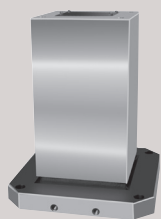
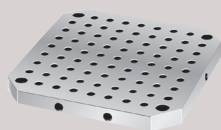




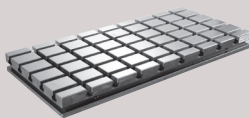
JIGS & CLAMPING TOOLS



Jig blocks
P.192 ▶



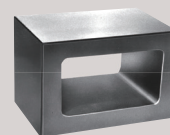
Sub tables
P.213 ▶



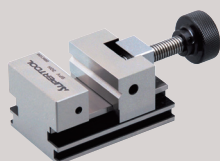
Jig plates
P.216 ▶



Angle plates
P.219 ▶



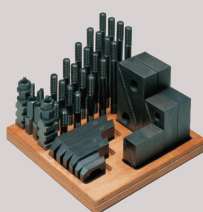
Setting blocks
P.223 ▶



Precision vises
P.224 ▶



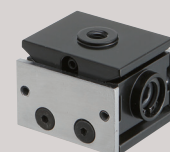
Vacuum chucks
P.226 ▶



Clamp kits
P.227 ▶



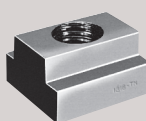
Screw supports
P.228 ▶



Mini blocks
P.232 ▶



Mini supports
P.232 ▶



Clamping tools
P.233 ▶



Clamps
P.246 ▶



Pin wrench handles
P.254 ▶

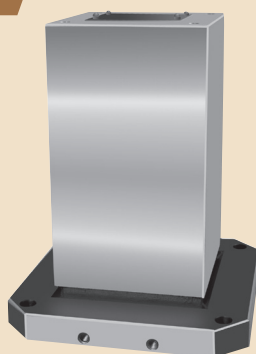
JIG CATEGORY

USE OF FC300, BEST SUITABLE MATERIAL FOR JIG BASE

The floor surface and the edge locator standard surface grinded edges realize a high precision finish.

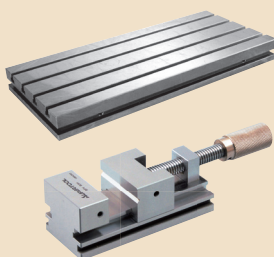
Appealing points! Value type

- Affordable price !
- Short delivery time !
- Processing such as tapping hole can be done by the user's machine!



Rich product lineup

Besides blocks, plates, clamping tools, etc. are also available.



Item No. display

Shape			
JA	Angle plate for large device	BC	Cross block
AP	Angle plate	BR	2-face block
PJ	Jig plate	BS	4-face block
PS	Sub table		

Type			
V	Value type	H	Threaded hole type
B	Bushing type	E	Economy type
T	T-slot type	S	Standard type
TC	Cross T-slot type		

Size of T-slot or bush, size			
A	12mm	D	22mm
B	16mm	E	24mm
C	18mm		14mm

B S T 4 5 5 2 0 B

Base size			
8	□800	4	□400
6	□630	3	□300
5	□500		

Size		
4-face block	2-face block	Sub table
Jig plate	Angle plate	

Size		
4-face block	2-face block	Sub table
Jig plate	Angle plate	

Finish	
S	Grinding finish high precision type

HOW TO SELECT YOUR JIG BLOCK

Follow the steps 1 to 6 to select your product.

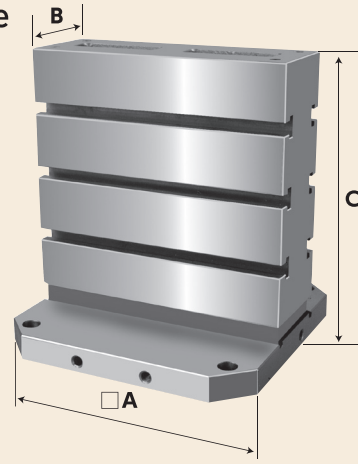
Select the pallet size, the height and the vertical plate length (width)

► 4-face



Select the jig block with same size as your machine table.

► 2-face



1 A = Machine pallet size

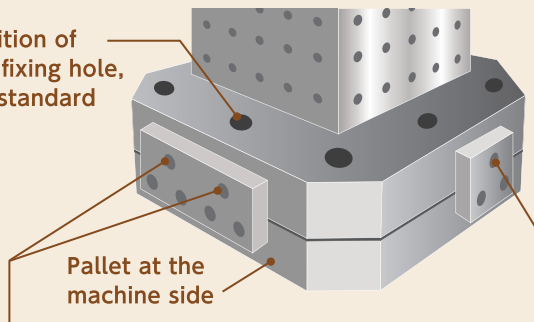
2 B = Vertical plate length (width)

3 C = Height

► For a horizontal type machine center, check carefully the height limit or the allowable swing range !

4 5 Select the table

4 Position of the fixing hole, JIS standard

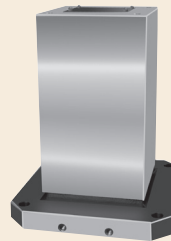


5 Position of the edge locator bolt holes, JIS standard (2 holes)

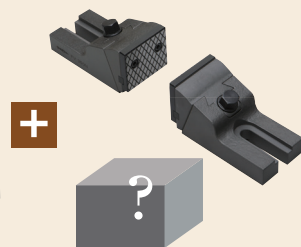
5 Position of the edge locator bolt hole, JIS standard (1 hole)

Depending on the manufacturer, the positions may not fit the JIS standard. Always check the position of the fixing holes and the edge locator bolt holes.

6 Select the weight



Jig block



Jigs + workpiece

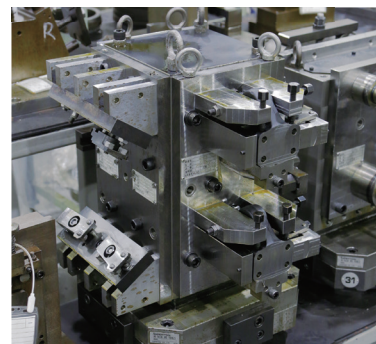
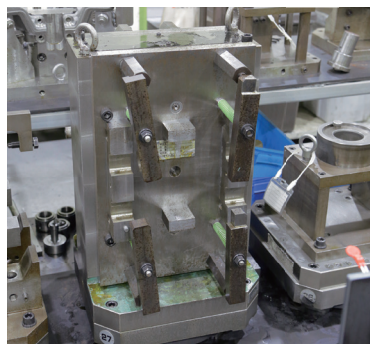
||

? kg

Total load weight

CUSTOMIZABLE !

Customized products adapted to your machine specifications or your processing requirements can be supplied.



Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

Mini blocks, mini supports

Clamping tools

Clamps



BSV

4-FACE JIG BLOCK FOR MC

BSV44525~68035 Value Type

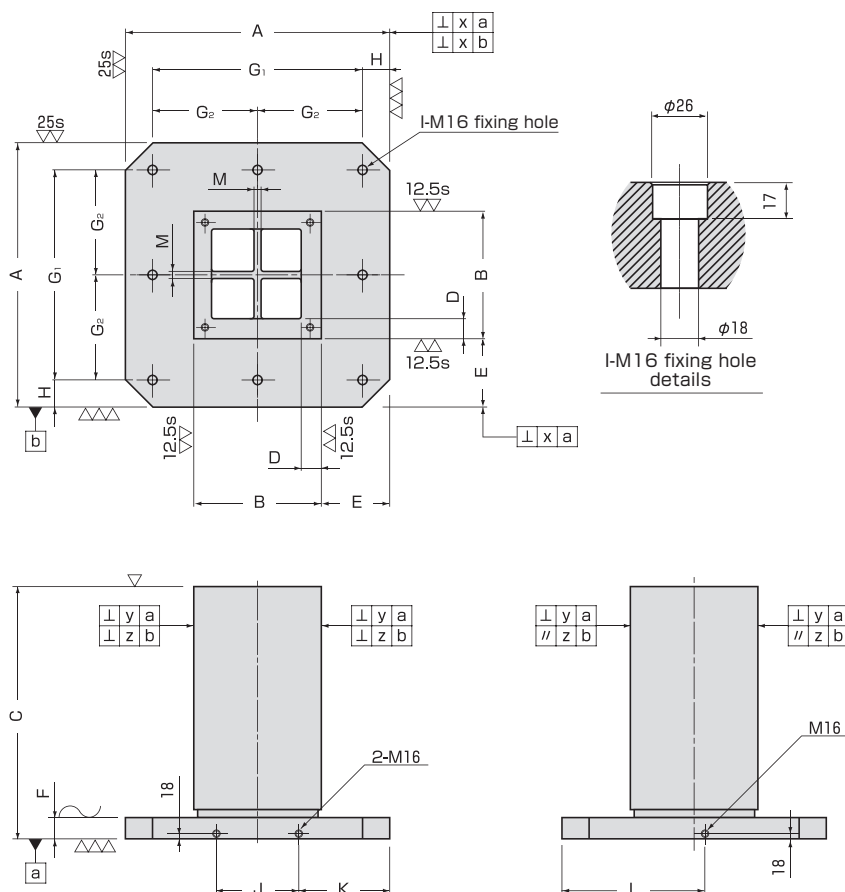
► Features

- Light-weight and affordable type.
 - Processing such as tapping hole can be done by the user's machine.
 - Top surface lid included.
- Note : As the vertical plate surface thickness is 40mm, you cannot proceed T-slot machining.

- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : machine finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



Item No.	Size (mm)							
	A	B	Size tolerance	C	D	E	Size tolerance	F
BSV44525	400	250	251.0±0.2	450	40	75	74.5±0.2	50
BSV45525	400	250	251.0±0.2	550	40	75	74.5±0.2	50
BSV55530	500	300	301.0±0.2	550	40	100	99.5±0.2	50
BSV56530	500	300	301.0±0.2	650	40	100	99.5±0.2	50
BSV67035	630	350	351.0±0.2	700	40	140	139.5±0.2	55
BSV68035	630	350	351.0±0.2	800	40	140	139.5±0.2	55

Item No.	Size (mm)											N.W. (kg)
	G1	G2	H	I	J	K	L	M	x	y	z	
BSV44525	320	—	40	4	110	145	225	30	0.03	0.05	0.05	160
BSV45525	320	—	40	4	110	145	225	30	0.03	0.06	0.06	185
BSV55530	400	200	50	8	150	175	275	30	0.04	0.06	0.06	252
BSV56530	400	200	50	8	150	175	275	30	0.04	0.07	0.07	284
BSV67035	500	250	65	8	200	215	340	40	0.04	0.07	0.07	415
BSV68035	500	250	65	8	200	215	340	40	0.04	0.08	0.08	452



BRV

2-FACE JIG BLOCK FOR MC

BRV44515~68025 Value Type

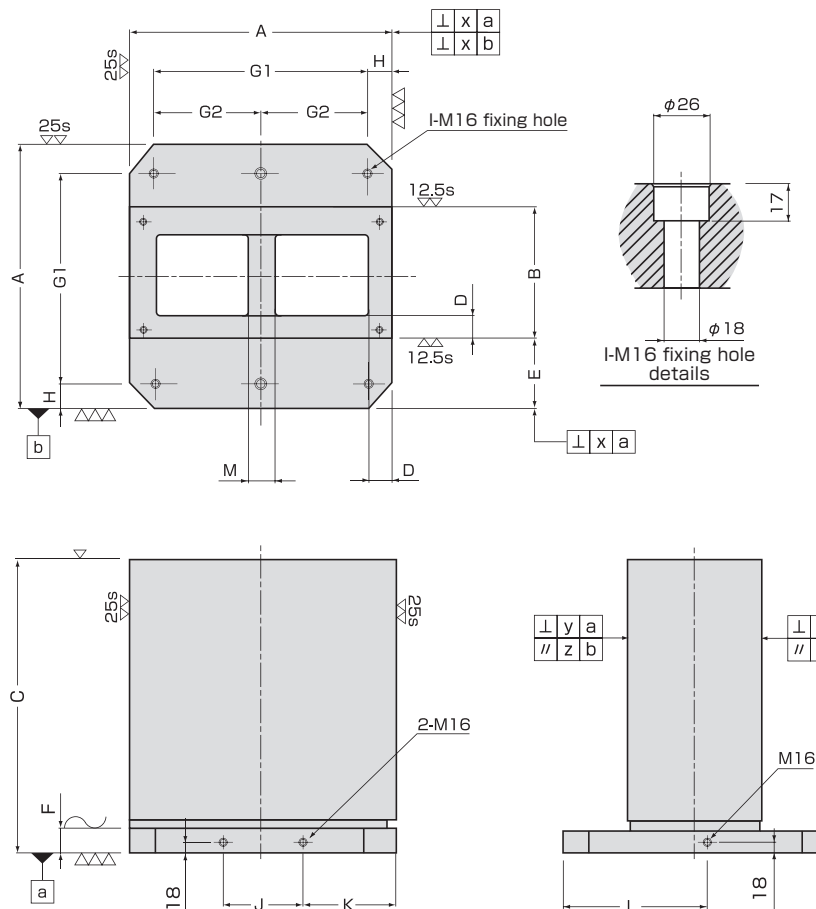
► Features

- Light-weight and affordable type.
 - Machine finished on the lower plate and the edge locator part.
 - Processing such as tapping hole can be done by the user's machine.
 - Top surface lid included.
- Note : As the vertical plate surface thickness is 40mm, you cannot make T-slot machining.

- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : machine finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



Item No.	Size (mm)							
	A	B	Size tolerance	C	D	E	Size tolerance	F
BRV44515	400	150	151.0±0.2	450	40	125	124.5±0.2	50
BRV45515	400	150	151.0±0.2	550	40	125	124.5±0.2	50
BRV55520	500	200	201.0±0.2	550	40	150	149.5±0.2	50
BRV56520	500	200	201.0±0.2	650	40	150	149.5±0.2	50
BRV67025	630	250	251.0±0.2	700	40	190	189.5±0.2	55
BRV68025	630	250	251.0±0.2	800	40	190	189.5±0.2	55

Item No.	Size (mm)											N.W. (kg)
	G1	G2	H	I	J	K	L	M	x	y	z	
BRV44515	320	—	40	4	110	145	225	40	0.03	0.05	0.05	169
BRV45515	320	—	40	4	110	145	225	40	0.03	0.06	0.06	197
BRV55520	400	200	50	6	150	175	275	40	0.04	0.06	0.06	274
BRV56520	400	200	50	6	150	175	275	40	0.04	0.07	0.07	311
BRV67025	500	250	65	6	200	215	340	50	0.04	0.07	0.07	472
BRV68025	500	250	65	6	200	215	340	50	0.04	0.08	0.08	520

BSE • BSS

4-FACE JIG BLOCK FOR MC

BSE33515~88050 Economy Type

► Features

- Affordable type.
- Processing such as T-slot and tapping hole can be done by the user's machine.
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : machine finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

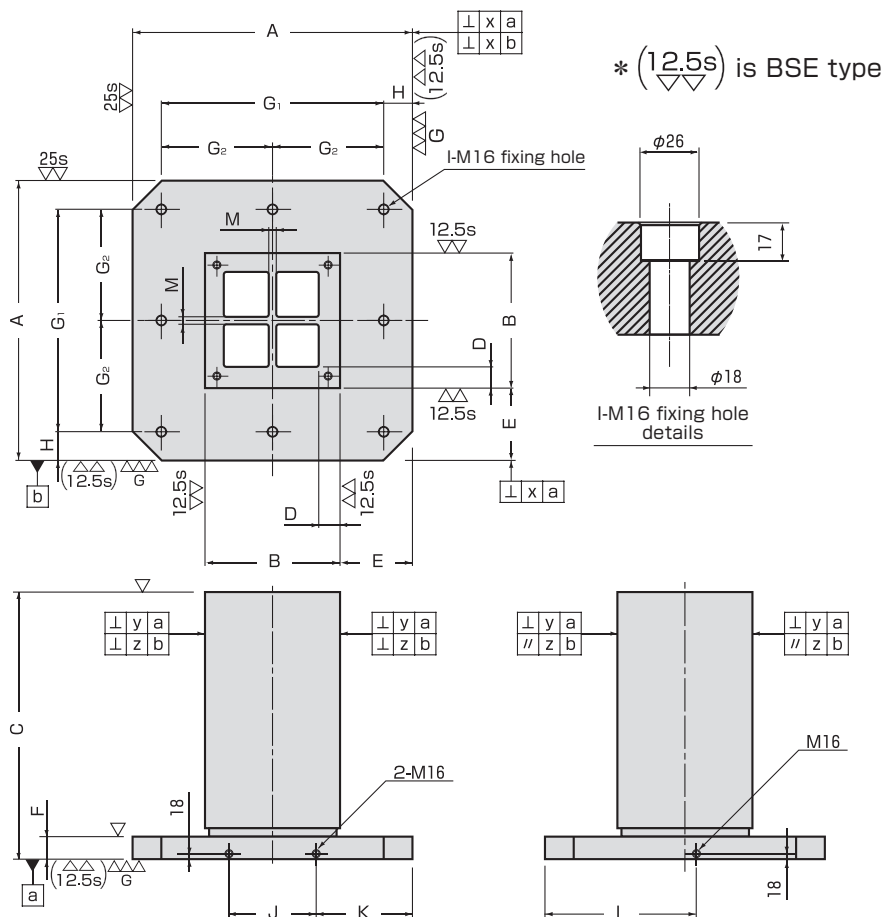
BSS33515~89055 Standard Type

► Features

- Great versatility allowing T-slot and tapping hole to be done according to the application.
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



For BSS33515, 34020, the size and position of the pulling screws and the fixing holes are manufactured as required in the order.

Upon request, we can provide a product of your required specifications.

BSE

Item No.	Size (mm)																		N.W. (kg)	
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H	I	J	K	L	M	x	y		z
BSE33515	300	150	151.0±0.2	350	40	75	74.5±0.2	25	—	—	—	—	—	—	—	—	0.04	0.03	0.03	56
BSE45025	400	250	251.0±0.2	500	50	75	74.5±0.2	50	320	—	40	4 pcs	110	145	225	—	0.05	0.05	0.05	177
BSE45520	400	200	201.0±0.2	550	50	100	99.5±0.2	50	320	—	40	4 pcs	110	145	225	—	0.05	0.05	0.05	160
BSE45525	400	250	251.0±0.2	550	50	75	74.5±0.2	50	320	—	40	4 pcs	110	145	225	—	0.05	0.05	0.05	191
BSE46025	400	250	251.0±0.2	600	50	75	74.5±0.2	50	320	—	40	4 pcs	110	145	225	20	0.05	0.05	0.05	228
BSE55530	500	300	301.0±0.2	550	50	100	99.5±0.2	50	400	—	50	4 pcs	150	175	275	20	0.06	0.06	0.06	280
BSE56030	500	300	301.0±0.2	600	50	100	99.5±0.2	50	400	—	50	4 pcs	150	175	275	20	0.06	0.06	0.06	301
BSE57025	500	250	251.0±0.2	700	50	125	124.5±0.2	50	400	—	50	4 pcs	150	175	275	20	0.06	0.06	0.06	293
BSE66045	630	450	451.0±0.2	600	50	90	89.5±0.2	50	500	250	65	8 pcs	200	215	340	—	0.06	0.06	0.06	412
BSE67540	630	400	401.0±0.2	750	50	115	114.5±0.2	50	500	250	65	8 pcs	200	215	340	20	0.06	0.06	0.06	518
BSE88050	800	500	501.0±0.2	800	50	150	149.5±0.2	50	640	320	80	8 pcs	270	265	425	20	0.06	0.1	0.1	736

