

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

RoHS10

ⓘ 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 ₁	A	T ₁		h	W	H	a	P	d	d ₁	H ₁	Available Types				
		T Fixed	T Configurable				T Fixed	T Config.									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	9	14	10.5	•	•	•	•	•
	10	—	3-12	14	11	19	11	—	4	44	20	8	32	11	17	11.5	•	•	•	•	•
	13	8	4-12	17	14	23	13	—	4	52	24	10	38	13	20	13.5	•	•	•	•	•
T Configurable HLRAF	16	—	5-15	21	18	28	—	4	56	30	12	42	15	23	15.5	—	•	•	•	•	•
	18	12	—	23	20	31	17	—	4	66	34	14	48	17	25	—	•	•	•	•	•
	21	—	6-15	26	23	34	—	4	70	36	15	52	19	27	19.5	—	•	•	•	•	•
	25	15	8-20	30	27	38	21	—	4	84	43	19	62	21	30	—	•	•	•	•	•
	27	20	12-20	32	29	40	27	—	4	—	—	—	—	—	—	—	•	•	•	•	•

Bar Type

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

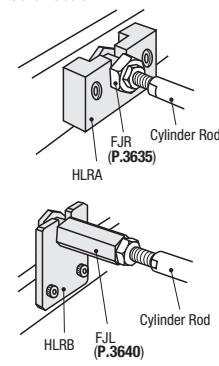
*For height h configurable type, H=a+h+ℓ.

Part Number Example: **HLRA8** - **3** - **14**
 HLRAF6
 HLRBH10

Part Number Alterations: **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>—</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	—	13	28-40	—	16	36-45	—	18	40-50	—	21	42-50	—	25	48-60	—
D	HC 1 mm Increment	a																																
4	12-20	—																																
6	16-25	—																																
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13	28-40	—																																
16	36-45	—																																
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

RoHS10

ⓘ 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	h		H	B	D ₁	A	T	T ₁	W	P	d	d ₁	H ₁	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	—	10	34	24	4.5	8	4.5	4
	7	9	10-24	h+6	10	8	14	—	12	42	30	5.5	9.5	5.5	5
	8	11	12-23	h+7	12	9	17	—	12	44	32	6.6	11	6.5	6
	10	12	13-27	h+8	14	11	19	—	13	52	38	—	—	—	—
	13	14	15-30	h+10	17	14	23	—	13	56	42	6.6	11	6.5	6
Bottom Mount Height h Fixed Type	16	18	19-33	h+12	21	18	28	—	17	66	48	9	14	9	8
	18	20	21-36	h+14	23	20	31	—	17	70	52	—	—	—	—
	21	21	22-35	h+15	26	23	34	—	17	70	52	9	14	9	8
	25	24	23-41	h+19	30	27	38	15	21	84	62	11	17	11	10
	27	—	—	h+19	32	29	40	20	27	—	—	—	—	—	—

ⓘ D27 is available for HLRC and HLRCH only.

Bar Type

Part Number	Type	h		H	B	D ₁	T	Tolerance	W	P	d	d ₁	H ₁	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	9.5	5.5	5
	10	12	13-27	h+8	14	11	12	0	44	32	6.6	11	6.5	6
	13	14	15-30	h+10	17	14	13	-0.18	52	38	—	—	—	—
	16	18	19-33	h+12	21	18	15	—	56	42	—	—	—	—
	18	20	21-36	h+14	23	20	16	0	66	48	9	14	9	8
Bottom Mount Height h Config. Type	21	21	22-35	h+15	26	23	19	-0.22	70	52	—	—	—	—
	25	24	23-41	h+19	30	27	20	—	84	62	11	17	11	10

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

Part Number Example: **HLRD13** - **21**
 HLRD27
HLRDH16 - **21**
 HLRCH27 - **30**

