

SKF Miniature Slide LZM

With the new LZM Miniature Slide product range SKF Linear Motion & Precision Technologies offers the ideal solution for linear motion applications for short strokes and compact boundary dimensions. The use of miniature slides has increased in medical applications, measurement technologies and micro mechanics & assembly.

The different LZM Miniature Slide components meet the highest precision standards. LZM Miniature Slides feature high running accuracy and smooth motion.

The LZM Miniature Slides are manufactured with all stainless steel components. Optimized hardness enables long endurance life and high performance within compact boundary dimensions.

The new LZM Miniature Slides have been designed to ensure high system stiffness and precision guidance. Running accuracies of $2\ \mu\text{m}$ over a stroke of 100 mm are attainable depending on the particular application. Ease of installation is another advantage of the LZM Miniature Slides. Unlike cross roller systems using 4 rails and cages to be assembled on the production floor, the LZM slide provides a complete slide that can simply be bolted into place without the use of precision devices to set preload.

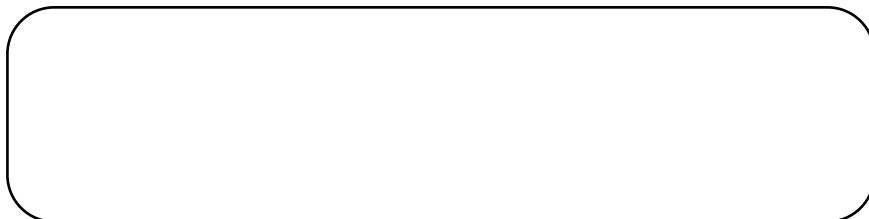
Every application provides new challenges for the modern designer. SKF will modify existing designs to meet your specific technical requirements.

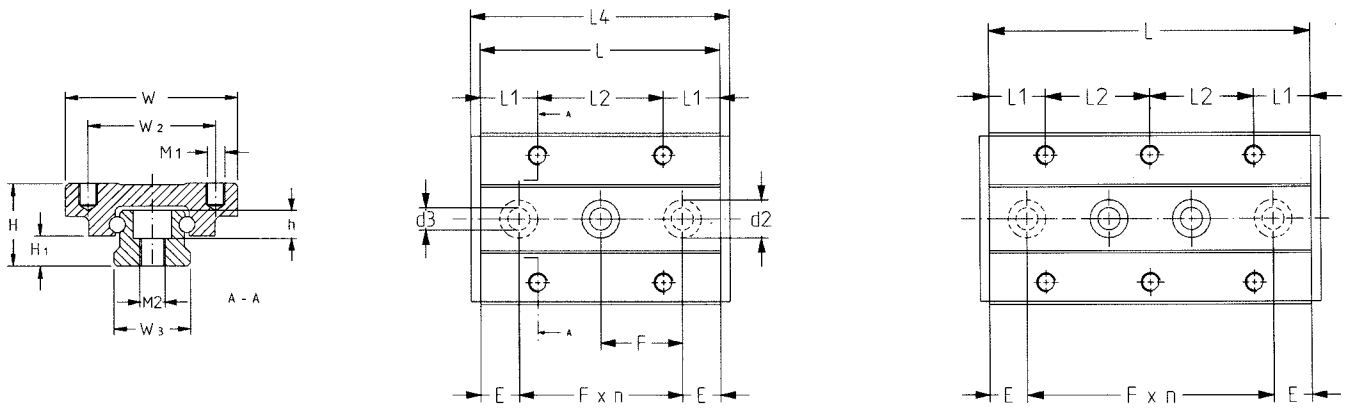
Applications:

- Pneumatics
- Semi conductor manufacturing
- Medical
- Micro- and electronics assembly
- Measurement applications
- Fiber optics

Advantages:

- Compact design
- High carrying capacity
- Very good running accuracy
- Smooth running
- High stiffness
- Easy assembly





Main Dimensions for Miniature Slide Units

Type	W	W ₂	W ₃	L ₂	M1 x depth	d3 x d2 x h	H	H ₁	M ₂	F
mm										
LZM HS 7	17	12	7	8	M2 x 2,5	2,5 x 4,5 x 2,5	8	2,35	M3	15
LZM HS 9	20	15	9	13	M3 x 3	3,5 x 6 x 3,5	10	3,55	M4	20
LZM HS 12	27	20	12	15	M3 x 3,5	3,5 x 6 x 4,5	13	4,7	M4	25
LZM HS 15	32	25	15	20	M3 x 4	3,5 x 6 x 4,5	16	6	M4	40

Type	L	L ₄	E	L ₁	max. Stroke	Number of holes Carriage	Number of holes Rail	C	C ₀	Ma/Mb	Mc
mm								N	Nm		
LZM HS 7	26	29	5,5	5	24	6	2	1000	1700	3,5	6
	34	37	9,5	5	34	8	2	1100	2100	5,5	7
	50	53	10	5	50	12	3	1500	3100	12	10
	66	69	10,5	5	66	16	4	1800	4100	21	14
LZM HS 9	32	35	8	9,5	28	4	2	1600	2700	7	12
	42	45	11	8	40	6	2	1900	3400	11	15
	55	58	7,5	8	54	8	3	2300	4300	18	19
	81	84	10,5	8	78	12	4	3000	6500	43	29
	94	97	7	8	92	14	5	3300	7400	57	33
LZM HS 12	37	40	6	11	32	4	2	2500	3800	11	21
	51	54	13	10,5	47	6	2	3100	5300	22	28
	66	69	8	10,5	62	8	3	3600	6700	36	36
	96	99	10,5	10,5	95	12	4	4700	9700	76	52
	126	129	13	10,5	122	16	6	5700	12600	131	68
LZM HS 15	52	56	6	12,5	50	4	2	3800	6200	25	42
	85	89	22,5	12,5	80	8	2	5400	10400	73	70
	105	109	12,5	12,5	102	10	3	6200	12500	106	84
	165	169	22,5	12,5	162	16	4	8400	19500	264	131

Order example: **Miniatur Slide Unit** **Standard** **Size** **Length (L)**
 LZM HS 9 - 32