

## Performance overview

	Movopart M55				Movopart M75				Movopart M100				Movopart CB	Movopart M50
Drive type	Screw		Belt		Screw		Belt		Screw		Belt		Belt	Belt
Guide type	Prism	Ball	Prism	Ball	Prism	Ball	Prism	Ball	Prism	Ball	Prism	Ball	Wheel	Slide
Max. stroke [m]	3	3	7	7	4	4	12	12	6	6	12	12	12	5
Max. load Fx [N]	1000	1000	400	400	2500	2500	900	900	5000	5000	1250	1250	1100	400
Max. load Fy [N]	600	1350	600	1100	2200	3000	2200	2600	4500	7500	4500	6000	4200	350
Max. load Fz [N]	600	1350	600	1100	2200	3000	2200	2600	4500	7500	4500	6000	2400	350
Max. speed [m/s]	1,6	1,6	5	5	1	1	5	5	1,25	1,25	5	5	5	5

	Microstage MS25	Microstage MS33	Accuslide E10		Accuslide E20		Superslide E12		Superslide E16	
Drive type	Screw	Screw	Screw	Belt	Screw	Belt	Screw	Belt	Screw	Belt
Guide type	Ball	Ball	Ball	Ball	Ball	Ball	Ball	Ball	Ball	Ball
Max. stroke [m]	0,283	0,3	0,85	0,85	2,8	2,8	1,9	2,8	2,8	2,8
Max. load Fx [N]	20	45	2000	485	4500	1488	2000	485	3000	1488
Max. load Fy [N]	100	150	4000	4000	15 000	15 000	800	800	2100	2100
Max. load Fz [N]	100	150	8000	8000	30 000	30 000	1600	1600	4300	4300
Max. speed [m/s]	0,15	0,1	0,5	3	1,25	3	0,5	3	1	3

	MovoZ Z2	MovoZ Z3	MovoZ ZB
Drive type	Screw	Screw	Belt
Guide type	Slide	Slide	Ball
Max. stroke [m]	1,5	1,5	2,5
Max. load Fz [N]	7500	7500	500
Max. speed [m/s]	1	1	3

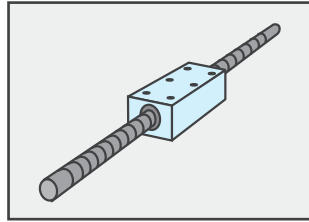
	T90	T130
Drive type	Screw	Screw
Max. stroke [m]	1,5	2
Max. load Fx [N]	10 000	40 000
Max. speed [m/s]	1,25	2

## Technology overview

### Drive types

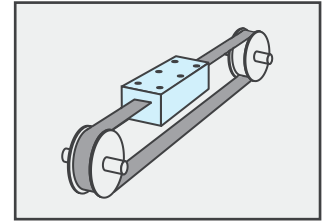
#### Screw drive

- High load at low speed
- High position accuracy
- High repeatability
- Safety nut available
- Screw supports available
- Low drive torque
- High vertical load



#### Belt drive

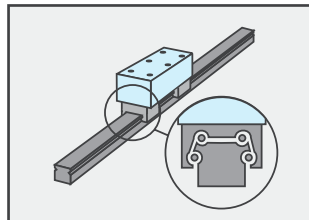
- High speed
- High repeatability
- Long stroke
- Low noise level
- Minimum maintenance
- Play-free operation



### Guide types

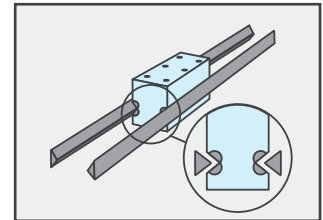
#### Ball and wheel guides

- High speed
- Play-free versions
- Low friction
- Low drive torque
- No stick-slip



#### Prism and sliding guides

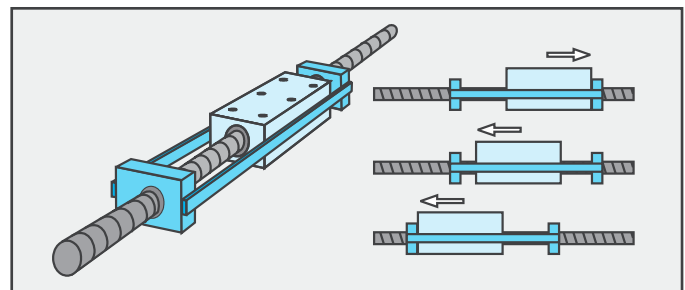
- High speed
- Silent
- Pollution resistant
- Adjustable
- Long life and low wear
- Resistant to shock and vibration
- Lubricated for life



