

HOLDER GUIDE POST SETS

HOLDER GUIDE POST SETS

Product name	PLAIN GUIDE POST SETS	OIL-FREE GUIDE POST SETS	INTEGRATED TYPE PLAIN GUIDE POST SETS — OIL TYPE —	INTEGRATED TYPE PLAIN GUIDE POST SETS — OIL-FREE TYPE —		
Catalog No.	MY MYP	MYZ MYZP	N—MYP	N—MYZP		
Page	945	945	947	947		
Product name	BALL GUIDE POST SETS — MOVABLE STOPPER —	BALL GUIDE POST SETS — FIXED STOPPER —				
Catalog No.	MYA MYAP	MYJ MYJP	MYAK MYKP	MYJK MJKP		
Page	949		951	951		
Product name	INTEGRATED TYPE PLAIN GUIDE POSTS	BUSHINGS FOR INTEGRATED TYPE PLAIN GUIDE POST SET	GUIDE POST SETS WITH OIL GROOVES	GUIDE POSTS		
Catalog No.	N—MGP	N—MGBP N—MGBZP	MGOH MGOHP MGO	MGP		
Page	953	954	955	957		
Product name	GUIDE HOLDERS	PLAIN GUIDE BUSHINGS	OIL-FREE GUIDE BUSHINGS	BALL GUIDE BUSHINGS	BALL RETAINERS	STOPPERS
Catalog No.	MGH MGHF	MGB MGBP	MGBZ MGBZP	MAB MABP	MBSH MBJH MBS MBJ	STMJ
Page	958	958	958	959	959	960
Product name	WASHERS FOR PREVENTING DOWEL PIN FALL-OUT	SPRINGS	OIL-FREE GUIDE POST SETS	OIL-FREE GUIDE BUSHINGS	SPACERS FOR GUIDE POST SETS	
Catalog No.	MW	SWMY	GPZE	GBZE	MGBPS MABPS MGHPMS	
Page	960	960	961	962	963	
Product name	SPACERS FOR GUIDE POST SETS	STROKE END BLOCKS	STROKE END BLOCKS — FLAT TYPE —	CHAINS FOR END BLOCKS		
Catalog No.	MGSPS MGLPS	CEB CSB EBS EBW	CEB CSB EBYS EBAS	RSC		
Page	965	967	969	970		

HOLDER GUIDE POST SETS

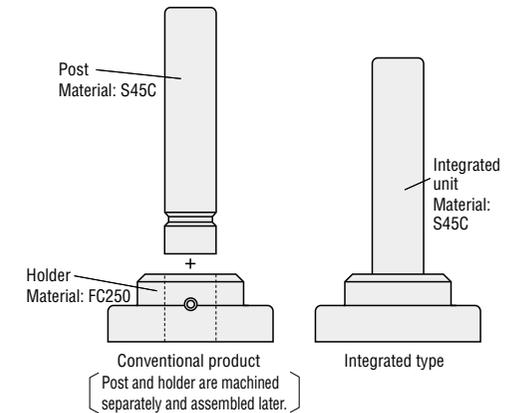
— GUIDE 1 —

Overview of integrated type holder guide post sets

With conventional holder guide post sets, the post and holder are each machined separately and then assembled. However with integrated type holder guide post sets, the post and holder are integrated into a single part, and provide superior strength and rigidity than the conventional sets. (Patent pending)

Features

- Superior strength and rigidity
See the below data from the strength test.
- Interchangeable with conventional products
Outer diameter, hole diameter and hole pitch are the same as conventional products.
- Tapping hole for attaching a stroke end block is machined as part of the standard specifications. It is not necessary to select alteration M, as it is with conventional products.

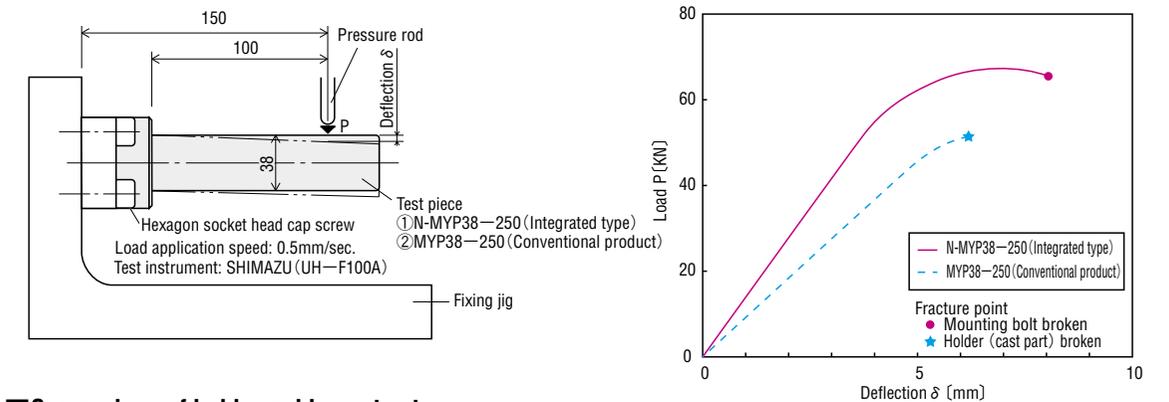


Strength test of holder guide post set

Figure 2 shows the results from strength/rigidity tests of holder guide post sets conducted using the test method shown in Figure 1. As shown, the strength and rigidity of the integrated type holder guide post set are superior.

(Figure 1) Strength test for holder guide post set

(Figure 2) Results from strength test of holder guide post set



Comparison of holder guide post sets

Type	Item	Strength ¹⁾	Rigidity ¹⁾	Standard variations	Applicable alterations
Integrated type plain guide post sets N—MYP·N—MYZP		1.3	1.5	Post diameter: $\phi 25 \sim 60$ Full length: 90 ~ 280	LC·W·B·BKC (M and HKC are included as part of the standard specifications.)
Plain guide post sets MYP·MYZP		1	1	Post diameter: $\phi 25 \sim 80$ Full length: 80 ~ 450	LC·W·M·B·H BKC·HKC·C

Note 1) Based on the above test results. Numerical values indicate the comparison when the existing product is 1.

HOLDER GUIDE POST SETS

—GUIDE 2—

Replacement parts of holder guide post sets

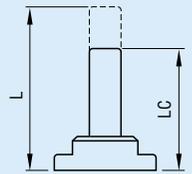
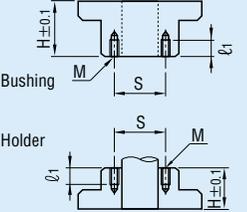
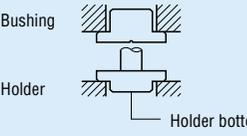
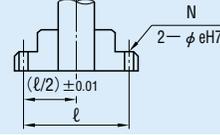
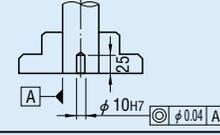
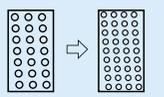
Type	Catalog No. of set	Replacement parts (catalog No. and page)					
		Post	Holder	Bushing	Retainer	Spring	Stopper
Plain guide post sets —Oil type—	MY	MGP (P.957)	MGH (P.958)	MGB (P.958)	—	—	—
	MYP		MGHP (P.958)	MGBP (P.958)	—	—	—
Plain guide post sets —Oil-free type—	MYZ		MGH (P.958)	MGBZ (P.958)	—	—	—
	MYZP		MGHP (P.958)	MGBZP (P.958)	—	—	—
Integrated type plain guide post sets —Oil type—	N—MYP	N—MGP (P.953)	N—MGBP (P.954)		—	—	—
Integrated type plain guide post sets —Oil-free type—	N—MYZP		N—MGBZP (P.954)		—	—	—
Ball guide post sets	MYA	Not available	MGH (P.958)	MAB (P.959)	MBS (P.959)	SWMY (P.960)	STMY (P.960)
	MYAP		MGHP (P.958)	MABP (P.959)	—		
	MYJ		MGH (P.958)	MAB (P.959)	MBJ (P.959)		
	MYJP		MGHP (P.958)	MABP (P.959)	—	Not available	
	MYAK		MGH (P.958)	MAB (P.959)	MBS (P.959)		
	MYKP		MGHP (P.958)	MABP (P.959)	—		
	MYJK		MGH (P.958)	MAB (P.959)	MBJ (P.959)		
MJKP	MGHP (P.958)	MABP (P.959)	—				
Guide post sets with oil grooves	MGOH	MGO (P.955)	MGH (P.958)	—	—	—	—
	MGOHP	—	MGHP (P.958)	—	—	—	—
	GPZE	MGP (P.957)	—	GBZE (P.962)	—	—	—

HOLDER GUIDE POST SETS

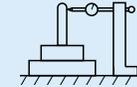
—ALTERATIONS GUIDE / ACCURACY STANDARDS—

Holder guide post set alterations —Guide—

The following alterations cannot be used for some types. Refer to the relevant pages.

Alteration	Code	Spec.	D		1Code																																
			Plain type	Ball type																																	
 <p>Post length change</p>	LC	1mm increments $LC_{min.} \leq LC < L_{max.}$ <table border="1"> <tr><th>D</th><th>LCmin.</th></tr> <tr><td>20</td><td>75</td></tr> <tr><td>25</td><td>75</td></tr> <tr><td>32</td><td>95</td></tr> <tr><td>38</td><td>120</td></tr> <tr><td>50</td><td>165</td></tr> <tr><td>60</td><td>170</td></tr> <tr><td>80</td><td>240</td></tr> </table> If the length is shorter than the standard L dimension for a ball type, check the height at BDC. P.971 ~ 974	D	LCmin.	20	75	25	75	32	95	38	120	50	165	60	170	80	240	20·25·32 38·50	20·25·32 38·50	Quotation																
D	LCmin.																																				
20	75																																				
25	75																																				
32	95																																				
38	120																																				
50	165																																				
60	170																																				
80	240																																				
 <p>Tap hole for attaching stroke end block</p>	Bushing W Holder M	Tap holes are machined for attaching a stroke end block. For the specifications of stroke end blocks, refer to P.967 ~ 970) <table border="1"> <tr><th>D</th><th>M</th><th>ℓ1</th><th>S</th></tr> <tr><td>25</td><td>4</td><td>12</td><td>37</td></tr> <tr><td>32</td><td>5</td><td>15</td><td>45</td></tr> <tr><td>38</td><td>6</td><td>15</td><td>72</td></tr> <tr><td>60</td><td>8</td><td>20</td><td>92</td></tr> <tr><td>80</td><td>—</td><td>—</td><td>116</td></tr> </table> Cannot be used for D20. Alteration W cannot be used for ball guide types.	D	M	ℓ1	S	25	4	12	37	32	5	15	45	38	6	15	72	60	8	20	92	80	—	—	116	25·32 38·50 60·80	25 ~ 80									
D	M	ℓ1	S																																		
25	4	12	37																																		
32	5	15	45																																		
38	6	15	72																																		
60	8	20	92																																		
80	—	—	116																																		
 <p>Machining for reversed bushing and/or holder orientation</p>	Bushing B Holder H	The flange surfaces are altered. Use of the reversed bushing and/or holder allows the die height to be reduced. Reduction in die height (mm) <table border="1"> <tr><th>D</th><th>Plain bushing</th><th>Ball bushing</th><th>Holder side</th></tr> <tr><td>20</td><td>25</td><td>35</td><td>15</td></tr> <tr><td>25</td><td>25</td><td>30</td><td>10</td></tr> <tr><td>32</td><td>30</td><td>40</td><td>20</td></tr> <tr><td>38</td><td>35</td><td>45</td><td>25</td></tr> <tr><td>50</td><td>60</td><td>65</td><td>40</td></tr> <tr><td>60</td><td>70</td><td>70</td><td>45</td></tr> <tr><td>80</td><td>95</td><td>—</td><td>65</td></tr> </table> Can be combined with alterations W and M. In this case, the tap hole will be machined from the opposite direction. Alteration H cannot be used for integrated types.	D	Plain bushing	Ball bushing	Holder side	20	25	35	15	25	25	30	10	32	30	40	20	38	35	45	25	50	60	65	40	60	70	70	45	80	95	—	65	20·25·32 38·50 60·80		Quotation
D	Plain bushing	Ball bushing	Holder side																																		
20	25	35	15																																		
25	25	30	10																																		
32	30	40	20																																		
38	35	45	25																																		
50	60	65	40																																		
60	70	70	45																																		
80	95	—	65																																		
 <p>Bushing H1 dimension tolerance change</p>	BKC	Bushing height H1 dimension tolerance is changed from ±0.2 to ±0.1. $H1 \pm 0.2 \Rightarrow \pm 0.1$	25·32 38·50 60·80		Quotation																																
 <p>Holder H dimension tolerance change</p>	HKC	Holder height H dimension tolerance is changed from ±0.2 to ±0.1. $H \pm 0.2 \Rightarrow \pm 0.1$	25·32 38·50 60·80																																		
 <p>Addition of locating dowel holes (2 holes)</p>	N	2 locating dowel holes are machined on the holder. Dowel pins are not provided. Can be used only for types without dowel holes. <table border="1"> <tr><th>D</th><th>ℓ</th><th>e</th></tr> <tr><td>20</td><td>56</td><td>6</td></tr> <tr><td>25</td><td>66</td><td>8</td></tr> <tr><td>32</td><td>76</td><td>8</td></tr> <tr><td>38</td><td>100</td><td>10</td></tr> <tr><td>50</td><td>125</td><td>10</td></tr> <tr><td>60</td><td>150</td><td>13</td></tr> <tr><td>80</td><td>190</td><td>16</td></tr> </table>	D	ℓ	e	20	56	6	25	66	8	32	76	8	38	100	10	50	125	10	60	150	13	80	190	16	20·25·32 38·50 60·80										
D	ℓ	e																																			
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32	76	8																																			
38	100	10																																			
50	125	10																																			
60	150	13																																			
80	190	16																																			
 <p>Addition of locating dowel hole (1 hole at center)</p>	C	1 locating dowel hole is machined at the center of the post. Dowel pin is not provided.	20·25·32 38·50 60·80																																		
 <p>Ball retainer achange</p>	BSC	The provided ball retainer is changed to a high rigidity type. Aluminum: MBSH Resin : MBJH			1Code <table border="1"> <tr><th>D</th><th>Retainer length</th><th>MBSH</th><th>MBJH</th></tr> <tr><td>20</td><td>50</td><td></td><td></td></tr> <tr><td>25</td><td>50</td><td></td><td></td></tr> <tr><td>32</td><td>60</td><td></td><td></td></tr> <tr><td>38</td><td>70</td><td></td><td></td></tr> <tr><td>50</td><td>90</td><td></td><td></td></tr> <tr><td>60</td><td>100</td><td></td><td></td></tr> </table> Quotation	D	Retainer length	MBSH	MBJH	20	50			25	50			32	60			38	70			50	90			60	100						
D	Retainer length	MBSH	MBJH																																		
20	50																																				
25	50																																				
32	60																																				
38	70																																				
50	90																																				
60	100																																				

