

HOLDER GUIDE POST SETS

HOLDER GUIDE POST SETS



Product name Catalog No.	PLAIN GUIDE POST SETS MY MYP	OIL-FREE GUIDE POST SETS MYZ MYZP	INTEGRATED TYPE PLAIN GUIDE POST SETS — OIL TYPE — N—MYP	INTEGRATED TYPE PLAIN GUIDE POST SETS — OIL-FREE TYPE — N—MYZP
Page	813	813	815	815



BALL GUIDE POST SETS — MOVABLE STOPPER — MYA MYAP	MYJ MYJP	BALL GUIDE POST SETS — FIXED STOPPER — MYAK MYKP	MYJK MJKP
817		819	819



INTEGRATED TYPE PLAIN GUIDE POSTS N—MGP	BUSHINGS FOR INTEGRATED TYPE PLAIN GUIDE POST SET N—MGBP	N—MGBZP	GUIDE POST SETS WITH OIL GROOVES MGOH MGOHP	MGO	GUIDE POSTS MGP
821	822		823		825



GUIDE HOLDERS MGH MGHP	PLAIN GUIDE BUSHINGS MGB MGBP	OIL-FREE GUIDE BUSHINGS MGBZ MGBZP	BALL GUIDE BUSHINGS MAB MABP	BALL RETAINER MBSH MBJH MBJ	STOPPERS STMY
826	826	826	827	827	828



WASHERS FOR PREVENTING DOWEL PIN FALL-OUT MW	SPRINGS SWMY	OIL-FREE GUIDE POST SETS GPZE	OIL-FREE GUIDE BUSHINGS GBZE	SPACERS FOR GUIDE POST SETS MGBPS MABPS	MGHPS
828	828	829	830	831	



SPACERS FOR GUIDE POST SETS MGSPS MGLPS	STROKE END BLOCKS CEB CSB EBS EBW	STROKE END BLOCKS — FLAT TYPE — CEB CSB EBYS EBAS	CHAINS FOR END BLOCKS RSC
833	835	837	838

HOLDER GUIDE POST SETS

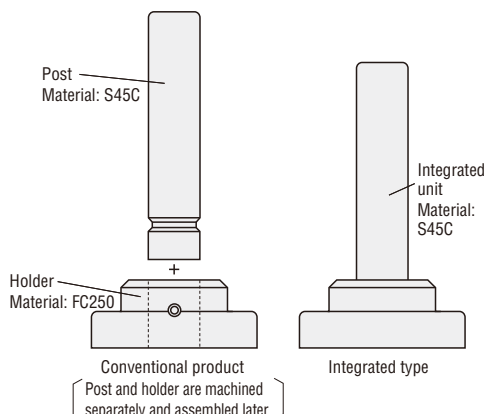
—GUIDE 1—

■ 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

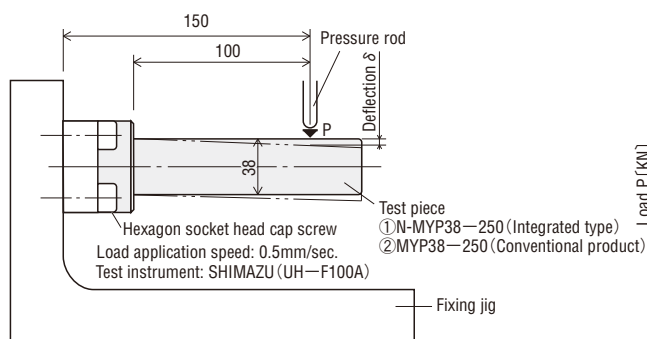
- ① Superior strength and rigidity
See the below data from the strength test.
- ② Interchangeable with conventional products
Outer diameter, hole diameter and hole pitch are the same as conventional products.
- ③ Tapping hole for attaching a stroke end block is machined as part of the standard specifications. It is not necessary to select alteration M, as it is with conventional products.



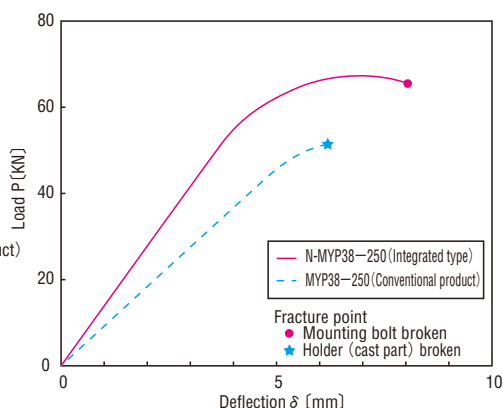
■ Strength test of holder guide post set

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 $\sim$ 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 $\sim$ 450	LC·W·M·B·H BKC·HKC·C

Note 1) Based on the above test results. Numeral 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 set —Oil type—	MY	MGP (P.825)	MGH (P.826)	MGB (P.826)	_____	_____	_____
	MYP		MGHP (P.826)	MGBP (P.826)	_____	_____	_____
Plain guide post set —Oil-free type—	MYZ		MGH (P.826)	MGBZ (P.826)	_____	_____	_____
	MYZP		MGHP (P.826)	MGBZP (P.826)	_____	_____	_____
Integrated type plain guide posts —Oil type—	N—MYP	N—MGP (P.821)		N—MGBP(P.822)	_____	_____	_____
Integrated type plain guide posts —Oil-free type—	N—MYZP			N—MGBZP(P.822)			
Ball guide post set	MYA	Not available	MGH (P.826)	MAB (P.827)	MBS (P.827)	SWMY (P.828)	STMY (P.828)
	MYAP		MGHP (P.826)	MABP (P.827)			
	MYJ		MGH (P.826)	MAB (P.827)	MBJ (P.827)		
	MYJP		MGHP (P.826)	MABP (P.827)			
	MYAK		MGH (P.826)	MAB (P.827)	MBS (P.827)		Not available
	MYKP		MGHP (P.826)	MABP (P.827)			
	MYJK		MGH (P.826)	MAB (P.827)	MBJ (P.827)		
	MJKP		MGHP (P.826)	MABP (P.827)			
Guide post sets with oil grooves	MGOH	MGO (P.823)	MGH (P.826)	_____	_____	_____	_____
	MGOHP		MGHP (P.826)	_____	_____	_____	_____
	GPZE	MGP (P.825)	_____	GBZE (P.830)	_____	_____	_____

HOLDER GUIDE POST SETS

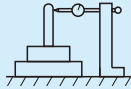
—ALTERATIONS GUIDE / ACCURACY STANDARDS—

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																																
Post length change		LC	1mm increments LCmin. ≤ LC < Lmax.	<table><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>	D	LCmin.	20	75	25	75	32	95	38	120	50	165	60	170	80	240	<table><tr><th rowspan="3">Plain type</th><th>D</th><th rowspan="3">Quotation</th></tr><tr><td>20・25・32</td></tr><tr><td>38・50</td></tr><tr><td rowspan="3">Ball type</td><th>D</th><th rowspan="3">Quotation</th></tr><tr><td>20・25・32</td></tr><tr><td>38・50</td></tr><tr><td></td><td>60</td><td></td></tr></table>	Plain type	D	Quotation	20・25・32	38・50	Ball type	D	Quotation	20・25・32	38・50		60				
	D		LCmin.																																		
20	75																																				
25	75																																				
32	95																																				
38	120																																				
50	165																																				
60	170																																				
80	240																																				
Plain type	D	Quotation																																			
	20・25・32																																				
	38・50																																				
Ball type	D	Quotation																																			
	20・25・32																																				
	38・50																																				
	60																																				
Tap hole for attaching stroke end block		Bushing W	Tap holes are machined for attaching a stroke end block. (For the specifications of stroke end blocks, refer to P.835 ~ 838.)	<table><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>60</td></tr><tr><td>50</td><td>8</td><td>20</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>	D	M	l1	S	25	4	12	37	32	5	15	45	38	6	15	60	50	8	20	72	60	8	20	92	80			116	25・32 38・50 60・80				
	D	M	l1	S																																	
25	4	12	37																																		
32	5	15	45																																		
38	6	15	60																																		
50	8	20	72																																		
60	8	20	92																																		
80			116																																		
Machining for reversed bushing and/or holder orientation		Bushing B	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><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>	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
	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																																		
Bushing H1 dimension tolerance change		BKC	Bushing height H1 dimension tolerance is changed from ±0.2 to ±0.1. H1 ± 0.2 ⇒ ± 0.1	25・32 38・50 60・80																																	
Holder H dimension tolerance change		HKC	Holder height H dimension tolerance is changed from ±0.2 to ±0.1. H ± 0.2 ⇒ ± 0.1	25・32 38・50 60・80																																	
Addition of locating dowel holes (2 holes)		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><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																																			
20	56	6																																			
25	66	8																																			
32	76	8																																			
38	100	10																																			
50	125	10																																			
60	150	13																																			
80	190	16																																			
Addition of locating dowel hole (1 hole at center)		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																																	
Ball retainer achange		BSC	The provided ball retainer is changed to a high rigidity type. Aluminum: MBSH Resin : MBJH	<table><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>	D	Retainer length	MBSH	MBJH	20	50			25	50			32	60			38	70			50	90			60	100			Quotation				
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