BSS

Item No.	Size (mm)							
	A	B	Size tolerance	C	D	E	Size tolerance	F
BSS33515	300	150	151.0±0.2	350	40	75	74.5±0.2	25
BSS34020	300	200	201.0±0.2	400	40	50	49.5±0.2	25
BSS43728	400	280	281.0±0.2	370	50	60	59.5±0.2	40
BSS45024	400	240	241.0±0.2	500	50	80	79.5±0.2	50
BSS45025	400	250	251.0±0.2	500	50	75	74.5±0.2	50
BSS45520	400	200	201.0±0.2	550	50	100	99.5±0.2	50
BSS45525	400	250	251.0±0.2	550	50	75	74.5±0.2	50
BSS46025	400	250	251.0±0.2	600	50	75	74.5±0.2	50
BSS54536	500	360	361.0±0.2	450	50	70	69.5±0.2	40
BSS55530	500	300	301.0±0.2	550	50	100	99.5±0.2	50
BSS56028	500	280	281.0±0.2	600	50	110	109.5±0.2	50
BSS56030	500	300	301.0±0.2	600	50	100	99.5±0.2	50
BSS57025	500	250	251.0±0.2	700	50	125	124.5±0.2	50
BSS65645	630	450	451.0±0.2	560	50	90	89.5±0.2	40
BSS66045	630	450	451.0±0.2	600	50	90	89.5±0.2	50
BSS67031	630	310	311.0±0.2	700	50	160	159.5±0.2	50
BSS67040	630	400	401.0±0.2	700	50	115	114.5±0.2	50
BSS67530	630	300	301.0±0.2	750	50	165	164.5±0.2	50
BSS67540	630	400	401.0±0.2	750	50	115	114.5±0.2	50
BSS87950	800	500	501.0±0.2	790	50	150	149.5±0.2	50
BSS88040	800	400	401.0±0.2	800	50	200	199.5±0.2	50
BSS88042	800	420	421.0±0.2	800	50	190	189.5±0.2	50
BSS88050	800	500	501.0±0.2	800	50	150	149.5±0.2	50
BSS89055	800	550	551.0±0.2	900	50	125	124.5±0.2	50

Item No.	Size (mm)											N.W. (kg)
	G1	G2	H	I	J	K	L	M	x	y	z	
BSS33515	—	—	—	—	—	—	—	—	0.02	0.05	0.03	56
BSS34020	—	—	—	—	—	—	—	—	0.02	0.05	0.03	82
BSS43728	320	—	40	4 pcs	110	145	225	—	0.02	0.05	0.03	145
BSS45024	320	—	40	4 pcs	110	145	225	—	0.02	0.05	0.03	172
BSS45025	320	—	40	4 pcs	110	145	225	—	0.02	0.05	0.03	177
BSS45520	320	—	40	4 pcs	110	145	225	—	0.02	0.05	0.03	160
BSS45525	320	—	40	4 pcs	110	145	225	—	0.02	0.05	0.03	191
BSS46025	320	—	40	4 pcs	110	145	225	20	0.02	0.05	0.03	228
BSS54536	400	—	50	4 pcs	150	175	275	—	0.02	0.05	0.03	233
BSS55530	400	—	50	4 pcs	150	175	275	20	0.02	0.05	0.03	280
BSS56028	400	—	50	4 pcs	150	175	275	20	0.02	0.05	0.03	285
BSS56030	400	—	50	4 pcs	150	175	275	20	0.02	0.05	0.03	301
BSS57025	400	—	50	4 pcs	150	175	275	20	0.02	0.05	0.03	293
BSS65645	500	250	65	8 pcs	200	215	340	—	0.02	0.05	0.03	376
BSS66045	500	250	65	8 pcs	200	215	340	—	0.02	0.05	0.03	412
BSS67031	500	250	65	8 pcs	200	215	340	20	0.02	0.05	0.03	404
BSS67040	500	250	65	8 pcs	200	215	340	20	0.02	0.05	0.03	489
BSS67530	500	250	65	8 pcs	200	215	340	20	0.02	0.05	0.03	415
BSS67540	500	250	65	8 pcs	200	215	340	20	0.02	0.05	0.03	518
BSS87950	640	320	80	8 pcs	270	265	425	—	0.02	0.05	0.03	672
BSS88040	640	320	80	8 pcs	270	265	425	—	0.02	0.05	0.03	602
BSS88042	640	320	80	8 pcs	270	265	425	20	0.02	0.05	0.03	653
BSS88050	640	320	80	8 pcs	270	265	425	20	0.02	0.05	0.03	736
BSS89055	640	320	80	8 pcs	270	265	425	20	0.02	0.05	0.03	870

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

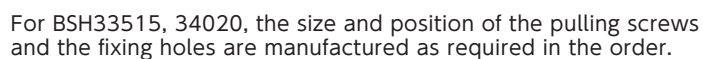
Mini blocks, mini supports

Clamping tools

Clamps



- Eye bolt (M16) 2 pcs for lifting



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Item No.	Size(mm)										
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H
BSH33515	300	150	151.0±0.2	350	40	75	74.5±0.2	25	—	—	—
BSH34020	300	200	201.0±0.2	400	40	50	49.5±0.2	25	—	—	—
BSH43728	400	280	281.0±0.2	370	50	60	59.5±0.2	40	320	—	40
BSH45024	400	240	241.0±0.2	500	50	80	79.5±0.2	50	320	—	40
BSH45025	400	250	251.0±0.2	500	50	75	74.5±0.2	50	320	—	40
BSH45520	400	200	201.0±0.2	550	50	100	99.5±0.2	50	320	—	40
BSH45525	400	250	251.0±0.2	550	50	75	74.5±0.2	50	320	—	40
BSH46025	400	250	251.0±0.2	600	50	75	74.5±0.2	50	320	—	40
BSH54536	500	360	361.0±0.2	450	50	70	69.5±0.2	40	400	—	50
BSH55530	500	300	301.0±0.2	550	50	100	99.5±0.2	50	400	—	50
BSH56028	500	280	281.0±0.2	600	50	110	109.5±0.2	50	400	—	50
BSH56030	500	300	301.0±0.2	600	50	100	99.5±0.2	50	400	—	50
BSH57025	500	250	251.0±0.2	700	50	125	124.5±0.2	50	400	—	50
BSH65645	630	450	451.0±0.2	560	50	90	89.5±0.2	40	500	250	65
BSH66045	630	450	451.0±0.2	600	50	90	89.5±0.2	50	500	250	65
BSH67031	630	310	311.0±0.2	700	50	160	159.5±0.2	50	500	250	65
BSH67040	630	400	401.0±0.2	700	50	115	114.5±0.2	50	500	250	65
BSH67530	630	300	301.0±0.2	750	50	165	164.5±0.2	50	500	250	65
BSH67540	630	400	401.0±0.2	750	50	115	114.5±0.2	50	500	250	65
BSH87950	800	500	501.0±0.2	790	50	150	149.5±0.2	50	640	320	80
BSH88040	800	400	401.0±0.2	800	50	200	199.5±0.2	50	640	320	80
BSH88042	800	420	421.0±0.2	800	50	190	189.5±0.2	50	640	320	80
BSH88050	800	500	501.0±0.2	800	50	150	149.5±0.2	50	640	320	80
BSH89055	800	550	551.0±0.2	900	50	125	124.5±0.2	50	640	320	80