Accuracy standards

Inspection item	Measurement	Tolerance
Perpendicularity of guide holder bottom and guide post		0.02/100 or less

HOLDER GUIDE POST SETS

PLAIN GUIDE POST SETS

— OIL · OIL-FREE TYPES —

RoHS

MY (Oil type) **MYP (With dowel hole, oil type)**

④ Replacement parts **P.943**

① **M** FC250
 ② **M** S45C
 ③ **M** 55HRC~ (Induction hardening)
 ④ **M** FC250

Ⓢ (Q) values are reference only.

RoHS

MYZ (Oil-free type) **MYZP (With dowel hole, oil-free type)**

④ Replacement parts **P.943**

① **M** FC250
 Special solid lubricant (embedded)
 ② **M** S45C
 ③ **M** 55HRC~ (Induction hardening)
 ④ **M** FC250

Ⓢ (Q) values are reference only.

Ⓢ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to **P.944.**)

D	A	B	a	b	d	H	H ₁	T	(Q)	ℓ	a ₁	b ₁	eH ₇	④ Provided bolt	⑤ Provided dowel pins
20	74	44	56	30	6.6	30	40	15	42	56	28	15	6 ^{+0.012} ₀	CB 6—30	MSTM 6—20
25	84	48	66	30	9	30	45	20	46	66	33	15	8 ^{+0.015} ₀	CB 8—35	MSTM 8—30
32	100	58	76	36	11	40	50	20	56	76	38	18	8 ^{+0.015} ₀	CB10—40	MSTM 8—30
38	130	75	100	44	11	50	60	25	73	100	50	22	10	CB10—45	MSTM10—40
50	155	90	125	60	14	65	85	25	87	125	62.5	30	10	CB12—50	MSTM10—40
60	190	120	150	80	18	75	100	30	116	150	75	40	13	CB16—60	MSTM13—50
80	230	150	180	110	22	100	130	35	145	190	90	55	16	CB20—75	MSTM16—60

Catalog No.	Type	D	L												Base unit price 1~9 pieces						
			80	90	100	110	120	130	140	150	160	170	180	200	220	250	280	300	350	400	450
MY MYP MYZ MYZP	20	80	90	100	110	120	130	140	150	160											
		25	80	90	100	110	120	130	140	150	160	170	180	200							
	32	90	100	110	120	130	140														
		38		110	120	130	140	150	160	170	180	200	220	250							
	50																				
		60																			
80																					

Quotation

Ⓢ In accordance with safety standards for the transport of heavy items, φ 80 posts include M12 tap holes, and can be hoisted up for transport by means of lifting eye bolts.

Order **Catalog No.** — L
 MYZP 50 — 250

Price **Quotation**

Days to Ship **Quotation**

Alterations **Catalog No.** — L(LC) — (M·B·H·N·C, etc.)
 MYZP 50 — LC240 — B—H
Quotation

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.944	20-25-32 38-50 60-80	Quotation
	Bushing W Holder M	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Ⓢ Cannot be used for D20. Details of alteration P.944	25-32 38-50 60-80 25~80	
	Bushing B Holder H	Machining of flange for reversed bushing and/or holder orientation Use of the reversed bushing and/or holder allows the die height to be reduced. Ⓢ Alterations B and H can be combined at the same time. Ⓢ The post length is measured from the holder bottom. Details of alteration P.944	20-25-32 38-50 60-80	

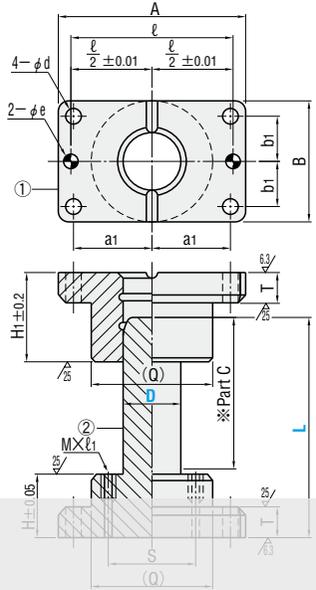
Alteration	Code	Spec.	D	1Code																							
	BKC	Bushing H ₁ dimension tolerance change H ₁ ± 0.2 ⇔ ± 0.1 Ⓢ Cannot be used for D20.	25-32 38-50 60-80	Quotation																							
	HKC	Holder H dimension tolerance change H ± 0.2 ⇔ ± 0.1 Ⓢ Cannot be used for D20.	25-32 38-50 60-80																								
	N	Addition of locating dowel holes 2 locating dowel holes are machined on the holder. Ⓢ Can be used for MY-MYZ. Ⓢ Dowel pins are not provided.	<table border="1"> <thead> <tr> <th>D</th> <th>ℓ</th> <th>e</th> </tr> </thead> <tbody> <tr><td>20</td><td>56</td><td>6</td></tr> <tr><td>25</td><td>66</td><td>8</td></tr> <tr><td>32</td><td>76</td><td>8</td></tr> <tr><td>38</td><td>100</td><td>10</td></tr> <tr><td>50</td><td>125</td><td>10</td></tr> <tr><td>60</td><td>150</td><td>13</td></tr> <tr><td>80</td><td>190</td><td>16</td></tr> </tbody> </table>		D	ℓ	e	20	56	6	25	66	8	32	76	8	38	100	10	50	125	10	60	150	13	80	190
D	ℓ	e																									
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38	100	10																									
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80	190	16																									
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓢ Dowel pin is not provided.	20-25-32 38-50 60-80																								

INTEGRATED TYPE PLAIN GUIDE POST SETS

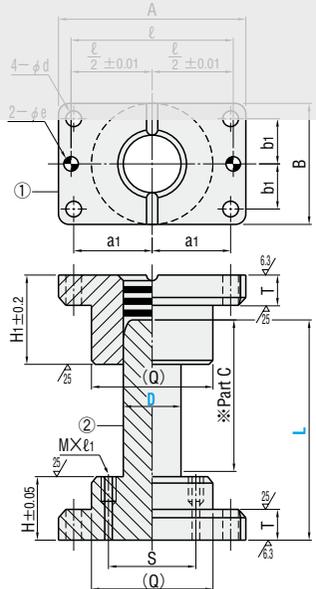
— OIL · OIL-FREE TYPES — (For high-strength and high-rigidity types, refer to P.942.)



N-MYP (Oil type)



N-MYZP (Oil-free type)



① FC250
② S45C
※C part 55HRC~ (Induction hardening)

Ⓜ (Q) values are reference only.
Ⓜ The holder and post are integrated into a single part.
Ⓜ The post includes tap holes for mounting a stroke end block.
Ⓜ Features P.942

This product was discontinued in 2017.

Catalog No. : N-MYP N-MYZP

Ⓜ Perpendicularity of integrated type post bottom and post: 0.02mm/100mm or less (Ⓜ Refer to P.944.)

D	A	B	d	H	H ₁	T	(Q)	ℓ	a ₁	b ₁	S	M	ℓ ₁	eH7	③ Provided bolt	④ Provided dowel pins	
25	84	48	9	30	45	20	46	66	33	15	37	4	12	8	+0.015 0	CB 8—35	MSTM 8—30
32	100	58	11	40	50	20	56	76	38	18	45	4	12	8		CB10—40	MSTM 8—30
38	130	75	11	50	60	25	73	100	50	22	60	5	15	10		CB10—45	MSTM10—40
50	155	90	14	65	85	25	87	125	62.5	30	72	6	15	10	+0.018 0	CB12—50	MSTM10—40
60	190	120	18	75	100	30	117	150	75	40	92	8	20	13		CB16—60	MSTM13—50

Catalog No.	Type	D	L											Base unit price 1~9 pieces	
														N-MYP	N-MYZP
N-MYP N-MYZP	25	90	100	110	120	130	140	150	160	170	180	200			
			100	110	120	130	140	150							
	32	120	130	140	150	160	170	180	200						
			160	170	180	200									
	38	160	170	180	200	220	250								
160			170	180	200										
50	180	200	220	250											
		180	200	220	250	280									

Quotation

Order Catalog No. — L
N-MYP 50 — 250

Days to Ship **Quotation**

Alterations Catalog No. — L(LC) — (W-B, etc.)
N-MYP 50 — LC24

Price **Quotation**

This product was discontinued in 2017.

Catalog No. : N-MYP N-MYZP

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.944	25-32 38-50 60	
	Bushing W	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.944	25-32 38-50 60	Quotation
	Bushing B	Machining of flange for reversed bushing orientation Use of the reversed bushing allows the die height to be reduced. Details of alteration P.944	25-32 38-50 60	
	BKC	Bushing H ₁ dimension tolerance change H ₁ ± 0.2 ⇔ ± 0.1	25-32 38-50 60	Quotation
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓜ Dowel pin is not provided.	25-32 38-50 60	Quotation

HOLDER GUIDE POST SETS

BALL GUIDE POST SETS

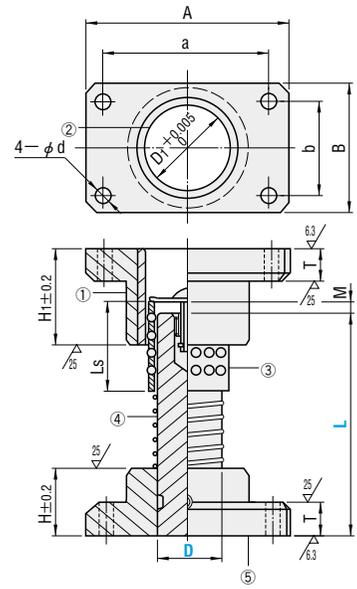
—MOVABLE STOPPER— (ALUMINUM·RESIN BALL CAGE)

RoHS

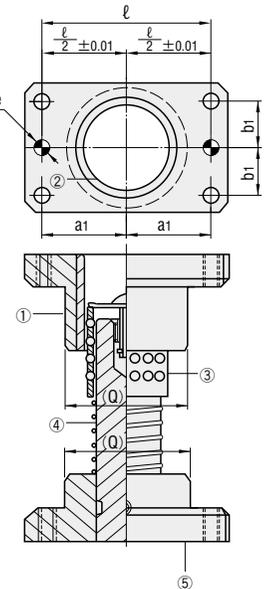



⑥ Replacement parts **P.943**
⑦ Spring sizes **P.960**

MYA (Aluminum type)



MYAP (Aluminum type with dowel hole)



① ⑤ **M** FC250
② **M** SUJ2
③ **M** 58HRC~
④ Aluminum alloy
④ **M** SUJ2
⑤ 58HRC~ (Induction hardening)

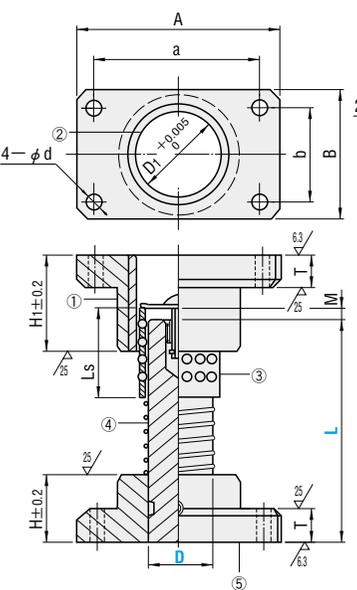
Ⓚ (Q) values are reference only.