PLAIN GUIDE POST SETS

— OIL • OIL-FREE TYPES —

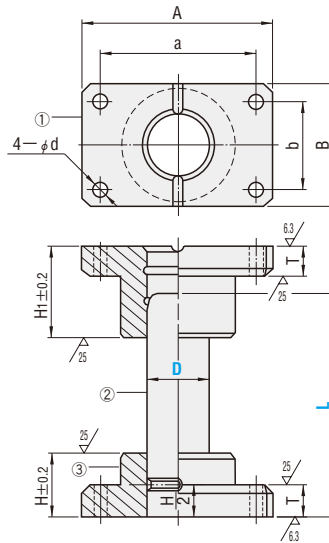
RoHS



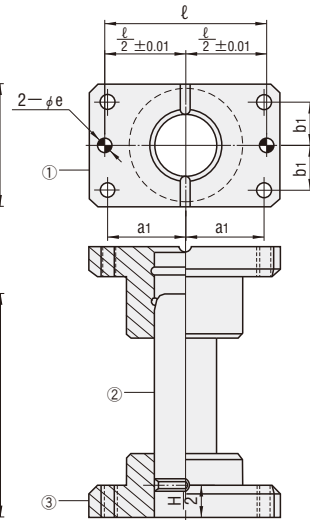
Replacement parts P.811

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

MY (Oil type)



MYP (With dowel hole, oil type)



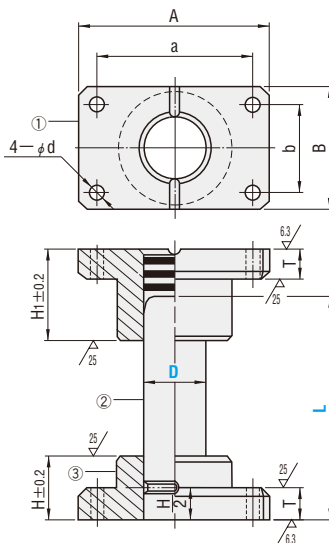
RoHS



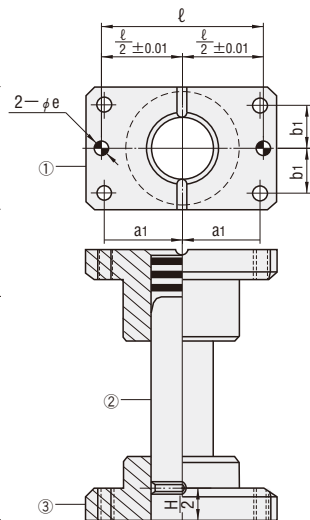
Replacement parts P.811

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

MYZ (Oil-free type)



MYZP (With dowel hole, oil-free type)



⚠ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.812.)

D	A	B	a	b	d	H	H ₁	T	ℓ	a ₁	b ₁	eh7	④ Provided bolt	⑤ Provided dowel pins
20	74	44	56	30	6.6	30	40	15	56	28	15	6 ^{+0.012 0}	CB 6—30	MSTM 6—20
25	84	48	66	30	9	30	45	20	66	33	15	8	CB 8—35	MSTM 8—30
32	100	58	76	36	11	40	50	20	76	38	18	8 ^{+0.015 0}	CB10—40	MSTM 8—30
38	130	75	100	44	11	50	60	25	100	50	22	10	CB10—45	MSTM10—40
50	155	90	125	60	14	65	85	25	125	62.5	30	10	CB12—50	MSTM10—40
60	190	120	150	80	18	75	100	30	150	75	40	13 ^{+0.018 0}	CB16—60	MSTM13—50
80	230	150	180	110	22	100	130	35	190	90	55	16	CB20—75	MSTM16—60

Catalog No.																Base unit price 1~9 pieces				
Type	D	L														MY	MYP	MYZ	MYZP	
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													
		150 160 170 180 200 220 250																		
	38	110 120 130 140 150 160 170 180												Quotation						
		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
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.812	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.812	25-32 38-50 60-80	
	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.812	20-25-32 38-50 60-80	
	Holder H			

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.	20-25-32 38-50 60-80	
	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 POSTS

— OIL • OIL-FREE TYPES — (For high-strength and high-rigidity types, refer to P.810.)

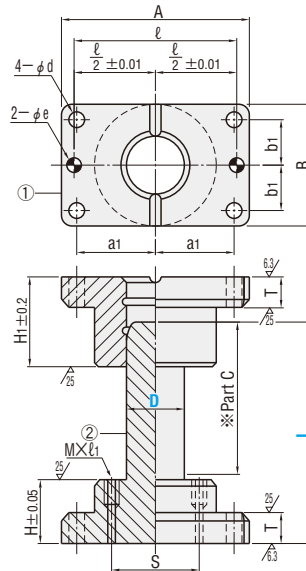
RoHS



Replacement parts P.811

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

N—MYP (Oil type)



- ⚡ The holder and post are integrated into a single part.
- ⚡ The post includes tap holes for mounting a stroke end block.
- ⚡ Features P.810

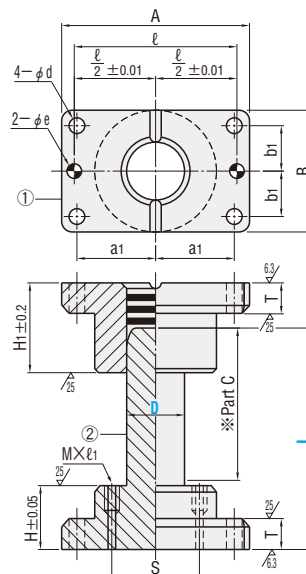
RoHS



Replacement parts P.811

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

N—MYZP (Oil-free type)



- ⚡ The holder and post are integrated into a single part.
- ⚡ The post includes tap holes for mounting a stroke end block.
- ⚡ Features P.810

⚡ Perpendicularity of integrated type post bottom and post: 0.02mm/100mm or less (Refer to P.812.)

D	A	B	d	H	H ₁	T	ℓ	a ₁	b ₁	S	M	ℓ ₁	eh7	③ Provided bolt	④ Provided dowel pins	
25	84	48	9	30	45	20	66	33	15	37	4	12	8	+0.015 0	CB 8—35	MSTM 8—30
32	100	58	11	40	50	20	76	38	18	45	4	12	8		CB10—40	MSTM 8—30
38	130	75	11	50	60	25	100	50	22	60	5	15	10		CB10—45	MSTM10—40
50	155	90	14	65	85	25	125	62.5	30	72	6	15	10		CB12—50	MSTM10—40
60	190	120	18	75	100	30	150	75	40	92	8	20	13	+0.018 0	CB16—60	MSTM13—50

Catalog No.		L										Base unit price 1~9 pieces		
Type	D											N—MYP	N—MYZP	
N—MYP N—MYZP	25	90	100	110	120									
		130 140 150 160 170 180 200												
	32	100	110	120	130	140	150							
		160 170 180 200												
	38	120 130 140 150										Quotation		
		160 170 180												
		200 220 250												
	50	160 170 180 200												
		220 250												
N—MYZP	60							180	200	220	250	280		



Order

Catalog No. — L
N—MYP 50 — 250



Price

Quotation



Days to Ship

Quotation



Alterations

Catalog No. — L (LC) — (W·B, etc.)
N—MYP 50 — LC240 — B

Quotation

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments LCmin. ≤ LC < Lmax. Details of alteration P.812	25·32 38·50 60	Quotation
	Bushing W	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.812	25·32 38·50 60	
	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.812	25·32 38·50 60	

Alteration	Code	Spec.	D	1Code
	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	

BALL GUIDE POST SETS

—MOVABLE STOPPER— (ALUMINUM・RESIN BALL CAGE)

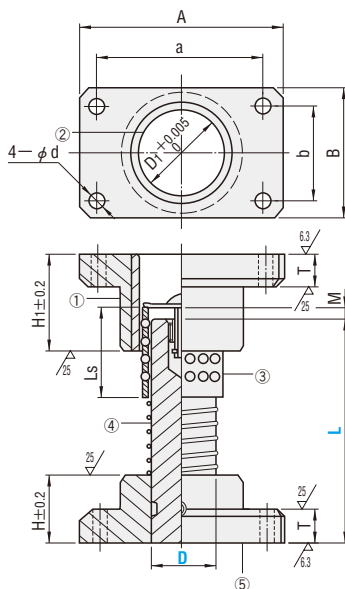
RoHS



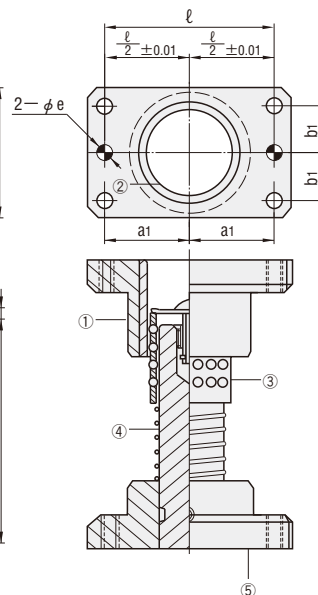
Replacement parts P.811
Spring sizes P.828

