

# Holders

## Side Mount Flange / Bar Type

Feature: Various surface hardness types are available.

Holders – Side Mount Flange Type

Flange Type		Bar Type		Material	Surface Treatment	Hardness
T Fixed	T Configurable	Height h Fixed	Height h Configurable			
HLRA	HLRAF	HLRB	HLRBH	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.
HLRASW	—	HLRBSW	—	304 Stainless Steel or Equivalent	Nitriding Treatment	1,000 HV min.
HLRASS	—	—	—		—	—
HLRAC	—	—	—		Hard Chrome Plating	700 HV min.

Flanged Type

Bar Type

ⓘ Salt-bath Nitriding may cause uneven color, which doesn't affect mechanical function.

ⓘ For details of Salt-bath Nitriding, refer to P.4029

ⓘ \*Holes for HLRAF are straight holes, not counterbored.

### Flange Type

Part Number	Type	T		B	D <sub>1</sub>	A	T <sub>1</sub>		h	W	H	a	P	d	d <sub>1</sub>	H <sub>1</sub>	Available Types				
		T Fixed	T Configurable				T Fixed	T Configurable									HLRA	HLRASW	HLRASS	HLRAC	HLRAF
T Fixed HLRA HLRASW HLRASS HLRAC	4	—	—	6	4.5	9	8	—	4	30	10	4	20	4.5	8	4.4	•	•	•	•	•
	6	4	3-6	8	6.5	12	8	—	4	34	13	5	24	5.5	9.5	5.4	•	•	•	•	•
	7	—	3-8	10	8	14	—	—	4	36	15	6	26	6.6	11	6.5	•	•	•	•	•
	8	6	3-10	12	9	17	10	—	4	42	18	7	30	7.7	12.7	7.6	•	•	•	•	•
	10	—	3-12	14	11	19	11	—	4	44	20	8	32	8.8	13.8	8.7	•	•	•	•	•
	13	8	4-12	17	14	23	13	—	4	52	24	10	38	10.0	15.0	10.0	•	•	•	•	•
T Configurable HLRAF	16	—	5-15	21	18	28	—	5	56	30	12	42	11.1	16.1	11.1	•	•	•	•	•	
	18	12	—	23	20	31	—	5	66	34	14	48	12.2	17.2	12.2	•	•	•	•	•	
	21	—	6-15	26	23	34	17	—	7	70	36	15	52	13.3	18.3	13.3	•	•	•	•	•
	25	15	8-20	30	27	38	21	—	6	84	43	19	62	14.4	19.4	14.4	•	•	•	•	•
	27	20	12-20	32	29	40	27	—	7	—	—	—	—	—	—	—	•	•	•	•	•

### Bar Type

Part Number	Type	D	h		B	D <sub>1</sub>	T	Tolerance	W	H*	a	ℓ	P	d
			Height Fixed	Height Configurable 1 mm Increment										
Height h Fixed HLRB HLRBSW	4	—	6-20	6	4.5	—	—	—	16	24	4	—	8	4.5
	6	14	5-19	8	6.5	—	0	—	19	26	6	—	10	—
	7	—	7-18	10	8	—	-0.12	—	22	33	7	—	12	—
	8	18	7-25	12	9	—	—	—	25	34	8	—	14	5.5
Height h Configurable HLRBH	10	—	9-24	14	11	—	—	—	32	45	10	—	20	6.6
	13	25	12-30	17	14	—	0	—	38	47	12	—	26	—
	16	—	13-28	21	18	—	-0.15	—	47	56	14	—	34	9
	18	30	19-34	23	20	—	0	—	56	74	19	—	44	11
	21	—	18-33	26	23	—	-0.18	—	57	74	19	—	44	11
25	40	21-46	30	27	—	0	-0.22	65	74	19	15	44	11	

\*For height h configurable type, H=a+h+ℓ.

Part Number Example: HLRA8 - T - h

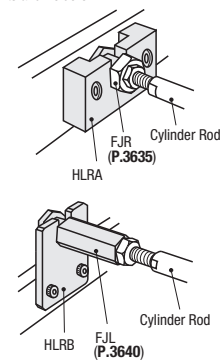
HLRA8 - 3 - 14

Part Number Alterations: HLRA8 - (HC)