Item No.	Size(mm)														N.W. (kg)
	I	J	K	L	M	N	P	Q	R	S	T	x	y	z	
BSH33515	—	—	—	—	—	75	50	5	2	72	150	0.02	0.05	0.03	54
BSH34020	—	—	—	—	—	75	50	6	2	84	150	0.02	0.05	0.03	80
BSH43728	4 pcs	110	145	225	—	90	50	5	4	120	200	0.02	0.05	0.03	138
BSH45024	4 pcs	110	145	225	—	90	50	7	2	96	200	0.02	0.05	0.03	167
BSH45025	4 pcs	110	145	225	—	90	50	7	2	96	200	0.02	0.05	0.03	172
BSH45520	4 pcs	110	145	225	—	90	50	8	2	108	200	0.02	0.05	0.03	155
BSH45525	4 pcs	110	145	225	—	90	50	8	4	180	200	0.02	0.05	0.03	183
BSH46025	4 pcs	110	145	225	20	90	50	9	2	120	200	0.02	0.05	0.03	222
BSH54536	4 pcs	150	175	275	—	100	50	6	4	140	250	0.02	0.05	0.03	226
BSH55530	4 pcs	150	175	275	20	100	50	8	4	180	250	0.02	0.05	0.03	271
BSH56028	4 pcs	150	175	275	20	100	50	9	4	200	250	0.02	0.05	0.03	275
BSH56030	4 pcs	150	175	275	20	100	50	9	4	200	250	0.02	0.05	0.03	291
BSH57025	4 pcs	150	175	275	20	100	50	11	2	144	250	0.02	0.05	0.03	286
BSH65645	4 pcs	200	215	340	—	120	50	8	6	252	315	0.02	0.05	0.03	363
BSH66045	4 pcs	200	215	340	—	120	50	8	6	252	315	0.02	0.05	0.03	399
BSH67031	8 pcs	200	215	340	20	120	50	11	4	240	315	0.02	0.05	0.03	392
BSH67040	8 pcs	200	215	340	20	120	50	10	6	308	315	0.02	0.05	0.03	473
BSH67530	8 pcs	200	215	340	20	120	50	12	4	260	315	0.02	0.05	0.03	402
BSH67540	8 pcs	200	215	340	20	120	50	12	6	364	315	0.02	0.05	0.03	500
BSH87950	4 pcs	270	265	425	—	150	50	12	8	468	400	0.02	0.05	0.03	647
BSH88040	4 pcs	270	265	425	—	150	50	12	6	364	400	0.02	0.05	0.03	583
BSH88042	8 pcs	270	265	425	20	150	50	12	6	364	400	0.02	0.05	0.03	634
BSH88050	8 pcs	270	265	425	20	150	50	12	8	468	400	0.02	0.05	0.03	712
BSH89055	8 pcs	270	265	425	20	150	50	14	8	540	400	0.02	0.05	0.03	843

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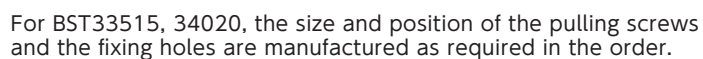
BST33515~89055B

► Features

- BSS type with T-slots (14・16).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)											
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H	I
BST33515	300	150	151.0±0.2	350	40	75	74.5±0.2	25	—	—	—	—
BST34020	300	200	201.0±0.2	400	40	50	49.5±0.2	25	—	—	—	—
BST43728B	400	280	281.0±0.2	370	50	60	59.5±0.2	40	320	—	40	4 pcs
BST45024B	400	240	241.0±0.2	500	50	80	79.5±0.2	50	320	—	40	4 pcs
BST45025B	400	250	251.0±0.2	500	50	75	74.5±0.2	50	320	—	40	4 pcs
BST45520B	400	200	201.0±0.2	550	50	100	99.5±0.2	50	320	—	40	4 pcs
BST45525B	400	250	251.0±0.2	550	50	75	74.5±0.2	50	320	—	40	4 pcs
BST46025B	400	250	251.0±0.2	600	50	75	74.5±0.2	50	320	—	40	4 pcs
BST54536B	500	360	361.0±0.2	450	50	70	69.5±0.2	40	400	—	50	4 pcs
BST55530B	500	300	301.0±0.2	550	50	100	99.5±0.2	50	400	—	50	4 pcs
BST56028B	500	280	281.0±0.2	600	50	110	109.5±0.2	50	400	—	50	4 pcs
BST56030B	500	300	301.0±0.2	600	50	100	99.5±0.2	50	400	—	50	4 pcs
BST57025B	500	250	251.0±0.2	700	50	125	124.5±0.2	50	400	—	50	4 pcs
BST65645B	630	450	451.0±0.2	560	50	90	89.5±0.2	40	500	250	65	8 pcs
BST66045B	630	450	451.0±0.2	600	50	90	89.5±0.2	50	500	250	65	8 pcs
BST67031B	630	310	311.0±0.2	700	50	160	159.5±0.2	50	500	250	65	8 pcs
BST67040B	630	400	401.0±0.2	700	50	115	114.5±0.2	50	500	250	65	8 pcs
BST67530B	630	300	301.0±0.2	750	50	165	164.5±0.2	50	500	250	65	8 pcs
BST67540B	630	400	401.0±0.2	750	50	115	114.5±0.2	50	500	250	65	8 pcs
BST87950B	800	500	501.0±0.2	790	50	150	149.5±0.2	50	640	320	80	8 pcs
BST88040B	800	400	401.0±0.2	800	50	200	199.5±0.2	50	640	320	80	8 pcs
BST88042B	800	420	421.0±0.2	800	50	190	189.5±0.2	50	640	320	80	8 pcs
BST88050B	800	500	501.0±0.2	800	50	150	149.5±0.2	50	640	320	80	8 pcs
BST89055B	800	550	551.0±0.2	900	50	125	124.5±0.2	50	640	320	80	8 pcs