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

MYA (Aluminum type)



MYAP (Aluminum type with dowel hole)



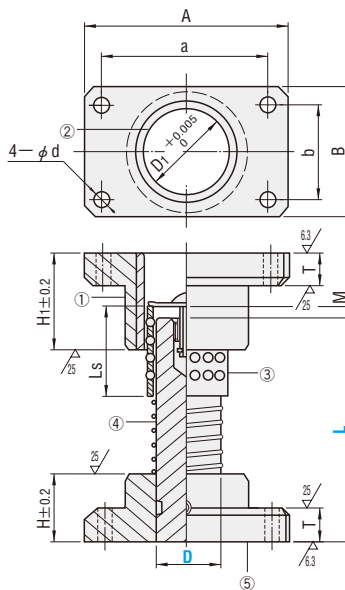
RoHS



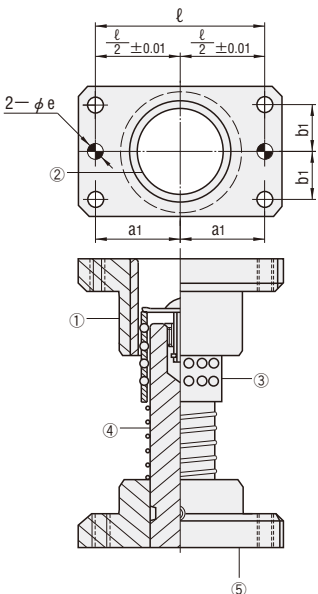
Replacement parts P.811
Spring sizes P.828

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

MYJ (Resin type)



MYJP (Resin type with dowel hole)



Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.812.)

D	D ₁	A	B	a	b	d	H	H ₁	T	Ls	M	Stopper distance	ℓ	a ₁	b ₁	eH7		⑥ Provided bolts	⑦ Provided dowel pins
20	26	74	44	56	30	6.6	30	50	15	50	0~20	56	28	15	6	+0.012 0 +0.015 0		CB 6—30	MSTM 6—20
25	31	84	48	66	30	9	30	50	20	50	0~20	66	33	15	8			CB 8—35	MSTM 8—30
32	40	100	58	76	36	11	40	60	20	60	0~25	76	38	18	8			CB10—40	MSTM 8—30
38	48	130	75	100	44	11	50	70	25	70	0~29	100	50	22	10			CB10—45	MSTM10—40
50	60	155	90	125	60	14	65	90	25	90	0~42	125	62.5	30	10			CB12—50	MSTM10—40

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

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	
	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 temp MBSH MBJH 20 50 25 50 32 60 38 70 50 90

BALL GUIDE POST SETS

—FIXED STOPPER— (ALUMINUM・RESIN BALL CAGE)

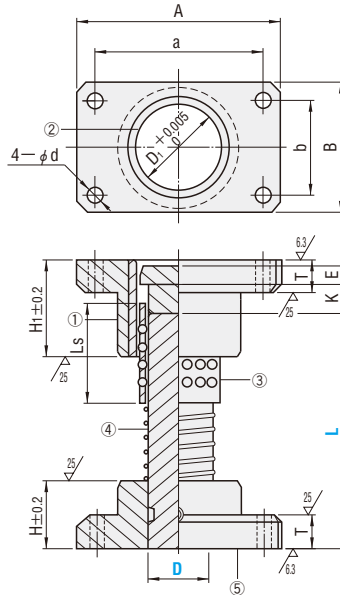
RoHS



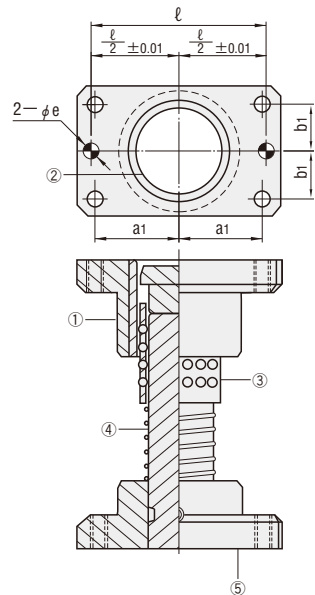
Replacement parts P.811
Spring sizes P.828

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

MYAK (Aluminum type)



MYKP (Aluminum type with dowel hole)



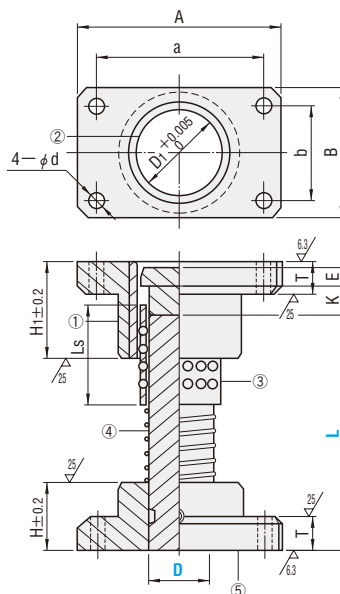
RoHS



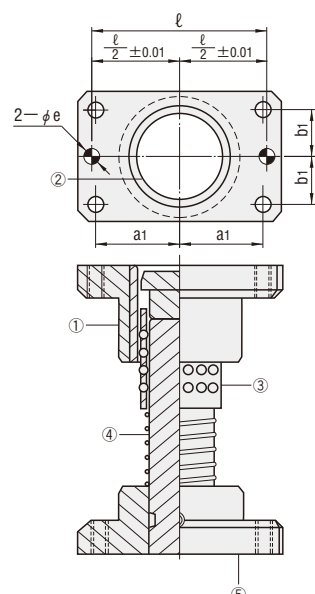
Replacement parts P.811
Spring sizes P.828

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

MYJK (Resin type)



MJKP (Resin type with dowel hole)



⚠ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.812.)

D	D ₁	A	B	a	b	d	H	H ₁	T	K	Stopper fixed	E	Ls	ℓ	a ₁	b ₁	eH7	⑥ Provided bolt	⑦ Provided dowel pins
25	31	84	48	66	30	9	30	50	20	20		5	50	66	33	15	8		CB 8—35 MSTM 8—30
32	40	100	58	76	36	11	40	60	20	25		5	60	76	38	18	8	+0.015 0	CB10—40 MSTM 8—30
38	48	130	75	100	44	11	50	70	25	30		10	70	100	50	22	10		CB10—45 MSTM10—40
50	60	155	90	125	60	14	65	90	25	40		10	90	125	62.5	30	10		CB12—50 MSTM10—40
60	70	190	120	150	80	18	75	100	30	50		15	100	150	75	40	13	+0.018 0	CB16—60 MSTM13—50

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

Quotation



Order

Catalog No. — L
MYKP 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.812	25-32 38-50 60	
	Holder M	Machining for mounting of a stroke end block Tap holes are machined for attaching a stroke end block. Details of alteration P.812	25~60	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.812	25-32 38-50 60	
	Holder H			

Alteration	Code	Spec.	D	1Code
	BKC	Bushing H ₁ dimension tolerance change H ₁ ± 0.2 ⇔ ± 0.1	25-32 38-50 60	
	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	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	
	BSC	Ball retainer change Provided ball cage is changed to the high rigidity type. Aluminum: MBSH Resin : MBJH		1Code
			D Retainer length	MBSH MBJH
			25 30	
			32 60	
			38 70	
			50 90	
			60 100	Quotation

INTEGRATED TYPE PLAIN GUIDE POSTS

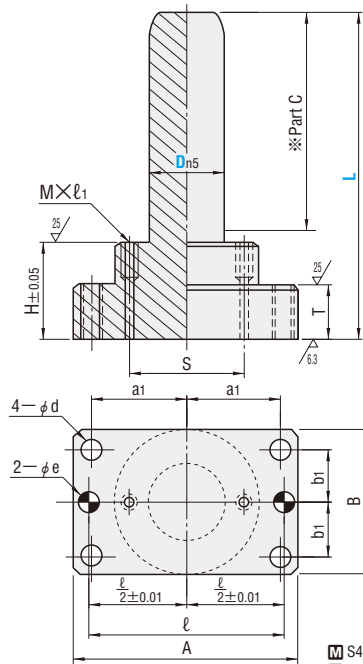
(For high-strength and high-rigidity types, refer to P.810.)