RoHS

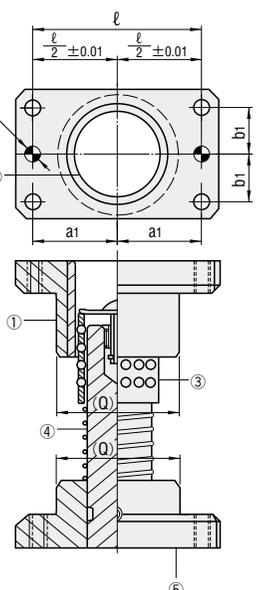



⑥ Replacement parts **P.943**
⑦ Spring sizes **P.960**

MYJ (Resin type)



MYJP (Resin type with dowel hole)



① ⑤ **M** FC250
② **M** SUJ2
③ **M** 58HRC~
④ **M** POM (Polyacetal resin)
④ **M** SUJ2
⑤ 58HRC~ (Induction hardening)

Ⓚ (Q) values are reference only.

Ⓚ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to **P.944**.)

D	D1	A	B	a	b	d	H	H1	T	(Q)	Ls	M	Stopper distance	ℓ	a1	b1	eH7	⑥ Provided bolts	⑦ Provided dowel pins
20	26	74	44	56	30	6.6	30	50	15	42	50	0~20	56	28	15	6	+0.012 0	CB 6—30	MSTM 6—20
25	31	84	48	66	30	9	30	50	20	46	50	0~20	66	33	15	8	+0.015 0	CB 8—35	MSTM 8—30
32	40	100	58	76	36	11	40	60	20	56	60	0~25	76	38	18	8		CB10—40	MSTM 8—30
38	48	130	75	100	44	11	50	70	25	73	70	0~29	100	50	22	10		CB10—45	MSTM10—40
50	60	155	90	125	60	14	65	90	25	87	90	0~42	125	62.5	30	10		CB12—50	MSTM10—40

Catalog No. Type	D	L				Base unit price 1~9 pieces			
		MYA	MYAP	MYJ	MYJP	MYA	MYAP	MYJ	MYJP
MYA	20	90	100	110	120				
						130	140	150	160
MYAP	25	90	100	110	120				
						130	140	150	160
MYJ	32					170	180	200	
						110	120	130	140
MYJP	38					160	170	180	200
						220	240	260	
	50					130	140	150	160
						170	180	200	220
						240	260	300	
						170	180	200	
						220	240	260	
						300	350		



Order

Catalog No. — L
MYJ 25 — 90



Price

Quotation



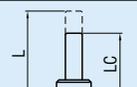
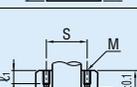
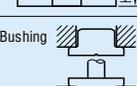
Days to Ship

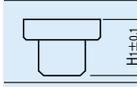
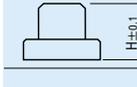
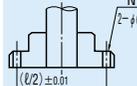
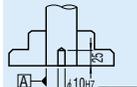
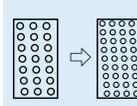
Quotation



Alterations

Catalog No. — L(LC) — (M·B·H·N·C...etc.)
MYAP 50 — LC230 — B—H
Quotation

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.944	20-25-32 38-50	
	Holder M	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Ⓚ Cannot be used for D20. Details of alteration P.944	25~50	Quotation
	Bushing B	Machining of flange for reversed bushing and/or holder orientation Use of the reversed bushing and/or holder allows the die height to be reduced. Ⓚ Alterations B and H can be combined at the same time. Ⓚ The post length is measured from the holder bottom. Details of alteration P.944	20-25-32 38-50	

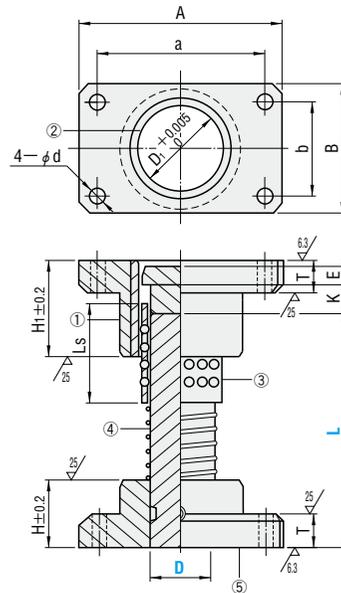
Alteration	Code	Spec.	D	1Code
	BKC	Bushing H1 dimension tolerance change H1±0.2 ⇔ ±0.1 Ⓚ Cannot be used for D20.	25-32 38-50	
	HKC	Holder H dimension tolerance change H±0.2 ⇔ ±0.1 Ⓚ Cannot be used for D20.	25-32 38-50	
	N	Addition of locating dowel holes 2 locating dowel holes are machined on the holder. Ⓚ Can be used for MYA and MYJ. Ⓚ Dowel pins are not provided.	20-25-32 38-50	Quotation
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓚ Dowel pin is not provided.	20-25-32 38-50	
	BSC	Ball retainer change Provided ball cage is changed to the high-rigidity type. Aluminum: MBSH Resin : MBJH		1Code D Resin type MBSH MBJH 20 50 25 50 32 60 38 70 50 90

BALL GUIDE POST SETS

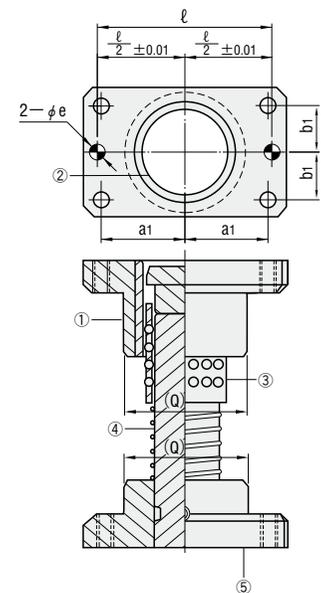
—FIXED STOPPER— (ALUMINUM·RESIN BALL CAGE)



MYAK (Aluminum type)



MYKP (Aluminum type with dowel hole)

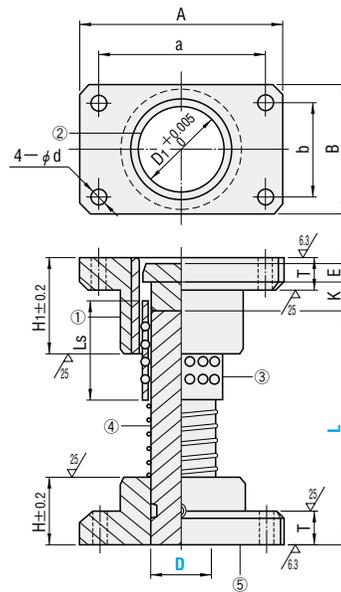


- ① ⑤ FC250
- ② SUJ2
- 58HRC~
- ③ Aluminum alloy
- ④ SUJ2
- 58HRC~ (Induction hardening)

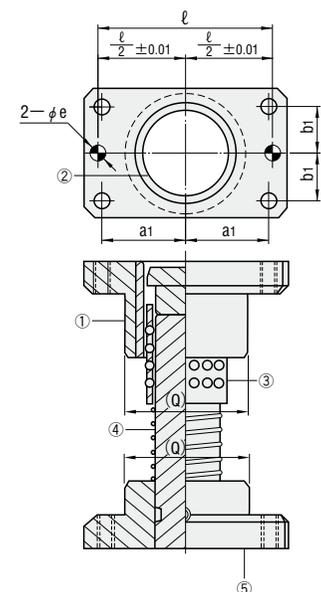
Ⓚ (Q) values are reference only.



MYJK (Resin type)



MJPK (Resin type with dowel hole)



- ① ⑤ FC250
- ② SUJ2
- 58HRC~
- ③ POM (Polyacetal resin)
- ④ SUJ2
- 58HRC~ (Induction hardening)

Ⓚ (Q) values are reference only.

Ⓚ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.944.)

D	D1	A	B	a	b	d	H	H1	T	(Q)	K	Stopper fixed	E	Ls	ℓ	a1	b1	eH7	⑥ Provided bolt	⑦ Provided dowel pins
25	31	84	48	66	30	9	30	50	20	46	20	5	50	66	33	15	8	+0.015 0	CB 8—35	MSTM 8—30
32	40	100	58	76	36	11	40	60	20	56	25	5	60	76	38	18	8		CB10—40	MSTM 8—30
38	48	130	75	100	44	11	50	70	25	73	30	10	70	100	50	22	10		CB10—45	MSTM10—40
50	60	155	90	125	60	14	65	90	25	87	40	10	90	125	62.5	30	10		CB12—50	MSTM10—40
60	70	190	120	150	80	18	75	100	30	116	50	15	100	150	75	40	13	+0.018 0	CB16—60	MSTM13—50

Catalog No.	Type	D	L	Base unit price 1~9 pieces			
				MYAK	MYKP	MYJK	MJPK
25	MYAK	90	100 110 120				
			130 140 150 160				
			170 180 200				
			220 240 260				
32	MYKP	110	120 130 140 150				
			160 170 180 200				
38	MYJK	130	140 150 160				
			170 180 200 220				
50	MJPK	170	180 200				
			220 240 260				
60		200	220				
			240 260				
			300 350				

Quotation



Order Catalog No. — L
MYK 50 — 200



Price Quotation



Days to Ship Quotation



Alterations Catalog No. — L(LC) — (M·B·H·N·C...etc.)
MYJK 50 — LC230 — B—H
Quotation

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.944	25-32 38-50 60	Quotation
	M	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.944	25~60	
	B	Machining of flange for reversed bushing and/or holder orientation Use of the reversed bushing and/or holder allows the die height to be reduced. Ⓚ Alterations B and H can be combined at the same time. Ⓚ The post length is measured from the holder bottom. Details of alteration P.944	25-32 38-50 60	

Alteration	Code	Spec.	D	1Code																							
	BKC	Bushing H1 dimension tolerance change H1±0.2 ⇔ ±0.1	25-32 38-50 60	Quotation																							
	HKC	Holder H dimension tolerance change H±0.2 ⇔ ±0.1	25-32 38-50 60																								
	N	Addition of locating dowel holes Locating dowel holes are machined on holder. (2 positions) Ⓚ Can be used for MYAK and MYJK. Ⓚ Dowel pins are not provided.	25-32 38-50 60																								
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓚ Dowel pin is not provided.	25-32 38-50 60	1Code																							
	BSC	Ball retainer change Provided ball cage is changed to the high rigidity type. Aluminum: MBSH Resin: MBJH	<table border="1"> <thead> <tr> <th>D</th> <th>Resin length</th> <th>MBSH</th> <th>MBJH</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td>32</td> <td>60</td> <td></td> <td></td> </tr> <tr> <td>38</td> <td>70</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>90</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td>100</td> <td></td> <td></td> </tr> </tbody> </table>		D	Resin length	MBSH	MBJH	25	30			32	60			38	70			50	90			60	100	
D	Resin length	MBSH	MBJH																								
25	30																										
32	60																										
38	70																										
50	90																										
60	100																										

INTEGRATED TYPE PLAIN GUIDE POSTS

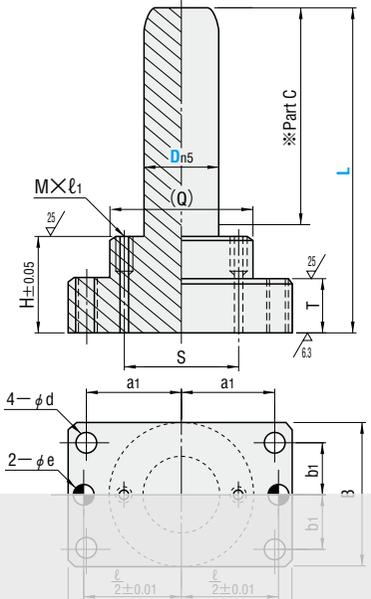
(For high-strength and high-rigidity types, refer to P.942.)

