

LEADER COMPONENTS

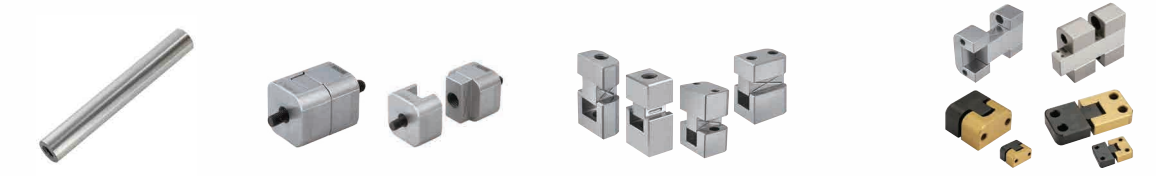
LEADER COMPONENTS



Product Name Part No.	Guide Pillar (1) —Oil Groove/Step Type— D-GPM00	Guide Pillar (2) —Oil Groove/Step Type— D-GPM03	Guide Pillar (3) —Oil Groove/Straight Type— D-GPM011	Ejector Guide Pillar —Plain/Straight Type— D-GPM01
Page	21	22	23	24



Product Name Part No.	Guide Bushing with Centering Head —Plain Type— D-GBM10	Guide Bushing without Centering Head —Plain Type— D-GBM11	Oil-Free Guide Bushings with Centering Head D-GBM1000W	Oil-Free Guide Bushings without Centering Head D-GBM1100W	Oil-Free Ejector Guide Bushings D-GBM13W
Page	25	26	27	28	29



Product Name Part No.	Centering Sleeve CNTR	Rectangular Straight Block Sets D-TBSFH	Straight Block Sets D-TBMS50	Straight Block Sets D-TBMGS D-TBMGT D-TBMS46 D-TBMS48
Page	30	31	32	33



Product Name Part No.	Oil-free Side Straight Block Sets D-TSSBH	Slide Locks D-SLMS130
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Guide for guide pillars & bushings

Guide pillars and bushings are guide components used for accurately positioning movable molds and fixed molds. If the cavity is not accurately aligned when the mold is closed, the molded components such as the core may be damaged.

Usually, four sets of guide pillars are installed at the four corners of the movable mold, and the guide bushings are placed at the relative positions of the fixed mold, but sometimes the guide pillars and the guide bushings are reversely mounted depending on the mold structure.

If they are used in combination with positioning components (tapered positioning pins, tapered positioning blocks, etc.), the alignment of the cavity will be more precise.

Guide pillar

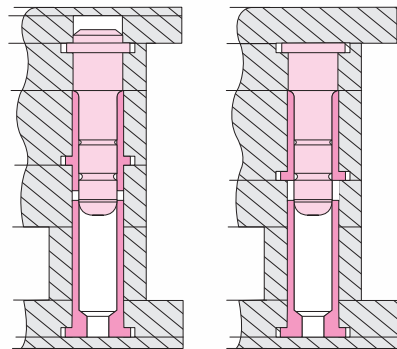
MISUMI guide pillars are classified as head type and straight type.

The guide pillar and the mold plate are usually fixed by an interference fit, so the fixed portion at the root of the guide pillar is set to a positive tolerance. The guide pillar and the guide bushing usually have relative movement by a clearance fit, so the outer diameter dimension of the guide pillar working surface is set to a negative tolerance. In order to smoothly insert the guide pillar into the guide bushing during mold closing, MISUMI guide pillar also has a guidance portion at the top corner, which is composed of a tapered surface and an R angle.

