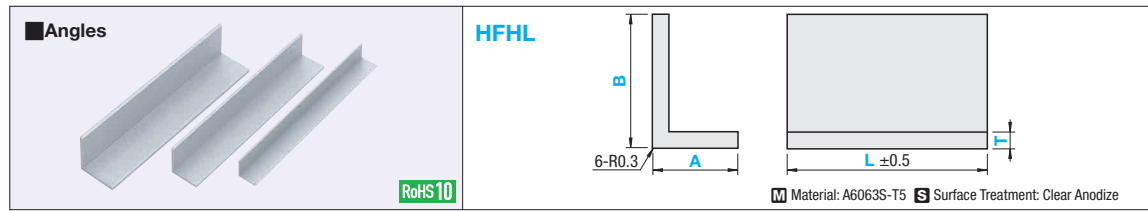


Aluminum Extrusions

Angles / Channels / Flat Bars / Square Tubing



Part Number Type	A	B	T	L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia		Unit Price (Less than 300mm)	Unit Price/m (300mm or More)
							$I_x \times 10^4$	$I_y \times 10^4$		
HFHL (Angles)	15	30	2	50-2000	0.232	86	0.14	0.807		
	20	20	2		0.206	76	0.288	0.288		
	20	40	2		0.301	111	0.403	0.403		
	25	25	3		0.315	116	0.348	1.964		
	25	50	3		0.464	171	0.489	2.82		
	30	30	3		0.381	141	0.819	0.819		
	30	50	3		0.583	216	0.993	5.661		
	40	40	3		0.315	116	1.019	1.019		
	40	50	3		0.464	171	1.458	1.458		
	50	50	3		0.745	275	2.21	2.21		
	60	60	5		0.412	156	2.47	2.47		
	75	75	6		0.626	231	3.58	3.58		
	100	100	6		1.016	375	5.56	5.56		
	150	150	6		0.785	291	7.15	7.15		
					1.553	575	19.9	19.9		
			2.333	864	46.88	46.88				
			3.143	1164	114.3	114.3				
			4.763	1764	397.5	397.5				

Ordering Example: Part Number - T - L
HFHL3030 - 3 - 800

Alterations: Part Number - T - L - N - (XA, ...YA, ...)
HFHL2040 - 2 - 90 - N8 - XA42-XB62-YA20-YB42

Through Hole

Adds through holes on the extrusion. N is a nominal diameter.

Face of Extrusion	N (Selection)
X	3 4 5 6 8
Y	

⊕ 5+N/2 is needed from an end.
 ⊕ Only 1 dia. is selectable for N.
 ⊕ When A=15, only N3, N4 and N5 are available.
 ⊕ One face has up to five holes.

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9

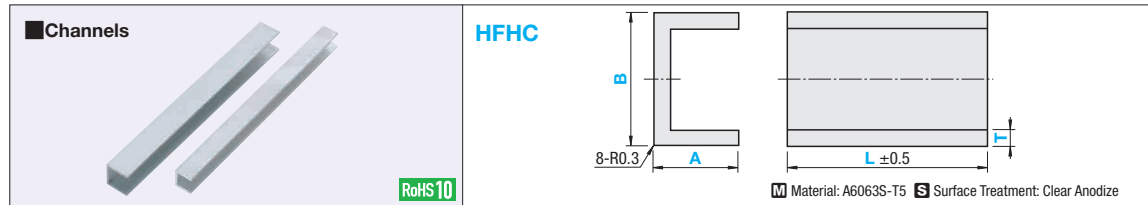
Ordering Code Specifications of Hole Size and Position (Ex.)