BUSHINGS FOR INTEGRATED TYPE PLAIN GUIDE POST SET



RoHS

N-MGP



Ⓢ The holder and post are integrated into a single part.

Ⓢ The post includes tap holes for mounting a stroke end block.

Ⓢ Perpendicularity of integrated type post bottom and post:
0.02mm/100mm or less (Refer to P.944.)

This product was discontinued in 2017.

Ⓢ S45C
Ⓢ Part C 55HRC~ (Induction hardening)

Dn5	A	B	d	H	T	(Q)	eH7	ℓ	a1	b1	Catalog No. : N-MGP				
25	+0.024 +0.015	84	48	9	30	20	46	66	33	15	37	4	12	8	+0.015 0
32		100	58	11	40	20	56	76	38	18	45	4	12	8	
38	+0.028 +0.017	130	75	11	50	25	73	100	50	22	60	5	15	10	
50		155	90	14	65	25	87	125	62.5	30	72	6	15	10	
60	+0.033 +0.020	190	120	18	75	30	117	150	75	40	92	8	20	13	

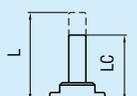
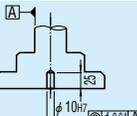
Catalog No. Type	D	L								base unit price 1~9 pieces				
		90	100	110	120	130	140	150	160		170	180	200	
N-MGP	25													Quotation
	32													
	38													
	50													
	60													

Order **Catalog No.** — L
N-MGP 32 — 200

Days to Ship **Quotation**

Price **Quotation**

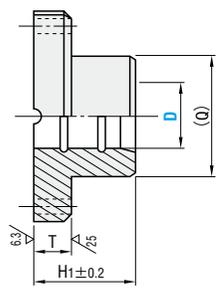
Alterations **Catalog No.** — L(LC) — (C)
N-MGP50 — LC240 — C

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.944	25-32 38-50 60	Quotation
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓢ Dowel pin is not provided.	25-32 38-50 60	

RoHS

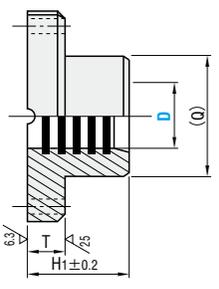


N-MGBP
(Oil type)



Ⓢ FC250

N-MGBZP
(Oil-free type)



Ⓢ FC250
Special solid lubricant (embedded)

Ⓢ (Q) values are reference only.

A	B	d	H1	T	(Q)	eH7	ℓ	a1	b1	Catalog No.		Base unit price 1~9 pieces	
										Type	D	N-MGBP	N-MGBZP
84	48	9	45	20	46	8	66	33	15	N-MGBP	25	+0.041 +0.031	
100	58	11	50	20	56	+0.015 0	76	38	18	N-MGBP	32	+0.047 +0.037	
130	75	11	60	25	73	10	100	50	22	N-MGBZP	38	+0.049 +0.037	Quotation
155	90	14	85	25	87		125	62.5	30	N-MGBZP	50	+0.052 +0.037	
190	120	18	100	30	117	+0.018 0	150	75	40	N-MGBZP	60	+0.061 +0.043	

Order **Catalog No.**
N-MGBP 25
N-MGBZP 32

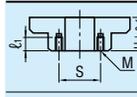
Days to Ship **Quotation**

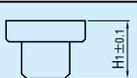
Price **Quotation**

Alterations **Catalog No.** — (W-B-BKC)
N-MGBP 25 — B

This product was discontinued in 2017.

Catalog No. : N-MGBP N-MGBZP

Alteration	Code	Spec.	D	1Code
	Bushing W	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.944	25-32 38-50 60	Quotation
	Bushing B	Machining of flange for reversed bushing orientation Use of the reversed bushing allows the die height to be reduced. Details of alteration P.944	25-32 38-50 60	

Alteration	Code	Spec.	D	1Code
	BKC	Bushing H1 dimension tolerance change H1±0.2 ⇄ ±0.1	25-32 38-50 60	Quotation

■ Integrated type plain guide posts — Guide — P.942

■ Integrated type plain guide posts P.947

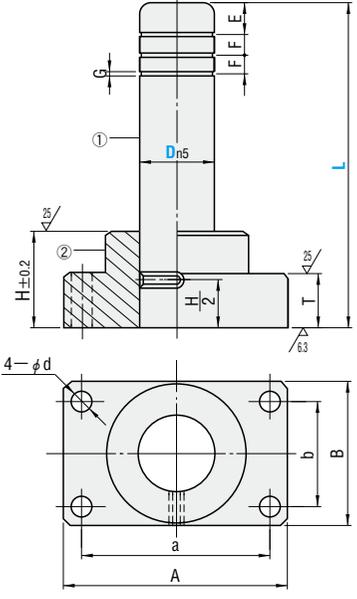
GUIDE POSTS WITH OIL GROOVES

RoHS

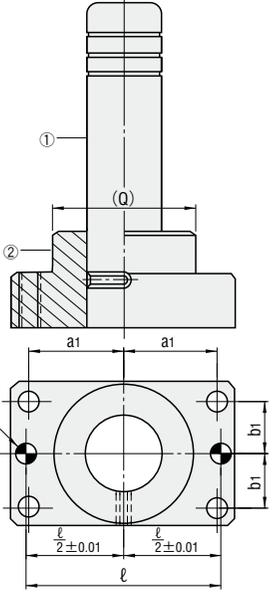



① M S45C
② 55HRC~ (Induction hardening)
③ FC250

MGOH



MGOHP (With dowel hole)



Ⓚ (Q) values are reference only.
Ⓚ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.944.)

③ Provided bolts ④ Provided dowel pins

RoHS



Ⓚ When assembling on site, press-fit using a hydraulic press.

M S45C
55HRC~ (Induction hardening)

MGO (Guide post with oil grooves)

This product was discontinued in 2017.

Catalog No. : MGO



③ Provided bolts ④ Provided dowel pins

Dn5	M	D	A	B	a	b	d	H	T	(Q)	E	F	G	h	ℓ	a1	b1	eH7	③ Provided bolts	④ Provided dowel pins		
25	+0.024 +0.015	—	25	84	48	66	30	9	30	20	46	13	13	15	66	33	15	8	+0.015 0	CB 8—35	MSTM 8—30	
32	—	—	32	100	58	76	36	11	40	20	56	15	15	3	20	76	38	18		8	CB10—40	MSTM 8—30
38	+0.028 +0.017	—	38	130	75	100	44	11	50	25	73	18	18	—	25	100	50	22		10	CB10—45	MSTM10—40
50	—	—	50	155	90	125	60	14	65	25	87	25	20	—	32.5	125	62.5	30	10	CB12—50	MSTM10—40	
60	+0.033 +0.020	—	60	190	120	150	80	18	75	30	116	25	20	—	37.5	150	75	40	13	+0.018 0	CB16—60	MSTM13—50
80	—	12	80	230	150	180	110	22	100	35	145	30	25	—	50	190	90	55	16		CB20—75	MSTM16—60

Catalog No.	Type	D	L	Base unit price 1~9 pieces		
				MGOH	MGOHP	MGO
MGOH MGOHP MGO	25	80	90 100 110 120			
			130 140 150 160 170 180 200			
	32	100	110 120 130 140			
			150 160 170 180 200 220 250			
	38	120	130 140 150 160 170 180			
			200 220 250 280 300			
50	160	170 180 200 220 250				
		280 300 350				
60	180	200 220 250 280 300				
		350 400				
80	250	280 300 350				
		400 450				

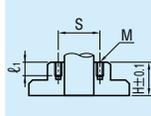
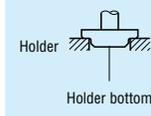
Ⓚ In accordance with safety standards for the transport of heavy items, φ80 posts include M12 tap holes, and can be hoisted up for transport by means of lifting eye bolts.

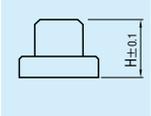
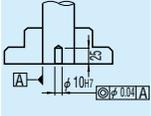
Order Catalog No. — L
MGOH 32 — 200

Price **Quotation**

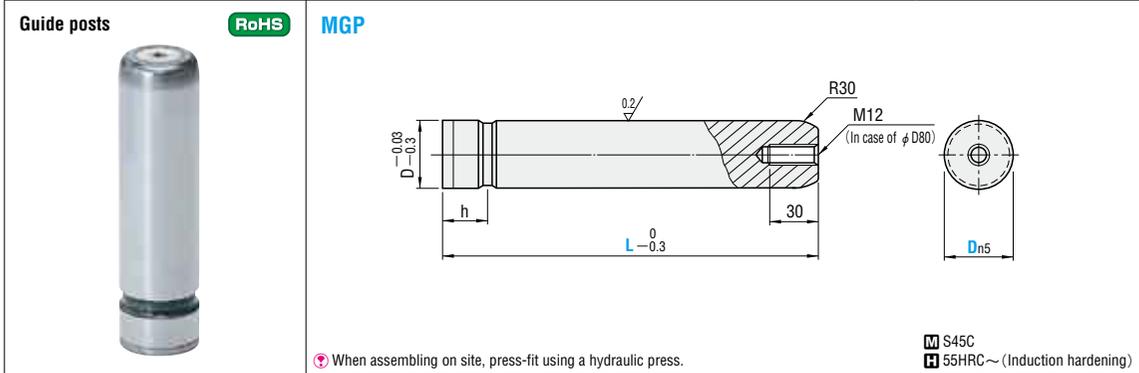
Days to Ship **Quotation**

Alterations Catalog No. — L — (M·H·HK·C)
MGOHP 50 — 250 — H
Quotation

Alteration	Code	Spec.	D	1Code
	Holder M	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.944	25~80	Quotation
	Holder H	Machining of flange for reversed holder orientation Use of the reversed holder allows the die height to be reduced. Ⓚ The post length is measured from the holder bottom. Details of alteration P.944	25-32 38-50 60-80	Quotation

Alteration	Code	Spec.	D	1Code
	HKC	Holder H dimension tolerance change H±0.2 ⇨ ±0.1	25-32 38-50 60-80	Quotation
	C	Addition of locating dowel hole (1 hole at center) Locating dowel hole is machined at center of post. Ⓚ Dowel pin is not provided.	25-32 38-50 60-80	Quotation

GUIDE POSTS / GUIDE HOLDERS / GUIDE BUSHINGS



Dn5	h	Catalog No.		L	Base unit price 1~9 pieces
		Type	D		
20	+0.024 +0.015	15	20	80 90 100 110 120	
				130 140 150 160	
25	15	15	25	80 90 100 110 120	
				130 140 150 160 170 180 200	
32	+0.028 +0.017	20	32	90 100 110 120 130 140	
				150 160 170 180 200 220 250	
38	+0.033 +0.020	25	38	110 120 130 140 150 160 170 180	
				200 220 250 280 300	
50	37.5	32.5	50	160 170 180 200 220 250	
				280 300 350	
60	50	37.5	60	180 200 220 250 280 300	
				350 400	
80		50	80	250 280 300 350	
				400 450	