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.812.)



M S45C

☛ Part C 55HRC~ (Induction hardening)

Dn5		A	B	d	H	T	ℓ	a ₁	b ₁	S	M	ℓ ₁	eh7	
25	+0.024 +0.015	84	48	9	30	20	66	33	15	37	4	12	8	+0.015 0
32	+0.028 +0.017	100	58	11	40	20	76	38	18	45	4	12	8	
38		130	75	11	50	25	100	50	22	60	5	15	10	
50		155	90	14	65	25	125	62.5	30	72	6	15	10	
60	+0.033 +0.020	190	120	18	75	30	150	75	40	92	8	20	13	+0.018 0

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



Order

Catalog No. — L

N—MGP 32 — 200



Days to Ship

Quotation



Price

Quotation

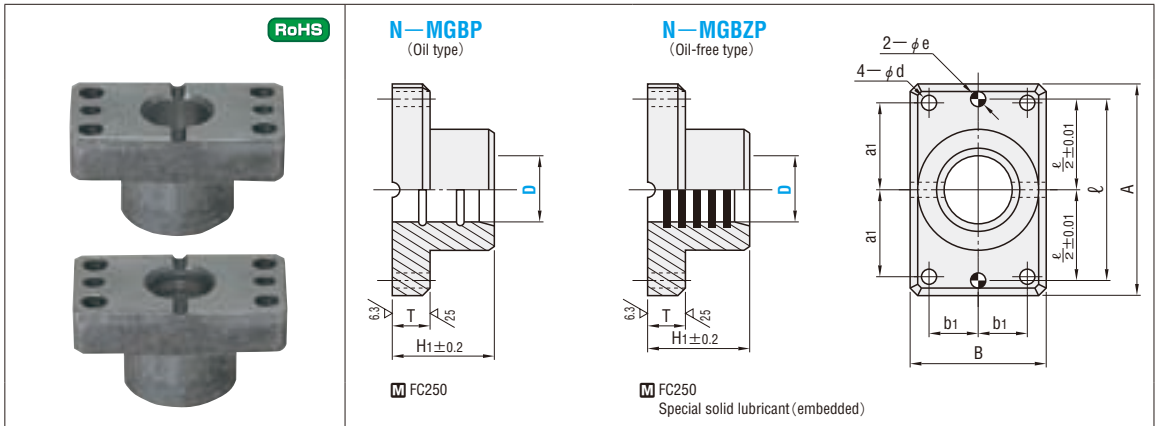


Alterations

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

Alteration	Code	Spec.	D	1Code
	LC	Post length change 1mm increments $LC_{min.} \leq LC < LC_{max.}$ Details of alteration ☞ P.812	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	

BUSHINGS FOR INTEGRATED TYPE PLAIN GUIDE POST SET



A	B	d	H1	T	EH7	l	a1	b1	Catalog No.		Base unit price 1~9 pieces	
									Type	D	N—MGBP	N—MGBZP
84	48	9	45	20	8	66	33	15	N—MGBP	25		
100	58	11	50	20		76	38	18		32		
130	75	11	60	25		100	50	22		38		
155	90	14	85	25	10	125	62.5	30	N—MGBZP	50		
190	120	18	100	30		150	75	40		60		



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

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.812	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.812	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.810

■ Integrated type plain guide posts P.815

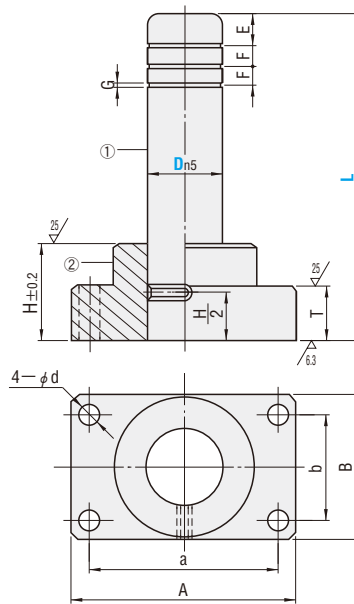
GUIDE POSTS WITH OIL GROOVES

RoHS

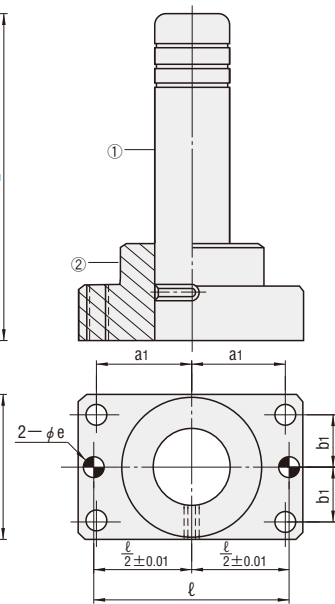


- ① M S45C
- ② H 55HRC~ (Induction hardening)
- ③ M FC250

MGOH



MGOHP (With dowel hole)



⚠ Perpendicularity of guide holder bottom and guide post: 0.02mm/100mm or less (Refer to P.812.)

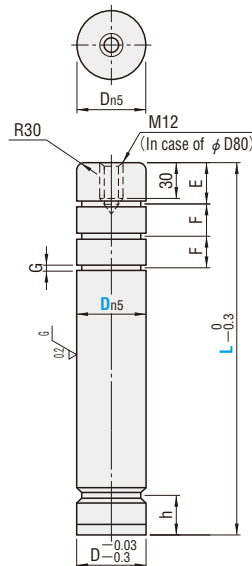
RoHS



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

- M S45C
- H 55HRC~ (Induction hardening)

MGO (Guide post with oil grooves)



	Dn5	M	D	A	B	a	b	d	H	T	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	13	13	3	15	66	33	15	8	+0.015 0	CB 8—35	MSTM 8—30
32	+0.028 +0.017	—	32	100	58	76	36	11	40	20	15	15		20	76	38	18	8		CB10—40	MSTM 8—30
38		—	38	130	75	100	44	11	50	25	18	18		25	100	50	22	10		CB10—45	MSTM10—40
50	+0.033 +0.020	—	50	155	90	125	60	14	65	25	25	20	5	32.5	125	62.5	30	10	+0.018 0	CB12—50	MSTM10—40
60		—	60	190	120	150	80	18	75	30	25	20		37.5	150	75	40	13		CB16—60	MSTM13—50
80		12	80	230	150	180	110	22	100	35	30	25		50	190	90	55	16		CB20—75	MSTM16—60

Catalog No.		L															Base unit price 1~9 pieces		
Type	D																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, φ 80 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

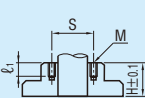
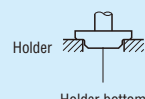


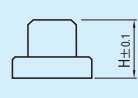
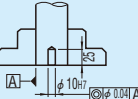
Alterations

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

Quotation

⊗ Alterations cannot be used for MGO.

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.812	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.812	25·32 38·50 60·80	

Alteration	Code	Spec.	D	1Code
	HKC	Holder H dimension tolerance change $H \pm 0.2 \Rightarrow \pm 0.1$	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	

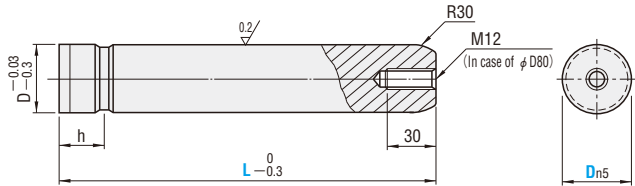
GUIDE POSTS / GUIDE HOLDERS / GUIDE BUSHINGS

Guide post



RoHS

MGP



S45C
 55HRC~ (Induction hardening)

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

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



Order

Catalog No. — L
MGP 32 — 160
MGH 32



Price

Quotation



Days to Ship

Quotation



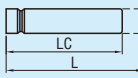
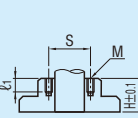
Alterations

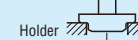
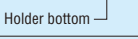
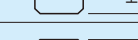


Catalog No. — L(LC) — (W·B...etc.)
MGP80 — LC290 — B



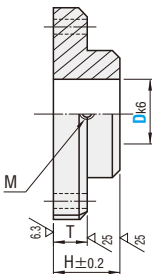
Quotation

Alteration	Code	Spec.	D	1Code
	LC	Post length change LC < L 1mm increments	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.812	25·32 38·50 60·80 25~80	Quotation

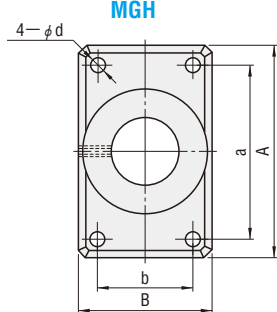
Alteration	Code	Spec.	D	1Code
	Bushing B	Machining of flange for reversed bushing and/or holder orientation. Use of the reversed bushing and/or holder allows the die height to be reduced. ⊗ Alterations B and H can be combined at the same time. ⊗ The post length is measured from the holder bottom. Details of alteration P.812	20·25·32 38·50 60·80	Quotation
	Holder H			
				