N (Select from the table)
 Extrusion Plane/Plane
 Hole machining on this plane (in the order of A, B and C)
 Distance from the End (1mm Increment)

Machining Planeing Plane

Plane Y: B/2, B/2
 Plane X: A/2, A/2

⊕ 90, ⊕ 6.5, ⊕ XA42, ⊕ XB62, ⊕ YA20, ⊕ YB42



Part Number Type	A	B	T	L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia		Unit Price (Less than 300mm)	Unit Price/m (300mm or More)
							$I_x \times 10^4$	$I_y \times 10^4$		
HFHC (Channels)	15	15	2	50-2000	0.222	82	0.1433	0.227		
	30	30			0.304	112	0.232	1.471		
	20	20			0.304	112	0.453	0.719		
	40	40			0.412	152	0.576	3.688		
	25	25			0.381	142	1.479	0.911		
50	50	0.761	282	1.640	10.42					

Ordering Example: Part Number - T - L
HFHC1515 - 2 - 800

Alterations: Part Number - T - L - N - (XA, ...YA, ...ZA, ...)
HFHC2040 - 2 - 90 - N8 - XA50-YA20-ZA20-ZB42

Through Hole

Adds through holes on the extrusion. N is a nominal diameter.

Face of Extrusion	N (Selection)
X	3 4 5 6 8
Y	
Z	

⊕ 5+N/2 is needed from an end.
 ⊕ Only 1 dia. is selectable for N.
 ⊕ When A and B dimensions are 15, only N3, 4 and 5 can be selected.
 ⊕ One face has up to five holes.

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9

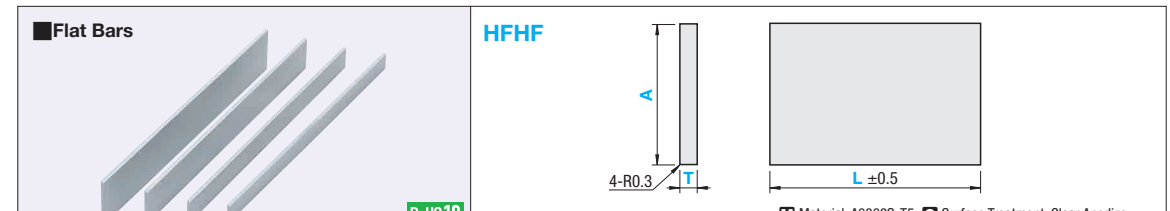
Ordering Code Specifications of Hole Size and Position (Ex.)

N (Select from the table.)
 Extrusion Plane/Plane
 Hole machining on this plane (in the order of A, B and C)
 Distance from the End (1mm Increment)

Machining Planeing Plane

Plane Z: Z/20, Z/42
 Plane Y: B/2, B/2
 Plane X: A/2, A/2

⊕ 90, ⊕ 6.5, ⊕ XA50, ⊕ YA20, ⊕ ZA20, ⊕ ZB42



Part Number Type	A	T	L 1mm Increment	Unit Price (Less than 300mm)			Unit Price/m (300mm or More)		
				2	3	5	2	3	5
HFHF (Flat Bars)	10	3	50-2000	-	-	-	-	-	-
	15	3		-	-	-	-	-	-
	20	3		-	-	-	-	-	-
	25	3		-	-	-	-	-	-
	30	3		-	-	-	-	-	-
	40	3		-	-	-	-	-	-
50	3	-	-	-	-	-	-	-	

A	Mass kg/m			Sectional Area mm ²			Cross Sectional Moment of Inertia $I_x \times 10^4$			Cross Sectional Moment of Inertia $I_y \times 10^4$		
	2	3	5	2	3	5	2	3	5	2	3	5
10	-	0.081	-	-	30	-	-	0.003	-	-	0.023	-
15	0.08	0.122	-	30	45	-	0.001	0.003	-	0.056	0.084	-
20	0.108	0.163	0.271	40	60	100	0.001	0.005	0.021	0.133	0.200	0.333
25	0.135	0.202	0.338	75	125	184	0.002	0.006	0.026	0.029	0.389	0.649
30	0.163	0.244	0.406	60	90	150	0.002	0.007	0.031	0.450	0.675	1.125
40	-	0.330	0.542	-	120	200	-	0.009	0.042	-	1.600	2.670
50	-	0.405	0.675	-	150	250	-	0.011	0.052	-	3.125	5.208

Alterations: Part Number - T - L - N - (YA, ...)
HFHF20 - 2 - 90 - N8 - YA20-YB55

Through Hole

Adds through holes on the extrusion. N is a nominal diameter.