Item No.	Size(mm)												N.W. (kg)
	J	K	L	M	N	P	Q	Number of T-slots	x	y	z	u	
BST33515	—	—	—	—	75±0.05	75±0.03	3	4-4 faces	0.02	0.04	0.03	0.05	50
BST34020	—	—	—	—	75±0.05	75±0.03	4	5-4 faces	0.02	0.04	0.03	0.05	72
BST43728B	110	145	225	—	150±0.05	80±0.03	2	3-4 faces	0.02	0.04	0.03	0.05	133
BST45024B	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.04	0.03	0.05	158
BST45025B	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	163
BST45520B	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	149
BST45525B	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	178
BST46025B	110	145	225	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	211
BST54536B	150	175	275	—	150±0.05	80±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	213
BST55530B	150	175	275	20	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	263
BST56028B	150	175	275	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	265
BST56030B	150	175	275	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	280
BST57025B	150	175	275	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	276
BST65645B	200	215	340	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	350
BST66045B	200	215	340	—	150±0.05	125±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	386
BST67031B	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	382
BST67040B	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	460
BST67530B	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	394
BST67540B	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	489
BST87950B	270	265	425	—	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	635
BST88040B	270	265	425	—	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	573
BST88042B	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	653
BST88050B	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	699
BST89055B	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	829

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BST-C

4-FACE JIG BLOCK FOR MC (T-slot Type 18)

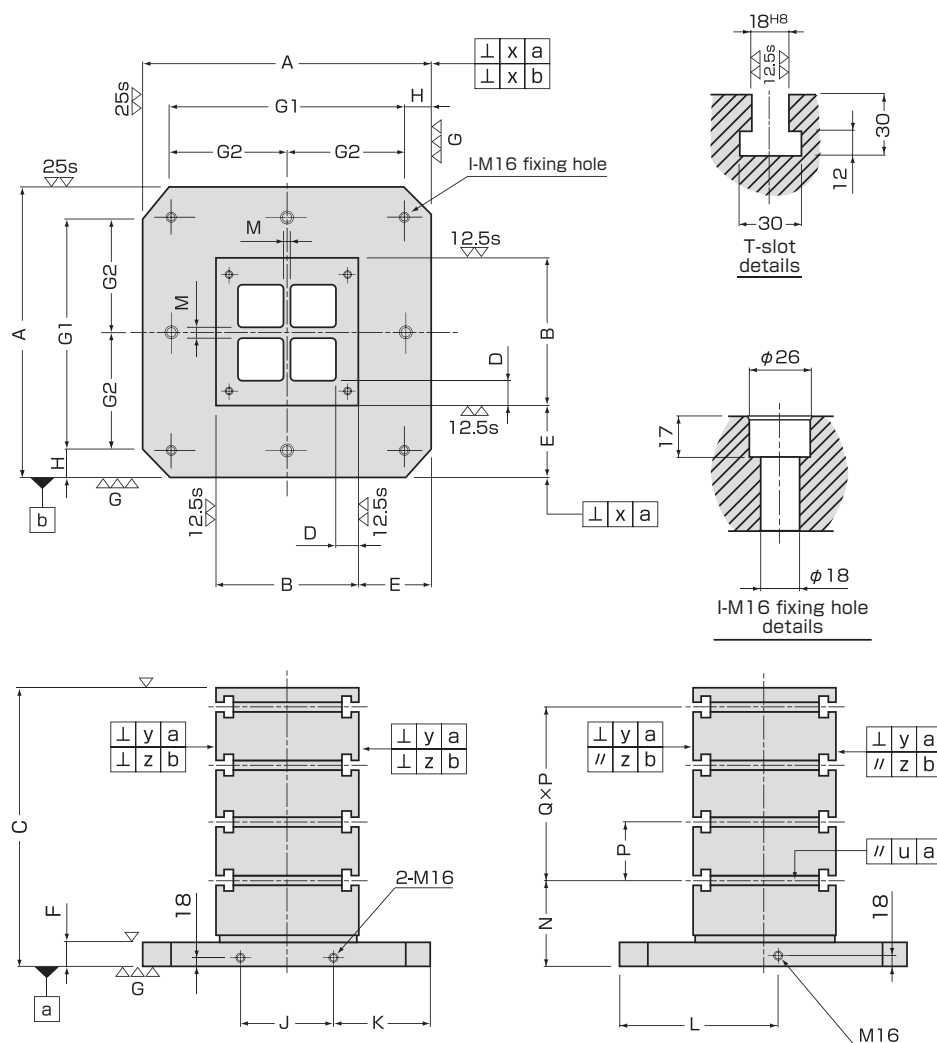
BST43728C~BST89055C

► Features

- BSS type with T-slots (18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)											
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H	I
BST43728C	400	280	281.0±0.2	370	50	60	59.5±0.2	40	320	—	40	4 pcs
BST45024C	400	240	241.0±0.2	500	50	80	79.5±0.2	50	320	—	40	4 pcs
BST45025C	400	250	251.0±0.2	500	50	75	74.5±0.2	50	320	—	40	4 pcs
BST45520C	400	200	201.0±0.2	550	50	100	99.5±0.2	50	320	—	40	4 pcs
BST45525C	400	250	251.0±0.2	550	50	75	74.5±0.2	50	320	—	40	4 pcs
BST46025C	400	250	251.0±0.2	600	50	75	74.5±0.2	50	320	—	40	4 pcs
BST54536C	500	360	361.0±0.2	450	50	70	69.5±0.2	40	400	—	50	4 pcs
BST55530C	500	300	301.0±0.2	550	50	100	99.5±0.2	50	400	—	50	4 pcs
BST56028C	500	280	281.0±0.2	600	50	110	109.5±0.2	50	400	—	50	4 pcs
BST56030C	500	300	301.0±0.2	600	50	100	99.5±0.2	50	400	—	50	4 pcs
BST57025C	500	250	251.0±0.2	700	50	125	124.5±0.2	50	400	—	50	4 pcs
BST65645C	630	450	451.0±0.2	560	50	90	89.5±0.2	40	500	250	65	8 pcs
BST66045C	630	450	451.0±0.2	600	50	90	89.5±0.2	50	500	250	65	8 pcs
BST67031C	630	310	311.0±0.2	700	50	160	159.5±0.2	50	500	250	65	8 pcs
BST67040C	630	400	401.0±0.2	700	50	115	114.5±0.2	50	500	250	65	8 pcs
BST67530C	630	300	301.0±0.2	750	50	165	164.5±0.2	50	500	250	65	8 pcs
BST67540C	630	400	401.0±0.2	750	50	115	114.5±0.2	50	500	250	65	8 pcs
BST87950C	800	500	501.0±0.2	790	50	150	149.5±0.2	50	640	320	80	8 pcs
BST88040C	800	400	401.0±0.2	800	50	200	199.5±0.2	50	640	320	80	8 pcs
BST88042C	800	420	421.0±0.2	800	50	190	189.5±0.2	50	640	320	80	8 pcs
BST88050C	800	500	501.0±0.2	800	50	150	149.5±0.2	50	640	320	80	8 pcs
BST89055C	800	550	551.0±0.2	900	50	125	124.5±0.2	50	640	320	80	8 pcs

