
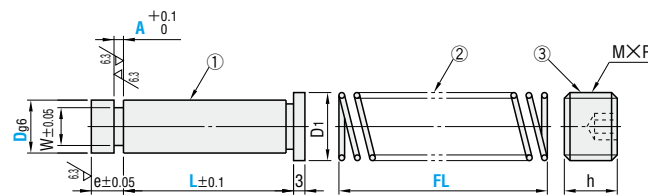


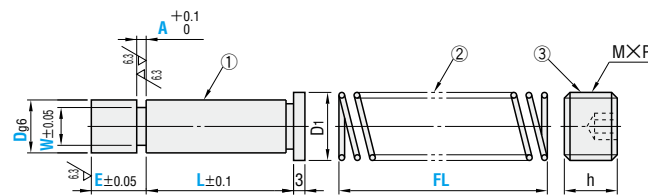
GUIDE LIFTER SETS

RoHS



Type	Catalog No.	Components		
Standard Configurable L-A dimensions	GLS GLSH	① Pin	② Spring	③ Screw
Standard Configurable L-A dimensions	GLP	○	○	○
Standard Configurable L-A dimensions	GLH	○	○	○





SK4
53~58HRC (Annealing of head to max. 45HRC)

Standard type

① GLP		③ MSW		Catalog No.		L				A		② Spring		Base unit price 1~19 pieces																												
D _{g6}	e	W	D ₁	M×P	h	Type	D					Type	FL	GLS	GLP																											
4	-0.004 -0.012	5	2.0	6	8×1.25	GLS	4	10	15	20	22	25	28	30	33	35	36	40	45	50	0.5	0.8	1.0	WR	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Quotation
6		3.6	8	10×1.5	6		10	15	20	22	25	28	30	33	35	36	40	45	50	55																						
8	-0.005 -0.014	7	5.0	10	12×1.5	GLP	8	10	15	20	22	25	28	30	33	35	36	40	45	50	55	60	1.6	2.0	2.5	WL	40	45	50	55	60	65	70	75	80	85	90	95	100	Quotation		
10			6.0	13	16×1.5		10	20	22	25	28	30	33	35	36	40	45	50	55	60	65	70	2.0	2.5	3.6	WM	50	55	60	65	70	75	80	85	90	95	100					
13	-0.006 -0.017	12	7.0	16	20×1.5	GLP	13	20	22	25	28	30	33	35	36	40	45	50	55	60	65	70	75	80	85	90	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	Quotation
16			8.0	19	22×1.5		16	30	33	35	36	40	45	50	55	60	70	2.0	2.5	4.0	WH	60	65	70	75	80	85	90	95	100	100	100	100	100	100	100	100	100	100	100		
20	-0.007 -0.020	12	10.0	23	27×1.5	GLP	20	33	35	36	40	45	50	55	60	70	3.6	5.0	WL-WT	70	75	80	85	90	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	Quotation	
25			13.0	28	33×1.5		25	33	35	36	40	45	50	55	60	70	3.6	5.0	WM-WH	80	85	90	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		

Ⓜ Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.

Configurable L-A dimension type

① GLH		③ MSW		Catalog No.		0.1mm increments				② Spring		Base unit price 1~19 pieces				
D _{g6}	e	W	D ₁	M×P	h	Type	D	L				Type	FL	GLSH	GLH	
4	-0.004 -0.012	5	2.0	6	8×1.25	GLSH	4	10.0	~	55.0	0.5	~	2.0	WR	20	Quotation
6			3.6	8	10×1.5		6	10.0	~	75.0	0.5	~	3.0	WF	30	
8	-0.005 -0.014	7	5.0	10	12×1.5	GLH	8	10.0	~	75.0	0.7	~	4.5	WL	40	Quotation
10			6.0	13	16×1.5		10	10.0	~	90.0	0.7	~	4.5	WT	50	
13	-0.006 -0.017	12	7.0	16	20×1.5	GLH	13	10.0	~	90.0	1.0	~	6.0	WM	55	Quotation
16			8.0	19	22×1.5		16	10.0	~	100.0	1.0	~	6.0	WH	60	
20	-0.007 -0.020	12	10.0	23	27×1.5	GLH	20	15.0	~	100.0	1.0	~	6.0	WL	70	Quotation
25			13.0	28	33×1.5		25	15.0	~	100.0	1.0	~	6.0	WT	80	

Ⓜ Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.

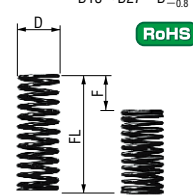
Configurable L-A-E-W dimension type

① GLK		③ MSW		Catalog No.		0.1mm increments				② Spring		Base unit price 1~19 pieces								
D _{g6}	D ₁	M×P	h	Type	D	L	A	E	W	Type	FL	GLSK	GLK							
4	-0.004 -0.012	6	8×1.25	GLSK	4	15.0	~	45.0	0.5	~	2.0	5.0	~	10.0	1.5	~	2.2	WR	20	Quotation
6			8		10×1.5	6	15.0	~	72.0	0.5	~	3.0	5.0	~	10.0	2.5	~	4.6	WF	
8	-0.005 -0.014	10	12×1.5	GLK	8	15.0	~	72.0	0.7	~	4.5	5.0	~	10.0	3.5	~	6.0	WL	40	Quotation
10			13		16×1.5	10	15.0	~	82.0	0.7	~	4.5	5.0	~	15.0	5.0	~	8.0	WT	
13	-0.006 -0.017	12	20×1.5	GLK	13	20.0	~	82.0	1.0	~	6.0	5.0	~	15.0	6.0	~	11.0	WM	55	Quotation
16			19		22×1.5	16	20.0	~	82.0	1.0	~	6.0	10.0	~	20.0	6.0	~	14.0	WH	
20	-0.007 -0.020	12	27×1.5	GLK	20	20.0	~	82.0	1.0	~	6.0	10.0	~	20.0	10.0	~	18.0	WL	70	Quotation
25			28		33×1.5	25	20.0	~	82.0	1.0	~	6.0	10.0	~	20.0	13.0	~	22.0	WT	

