LEADER COMPONENTS

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Product Name	DIN Type Guide Pillar with Centering Head –Oil Groove/Step Type–	DIN Type Guide Pillar without Centering Head –Oil Groove/Step Type–	DIN Type Guide Pillar –Oil Groove/Straight Type–	DIN Type Ejector Guide Pillar –Plain/Straight Type–
Part No.	D-GPM00	D-GPM03	D-GPM011	D-GPM01
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DIN Type Guide Bushing with Centering Head –Plain Type–	DIN Type Guide Bushing without Centering Head –Plain Type–	DIN Type Oil –Free Guide Bushings with Centering Head	DIN Type Oil –Free Guide Bushings without Centering Head	DIN Type Oil-Free Ejector Guide Bushings
D-GBM10	D-GBM11	D-GBM1000W	D-GBM1100W	D-GBM13W
27	28	29	30	31

Centering Sleeve
CNTR
32

■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.

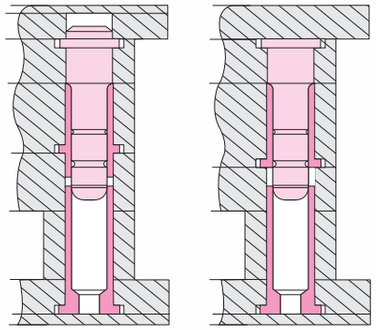
If they are used in combination with positioning components (tapered positioning pins, tapered positioning blocks, etc.), the alignment of the cavity will be more precise.

■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.

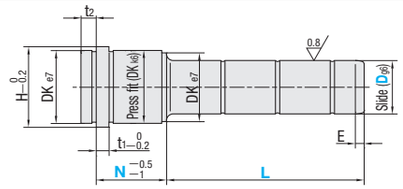


DIN TYPE

DIN TYPE GUIDE PILLAR

—OIL GROOVE / STEP TYPE—

D-GPM00



M Tool steel
H 56 HRC～

Press Fit Part DK	k6	e7	E	t2	t1	H	Part No. Type	Slide Part D	L	N
14	+0.012 +0.001	−0.032 −0.050	4	3	3	16	D-GPM00	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
20						25		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				31		18 20	35 55 75 95 120	17
									35 45 65 85 115 135	22
									35 45 65 85 105 125 145 165 195 225 245	27
									*35 *55 *75 *95 115 135 165 225 255	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	35		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	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				47		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
									75 95 *115 *155 195	116
									95 115 155 195	136
									95 115 155	156
									135 175	176
									115 155 195	196
54	+0.021 +0.002	−0.060 −0.090	10	12	10	60		40 42	75 135	36
									95 *165	46
									*75 *115 *155 *195	56
									75 *135	66
									75 95 *115 135 *175	76
									75 *135	86
									75 95 115 155 195	96
									*95 115 135 155 195	116
									95 115 135 155 195 215	136
									115 155 215	156
									135 155 175	176
									115 155 195 235	196
									165 215 245	246
66						71		50 52	95 115 135 175	76
									95 115 135	86
									95 115 155 195	96
									115 155 195	116
									115 155 195	136
									135 155 195	156
									195 235	176
									195 235	196

Slide Part Dg6	9・10	14～18	20～30	32～42	50・52
	−0.005 −0.014	−0.006 −0.017	−0.007 −0.020	−0.009 −0.025	−0.010 −0.029

Order

Part No.	D	L	N
D-GPM00	18	35	36

Alterations	Code	Spec.
	GN	No oil groove