Item No.	Size(mm)												N.W. (kg)
	J	K	L	M	N	P	Q	Number of T-slots	x	y	z	u	
BST43728C	110	145	225	—	150±0.05	80±0.03	2	3-4 faces	0.02	0.04	0.03	0.05	129
BST45024C	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.04	0.03	0.05	155
BST45025C	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.04	0.03	0.05	159
BST45520C	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.04	0.03	0.05	146
BST45525C	110	145	225	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	174
BST46025C	110	145	225	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	206
BST54536C	150	175	275	—	150±0.05	80±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	207
BST55530C	150	175	275	20	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	259
BST56028C	150	175	275	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	260
BST56030C	150	175	275	20	150±0.05	100±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	274
BST57025C	150	175	275	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	271
BST65645C	200	215	340	—	150±0.05	100±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	342
BST66045C	200	215	340	—	150±0.05	125±0.03	3	4-4 faces	0.02	0.05	0.03	0.05	378
BST67031C	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	376
BST67040C	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	452
BST67530C	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	388
BST67540C	200	215	340	20	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	481
BST87950C	270	265	425	—	150±0.05	125±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	625
BST88040C	270	265	425	—	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	565
BST88042C	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	645
BST88050C	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	689
BST89055C	270	265	425	20	150±0.05	150±0.03	4	5-4 faces	0.02	0.05	0.03	0.05	818

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BRE•BRS

2-FACE JIG BLOCK FOR MC

BRE32815~88040 Economy Type

► Features

- Affordable type.
- Machine finished on the lower plate and the edge locator part.
- Processing such as T-slot and tapping hole can be done by the user's machine.
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : machine finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

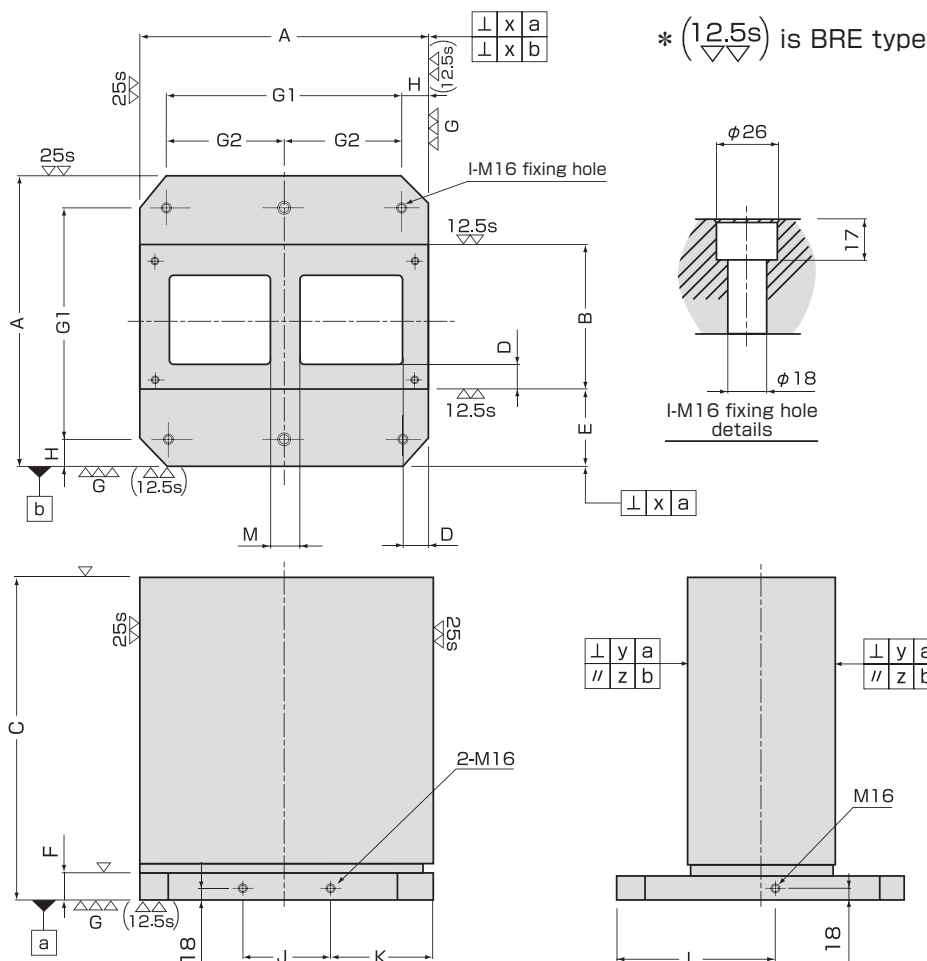
BRS32815~88040 Standard Type

► Features

- Great versatility allowing T-slot and tapping hole to be done according to the application.
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



For BRS32815, the size and position of the pulling screws and the fixing holes are manufactured as required in the order.

Upon request, we can provide a product of your required specifications.