Bushing

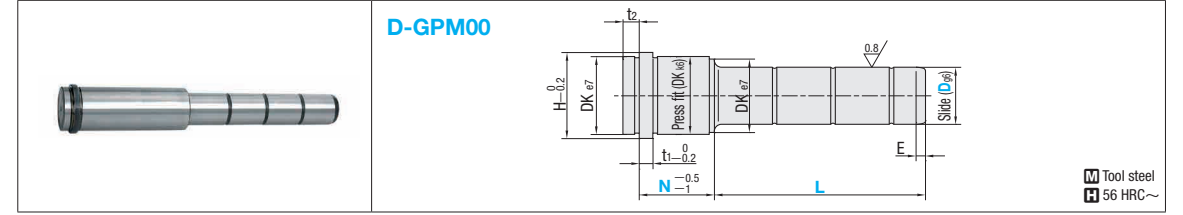
MISUMI guide bushings are classified as head type and straight type.

The guide bushing and the mold plate are usually fixed by an interference fit. Therefore, the outer diameter dimension tolerance of the guide bushing is set to a positive tolerance. The guide bushing and the guide pillar usually have relative movement by a clearance fit, so the inner diameter dimension of the guide bushing working surface is set to a negative tolerance.



GUIDE PILLAR (1)

—OIL GROOVE / STEP TYPE—



DK	Press Fit Part			E	t2	t1	H	Part No.		L	N
	k6	e7	Type					Slide Part D			
14	+0.012 +0.001	-0.032 -0.050	4	3	3	16	14	9	10	20 35 50	9
										25 45 65	12
										20 30 50 70	17
										25 35 55 75 95	22
										20 30 50 70 90	27
										25 45 65 85	36
										30 45 70	46
										35 60	56
										45	66
										45	76
20						20	14	15	35 55 75 95	17	
									30 50 70 90 110 125 150	22	
									30 45 65 85 105 125 145 165	27	
									35 55 75 95 125 155	36	
									35 45 65 85 105 125 145	46	
									35 55 75 95 135	56	
									55 65 95 125	66	
									55 95	76	
									55 95	86	
									55 95	96	
75	116										
26	+0.015 +0.002	-0.040 -0.061				26	18	20	35 55 75 95 120	17	
									35 45 65 85 115 135	22	
									35 45 65 85 105 125 165 195 225 245	27	
									*35 *55 *75 *95 115 135 165 205 245 285	36	
									35 45 *65 *85 *105 135 165 245	46	
									35 *55 *75 95 135 155	56	
									35 *55 *75 95 145	66	
									*55 75 95 135	76	
									*55 75 95 125	86	
									55 75 95 115 135	96	
75 115	116										
135	136										
30			7	9	6	30	22	24	35 55 75	17	
									35 55 75 95 105 130	22	
									35 45 65 85 105 125 165 205 245 285	27	
									*35 *55 *75 *95 115 135 165 *205 245 285	36	
									35 45 *65 *85 *105 *125 165 205 245 285	46	
									35 *55 *75 95 115 *165 *205	56	
									35 55 *75 *95 125 155 195	66	
									*55 *75 95 *115 145	76	
									*55 *75 *95 115 *135 155 195	86	
									*55 *75 *95 125 155 195	96	
75 95 115 135 155 195	116										
95 115 135 155	136										
115 155	156										
42	+0.018 +0.002	-0.050 -0.075				42	30	32	35 75 130	22	
									45 65 105 165 185 245 285	27	
									*55 *75 *95 115 *155 205 245 285	36	
									45 *65 85 *105 *125 *165 205 245 285	46	
									55 *75 *95 *115 *135 *175 205 245 295	56	
									55 *75 *95 *115 135 *175 205 245 295	66	
									*55 *75 *95 *115 *155 225	76	
									55 75 95 115 155 195 *225	86	
									*55 *75 *95 *115 155 175 205	96	
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95 115 155	156										
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135 155 175	156										
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115 155 195	96										
115 155 195	116										
135 155 195	136										
195 235	156										
195 235	176										
195 235	196										

Slide Part Dg6	9 · 10	14~18	20~30	32~42	50 · 52	Order	Part No.	D	L	N	Alterations	Code	Spec.
	-0.005 -0.014	-0.006 -0.017	-0.007 -0.020	-0.009 -0.025	-0.010 -0.029		D-GPM00	18	35	36		GN	No oil groove