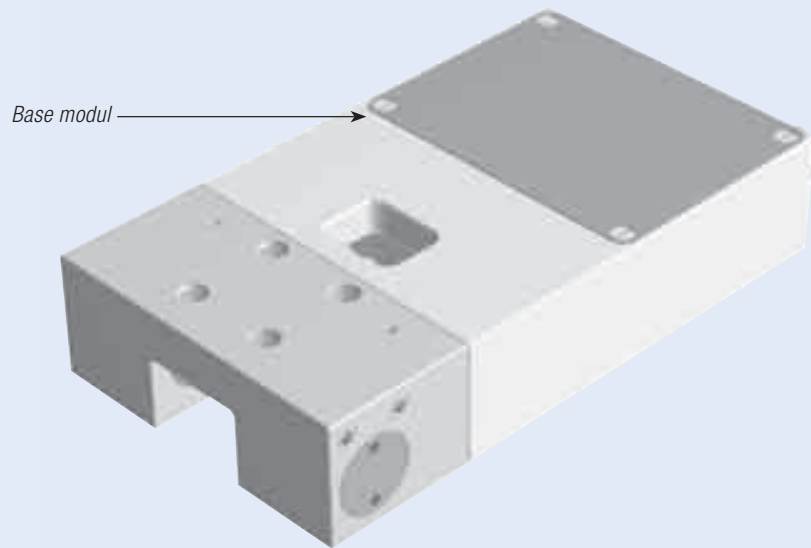
High holding forces – electric drive: The electric Clamping Element MKE.

The MKE has been developed from the MK series. The clamping power is generated using our conventional wedge slide gear. The electronic components consist of two parts, the part integrated into the clamping element and the triggering electronics. By monitoring the current electronically, the required holding power is achieved.

The functional principle of self-locking makes clamping without electric current possible, i.e. in the released or clamped state only the control voltage is applied.

The element is available with a cable or as a standard element with a connector on request.

MKE Design



Special characteristics:

- Tension control in clamped position
- Tension control in unclamped position
- High clamping power
- Exact positioning
- Strong axial and horizontal rigidity
- Reliable mechanism

Application scenarios for MKE:

- Axes with electric positioning
- Table traverses in medical applications
- Fixing of vertical axes
- Positioning of lifting devices
- Electric clamping of machine tables
- Machine table clamping of work centres

Variations:

Depending on the height of the carriage, an additional adapting plate must be ordered (see table).

Connection options:

The MKE is supplied with an external control and as a standard element with a straight plug version. The clamping element is available with an angulated plug version or cable version on request.

Technical Data:

Safety category: IP 65

External electronic components

Supply voltage: 24V DC

Power consumption: **Switch-on current depends on size,**
see datasheet

Fuse: **Electronic component group fitted**
with separate fuse

Dimensions: L = 100 mm, W = 22.5 mm, D = 115 mm

Mounting: Can be clipped on rail section

Control inputs: Direction (open/closed) 24V DC

Control outputs: **Pos. 0 (open)**
PNP 24V, 100mA resistance to short circuit
Pos. 1 (closed)
PNP 24V, 100mA resistance to short circuit

Connection lead: **Plug 12x1, plug on clamping side,**
Plug lead, 8-pole, sheathed (available as
accessory) or clamping with
clamp arrangement (3 m).