				
	BKC	Bushing H1 dimension tolerance change H1 ± 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	

Guide holder

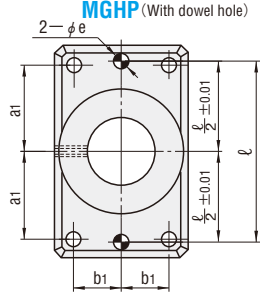
RoHS

MGH



MGHP (With dowel hole)



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

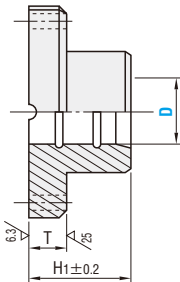
FC250

Catalog No.			A	B	a	b	d	H	T	M	eH7	ℓ	a1	b1	Base unit price 1~9 pieces		
Type	Dk6														MGH	MGHP	
MGH	20	+0.002 -0.011	74	44	56	30	6.6	30	15	8	6	+0.012 0	56	28	15		
	25		84	48	66	30	9	30	20		8		66	33	15		
	32		100	58	76	36	11	40	20			+0.015 0	76	38	18		
	38	+0.003 -0.013	130	75	100	44	11	50	25	12	10		100	50	22	Quotation	
50		155	90	125	60	14	65	25				125	62.5	30			
60	+0.004 -0.014	190	120	150	80	18	75	30	13		+0.018 0	150	75	40			
80		230	150	180	110	22	100	35	16			190	90	55			

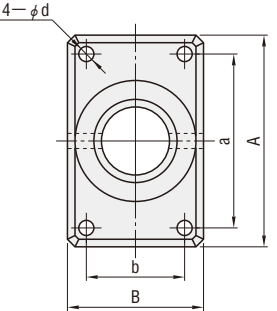
Quotation

Plain guide bushing

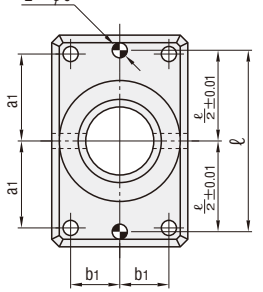
RoHS

MGB



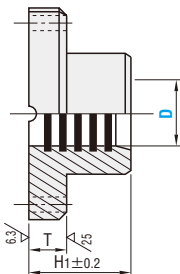
MGBP (With dowel hole)



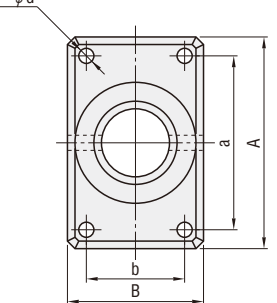
FC250

Oil-free guide bushings

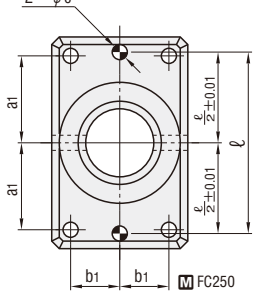
RoHS

MGBZ



MGBZP (With dowel hole)

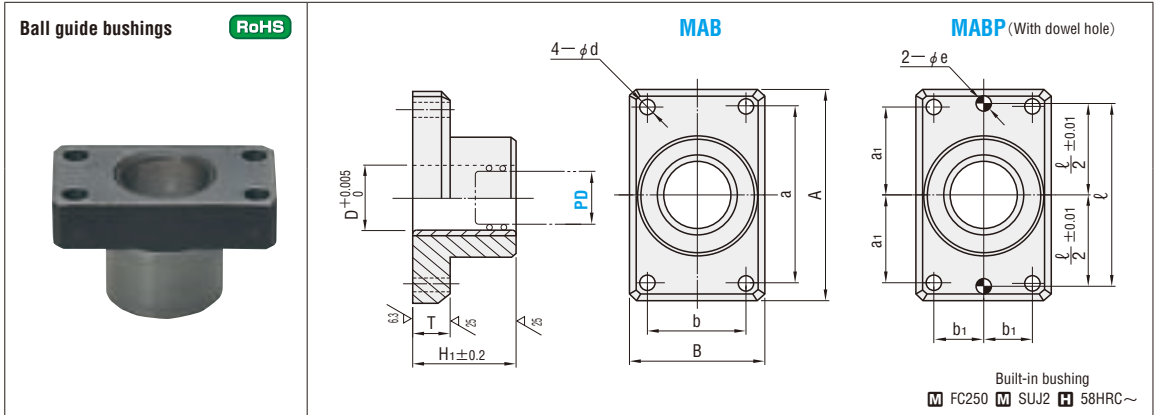


FC250
Special solid lubricant (embedded)

Catalog No.			A	B	a	b	d	H ₁	T	e _{H7}	ℓ	a ₁	b ₁	Base unit price 1~9 pieces				
Type	D													MGB	MGBP	MGBZ	MGBZP	
MGB MGBP MGBZ MGBZP	20	+0.041 +0.031	74	44	56	30	6.6	40	15	6	+0.012 0	56	28	15				
	25		84	48	66	30	9	45	20	8		66	33	15				
	32	+0.047 +0.037	100	58	76	36	11	50	20			76	38	18				
	38	+0.049 +0.037	130	75	100	44	11	60	25		10		100	50	22			
	50	+0.052 +0.037	155	90	125	60	14	85	25			125	62.5	30				
	60	+0.061 +0.043	190	120	150	80	18	100	30	13			150	75	40			
	80	+0.063 +0.043	230	150	180	110	22	130	35	16	+0.018 0	190	90	55				

Quotation

BALL GUIDE BUSHINGS / BALL RETAINER



Catalog No.		D		A	B	a	b	d	H ₁	T	eH7	ℓ	a ₁	b ₁	Base unit price 1~9 pieces			
Type	PD														MAB	MABP		
MAB MABP	20	26	+0.005 0	74	44	56	30	6.6	50	15	6	+0.012 0	56	28	15			
	25	31		84	48	66	30	9	50	20	8	+0.015 0	66	33	15			
	32	40		100	58	76	36	11	60	20			76	38	18	Quotation		
	38	48		130	75	100	44	11	70	25	10	+0.018 0	100	50	22			
	50	60		155	90	125	60	14	90	25			125	62.5	30			
	60	70		190	120	150	80	18	100	30	13	150	75	40				



Order

Catalog No.

MAB 32



Days to Ship

Quotation



Price

Quotation

RoHS

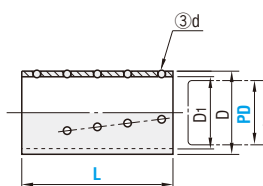
①



②



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



❗ Compared with conventional ball retainer (MBS, MBJ), these products contain 1.6 times more balls.
M ① A5056 (Aluminum)
M ② POM (Polyacetal resin)
H ③ SUJ2 Sphericity 0.25 μm
H ④ 62~67HRC

RoHS

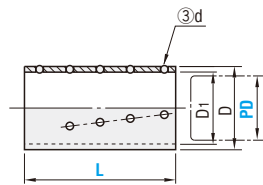
①



②



MBS (Aluminum ball retainer)
MBJ (Resin ball retainer)



M ① A5056 (Aluminum)
M ② POM (Polyacetal resin)
H ③ SUJ2 Sphericity 0.25 μm
H ④ 62~67HRC

PD Post diameter	Outer diameter φ D	Inner diameter φ D ₁	Ball diameter φ d	Number of balls		Ratio	Catalog No.		L	Base unit price 1~9 pieces			
				MBSH MBJH	MBS MBJ		Type	PD		MBSH	MBJH	MBS	MBJ
20	25.5	20.5	3	165	96	1.72	MBSH (Aluminum)	20	50				
25	30.5	25.5		224	125	1.79		25	50				
32	39.5	32.5		238	144	1.65		32	60				
38	47.5	38.5	4	210	128	1.64	MBJH (Resin)	38	70				
50	59.5	50.5		360	220	1.64		50	90				
60	69.5	60.5		460	264	1.74		60	100				



Order

Catalog No.

MBSH 32

— L

— 60



Price

Quotation



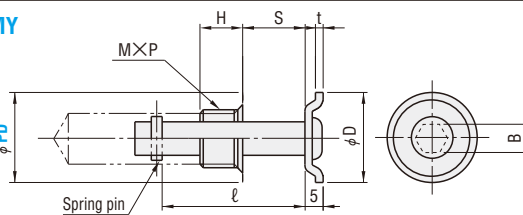
Days to Ship

Quotation

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

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.	PD-L	D	M×P	H	B	t	Base unit price 1~9 pieces
STMY	20-50	24	14×1.5	12	7		
	25-50	29	16×1.5		8	1.6	
	32-60	37					
	38-70	44	20×1.5	15	10		
	50-90	56				2.0	



Order

Catalog No.

