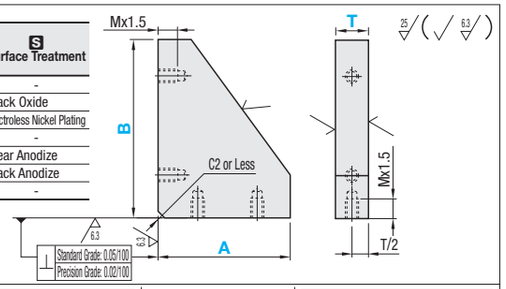
Gussets
Tapped, Hole Position Fixed

Features: Screw fastening type from the mating material to which the ribs are attached.

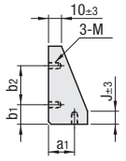
Type		M Material	S Surface Treatment
Standard Grade (Perpendicularity: 0.05/100)	Precision Grade (Perpendicularity: 0.02/100)		
RBBS	RGBS	EN 1.0038 Equiv.	-
RBBB	RGBB		Black Oxide
RBBM	RGBM		Electroless Nickel Plating
RBBA	RGBA	Aluminum Alloy 5000 series	-
RBBW	RGBW		Clear Anodize
RBBV	RGBV		Black Anodize
RBBF	RGBF	EN 1.4301 Equiv.	-

⊗Precision Grade is not specifiable for B200 or more.



■Details Listed in Dimensional Section

When A=20 or 30



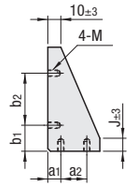
A	a1
20	12.5
30	20

B	b1	b2	J
30	10	*10	10
40	10	20	
50	15	20	
60	15	30	
80	15	50	
100	20	60	B-(A-10)

The manufacturing tolerance of * is $^{+8}_{-2}$. Other dimensions are general tolerance (JIS B 0405). ☞P.2286

T	M
6	3
9, 10	5
12	6

When A=40



A	a1	a2
40	*10	*20

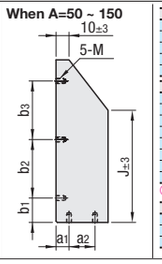
*When B=40, in order to prevent interference, (a1, a2) dimensions are (15, 15). When B=50 or 60 and T12, (a1, a2) dimensions are (15, 15) similarly.

B	b1	b2	b3	J
40	15	15	-	10
50	*12.5	*25	-	
60	15	30	-	
80	20	40	-	
100	20	60	-	
150	37.5	75	-	B-(A-10)
200	30	75	75	

*When B=50 and T=12, in order to prevent interference, (b1, b2) dimensions are (15, 20).
☞See the right table (A=50 ~ 150) when B=200.

T	M
9, 10	5
12	6
16	8

When A=50 ~ 150



A	a1	a2
50	12.5	25
60	15	30
80	20	40
100	25	50
150	37.5	75

B	b1	b2	b3	J
50	12.5	25	-	10
60	15	30	-	
80	20	40	-	
100	25	50	-	
150	37.5	75	-	
200	30	75	75	B-(A-10)
250	30	100	100	
300	30	120	120	

☞2 mounting holes for B150 or less.

T	M
9,10	5
12	6*
16	8

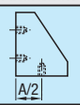
* M8 when B≥100.

Part Number Type	A	B Selection	T Selection: EN 1.0038 Equiv., EN 1.4301 Equiv.	T Selection: Aluminum Alloy 5000 series
Standard Grade (Perpendicularity: 0.05/100) (EN 1.0038 Equiv.) RBBS RBBB RBBM (Aluminum Alloy 5000 series) RBBA RBBW RBBV (EN 1.4301 Equiv.) RBBF	20	30 40 50 60 80	6	6
Precision Grade (Perpendicularity: 0.02/100) (EN 1.0038 Equiv.) RGBS RGBB RGBM (Aluminum Alloy 5000 series) RGBA RGBW RGBV (EN 1.4301 Equiv.) RGBF	30	30 40 50 60 80 100	6 12 / 9 12	6 12 / 10 12
	40	40 50 60 80 100 150 200	9 12 / 12 16	10 12 / 12 16
	50	50 60 80 100 150 200 250	9 12 / 12 16	10 12 / 12 16
	60	60 80 100 150 200 250 300	9 12 / 12 16	10 12 / 12 16
	80	80 100 150 200 250 300	9 12 16 / 12 16	10 12 16 / 12 16
	100	100 150 200 250 300	9 12 16 / 12 16	10 12 16 / 12 16
	150	150 200 250 300	12 16	12 16

⊗Precision Grade is not specifiable for B200 or more.

Ordering Example: Part Number - B - T
RBBS50 - 100 - 9

Alterations: Part Number - B - T - (NL)
RBBS80 - 100 - 12 - NL

Alteration	Code	Spec.
	NL	1 tapped hole at the center of side A. Ordering Code NL ⊗Not applicable when A=20 or 30.