### Screw support (Movopart)

#### Option for screw driven M55, M75 and M100 units

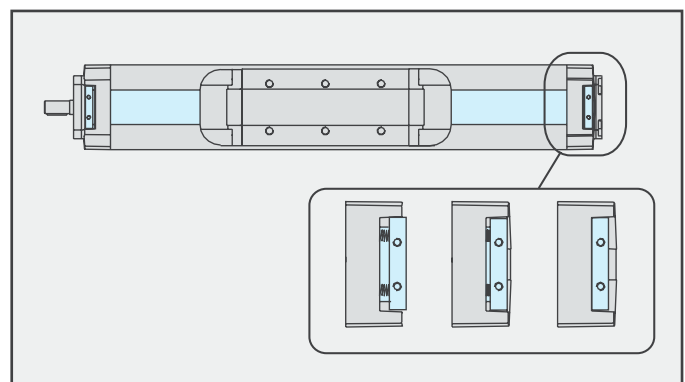
- Allows screw driven units with high speed and long stroke (reduces screw vibrations)
- Single or double screw supports available
- Require no extra maintenance



### Cover band (Movopart)

#### Standard feature on all M55, M75 and M100 units

- Magnetically sealed protection
- Cover band does not reduce available stroke
- Cover band in stainless steel
- Protects internal parts from dust and dirt
- The unique cover band stretcher function increase life of cover band

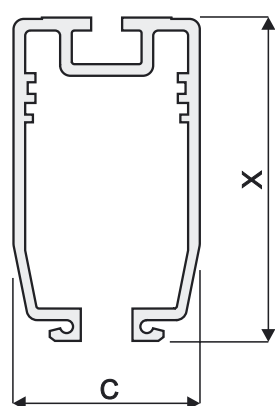


### Technical data for rail profiles

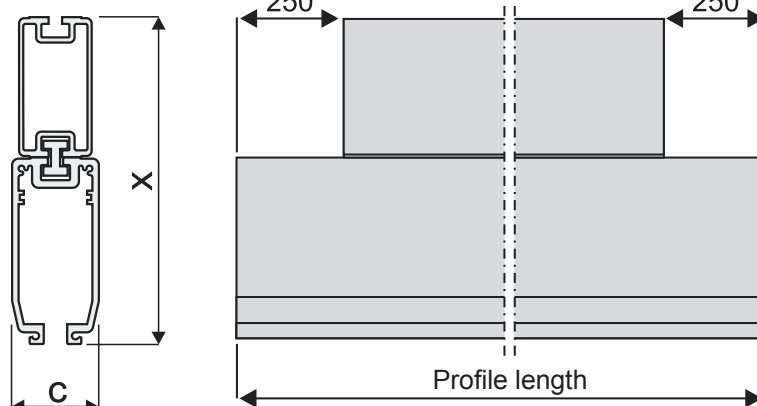
	SPR 85	SPR 125	SPR 160A	SPR 295B	SPR 295W
X [mm]	85	125	160	295	295
C [mm]	68,8	71,5	73,5	73,5	73,5
Profile lengths [m]*	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8
Inertia [cm <sup>4</sup> ]	97	333	812	1368	3700
Weight/meter [kg/m]	3	5	7,8	14	14,1

\*Longer rails available upon request.

SPR 85, SPR 125, SPR 160A

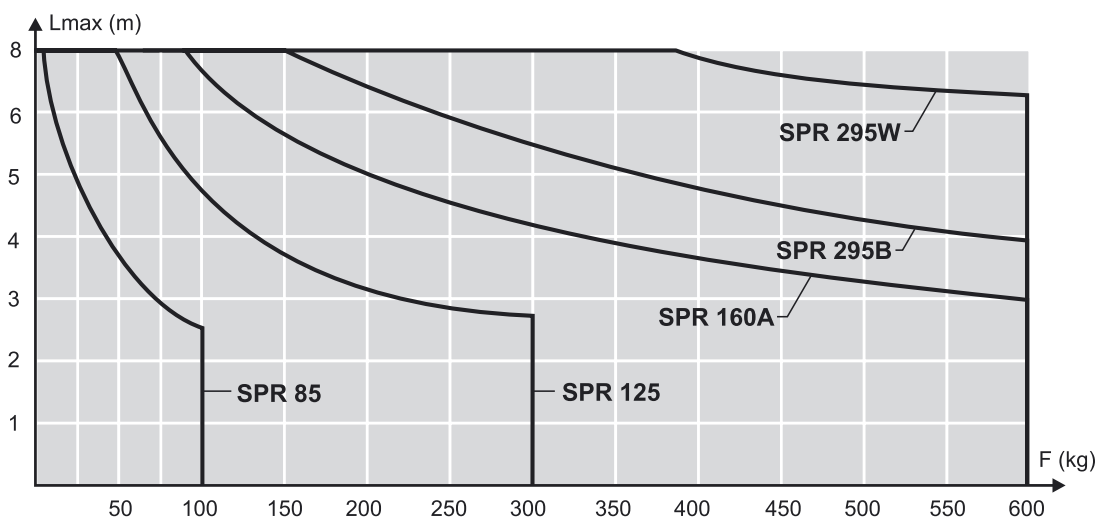
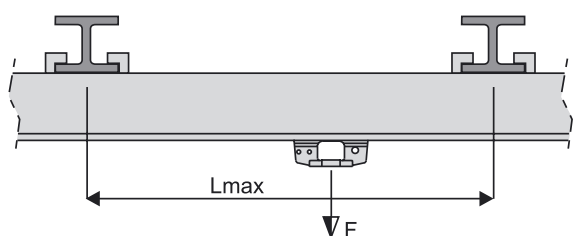