STMY 32-60



Price

Quotation

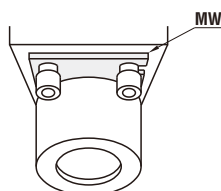


Days to Ship

Quotation

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

MW

Thickness = 1.6mm

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

•One set contains two washers.

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



Order

Catalog No.

MW 38



Price

Quotation

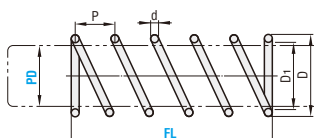


Days to Ship

Quotation

Springs for ball guide post sets
RoHS

SWMY

SWP-B

PD Post diameter	D	D ₁	d	P
20	22.5	20.5	+1.0 0	1.0
25	27.9	25.5	0	1.2
32	35.7	32.5	+1.5 0	1.6
38	42.5	38.5	0	2.0
50	55.7	50.5	+2.0 0	2.6
60	66.9	60.5	0	3.2

•Solid height = $\frac{FL \times d}{P} + 2d$

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

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

Guide post sets	Catalog No.	PD	FL	Base unit price 1~9 pieces
D	L	Type		
50	170	50	70	
	180		90	
	200		110	
	220		140	
	240		170	
	260		190	
	300		230	
	350		280	
	200		90	
	220		130	
60	240	60	150	
	260		180	
	300		230	
	350		250	



Order

Catalog No.

SWMY 32

FL

190



Days to Ship

Quotation

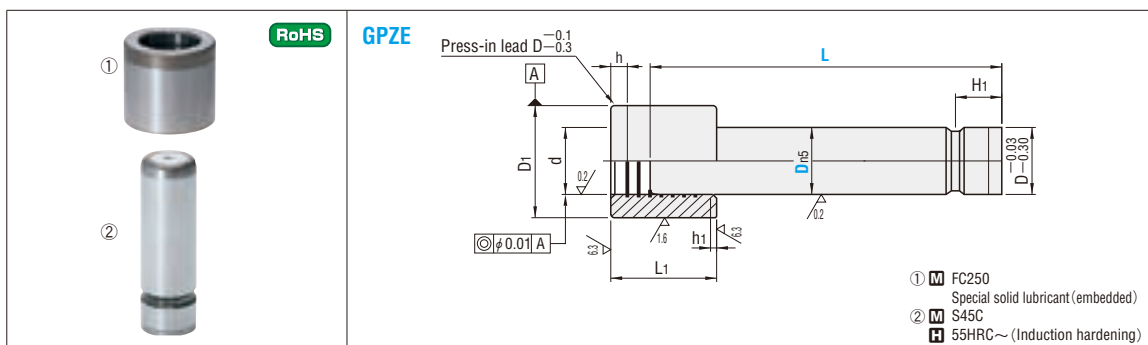


Price

Quotation

OIL-FREE GUIDE POST SETS

—PRESS-FIT TYPE—



②		①						
Dn5		H1	d		D1JS5 GPZE	h	h1	L1
32	+0.028 +0.017	20	32	+0.047 +0.037	52	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	+0.033 +0.020	37.5	60	+0.061 +0.043	80	20		90
80		50	80	+0.063 +0.043	100	25		120

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



Order

Catalog No. — L
GPZE 80 — 300



Price

Quotation



Days to Ship

Quotation



Alterations



Catalog No. — L(LC)
GPZE 80 — LC 290



Quotation

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

OIL-FREE GUIDE BUSHINGS

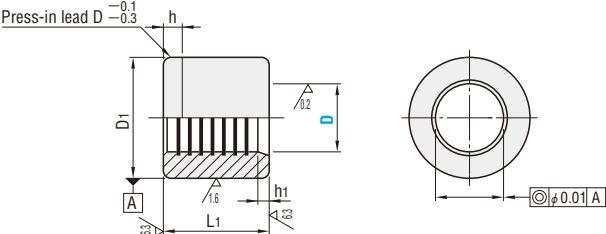
—PRESS-FIT TYPE—



RoHS

GBZE

Press-in lead $D \begin{smallmatrix} -0.1 \\ -0.3 \end{smallmatrix}$



$\textcircled{M}$ FC250
Special solid lubricant (embedded)

Catalog No.			D1J55		h	h1	L1	Base unit price 1～9 pieces
Type	D		GBZE					GBZE
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	Quotation
	60	+0.061 +0.043	80		20		90	
	80	+0.063 +0.043	100	±0.0075	25		120	



Order

Catalog No.
GBZE 50



Price

Quotation



Days to Ship

Quotation

SPACERS FOR GUIDE POST SETS

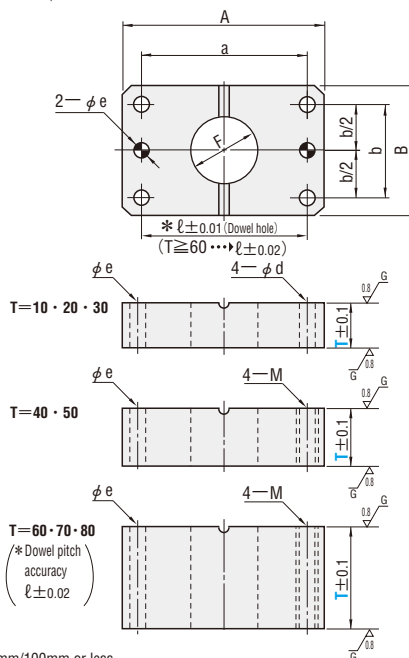
—CAST TYPE—

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

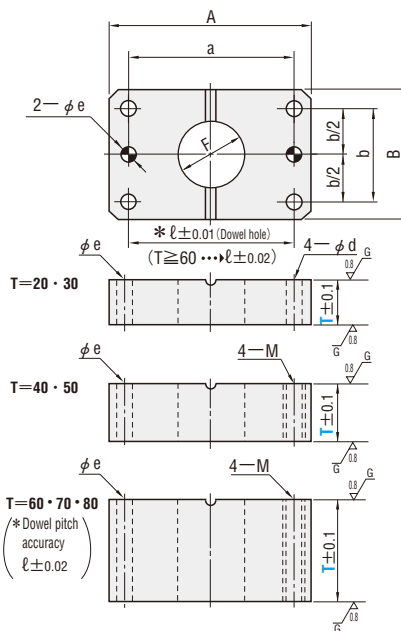
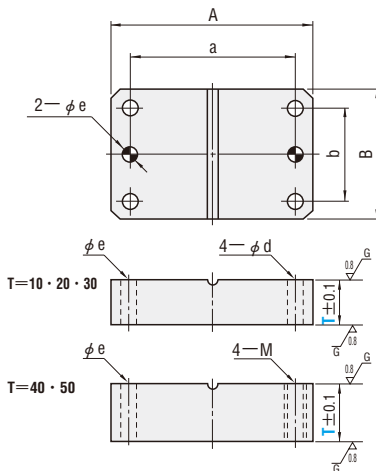
RoHS

Spacers for guide holders

MGHPS (With dowel holes)

Post diameters: 20·25·32

Post diameters: 38·50



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 $\ell \pm 0.01$ (* T60-70-80, $\ell \pm 0.02$)	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.		Post diameter	T
Type			
For plain type bushings	MGBPS	20	10 20 30 40
		25	10 20 30 40 50
For ball type bushings	MABPS	32	10 20 30 40 50
		38	20 30 40 50 60 70 80
For holders	MGHPS	50	20 30 40 50 60 70 80



Order

Catalog No. — T
MGBPS 20 — 30



Days to Ship

Quotation

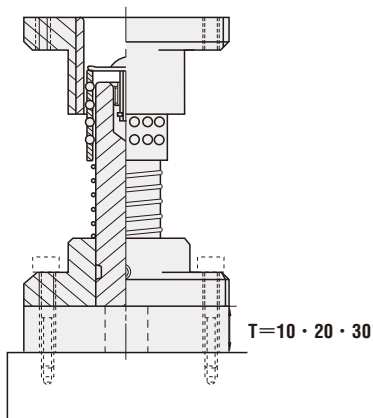
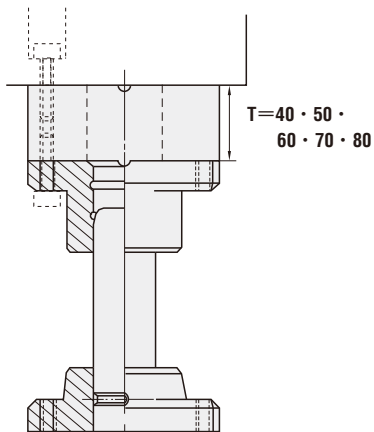