Order **Catalog No.** — **L**
MGP 32 — 160
MGH 32

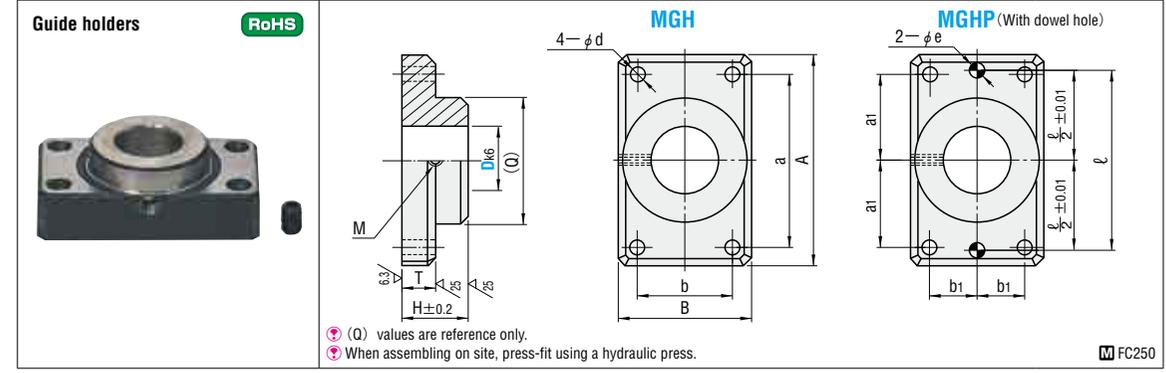
Price **Quotation**

Days to Ship **Quotation**

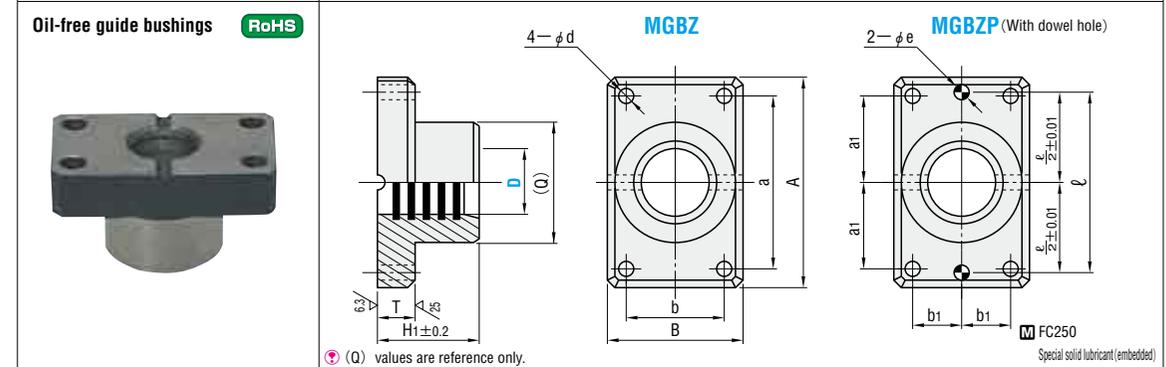
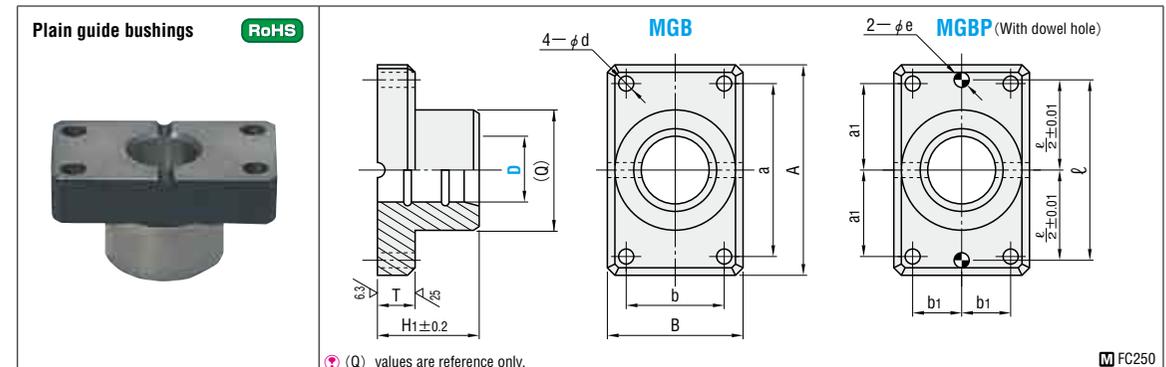
Alterations **Catalog No.** — **L(LC)** — (W·B...etc.)
MGP80 — LC290 — B **Quotation**

Alteration	Code	Spec.	D	1Code
	LC	Post length change LC < L 1mm increments Details of alteration P.944	20·25·32 38·50 60·80	Quotation
	Bushing W	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. ⊗ Cannot be used for D20. Details of alteration P.944	25·32 38·50 60·80	
	Holder M		25~80	

Alteration	Code	Spec.	D	1Code
	Bushing B	Machining of flange for reversed bushing and/or holder orientation Use of the reversed bushing and/or holder allows the die height to be reduced. ⊗ Alterations B and H can be combined at the same time. ⊗ The post length is measured from the holder bottom. Details of alteration P.944	20·25·32 38·50 60·80	Quotation
	Holder H			
	BKC	Bushing H ₁ dimension tolerance change H ₁ ± 0.2 ⇔ ± 0.1 ⊗ Cannot be used for D20.	25·32 38·50 60·80	Quotation
	HKC	Holder H dimension tolerance change H ± 0.2 ⇔ ± 0.1 ⊗ Cannot be used for D20.	25·32 38·50 60·80	



Catalog No. Type	Dk6	A	B	a	b	d	H	T	(Q)	M	eH7	ℓ	a1	b1	Base unit price 1~9 pieces		
															MGH	MGHP	
MGH	20	+0.002 -0.011	74	44	56	30	6.6	30	15	42	8	6	+0.012 0	56	28	15	
	25	84	48	66	30	9	30	20	46	66				33	15		
MGHP	32	+0.003 -0.013	100	58	76	36	11	40	20	56	10	8	+0.015 0	76	38	18	Quotation
	38	130	75	100	44	11	50	25	73	100				50	22		
	50	155	90	125	60	14	65	25	87	125				62.5	30		
	60	+0.004 -0.014	190	120	150	80	18	75	30	116				150	75	40	
80	230	150	180	110	22	100	35	145	16	16	+0.018 0	190	90	55			



Catalog No. Type	D	A	B	a	b	d	H ₁	T	(Q)	eH7	ℓ	a1	b1	Base unit price 1~9 pieces			
														MGB	MGBP	MGBZ	MGBZP
MGB	20	+0.041 +0.031	74	44	56	30	6.6	40	15	42	8	6	+0.012 0	56	28	15	
	25	84	48	66	30	9	45	20	46	66				33	15		
MGBP	32	+0.047 +0.037	100	58	76	36	11	50	20	56	10	8	+0.015 0	76	38	18	Quotation
	38	+0.049 +0.037	130	75	100	44	11	60	25	73				100	50	22	
	50	+0.052 +0.037	155	90	125	60	14	85	25	87				125	62.5	30	
	60	+0.061 +0.043	190	120	150	80	18	100	30	116				150	75	40	
80	+0.063 +0.043	230	150	180	110	22	130	35	145	16	16	+0.018 0	190	90	55		

BALL GUIDE BUSHINGS / BALL RETAINERS

STOPPERS / WASHERS FOR PREVENTING DOWEL PIN FALL-OUT / SPRINGS FOR BALL GUIDE POST SETS

Ball guide bushings RoHS

MAB **MABP (With dowel hole)**

(Q) values are reference only.
Refer to the P.957 lower part for Alterations.

Built-in bushing
M FC250 M SUJ2 H 58HRC~

Catalog No. Type	PD	D	A	B	a	b	d	H1	T	Q	eH7	l	a1	b1	Base unit price 1~9 pieces	
															MAB	MABP
MAB MABP	20	26	74	44	56	30	6.6	50	15	42	6	+0.012 0	56	28	15	Quotation
	25	31	84	48	66	30	9	50	20	46	8	+0.015 0	66	33	15	
	32	40	100	58	76	36	11	60	20	56	10		100	50	22	
	38	48	130	75	100	44	11	70	25	73	10	125	62.5	30		
	50	60	155	90	125	60	14	90	25	87	13	+0.018 0	150	75	40	
	60	70	190	120	150	80	18	100	30	116	13	+0.018 0	150	75	40	

Order Catalog No. MAB 32 Days to Ship Quotation Price Quotation

RoHS

MBSH (High-rigidity aluminum ball retainers)
MBJH (High-rigidity resin ball retainers)

Compared with conventional ball retainer (MBS, MBJ), these products contain 1.6 times more balls.

M ① A5056 (Aluminum)
② POM (Polyacetal resin)
③ SUJ2 Sphericity 0.25 μm
H ③ 62~67HRC

RoHS

MBS (Aluminum ball retainers)
MBJ (Resin ball retainers)

M ① A5056 (Aluminum)
② POM (Polyacetal resin)
③ SUJ2 Sphericity 0.25 μm
H ③ 62~67HRC

PD Post diameter	Outer diameter φ D	Inner diameter φ D1	Ball diameter φ d	Number of balls	Ratio	Catalog No.		Base unit price 1~9 pieces				
						Type	PD	L	MBSH	MBJH	MBS	MBJ
20	25.5	20.5	3	165	1.72	MBSH (Aluminum)	20	50				
25	30.5	25.5	3	224	1.79	MBSH (Aluminum)	25	50				
32	39.5	32.5	4	238	1.65	MBSH (Aluminum)	32	60				
38	47.5	38.5	4	210	1.64	MBSH (Aluminum)	38	70				
50	59.5	50.5	5	360	1.64	MBSH (Aluminum)	50	90				
60	69.5	60.5	5	460	1.74	MBSH (Aluminum)	60	100				

Order Catalog No. MBSH 32 - L 60 Price Quotation

Days to Ship Quotation

Stoppers RoHS **STMY**

MBS/MBJ Ball cage length	STMY	
	S	l
50	0~20	32
60	0~25	40
70	0~29	44
90	0~42	57

Catalog No. Type	PD-L	D	M×P	H	B	t	Base unit price 1~9 pieces
STMY	20-50	24	14×1.5	12	7	1.6	Quotation
	25-50	29	16×1.5	8	8	1.6	
	32-60	37		10	10	2.0	
	38-70	44	20×1.5	15	10	2.0	
	50-90	56					

Order Catalog No. STMY 32-60 Price Quotation

Days to Ship Quotation

Washers for preventing dowel pin fall-out RoHS **MW**

Installation method: After setting the guide bushing in place, loosen the bolt and install the washer.

One set contains two washers.

M SPCC
Thickness=1.6mm
S Black oxide (Fe₂O₃)

Post diameter PD	Catalog No.	Base unit price for 1 set (2 pcs.) 1~19 sets
20-25	25	Quotation
32	32	
38	38	
50	50	
60	60	
80	80	

Order Catalog No. MW 38 Price Quotation

Days to Ship Quotation

Springs for ball guide post sets RoHS **SWMY**

PD Post diameter	D	D1	d	P
20	22.5	20.5	+1.0	1.0
25	27.9	25.5	0	1.2
32	35.7	32.5	+1.5	1.6
38	42.5	38.5	0	2.0
50	55.7	50.5	+2.0	2.6
60	66.9	60.5	0	3.2

•Solid height = FL × d / P + 2d

Guide post sets D	L	Catalog No. Type	PD	FL	Base unit price 1~9 pieces
20	90	SWMY	20	40	Quotation
	100			50	
	110			70	
	120			80	
	130			100	
	140			110	
	150			120	
	160			140	
	170			170	
	180			190	
	190			220	
	200			250	
25	90	SWMY	25	40	Quotation
	100			50	
	110			70	
	120			80	
	130			100	
	140			110	
	150			120	
	160			140	
	170			170	
	180			190	
	190			220	
	200			250	

Guide post sets D	L	Catalog No. Type	PD	FL	Base unit price 1~9 pieces
32	110	SWMY	32	50	Quotation
	120			60	
	130			70	
	140			80	
	150			90	
	160			110	
	170			120	
	180			130	
	190			140	
	200			170	
	220			190	
	38			110	
120		70			
130		80			
140		90			
150		110			
160		120			
170		130			
180		140			
190		150			
200		170			
220		190			
240		210			
260	230				
300	230				

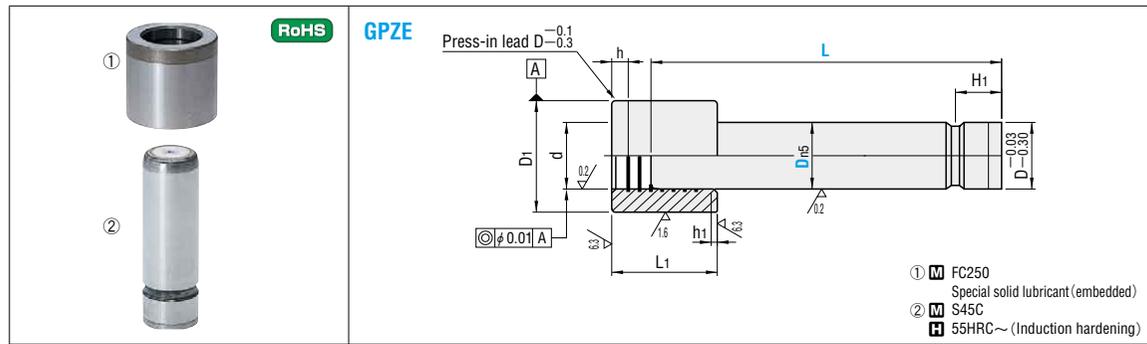
Guide post sets D	L	Catalog No. Type	PD	FL	Base unit price 1~9 pieces
50	170	SWMY	50	70	Quotation
	180			90	
	200			110	
	220			140	
	240			170	
	260			190	
	300			230	
	350			280	
	400			300	
	450			300	
	500			300	
	550			300	