Plan of terminal connections: See www.zimmer-gmbh.com

MKE

Rail manufacturer



Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm]	Measure D [mm] ^{*2} (page 100)
SR, SSR	15	SR..TB, SR..SB, SR..W, SR..V, SSR..XWY, SSR..XVY, SSR..XTBY	MKE 1501 A		24	1
	20	SR..TB, SR..SB, SR..W, SR..V, SSR..XW, SSR..XV, SSR..XTB	MKE 2001 A		28	8
	25	SR..TB, SR..SB, SR..W, SR..V, SSR..XWY, SSR..XVY, SSR..XTBY	MKE 2501 A		33	11
	30	SR..TB, SR..SB, SR..W, SR..V, SSR..XW	MKE 3001 A		42	15
	35	SR..TB, SR..SB, SR..W, SR..V, SSR..XW	MKE 3501 A		48	9
HSR	15	HSR..A, HSR..B	MKE 1501 A		24	1
		HSR..R	MKE 1501 A	PMK 15-4	28	
	20	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..R, HSR..LR, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKE 2001 A		30	3
		HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKE 2501 A		36	7
	30	HSR..R, HSR..LR	MKE 2501 A	PMK 25-4	40	
		HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKE 3001 A		42	15
	35	HSR..R, HSR..LR	MKE 3001 A	PMK 30-3	45	
		HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKE 3501 A	PMK 35-3	48	16
	HSR..R, HSR..LR	MKE 3501 A	PMK 35-10	55		
SNR/SNS	25	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	MKE 2501 N		31	12
		SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	MKE 3001 A		38	17
	35	SNR..R, SNR..LR, SNR..C, SNR..LC, SNS..R, SNS..LR, SNS..C, SNS..LC	MKE 3501 A		44	13
		SNR..RH, SNR..LRH, SNS..RH, SNS..LRH	MKE 3501 A	PMK 35-11	55	13
SHS	15	SHS..C, SHS..LC, SHS..V, SHS..LV	MKE 1501 A		24	1
		SHS..R	MKE 1501 A	PMK 15-4	28	
	20	SHS..C, SHS..LC, SHS..V, SHS..LV	MKE 2001 A		30	3
		SHS..C, SHS..LC, SHS..V, SHS..LV	MKE 2501 A	PMK 25-2	36	14
	30	SHS..R, SHS..LR	MKE 2501 A	PMK 25-6	40	
		SHS..C, SHS..LC, SHS..V, SHS..LV	MKE 3001 A		42	15
	35	SHS..R, SHS..LR	MKE 3001 A	PMK 30-3	45	
		SHS..C, SHS..LC, SHS..V, SHS..LV	MKE 3501 A	PMK 35-4	48	13
	SHS..R, SHS..LR	MKE 3501 A	PMK 35-11	55		
SRG	15	SRG..A, SRG..V	MKE 1501 E		24	2
	20	SRG..A, SRG..LA, SRG..V, SRG..LV	⊙		30	
	25	SRG..C, SRG..LC	MKE 2501 E	PMK 25-5	36	5
		SRG..R, SRG..LR	MKE 2501 E	PMK 25-9	40	
	30	SRG..C, SRG..LC	⊙		42	
		SRG..R, SRG..LR	⊙		45	
	35	SRG..C, SRG..LC	MKE 3501 E		48	10
		SRG..R, SRG..LR	MKE 3501 E	PMK 35-7	55	

^{*1} Only required for high carriage design

^{*2} Supplements the measure table and datasheet

See page 12 for part number explanation

Type of rail	Size	Type of carriage	Item number	Adapting plate ^{*1} (for height compensation)	Measure D [mm] ^{*2}	Measure table (page 100)
1605, 1607	15	1622, 1623, 1631, 1632, 1651, 1653, 1661, 1662, 1665, 1666	MKE 1505 AK		24	2
		1621	MKE 1505 AK	PMK 15-4	28	
	20	1622, 1623, 1651, 1653, 1661, 1662, 1665, 1666	MKE 2005 AK		30	4
		1622, 1623, 1631, 1632, 1651, 1653, 1661, 1662, 1665, 1666	MKE 2505 AK		36	6
	30	1621, 1624	MKE 2505 AK	PMK 25-4	40	
		1622, 1623, 1631, 1632, 1651, 1653, 1661, 1662, 1665, 1666	⊗			
	35	1621, 1624	MKE 3505 AK		48	10
		1622, 1623, 1631, 1632, 1651, 1653, 1661, 1662, 1665, 1666	MKE 3505 AK	PMK 35-7	55	
1805, 1807	25	1851, 1853	MKE 2505 AR		36	6
		1821, 1824	MKE 2505 AR	PMK 25-4	40	
	35	1851, 1853	MKE 3505 AR		48	10
		1821, 1824	MKE 3505 AR	PMK 35-7	55	