Calculation Example of Unit Price RBBS50-100-9
A+B=A Dimension + B Dimension =50+100=150

Calculation Example of Precision Grade RGBS50-100-9

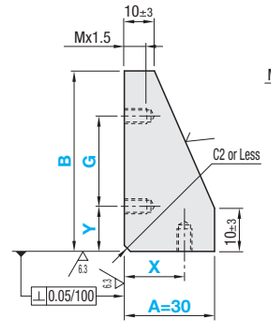
A+B	Standard Grade Tolerance Unit Price (Tolerance Precision Type: Price in the Table x1.1.) EN 1.0038 Equiv. RBBS T=6,9	RBBS T=12	RBBS T=16	RBBB T=6,9	RBBB T=12	RBBB T=16	RBBM T=6,9	RBBM T=12	RBBM T=16	Aluminum Alloy 5000 series RBBA T=6,10	RBBA T=12	RBBA T=16	RBBW RBBV T=6,10	RBBW RBBV T=12	RBBW RBBV T=16	EN 1.4301 Equiv. RBBF T=6,9	RBBF T=12	RBBF T=16
50		-			-			-			-			-			-	
60																		
70			-			-			-			-			-			-
80																		
90																		
100																		
110																		
120																		
130			-			-			-			-			-			-
140																		
150																		
160																		
180																		
190	-			-			-			-			-			-		
200																		
210	-			-			-			-			-			-		
230																		
240	-			-			-			-			-			-		
250																		
260																		
280	-			-			-			-			-			-		
300																		
310																		
330																		
350																		
360	-			-			-			-			-			-		
380																		
400																		
450																		

Gussets
Tapped, Hole Position Configurable

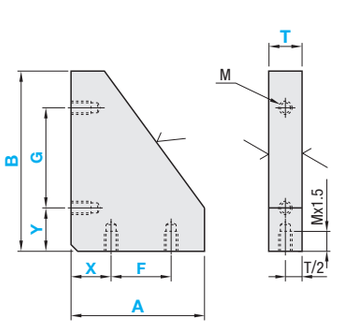
Features: When the mounting hole pitch does not match with the fixed dimension on the left-hand page, the following standard is available.

Type Standard Grade (Perpendicularity: 0.05/100)	M Material	S Surface Treatment
RBPBS	EN 1.0038 Equiv.	-
RBPBB		Black Oxide
RBPBM		Electroless Nickel Plating
RBPBA	Aluminum Alloy 5000 series	-
RBPBW		Clear Anodize

■When A=30



■When A=40 ~ 100

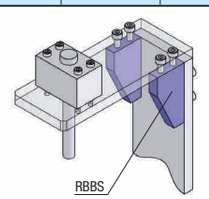


☞When A=30, side A has one mounting hole. ☞Depending on the specified dimension, pilot hole for tapping may go through to the reverse side.

Part Number Type	A	B Selection	1mm Increment Side A Hole Pitch X	1mm Increment Side A Hole Pitch F	1mm Increment Side B Hole Pitch Y	1mm Increment Side B Hole Pitch G	M (Coarse)	T Selection EN 1.0038 Equiv.	T Selection EN AW-5052 Equiv.
Standard Grade (EN 1.0038 Equiv.) RBPBS RBPBB RBPBM (Aluminum Alloy 5000 series) RBPBA RBPBW	30	30 40 50 60 80	X>Mx2 *1	- *2	Y≥Mx2 *1	G≥Mx2 and Y+G≤B-6 *3 or 0 *4	4 5 6	9	10
							5 6	12	12
	40	40 50 60 80 100		F≥Mx2 and X+F≤A-6 *3 or 0 *4			4 5 6	9	10
							5 6	12	12
	50	50 60 80 100					4 5 6	9	10
							5 6	12	12
	60	60 80 100					4 5 6	9	10
							5 6	12	12
	80	80 100 150					4 5 6	9	10
							5 6 8	12	12
	100	100 150					4 5 6	9	10
							5 6 8	12	12

*1 The X dimension (1st tapped hole) is distanced twice or more that of M (thread diameter) from edge surface in order to prevent interference.
*2 When A=30, side A has 1 mounting hole and specification of F dimension is not required.
*3 Set apart the second tapped hole twice or more of M (thread diameter) from the first and 6mm or more from the edge surface.
*4 When 0 is specified for F and G dimensions, 1 mounting hole is available.

Ordering Example: Part Number - B - X - F - Y - G - M - T
RBPBS30 - 60 - X20 - - Y20 - G20 - M6 - T9
RBPBW60 - 100 - X20 - F20 - Y25 - G50 - M6 - T12

Calculation Example of Unit Price
RBPBS30-60-X20-Y20-G20-M6-T9
A+B= A Dimension + B Dimension =30+60=90

A+B	Unit Price EN 1.0038 Equiv. RBPBS T=9	RBPBS T=12	RBPBB T=9	RBPBB T=12	RBPBM T=9	RBPBM T=12	EN AW-5052 Equiv. RBPBA T=10	RBPBA T=12	RBPBW T=10	RBPBW T=12
60										
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230										
250