Order Catalog No. SWMY 32 - FL 190

Days to Ship Quotation Price Quotation

OIL-FREE GUIDE POST SETS

—PRESS-FIT TYPE—



- ① M FC250
Special solid lubricant (embedded)
- ② M S45C
55HRC~ (Induction hardening)

Dn5	H1	d	D1J55			h	h1	L1
			GPZE					
32	20	32	+0.047 +0.037	52	±0.0065	8	4	48
38	25	38	+0.049 +0.037	60		10	5	55
50	32.5	50	+0.052 +0.037	70		15	10	75
60	37.5	60	+0.061 +0.043	80		20		90
80	50	80	+0.063 +0.043	100	±0.0075	25		120

D1	Catalog No.		L	Base unit price 1~9 pieces
	Type	D		
52	GPZE	32	90 100 110 120 130 140	Quotation
			150 160 170 180 200 220 250	
60	GPZE	38	110 120 130 140 150 160 170 180	Quotation
			200 220 250 280 300	
70	GPZE	50	160 170 180 200 220 250 280	Quotation
			300 350	
80	GPZE	60	180 200 220 250 280 300	Quotation
			350 400	
100	GPZE	80	250 280 300 350	Quotation
			400 450	

Order **Catalog No.** GPZE 80 - **L** 300 **P** Price **Quotation**

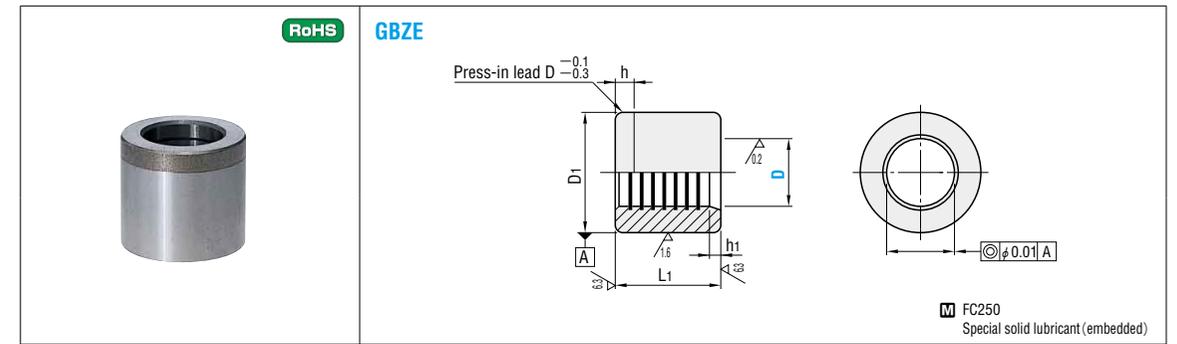
Days to Ship **Quotation**

Alterations **Catalog No.** GPZE 80 - **L(LC)** LC 290 **Quotation**

Alteration	Code	Spec.	D		1Code
			D	LCmin.	
	LC	Post length change $LCmin. \leq LC < Lmax.$ 1mm increments	32	85	32 38·50 60·80 Quotation
			38	105	
			50	140	
			60	165	
			80	220	

OIL-FREE GUIDE BUSHINGS

—PRESS-FIT TYPE—



- M FC250
Special solid lubricant (embedded)

Type	Catalog No.		D1J55	h	h1	L1	Base unit price 1~9 pieces
	Type	D					
GBZE	32	+0.047 +0.037	52	±0.0065	8	4	48
	38	+0.049 +0.037	60		10	5	55
	50	+0.052 +0.037	70		15	10	75
	60	+0.061 +0.043	80		20		90
	80	+0.063 +0.043	100	±0.0075	25		120

Order **Catalog No.** GBZE 50 **P** Price **Quotation**

Days to Ship **Quotation**

HOLDER GUIDE
POST SETS

SPACERS FOR GUIDE POST SETS

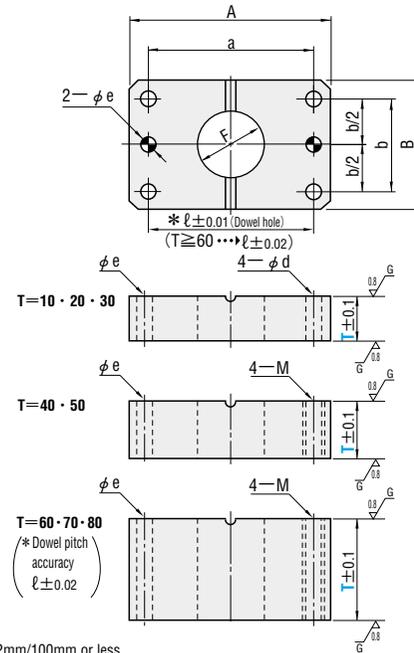
—CAST TYPE—

RoHS

Spacers for guide bushings

MGBPS (For plain types, with dowel holes)

MABPS (For ball types, with dowel holes)



- Flatness of plate thickness: 0.02mm/100mm or less
- Draft angle (2~3°) for casting is present in the direction of height T.

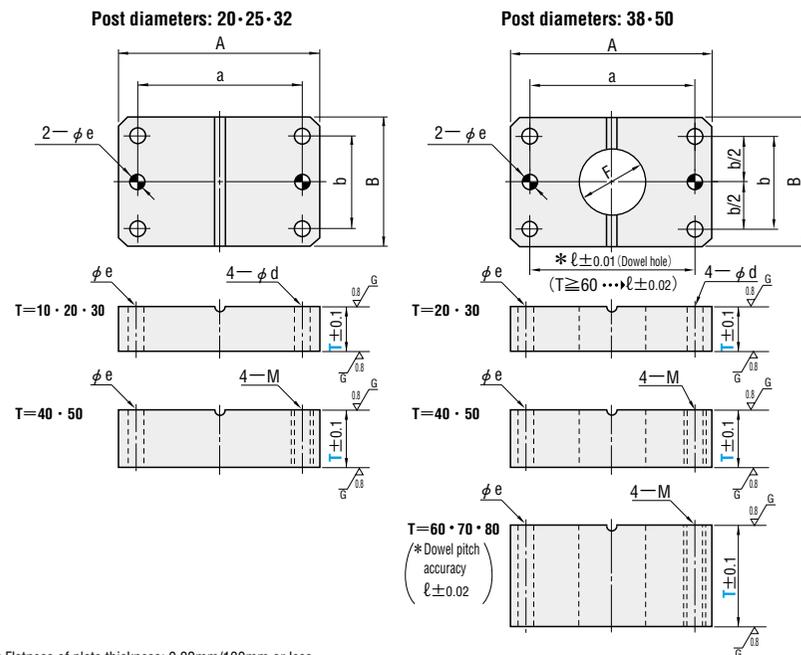
FC250



RoHS

Spacers for guide holders

MGHPS (With dowel holes)



- Flatness of plate thickness: 0.02mm/100mm or less
- Draft angle (2~3°) for casting is present in the direction of height T.

FC250



Post diameter	A	B	a	b	d	M	F			*For ℓ±0.01 (* T60·70·80, ℓ±0.02)	eH7	T
							MGBPS	MABPS	MGHPS			
20	74	44	56	30	6.6	6	22	28	—	56	6	10 20 30 40
25	84	48	66	30	9	8	28	34	—	66	8	10 20 30 40 50
32	100	58	76	36	11	10	34	42	—	76	8	10 20 30 40 50
38	130	75	100	44	11	10	42	52	32	100	10	20 30 40 50 60 70 80
50	155	90	125	60	14	12	52	62	45	125	10	20 30 40 50 60 70 80

Catalog No.		T
Type	Post diameter	
For plain type bushings	MGBPS	10 20 30 40
		25 10 20 30 40 50
For ball type bushings	MABPS	32 10 20 30 40 50
For holders	MGHPS	38 20 30 40 50 60 70 80
		50 20 30 40 50 60 70 80



Order

Catalog No. — T

MGBPS 20 — 30



Days to Ship

Quotation

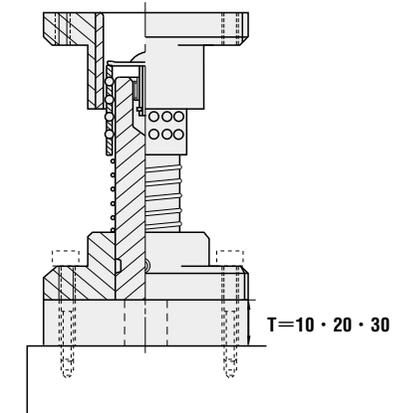
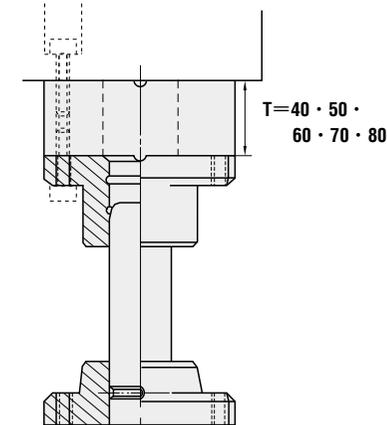


Price

Quotation



Example



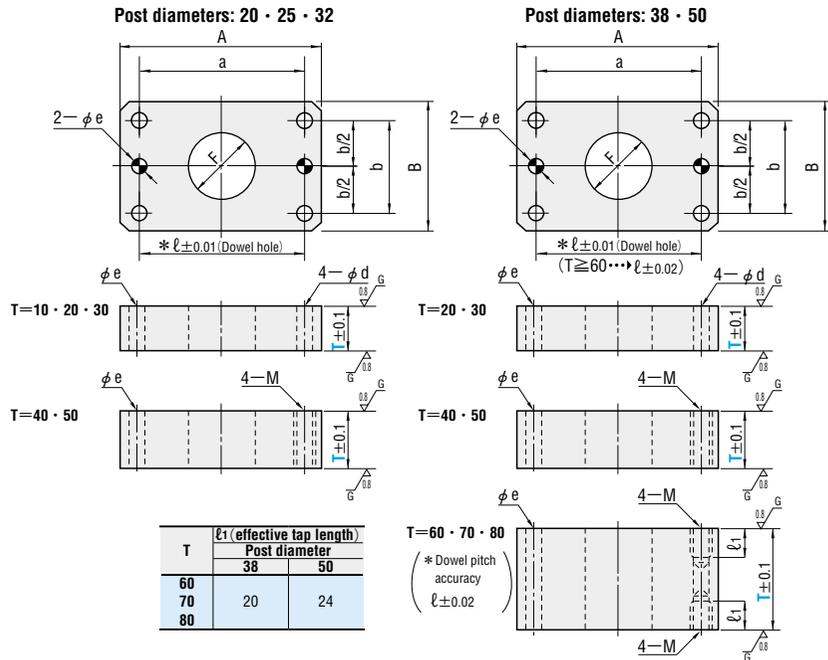
SPACERS FOR GUIDE POST SETS

—STEEL TYPE—

RoHS

Spacers for guide bushings

MGSPS (With dowel holes)



Flatness of plate thickness: 0.02mm/100mm or less

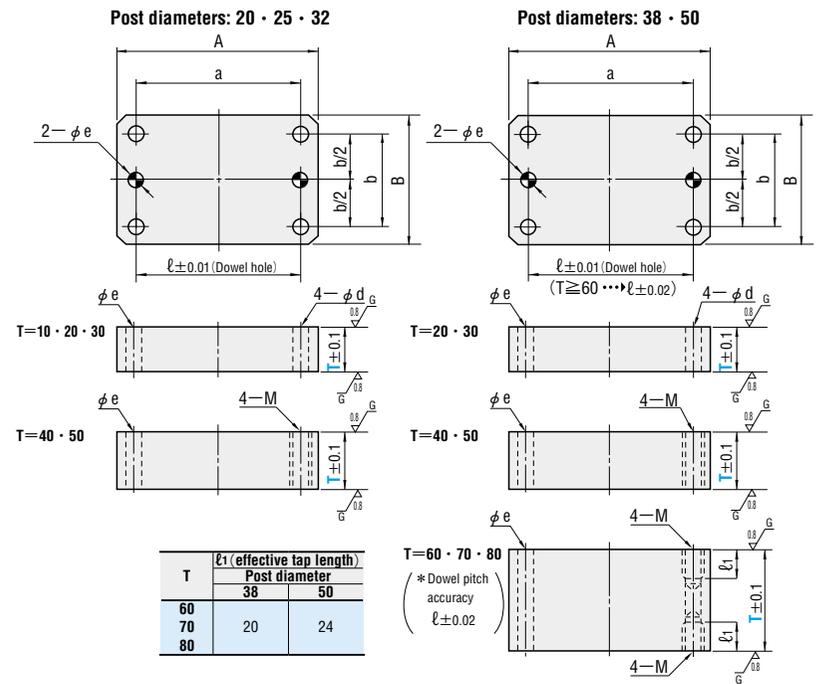
SS400



RoHS

Spacers for guide holders

MGLPS (With dowel holes)