Price

Quotation



Example



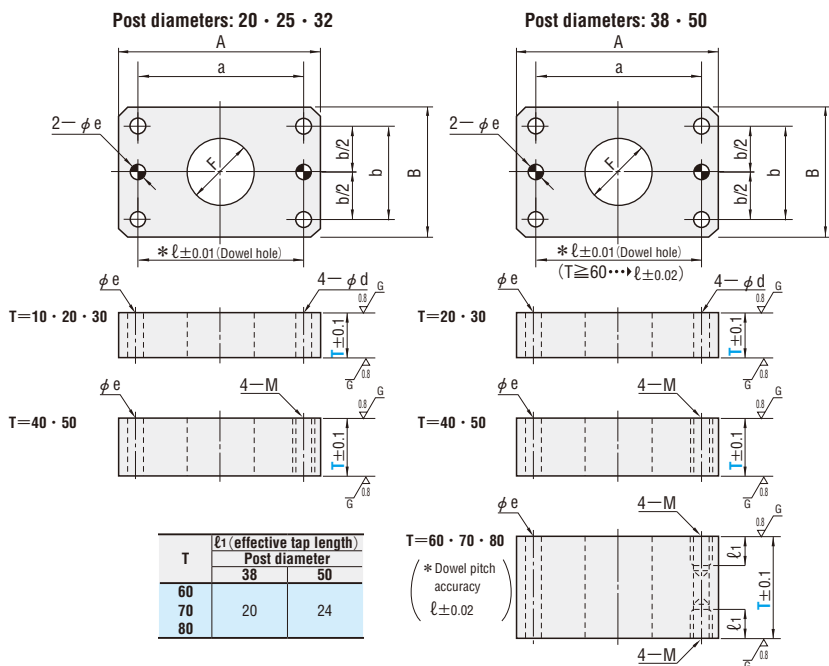
SPACERS FOR GUIDE POST SETS

—STEEL TYPE—

RoHS

Spacers for guide bushings

MGSPS (With dowel holes)



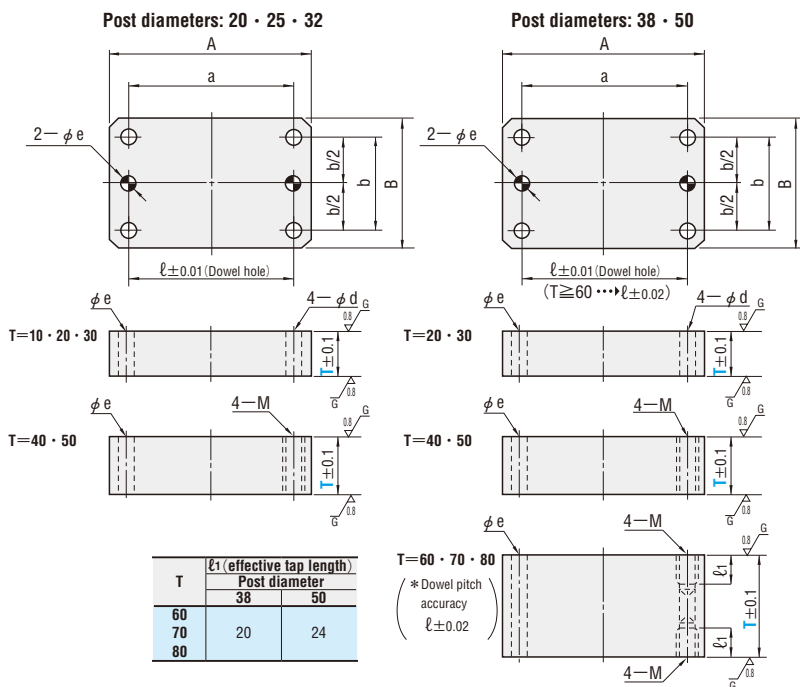
Flatness of plate thickness: 0.02mm/100mm or less

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	*For $\ell \pm 0.01$ (* T60・70・80) ($\ell \pm 0.02$)	eH7		T
							MGSPS				
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 50
32	100	58	76	36	11	10	42	76	8		10 20 30 40 50
38	130	75	100	44	11	10	52	100	10		20 30 40 50 60 70 80
50	155	90	125	60	14	12	62	125	10		20 30 40 50 60 70 80

Catalog No.		T
Type	Post diameter	
For bushings MGSPS	20	10 20 30 40
	25	10 20 30 40 50
	32	10 20 30 40 50
For holders MGLPS	38	20 30 40 50 60 70 80
	50	20 30 40 50 60 70 80



Order

Catalog No. — T
MGSPS 20 — 30



Days to Ship

Quotation

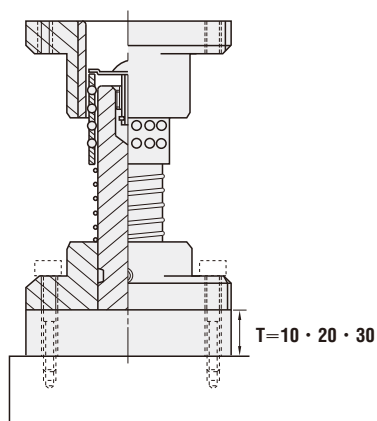
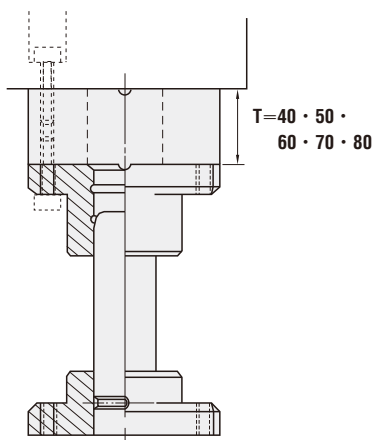


Price

Quotation



Example

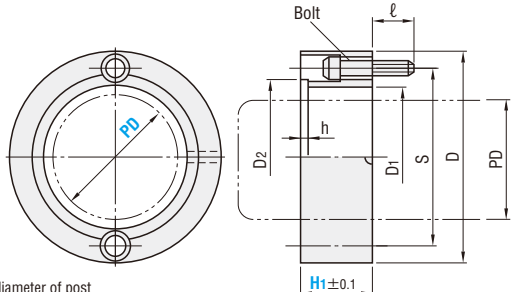


STROKE END BLOCKS



RoHS

① **CEB** (End block)



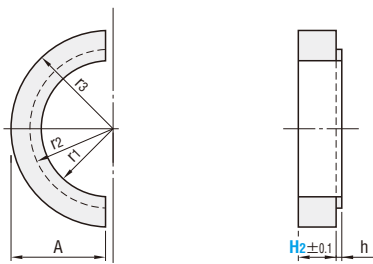
PD: Outside diameter of post

M SS400
A 2 bolts



RoHS

② **CSB** (Stock block)



M SS400

PD	D	D ₁	D ₂	S	h	r ₁	r ₂	r ₃	A	Bolt	ℓ
25	46	31.5	36	37	2	15.75	18	23	22	M4×P0.7	10
32	56	41	45	45	2	20.5	22.5	28	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

End blocks

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

Stock blocks

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

Quotation

The guide post sets must be machined so that the blocks can be attached. P.812.

Order

Catalog No. — ① — ②

Type PD H₁ Color (R·Y) H₂ Color (R·Y)

EBS 38 — 40 R — 40 — Y

Days to Ship

Quotation

Price

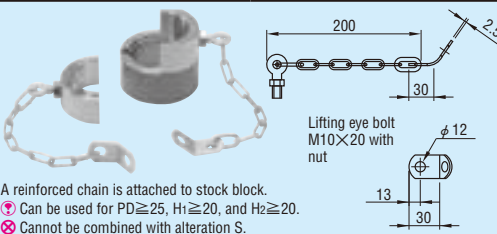
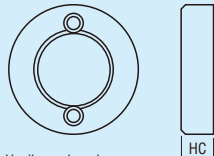
Quotation

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	
Code	S		RS		HC	
Spec.	 End block and stock block are connected by a chain.		 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.		 H₁ dimension change H₁ min. < HC < H₁ max. 1mm increments Ⓧ Cannot be used for CSB.	
1Code	PD No.	EBW	EBS	EBW	CSB·EBS	CEB·EBS·EBW
	25					
	32					
	38					
	50					
	60					
	80					

Quotation

Quotation

For chain RSC of alteration RS, P.838.