SPR 295B, SPR 295W



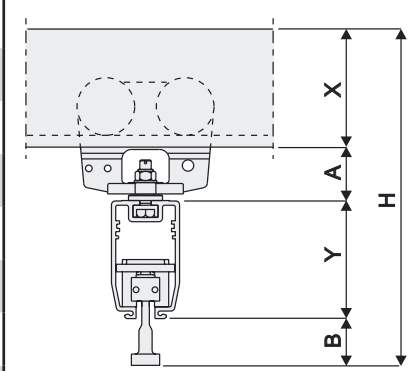
### Maximum permissible deflection of the rails

The diagram is based on a maximum deflection of 1/500 of the distance between the suspensions (Lmax).



**Installation dimensions for standard systems using BGV trolleys [mm]**

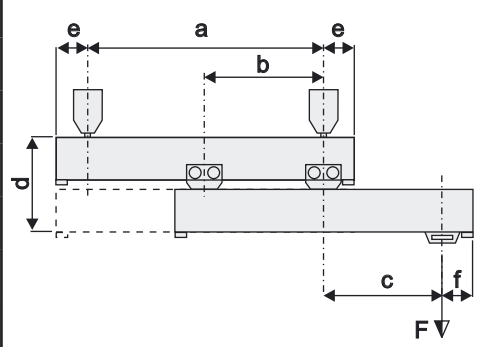
X-profile	Y-profile	X	Y	A	B	H
SPR 85	SPR 85	85	85	57,5	52	279,5
SPR 85	SPR 125	85	125	58,5	49,5	318
SPR 85	SPR 160A	85	160	58,5	45	348,5
SPR 125	SPR 85	125	85	55	52	317
SPR 125	SPR 125	125	125	56	49,5	355,5
SPR 125	SPR 160A	125	160	56	45	386
SPR 160A	SPR 85	160	85	50,5	52	347,5
SPR 160A	SPR 125	160	125	51,5	49,5	386
SPR 160A	SPR 160A	160	160	51,5	45	416,5
SPR 295B(W)	SPR 85	295	85	50,5	52	482,5
SPR 295B(W)	SPR 125	295	125	51,5	49,5	521
SPR 295B(W)	SPR 160A	295	160	51,5	45	551,5



The diagram shows a side view of a BGV trolley mounted on a rail. Dimension X is the height from the top of the rail to the top of the trolley. Dimension A is the height from the top of the rail to the center of the trolley. Dimension Y is the height from the center of the trolley to the bottom of the rail. Dimension B is the height from the bottom of the rail to the bottom of the trolley. Dimension H is the total height from the top of the rail to the bottom of the trolley.

**Installation dimensions and load capacity for systems with telescopic crane rail [mm]\***

X-profile	Y-profile	a	b	c	d	e	f	Max. Load F [N]
SPR 85	SPR 85	2000	1000	1000	229	250	200	400
SPR 85	SPR 85	3000	1500	1000	229	250	200	300
SPR 85	SPR 85	4000	2000	1000	229	250	200	250
SPR 125	SPR 125	2000	1000	1000	307	250	200	1400
SPR 125	SPR 125	3000	1500	1000	307	250	200	1000
SPR 125	SPR 125	4000	2000	1000	307	250	200	900
SPR 160A	SPR 160A	2000	1000	1000	372	250	200	3000
SPR 160A	SPR 160A	3000	1500	1000	372	250	200	2500
SPR 160A	SPR 160A	4000	2000	1000	372	250	200	2000



The diagram shows a side view of a telescopic crane rail system. Dimension a is the total length of the rail. Dimension b is the distance between two trolleys. Dimension c is the distance from the end of the rail to the center of a trolley. Dimension d is the height of the rail. Dimension e is the distance from the end of the rail to the center of a trolley. Dimension f is the distance from the center of a trolley to the end of the rail. A load F is applied vertically at the end of the rail.

\*The table above only show a few examples of all possible combinations of loads and dimensions.