Ⓜ Springs ② are unavailable in certain types and sizes. Check the "Combinations of guide lifter pin and spring" table on the page at right.

Coil springs For detailed specifications, refer to P.1399~.

RoHS



① Pin		② Spring						
Catalog No.	Type	D	WR	WF	WL	WT	WM	WH
GLS GLSH GLSK	4	6	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm
	6	8	0.3	0.5	1.0	2.0	2.9	5.9
	8	10	(kgf/mm)	(kgf/mm)	(kgf/mm)	(kgf/mm)	(kgf/mm)	(kgf/mm)
	10	13	(0.03)	(0.05)	(0.1)	(0.2)	(0.3)	(0.6)
	13	16						(1.0)
	16	18	0.5(0.05)	1.0(0.1)	2.9	3.9	4.9	14.7
20	22			2.9	3.9	4.9	14.7	
25	27			2.9	3.9	4.9	14.7	

Maximum allowable deflection Fmax. F=L×60% F=L×45% F=L×40% F=L×40% F=L×35% F=L×30%

● Load calculation method Load N (kgf)=Spring constant N/mm (kgf/mm)×Deflection Fmm ● Tolerance for spring constant: ±10%

Combinations of guide lifter pins and springs (○ indicates an available set.)

FL	Type-D	GLS4-GLSH4-GLSK4				GLS6-GLSH6-GLSK6				GLS8-GLSH8-GLSK8				GLS10-GLSH10-GLSK10											
		WR6	WF6	WL6	WT6	WM6	WH6	WR8	WF8	WL8	WT8	WM8	WH8	WR10	WF10	WL10	WT10	WM10	WH10	WR13	WF13	WL13	WT13	WM13	WH13
20~40 (5mm increments)	45	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	50	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	55	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	60	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	65	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	70	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	80	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	90	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

FL	Type-D	GLS13-GLSH13-GLSK13				GLS16-GLSH16-GLSK16				GLS20-GLSH20-GLSK20				GLSH25-GLSK25											
		WR16	WF16	WL16	WT16	WM16	WH16	WR18	WF18	WL18	WT18	WM18	WH18	WR22	WF22	WL22	WT22	WM22	WH22	WR27	WF27	WL27	WT27	WM27	WH27
20	25	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
30~70 (5mm increments)	80	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	90	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

* ...Maximum allowable deflection Fmax. is smaller than the above spring constant. For details P.1399~.

Order Catalog No. - L - A - E - W - ② (Type-FL)

GLS 8 - 30 - 2.0 - WH40

GLP 6 - 25 - 1.6 - WL35

GLSH 6 - 25.0 - 2.4 - WL35

GLH 13 - 60.0 - 3.0 - WM60

GLSK16 - 50.0 - 1.2 - E15.0 - W12.0 - WM60

GLK20 - 45.5 - 1.5 - E18.0 - W14.0

Days to Ship Quotation

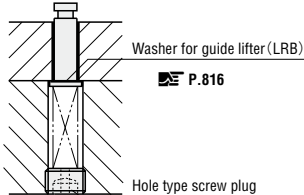
Price Quotation

Alterations Catalog No. - L - A - E - W - ② - (KRC, etc.)

GLSH 8 - 30 - 2.0 - WH40 - KRC - GC

GLSK 10 - 35 - 0.8 - E10 - W7.0 - WT45 - KRC - WA





Example



Washer for guide lifter (LRB) P.816

Hole type screw plug (MSWH, others) P.820

Ⓜ Air and oil escape.

Alteration	Code	Spec.	1Code										
	KRC	Chamfering of head upper and lower surfaces to R indicated at right Ⓜ Can be used for GLSH-GLSK-GLK. <table border="1"> <tr><th>D</th><th>R</th></tr> <tr><td>4-6</td><td>0.3</td></tr> <tr><td>8-13</td><td>0.5</td></tr> <tr><td>16-20</td><td>1.0</td></tr> <tr><td>25</td><td>1.5</td></tr> </table>	D	R	4-6	0.3	8-13	0.5	16-20	1.0	25	1.5	Quotation
D	R												
4-6	0.3												
8-13	0.5												
16-20	1.0												
25	1.5												
	GC	Head taper (15°) machining Ⓜ Can be used for GLSH-GLH-GLSK-GLK.											
	WA	Change of provided screw plug to MSWA (through hole type) Ⓜ Can be used for GLSH-GLSK. For detailed dimensions P.819											
	WZH	Change of provided screw plug to MSWZH (washer face type) Ⓜ Can be used for GLSH-GLSK. Can be used for D6~25. MSW MSWZH D6~10 h=10→h=12 D13~25 h=12→h=15 For detailed dimensions P.819											