Rail manufacturer

Rexroth
Bosch Group

MR	25	MR..A, MR..B	MKE 2503 MR		36	6
		MR..C, MR..D, MR..E	MKE 2503 MR	PMK 25-4	40	
	35	MR..A, MR..B	MKE 3503 MR		48	10
		MR..C, MR..D, MR..E	MKE 3503 MR	PMK 35-7	55	
BM	15	BM..A, BM..F, BM..K / BM..C	⊗		24/28	
	20	BM..A, BM..B, BM..C, BM..D, BM..F, BM..G, BM..K	MKE 2003 BM		30	4
	25	BM..A, BM..B, BM..F, BM..G	MKE 2503 BM		36	6
		BM..C, BM..D, BM..E	MKE 2503 BM	PMK 25-4	40	
	30	BM..A, BM..B, BM..F, BM..G / BM..C, BM..D, BM..E	⊗		42/45	
	35	BM..A, BM..B, BM..F, BM..G	MKE 3503 BM		48	10
BM..C, BM..D, BM..E		MKE 3503 BM	PMK 35-7	55		

Rail manufacturer

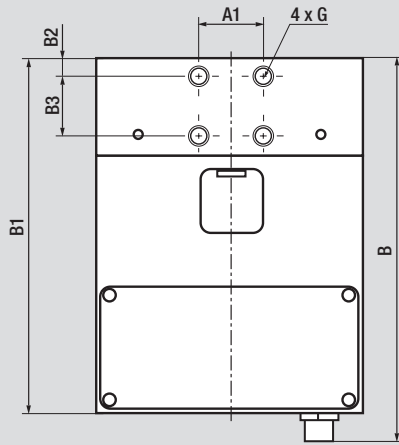
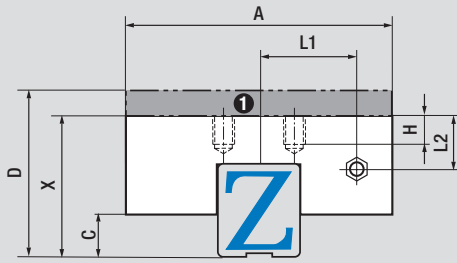
SCHNEEBERGER
RAIL SYSTEMS

^{*1} Only required for high carriage design

^{*2} Supplements the measure table and datasheet

See page 12 for part number explanation

MKE



Note: Consider measurement C!

1 adapting plate PMK (accessories)

Measure table	Holding power [N] MKE	A [mm]	A1 [mm]	B [mm]	B1 [mm]	B2 [mm]	B3 [mm]	C [mm]	X [mm]	G	L1 [mm]	L2 [mm]	H [mm]
1	550	55	15	133	120	8,5	15	2,5	24	M4	17	12	4,5
2	550	55	15	133	120	8,5	15	3,2	24	M4	17	11,6	4,5
3	800	66	20	135	120	14	20	4,5	30	M5	21,5	14,4	5
4	800	66	20	133	120	10	20	3	30	M6	21,5	15,5	6
5	1200	75	20	148	135	10	20	3,5	31	M6	24,5	20	8
6	1200	75	20	148	135	10	20	3,5	36	M6	24,5	20	8
7	1200	75	20	148	135	10	20	8	36	M6	24,5	15,4	8
8	800	66	20	135	120	14	20	2,5	28	M5	21,5	14,4	5
9	2000	100	24	174	161	7,5	24	11,5	48	M8	34	20,5	10
10	2000	100	24	174	161	7,5	24	4	48	M8	34	28	10
11	1200	75	20	148	135	10	20	5	33	M6	24,5	15,4	8
12	1200	75	20	148	135	10	20	3	31	M6	24,5	15,4	8
13	2000	100	24	174	161	7,5	24	7,5	44	M8	34	20,5	10
14	1200	75	20	148	135	10	20	6	34	M6	24,5	15,4	8
15	2000	90	22	174	161	8,5	22	7	42	M8	29	20,3	10
16	2000	100	24	174	161	7,5	24	8,5	45	M8	34	20,5	10
17	2000	90	22	174	161	8,5	22	3	38	M8	29	20,3	10