STROKE END BLOCKS

— FLAT TYPE —

RoHS

① **CEBY** (End block for plain guide post)
 ② **CEBA** (End block for ball guide post)

PD: Outside diameter of post

M SS400
A 2 bolts

RoHS

③ **CSBY** (Stock block for plain guide posts)
 ④ **CSBA** (Stock block for ball guide posts)

M SS400

PD	D	①CEBY D ₁	②CEBA D ₁	③CSBY r ₁	④CSBA 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 1~9 pieces
Type	PD	5mm increments	
① CEBY	25	10 ~ 30	Quotation
		35 ~ 50	
	32	10 ~ 30	
		35 ~ 50	
② CEBA	38	15 ~ 30	
		35 ~ 50	
	50	20 ~ 30	
		35 ~ 50	
	60	20 ~ 30	
	80	20 ~ 30	
		35 ~ 50	

■ Stock blocks

Catalog No.	H ₂	Color	Base unit price 1~9 pieces
Type	PD	5mm increments	
③ CSBY	25	10 ~ 20	Quotation
		25 ~ 40	
	32	10 ~ 20	
		25 ~ 40	
④ CSBA	38	10 ~ 20	
		25 ~ 50	
	50	10 ~ 20	
		25 ~ 50	
	60	10 ~ 20	
	80	10 ~ 20	
		25 ~ 50	



Order

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



Days to Ship

Quotation

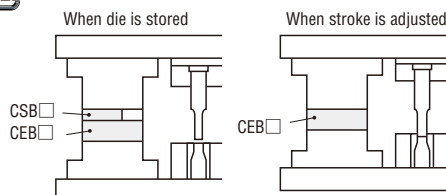


Price

Quotation



Example



Catalog No.		①・② (End block)		③・④ (Stock block)		Base unit price	
Type	PD	H1 5mm increments	Color	H2 5mm increments	Color	1～9 sets	
EBYS (①CEBY+③CSBY) Set product	25	10 ～ 30	R (Red)	10 ～ 20	R (Red)		
		32		35 ～ 50		25 ～ 40	
				10 ～ 30		10 ～ 20	
				35 ～ 50		25 ～ 40	
	38			15 ～ 30		10 ～ 20	
		35 ～ 50		25 ～ 40			
		50		20 ～ 30		10 ～ 20	
				35 ～ 50		25 ～ 50	
	60			20 ～ 30		10 ～ 20	
				35 ～ 50		25 ～ 50	
		80		20 ～ 30		10 ～ 20	
				35 ～ 50		25 ～ 50	
Quotation							

① The guide post sets must be machined so that the blocks can be attached. **P.812.**



Order

Catalog No.	—	①・②	—	③・④
Type	PD	H ₁	Color (R・Y)	H ₂ Color (R・Y)
EBYS	38	— 40	R	— 40 Y



Days to Ship

Quotation



Alterations

Catalog No.	—	①・②	—	③・④	—	(S・RS・HC・NMC)
EBYS38	—	40R	—	40Y	—	S—HC38
CSBY50	—		—	35Y	—	RS
CEBA60	—		—	40Y	—	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.	End block and stock block are connected by a chain.	Lifting eye bolts M10×20 with nut A reinforced chain is attached to stock block. ① Can be used for PD≥25, H₁≥20, and H₂≥20. ② Cannot be combined with alteration S.	H₁ dimension change H₁ min. < HC < H₁ max. 1mm increments ③ Cannot be used for CSBY and CSBA.	Addition of a groove for height adjustment ④ Cannot be used for CSBY and CSBA.
1Code	PD No. 25 32 38 50 60 80	EBYS・EBAS	CSBY・CSBA・EBYS・EBAS	CEBY・CEBA・EBYS・EBAS
				CEBY・CEBA

Quotation

Chains for end blocks

	RoHS RSC
200 2.5 30 30 25 13 φ12	① SS400 Bright chromate plating ② SPCC ③ SS400 (Lifting eye bolt M10×20) with nut

Catalog No.		Base unit price
Type	T	1~9 pieces
RSC	3	Quotation
	5	

① This product, RSC3, is a chain for alteration RS.



Order

Catalog No.

RSC 3



Days to Ship

Quotation



Price

Quotation

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

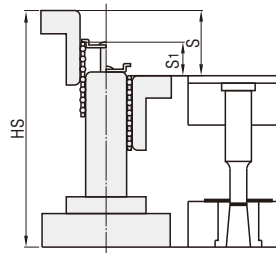
[DATA] Relationship between the BDC height of MYA, MYAP, MYJ and MYJP, and the post length

■ 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 Dmm lower than HS)

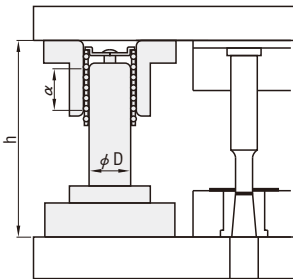


Figure B Limit position when the punch holder has no relief hole. In addition to 5mm for the stopper thickness, this position also includes 10mm as an allowance for regrinding and for safety purposes.

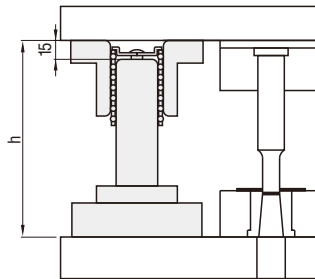


Figure C Position providing the maximum contact length between post/bushing and ball cage (Recommended height)

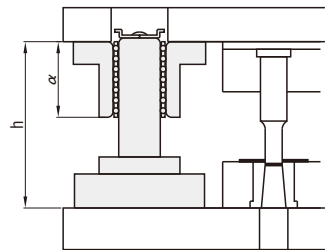


Figure D Lower limit of ball cage movement range M = Solid height of spring
5mm = Allowance for regrinding and safety purposes
(When post length is short)

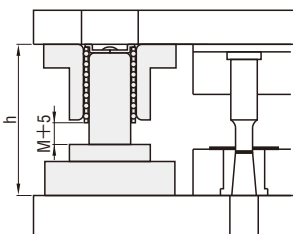


Figure E Lower limit of bushing movement range
10mm = Allowance for regrinding and safety purpose

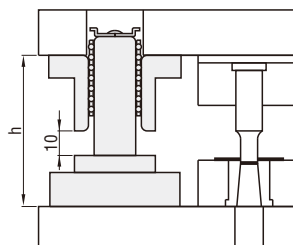
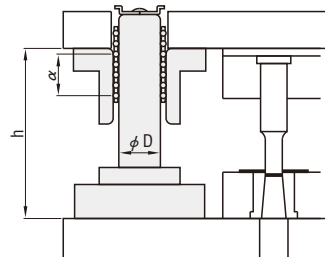


Figure F Lower limit position for minimum contact length required in order for post/bushing to function $\alpha \geq D$ (When post length is long)



■ 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

Die height h		80	100	120	140	160	180	200	220	240			
Post size													
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

Die height h		100	120	140	160	180	200	220	240	260	280	300		
Post size	110		D	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

Die height h		120	140	160	180	200	220	240	260	280	300	320	340
Post size	130		D	B	A								
	140		D	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

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

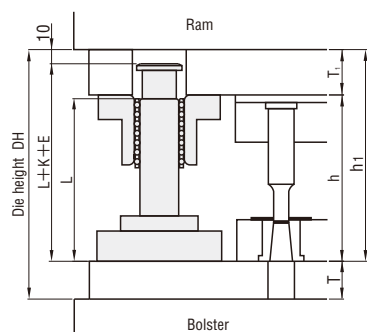
♥ Use these values only as an approximate guide. They may vary depending on the ball pitch of the ball cage and other factors.

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.867)

● How to determine T_1

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

(10mm=Regrinding+Safety)

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

$$T_1 \geq 250 - 190$$

$$\therefore T_1 \geq 60 \quad T_1 \text{ must be 60mm or longer.}$$

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

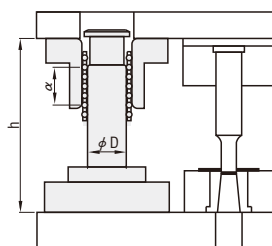


Figure C Position providing the maximum contact length between post/bushing and ball cage
(Recommended height)

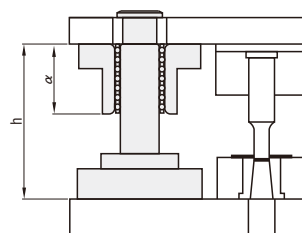


Figure D Lower limit of ball cage movement range
M=Solid height of spring
5mm=Allowance for regrinding and safety purpose
(When post length is short)

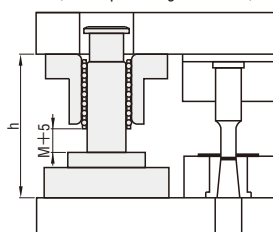


Figure E Lower limit of bushing movement range
10mm=Allowance for regrinding and safety purpose

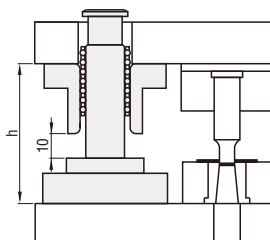
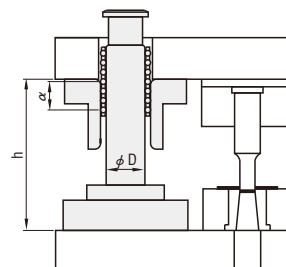


Figure F Lower limit position for minimum contact length required in order for post/bushing to function $\alpha \geq D$



■ **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.