HLRA8 - HC30

Application Example: Usage examples of Compact Floating Joints and Holders

Alteration Code	Height HC																																	
ⓘ Available for HLRA only.	HC																																	
ⓘ The range of HC is shown as below.	HC																																	
Spec.	<table border="1"> <thead> <tr> <th> D</th> <th> HC 1 mm Increment</th> <th> a</th> </tr> </thead> <tbody> <tr><td> 4</td><td> 12-20</td><td> —</td></tr> <tr><td> 6</td><td> 16-25</td><td> —</td></tr> <tr><td> 7</td><td> 18-30</td><td> —</td></tr> <tr><td> 8</td><td> 22-30</td><td> —</td></tr> <tr><td> 10</td><td> 24-35</td><td> H/2</td></tr> <tr><td> 13</td><td> 28-40</td><td> —</td></tr> <tr><td> 16</td><td> 36-45</td><td> —</td></tr> <tr><td> 18</td><td> 40-50</td><td> —</td></tr> <tr><td> 21</td><td> 42-50</td><td> —</td></tr> <tr><td> 25</td><td> 48-60</td><td> —</td></tr> </tbody> </table>	D	HC 1 mm Increment	a	4	12-20	—	6	16-25	—	7	18-30	—	8	22-30	—	10	24-35	H/2	13	28-40	—	16	36-45	—	18	40-50	—	21	42-50	—	25	48-60	—
D	HC 1 mm Increment	a																																
4	12-20	—																																
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18	40-50	—																																
21	42-50	—																																
25	48-60	—																																
ⓘ Not applicable to D27	—																																	



# Holders

## Top / Bottom Mount Flanged / Bar Type

Holders – Top / Bottom Mount Flange Type

Type	Flanged Type		Bar Type		Material	Surface Treatment	Surface Hardness
	Height h Fixed	Height h Configurable	Height h Fixed	Height h Configurable			
Top Mount	HLRC	HLRCH	HLRD	HLRDH	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.
Bottom Mount	HLRCB	HLRCBH	—	HLRDBH			

Flanged Type

Bar Type

ⓘ For details of Salt-bath Nitriding, refer to P.4029

ⓘ Salt-bath Nitriding treatment may cause uneven color, which doesn't affect mechanical function.

### Flanged Type

Part Number	Type	D	h		H	B	D <sub>1</sub>	A	T	T <sub>1</sub>	W	P	d	d <sub>1</sub>	H <sub>1</sub>	M
			HLRC / HLRCB	HLRCH / HLRCBH												
Top Mount Height h Fixed Type	4	6	7-16	h+4	6	4.5	9	4	8	30	20	3.5	6.5	3.5	3	
	6	8	9-20	h+5	8	6.5	12	4	10	34	24	4.5	8	4.5	4	
	7	9	10-24	h+6	10	8	14	—	10	36	26	5.5	9.5	5.5	5	
	8	11	12-23	h+7	12	9	17	—	6	42	30	6.6	11	6.5	6	
	10	12	13-27	h+8	14	11	19	—	8	44	32	7.7	12.7	7.6	7	
	13	14	15-30	h+10	17	14	23	—	12	52	38	8.8	13.8	8.7	8	
Bottom Mount Height h Fixed Type	16	18	19-33	h+12	21	18	28	—	13	56	42	9.9	14.9	9.8	9	
	18	20	21-36	h+14	23	20	31	—	17	66	48	11.0	16.0	10.9	10	
	21	21	22-35	h+15	26	23	34	—	17	70	52	12.1	17.1	12.0	11	
	25	24	23-41	h+19	30	27	38	—	15	84	62	13.2	18.2	13.1	12	
	27	—	—	h+19	32	29	40	—	20	84	62	14.3	19.3	14.2	13	
	27	—	—	h+19	32	29	40	—	20	84	62	15.4	20.4	15.3	14	

ⓘ D27 is available for HLRC and HLRCH only.

### Bar Type

Part Number	Type	D	h		H	B	D <sub>1</sub>	T	Tolerance	W	P	d	d <sub>1</sub>	H <sub>1</sub>	M
			HLRD	HLRCH / HLRCBH											
Top Mount Height h Fixed Type	7	9	10-24	h+6	10	8	8	0	36	26	4.5	—	—	—	4
	8	11	12-23	h+7	12	9	10	-0.15	42	30	5.5	—	—	—	5
	10	12	13-27	h+8	14	11	12	0	44	32	6.6	—	—	—	6
	13	14	15-30	h+10	17	14	13	-0.18	52	38	7.7	—	—	—	7
	16	18	19-33	h+12	21	18	15	—	56	42	8.8	—	—	—	8
	18	20	21-36	h+14	23	20	16	—	66	48	9.9	—	—	—	9
Bottom Mount Height h Config. Type	21	21	22-35	h+15	26	23	19	0	70	52	11.0	—	—	—	10
	25	24	23-41	h+19	30	27	20	-0.22	84	62	12.1	—	—	—	11
	25	—	—	h+19	30	27	20	—	84	62	13.2	—	—	—	12

ⓘ Bar Type D7 and D8 don't have counterbore holes.

Part Number Example: HLRA13 - Height h Fixed

HLRA13 - 13 - 30