Face of Extrusion	N (Selection)
Y	3 4 5 6 8

⊕ 5+N/2 is needed from an end.
 ⊕ Only 1 dia. is selectable for N.
 ⊕ When A=10, only N3, N4 and N5 are available.
 ⊕ One face has up to five holes.

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9

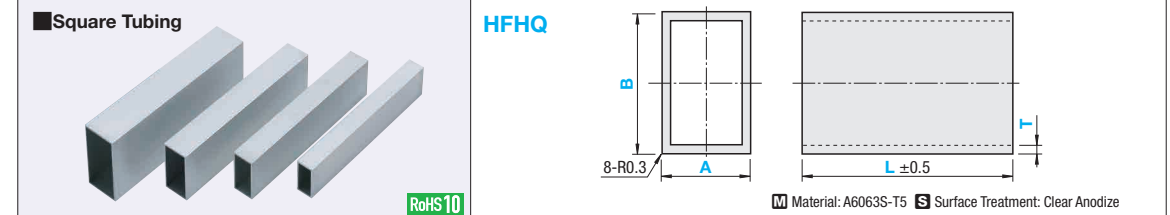
Ordering Code Specifications of Hole Size and Position (Ex.)

N (Select from the table.)
 Extrusion Plane/Plane
 Hole machining on this plane (in the order of A, B and C)
 Distance from the End (1mm Increment)

Machining Planeing Plane

Plane Y: B/2, B/2

⊕ 90, ⊕ 6.5, ⊕ N6, ⊕ YA20, ⊕ YB55



Part Number Type	A	B	T	L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia		Unit Price (Less than 300mm)	Unit Price/m (300mm or More)
							$I_x \times 10^4$	$I_y \times 10^4$		
HFHQ (Square Tubing)	15	15	1.5	50-2000	0.220	81	0.249	0.249		
	30	30			0.342	126	0.454	1.406		
	40	40			0.390	144	0.787	0.787		
	20	20	2		0.607	224	1.437	4.445		
	25	25			0.497	164	1.634	1.634		
	30	30			0.766	284	2.96	9.007		
	30	30	2		0.607	224	2.941	2.941		
	40	40			0.934	344	5.297	15.94		
	40	40			0.824	304	7.336	7.336		
	50	50	2		1.257	464	13.11	38.97		
	80	80			1.036	384	14.77	14.77		

Ordering Example: Part Number - T - L
HFHQ3030 - 2 - 500

Alterations: Part Number - T - L - N - (XA, ...YA, ...ZA, ...QA, ...)
HFHQ2040 - 2 - 90 - N8 - YA60-ZA20-QA45

Through Hole

Adds through holes on the extrusion. N is a nominal diameter.

Face of Extrusion	N (Selection)
X	3 4 5 6 8
Y	
Z	
Q	

⊕ 5+N/2 is needed from an end.
 ⊕ Only 1 dia. is selectable for N.
 ⊕ When A and B dimensions are 15, only N3, 4 and 5 can be selected.
 ⊕ One face has up to five holes.

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9

Ordering Code Specifications of Hole Size and Position (Ex.)

N (Select from the table.)
 Extrusion Plane/Plane
 Hole machining on this plane (in the order of A, B and C)
 Distance from the End (1mm Increment)

Machining Planeing Plane

Plane Z: Z/20, Z/42
 Plane Y: B/2, B/2
 Plane Q: Q/20, Q/42
 Plane X: A/2, A/2

⊕ 90, ⊕ 6.5, ⊕ N6, ⊕ YA60, ⊕ ZA20, ⊕ QA45