Flatness of plate thickness: 0.02mm/100mm or less

SS400



Post diameter	A	B	a	b	d	M	F		eh7	T				
							MGSPS	(*For l±0.01 *T60·70·80 l±0.02)		10	20	30	40	
20	74	44	56	30	6.6	6	28	56	6	+0.012 0	10	20	30	40
25	84	48	66	30	9	8	34	66	8	+0.015 0	10	20	30	40
32	100	58	76	36	11	10	42	76	8		10	20	30	40
38	130	75	100	44	11	10	52	100	10		20	30	40	50
50	155	90	125	60	14	12	62	125	10	20	30	40	50	60

Catalog No.		T	
Type	Post diameter		
For bushings	20	10	20
	25	10	20
	32	10	20
For holders	38	20	30
	50	20	30
	50	20	30



Order

Catalog No. — T
MGSPS 20 — 30



Days to Ship

Quotation

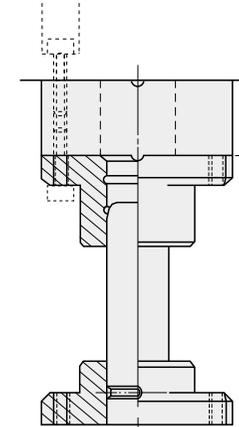


Price

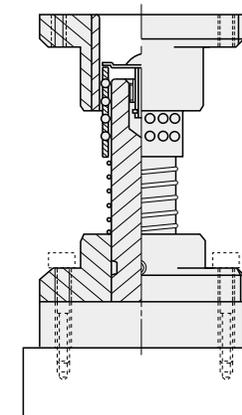
Quotation



Example



T=40 · 50 ·
60 · 70 · 80



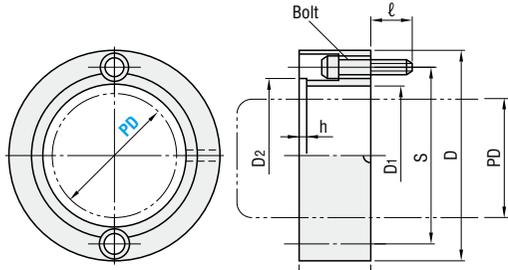
T=10 · 20 · 30

STROKE END BLOCKS



RoHS

① CEB (End block)

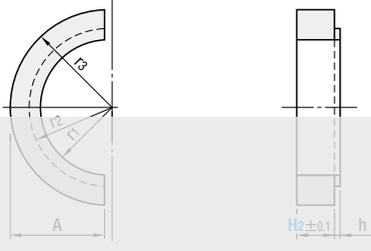


M SS400
A 2 bolts



RoHS

② CSB (Stock block)



M SS400

This product was discontinued in 2017.

PD	D	D ₁	D ₂	S	h	r ₁	r ₂	r ₃	A	Bolt	ℓ
25	46	31.5	37	2	15	20.5	22.5	20	22	M4×P0.7	10
32	56	41	45	2	15	20.5	22.5	20	27	M4×P0.7	10
38	72	49	56	60	3	24.5	28	36	35	M5×P0.8	10
50	86	62	68	72	3	31	34	43	42	M6×P1.0	10
60	112	76	84	92	3	38	42	56	55	M8×P1.25	12
80	140	100	108	116	3	50	54	70	69	M8×P1.25	12

Catalog No. : CEB CSB EBS EBW

Catalog No.		H ₁	Color	Base unit price 1 ~ 9 pieces
Type	PD	5mm increments		
① CEB	25	10 ~ 50	R (Red)	Quotation
	32	10 ~ 50		
		55 ~ 60		
	38	15 ~ 50		
		55 ~ 70		
	50	20 ~ 50	Y (Yellow)	
		55 ~ 80		
60	20 ~ 50			
	55 ~ 80			
80	20 ~ 50			
	55 ~ 80			

Catalog No.		H ₂	Color	Base unit price 1 ~ 9 pieces
Type	PD	5mm increments		
② CSB	25	10 ~ 20	R (Red)	Quotation
		25 ~ 40		
		10 ~ 20		
	32	25 ~ 40		
		10 ~ 20		
	38	10 ~ 20		
		25 ~ 50		
	50	10 ~ 20		
		25 ~ 50		
	60	10 ~ 20		
		25 ~ 50		
	80	10 ~ 20		
25 ~ 50				

Order Catalog No. — H₁ — Color (R·Y)
CEB 32 — 35 — R

Days to Ship Quotation

Price Quotation

Catalog No.	Type	① CEB (End block)		② CSB (Stock block)		Base unit price 1~9 sets			
		PD	H ₁ 5mm increments	Color	H ₂ 5mm increments	Color	EBW	EBS	
EBS (①CEB+②CSB 1 piece) Set product	25	32	10 ~ 50	R (Red) Y (Yellow)	10 ~ 20	R (Red) Y (Yellow)			
			10 ~ 50		25 ~ 40				
	38	15 ~ 50	10 ~ 20						
		55 ~ 70	25 ~ 40						
	50	20 ~ 50	10 ~ 20						
		55 ~ 80	25 ~ 50						
EBW (①CEB+②CSB 2 piece) Set product	60	80	20 ~ 50		10 ~ 20				
			55 ~ 80		25 ~ 50				
	80	20 ~ 50	10 ~ 20						
		55 ~ 80	25 ~ 50						
					10 ~ 20				
					25 ~ 50				

Quotation

The guide post sets must be machined so that the blocks can be attached. P.944

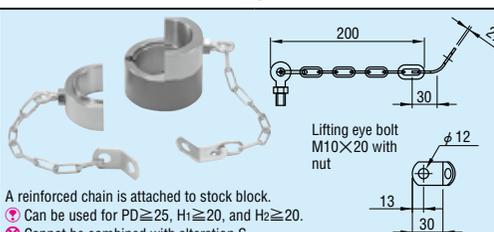
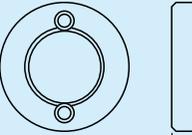
Order Catalog No. — ① — ② —
Type PD H₁ Color (R·Y) H₂ — Color (R·Y)
EBS 38

This product was discontinued in 2017.

Days to Ship Quotation
Catalog No. : CEB CSB EBS EBW

Price Quotation

Alterations Catalog No. — ① — ② — (S·RS·HC)
EBW 38 — 40R — 40—Y — S—HC38
CSB 50 — 35—Y — RS

Alteration	Machining for chain attachment	Machining for reinforced chain (RSC) attachment	H ₁ dimension change	
			S	RS
Code				
Spec.	 <p>End block and stock block are connected by a chain.</p>	 <p>A reinforced chain is attached to stock block. * Can be used for PD ≥ 25, H₁ ≥ 20, and H₂ ≥ 20. * Cannot be combined with alteration S.</p>	 <p>H₁ dimension change H₁ min. < HC < H₁ max. 1mm increments * Cannot be used for CSB.</p>	
	1Code	EBW EBS	EBW CSB·EBS	CEB·EBS·EBW

Quotation

For chain RSC of alteration RS, P.970.

STROKE END BLOCKS

— FLAT TYPE —

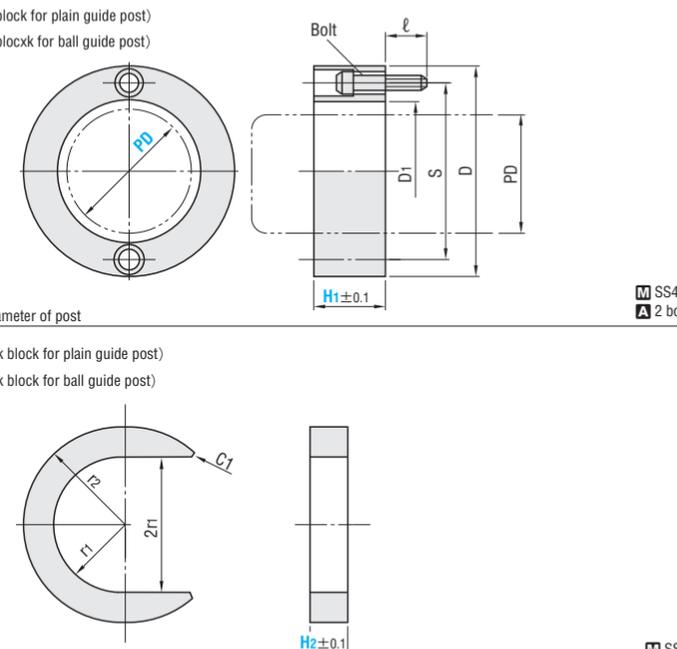


RoHS

CEBY (End block for plain guide post)
CEBA (End block for ball guide post)

RoHS

CSBY (Stock block for plain guide post)
CSBA (Stock block for ball guide post)



PD: Outside diameter of post

SS400
A 2 bolts

SS400

PD	D	CEBY D ₁	CEBA D ₁	CSBY r ₁	CSBA r ₁	S	r ₂	Bolt	ℓ
25	46	29	31.5	14.5	15.75	37	23	M4×P0.7	10
32	56	37	41	18.5	20.5	45	28	M4×P0.7	10
38	72	43	49	21.5	24.5	60	36	M5×P0.8	10
50	86	56	62	28	31	72	43	M6×P1.0	10
60	112	66	76	33	38	92	56	M8×P1.25	12
80	140	88	100	44	50	116	70	M8×P1.25	12

End blocks

Catalog No.	H ₁	Color	Base unit price
Type	PD	5mm increments	1~9 pieces
CEBY	25	10 ~ 50	Quotation
	32	10 ~ 60	
	38	15 ~ 70	
CEBA	50	20 ~ 80	Quotation
	60	20 ~ 80	
	80	20 ~ 80	

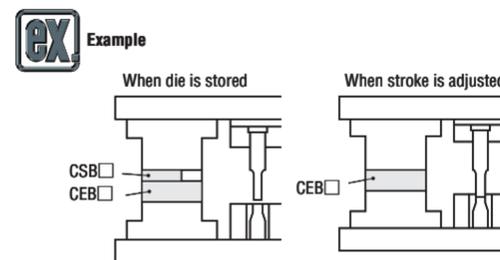
Stock blocks

Catalog No.	H ₂	Color	Base unit price
Type	PD	5mm increments	1~9 pieces
CSBY	25	10 ~ 40	Quotation
	32	10 ~ 40	
	38	10 ~ 50	
	50	10 ~ 50	
	60	10 ~ 50	
CSBA	60	10 ~ 50	Quotation
	80	10 ~ 50	

Order: Catalog No. — H₁ — Color (R·Y)
CEBY 32 — 35 — R

Days to Ship: Quotation

Price: Quotation



Catalog No.	Type	PD	①·② (End block) H ₁ 5mm increments	Color	③·④ (Stock block) H ₂ 5mm increments	Color	Base unit price 1~9 sets
EBYS (①CEBY+③CSBY) Set product	R (Red)	25	10 ~ 30	R (Red)	10 ~ 20	R (Red)	Quotation
			35 ~ 50				
			10 ~ 30				
			35 ~ 50				
			15 ~ 30				
			35 ~ 50				
EBAS (②CEBA+④CSBA) Set product	Y (Yellow)	50	35 ~ 50	Y (Yellow)	10 ~ 20	Y (Yellow)	Quotation
			25 ~ 50				
			10 ~ 20				
			25 ~ 50				
			10 ~ 20				
			25 ~ 50				

This product was discontinued in 2017.
Catalog No. : EBYS EBAS

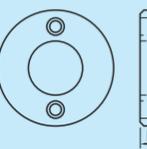
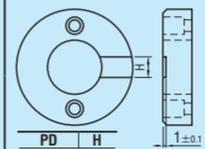
The guide post sets must be machined so that the blocks can be attached. P.944.

Order: Catalog No. — ①·② — ③·④
Type PD H₁ Color (R·Y) H₂ Color (R·Y)
EBYS 38 — 40 R — 40 Y

Days to Ship: Quotation

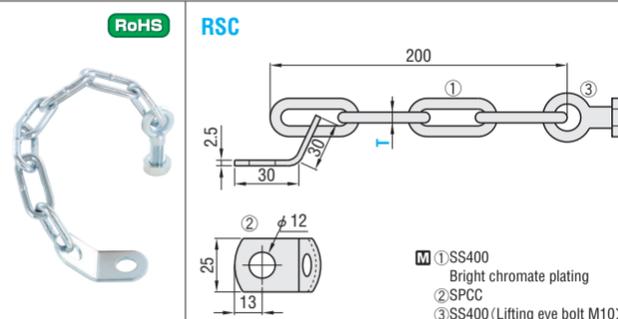
Alterations: Catalog No. — H (1-2) — Color (R·Y) — (S·RS·HC·NMC)
CSBY50 — 35 — R — RS
CEBA60 — 40 — Y — HC32

Price: Quotation

Alteration Code	Machining for chain attachment	Machining for reinforced chain (RSC) attachment	H ₁ dimension change	Machining of groove
	S	RS	HC	NMC
Spec.	 Tap hole processing on the end block for chain mounting. Tap hole processing on the stock block for chain mounting. The chain is attached to the stock block. Cannot be combined with alteration RS.	 Lifting eye bolts M10×20 with nut. Tap hole processing on the end block for a reinforced chain mounting. Reinforced chain (RSC) is attached to stock block. Can be used for PD≥25, H ₁ ≥20, and H ₂ ≥20. Cannot be combined with alteration S. Cannot be used for CSBY and CSBA.	 H ₁ dimension change H ₁ min. < HC < H ₁ max. 1mm increments Please order according to the alteration order example. Cannot be used for CSBY and CSBA.	 Addition of a groove for height adjustment Cannot be used for CSBY and CSBA.
1Code	Quotation			

Chains for end blocks

RoHS RSC



① SS400 Bright chromate plating
② SPCC
③ SS400 (Lifting eye bolt M10×20) with nut

Catalog No.	Base unit price
Type	T
RSC	3
	5

This product, RSC3, is a chain for alteration RS.

Order: Catalog No. RSC 3

Days to Ship: Quotation

Price: Quotation

HOLDER GUIDE POST SETS

EFFECTIVE MOVEMENT RANGE OF MOVABLE STOPPERS (MYA, MYAP, MYJ, MYJP)

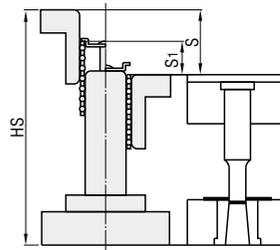
[DATA] Relationship between the BDC height of MYA, MYAP, MYJ and MYJP, and the post length

Selection standards for ball guides

1. Make sure that the contact length (α) between post/bushing and ball cage at press BDC satisfies the requirement $\alpha \geq D$.
(If $\alpha < D$, the lifetime of the die may be shortened. See Figure A.)
2. Be sure that the guide post length and mounting height h at press BDC are within the blue ranges shown in the tables on the page at right.
3. Select a post length so that the h dimension yields the longest possible contact length, as shown in Figure C.

● Relationship between bushing movement range S and ball cage movement range S_1 .

$$S_1 = \frac{S}{2}$$



Position where ball cage starts to move: Ideal position for HS BDC (long contact length)

Figure A Upper limit position for minimum contact length required for the post/bushing to function $\alpha \geq D$ (Position D mm lower than HS)

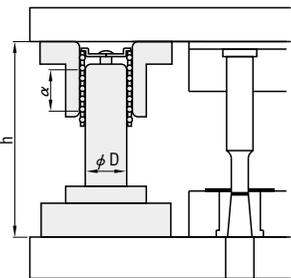


Figure B Limit position when the punch holder has no relief hole. In addition to 5mm for the stopper thickness, this position also includes 10mm as an allowance for regrinding and for safety purposes.

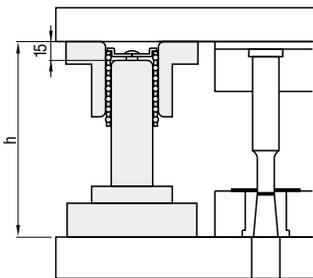


Figure C Position providing the maximum contact length between post/bushing and ball cage (Recommended height)

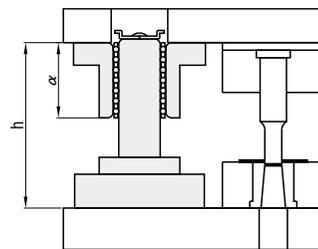


Figure D Lower limit of ball cage movement range $M=$ Solid height of spring
5mm= \equiv Allowance for regrinding and safety purposes
(When post length is short)

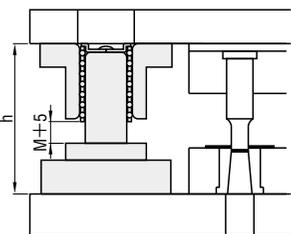


Figure E Lower limit of bushing movement range
10mm= \equiv Allowance for regrinding and safety purpose

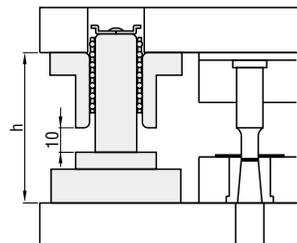
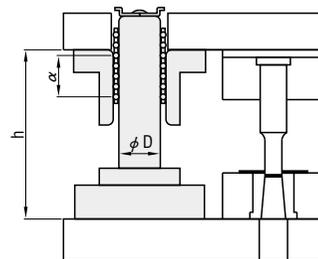


Figure F Lower limit position for minimum contact length required in order for post/bushing to function $\alpha \geq D$ (When post length is long)



Effective movement range of MYA, MYAP, MYJ, MYJP (Movement ranges based on conditions A, B, C, D, E, and F shown on the page at left)

Post size	Die height h	60	80	100	120	140	160	180	200	220
20	90			E C B A						
	100			E C B A						
	110			E C B A						
	120			E C B A						
	130			E C B A						
	140			F C B A						
	150			F C B A						
160			F C B A							

Post size	Die height h	80	100	120	140	160	180	200	220	240
25	90	E C B A								
	100	E C B A								
	110	E C B A								
	120	E C B A								
	130	F C B A								
	140	F C B A								
	150	F C B A								
	160	F C B A								
	170	F C B A								
	180	F C B A								
200	F C B A									

Post size	Die height h	100	120	140	160	180	200	220	240	260	280	300
32	110	D C B A										
	120	E C B A										
	130	E C B A										
	140	E C B A										
	150	E C B A										
	160	E C B A										
	170	F C B A										
	180	F C B A										
	200	F C B A										
	220	F C B A										
240	F C B A											
260	F C B A											

Post size	Die height h	120	140	160	180	200	220	240	260	280	300	320	340
38	130		D C B A										
	140		E C B A										
	150		E C B A										
	160		E C B A										
	170		E C B A										
	180		E C B A										
	200		F C B A										
	220		F C B A										
	240		F C B A										
	260		F C B A										
300		F C B A											

Post size	Die height h	160	180	200	220	240	260	280	300	320	340	360	380
50	170		D C B A										
	180		E C B A										
	200		E C B A										
	220		E C B A										
	240		F C B A										
	260		F C B A										
	300		F C B A										
350		F C B A											

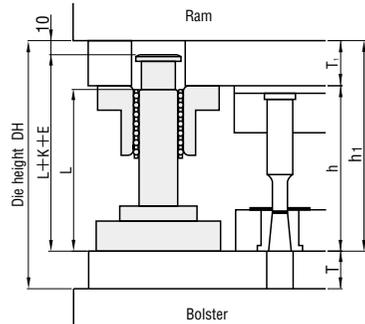
⊙ Use these values only as an approximate guide. They may vary depending on the ball pitch of the ball cage and other factors.

EFFECTIVE MOVEMENT RANGE OF FIXED TYPE STOPPERS (MYAK, MYKP, MYJK, MJKP)

[DATA] Relationship between the BDC height of MYAK, MYKP, MYJK and MJKP, and the post length

Selection standards for ball guides

1. Make sure that the contact length (α) between post/bushing and ball cage at press BDC satisfies the requirement $\alpha \geq D$.
(If $\alpha < D$, the lifetime of the die may be shortened. Figure A)
2. Be sure that the guide post length and mounting height h at press BDC are within the blue ranges shown in the tables on the page at right.
3. Select a post length so that the h dimension yields the longest possible contact length, as shown in Figure C.



L : Bolt length
K+E : Height of fixed type stopper
(Refer to P.1007)

How to determine T_1

$$T_1 \geq h_1 - h \quad h_1 = L + K + E + 10 \text{ (Refer to left figure.)}$$

(10mm=Regrinding+Safety)

(Example) $h=190$ In case of MYAK38-200

$$T_1 \geq 250 - 190$$

$\therefore T_1 \geq 60$ T_1 must be 60mm or longer.

Figure A Upper limit position for minimum contact length required for the post/bushing to function $\alpha \geq D$ (Position Dmm lower than HS)

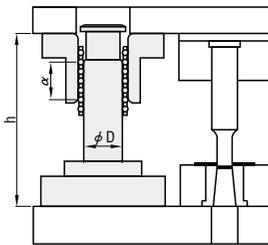


Figure C Position providing the maximum contact length between post/bushing and ball cage (Recommended height)

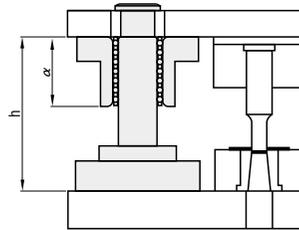


Figure D Lower limit of ball cage movement range
M=Solid height of spring
5mm=Allowance for regrinding and safety purpose
(When post length is short)

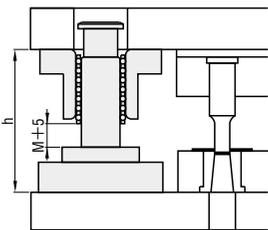


Figure E Lower limit of bushing movement range
10mm=Allowance for regrinding and safety purpose

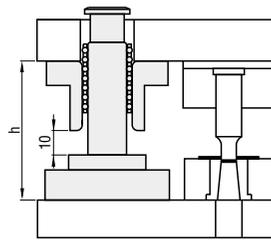
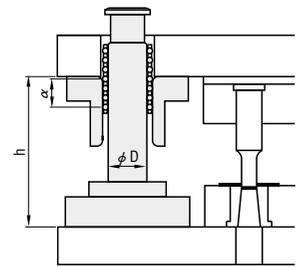


Figure F Lower limit position for minimum contact length required in order for post/bushing to function $\alpha \geq D$



Effective movement range of MYAK, MYKP, MYJK, MJKP (Movement ranges based on conditions A, C, D, E, and F shown on the page at left)

Post size	Die height h	80	100	120	140	160	180	200	220	240	260	280	h_1
25	90			D	A								125
	100		E	C	A								135
	110		E	C	A								145
	120		E	C	A								155
	130		E	C	A								165
	140		E	C	A								175
	150		F	C	A								185
	160		F	C	A								195
	170		F	C	A								205
	180		F	C	A								215
200		F	C	A								235	

Post size	Die height h	100	120	140	160	180	200	220	240	260	280	300	h_1
32	110			D	A								150
	120		D	C	A								160
	130		E	C	A								170
	140		E	C	A								180
	150		E	C	A								190
	160		E	C	A								200
	170		E	C	A								210
	180		F	C	A								220
	200		F	C	A								240
	220		F	C	A								260
240		F	C	A								280	
260		F	C	A								300	

Post size	Die height h	120	140	160	180	200	220	240	260	280	300	320	340	360	h_1
38	130			D	A										180
	140		D	C	A										190
	150		E	C	A										200
	160		E	C	A										210
	170		E	C	A										220
	180		E	C	A										230
	200		F	C	A										250
	220		F	C	A										270
	240		F	C	A										290
	260		F	C	A										310
300		F	C	A										350	

Post size	Die height h	160	180	200	220	240	260	280	300	320	340	360	380	400	h_1
50	170			D	A										230
	180		D	C	A										240
	200		E	C	A										260
	220		E	C	A										280
	240		E	C	A										300
	260		F	C	A										320
	300		F	C	A										360
350		F	C	A										410	

Post size	Die height h	180	200	220	240	260	280	300	320	340	360	380	400	420	h_1
60	200			D	A										275
	220		D	C	A										295
	240		E	C	A										315
	260		E	C	A										335
	300		F	C	A										375
	350		F	C	A										425

Use these values only as an approximate guide. They may vary depending on the ball pitch of the ball cage and other factors.