BRE

Item No.	Size(mm)						
	A	B	Size tolerance	C	D	E	Size tolerance
BRE32815	300	150	151.0±0.2	280	40	75	74.5±0.2
BRE45025	400	250	251.0±0.2	500	50	75	74.5±0.2
BRE55525	500	250	251.0±0.2	550	50	125	124.5±0.2
BRE67025	630	250	251.0±0.2	700	50	190	189.5±0.2
BRE88040	800	400	401.0±0.2	800	50	200	199.5±0.2

Item No.	Size(mm)											N.W. (kg)
	G1	G2	H	I	J	K	L	M	x	y	z	
BRE32815	—	—	—	—	—	—	—	—	0.03	0.04	0.04	67
BRE45025	320	—	40	4 pcs	110	145	225	50	0.04	0.06	0.06	239
BRE55525	400	—	50	4 pcs	150	175	275	50	0.04	0.07	0.07	327
BRE67025	500	250	65	6 pcs	200	215	340	50	0.04	0.07	0.07	511
BRE88040	640	320	80	6 pcs	270	265	425	50	0.06	0.10	0.10	822

BRS

Item No.	Size(mm)						
	A	B	Size tolerance	C	D	E	Size tolerance
BRS32815	300	150	151.0±0.2	280	40	75	74.5±0.2
BRS44414	400	140	141.0±0.2	440	50	130	129.5±0.2
BRS45020	400	200	201.0±0.2	500	50	100	99.5±0.2
BRS45025	400	250	251.0±0.2	500	50	75	74.5±0.2
BRS55518	500	180	181.0±0.2	550	50	160	159.5±0.2
BRS55520	500	200	201.0±0.2	550	50	150	149.5±0.2
BRS55525	500	250	251.0±0.2	550	50	125	124.5±0.2
BRS66522	630	220	221.0±0.2	650	50	205	204.5±0.2
BRS67025	630	250	251.0±0.2	700	50	190	189.5±0.2
BRS67030	630	300	301.0±0.2	700	50	165	164.5±0.2
BRS88035	800	350	351.0±0.2	800	50	225	224.5±0.2
BRS88040	800	400	401.0±0.2	800	50	200	199.5±0.2

Item No.	Size(mm)											N.W. (kg)
	G1	G2	H	I	J	K	L	M	x	y	z	
BRS32815	—	—	—	—	—	—	—	—	0.02	0.05	0.03	67
BRS44414	320	—	40	4 pcs	110	145	225	50	0.02	0.05	0.03	174
BRS45020	320	—	40	4 pcs	110	145	225	50	0.02	0.05	0.03	218
BRS45025	320	—	40	4 pcs	110	145	225	50	0.02	0.05	0.03	239
BRS55518	400	—	50	4 pcs	150	175	275	50	0.02	0.05	0.03	299
BRS55520	400	—	50	4 pcs	150	175	275	50	0.02	0.05	0.03	307
BRS55525	400	—	50	4 pcs	150	175	275	50	0.02	0.05	0.03	327
BRS66522	500	250	65	6 pcs	200	215	340	50	0.02	0.05	0.03	466
BRS67025	500	250	65	6 pcs	200	215	340	50	0.02	0.05	0.03	511
BRS67030	500	250	65	6 pcs	200	215	340	50	0.02	0.05	0.03	536
BRS88035	640	320	80	6 pcs	270	265	425	50	0.02	0.05	0.03	903
BRS88040	640	320	80	6 pcs	270	265	425	50	0.02	0.05	0.03	938

JIGS AND CLAMPING TOOLS

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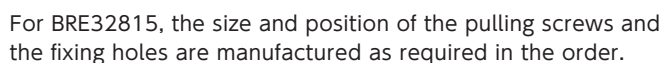


BRH32815~88040

- BSS type with threaded holes (for M12・M16 screw) positioned at 50mm pitch.

- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

- Eye bolt (M16) 2 pcs for lifting



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Item No.	Size(mm)										
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H
BRH32815	300	150	151.0±0.2	280	40	75	74.5±0.2	25	—	—	—
BRH44414	400	140	141.0±0.2	440	50	130	129.5±0.2	40	320	—	40
BRH45020	400	200	201.0±0.2	500	50	100	99.5±0.2	40	320	—	40
BRH45025	400	250	251.0±0.2	500	50	75	74.5±0.2	40	320	—	40
BRH55518	500	180	181.0±0.2	550	50	160	159.5±0.2	50	400	—	50
BRH55520	500	200	201.0±0.2	550	50	150	149.5±0.2	50	400	—	50
BRH55525	500	250	251.0±0.2	550	50	125	124.5±0.2	50	400	—	50
BRH66522	630	220	221.0±0.2	650	50	205	204.5±0.2	50	500	250	65
BRH67025	630	250	251.0±0.2	700	50	190	189.5±0.2	50	500	250	65
BRH67030	630	300	301.0±0.2	700	50	165	164.5±0.2	50	500	250	65
BRH88035	800	350	351.0±0.2	800	50	225	224.5±0.2	50	640	320	80
BRH88040	800	400	401.0±0.2	800	50	200	199.5±0.2	50	640	320	80

Item No.	Size(mm)														N.W. (kg)
	I	J	K	L	M	N	P	Q	R	S	T	x	y	z	
BRH32815	—	—	—	—	—	75	50	3	4	40	150	0.02	0.05	0.03	66
BRH44414	4 pcs	110	145	225	50	100	50	6	6	98	200	0.02	0.05	0.03	169
BRH45020	4 pcs	110	145	225	50	100	50	7	6	112	200	0.02	0.05	0.03	212
BRH45025	4 pcs	110	145	225	50	100	50	7	6	112	200	0.02	0.05	0.03	233
BRH55518	4 pcs	150	175	275	50	100	50	8	8	162	250	0.02	0.05	0.03	291
BRH55520	4 pcs	150	175	275	50	100	50	8	8	162	250	0.02	0.05	0.03	299
BRH55525	4 pcs	150	175	275	50	100	50	8	8	162	250	0.02	0.05	0.03	318
BRH66522	6 pcs	200	215	340	50	120	50	10	10	242	315	0.02	0.05	0.03	454
BRH67025	6 pcs	200	215	340	50	120	50	11	10	264	315	0.02	0.05	0.03	497
BRH67030	6 pcs	200	215	340	50	120	50	11	10	264	315	0.02	0.05	0.03	523
BRH88035	6 pcs	270	265	425	50	150	50	12	14	390	400	0.02	0.05	0.03	883
BRH88040	6 pcs	270	265	425	50	150	50	12	14	390	400	0.02	0.05	0.03	918

Jig blocks

Sub tables

Jig plates

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blocks

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Vacuum
chucks

Clamp kits

Screw
supports

Mini blocks,
mini
supports

Clamping
tools

Clamps



BRT • BRT-B • BRT-C

2-FACE JIG BLOCK FOR MC (T-slot Type 14•16•18)

BRT32815~88040B

► Features

- BRS type with T-slots (14•16).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

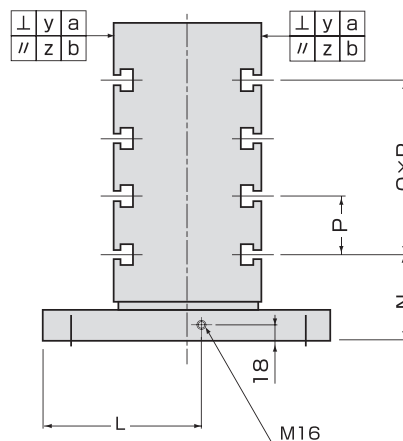
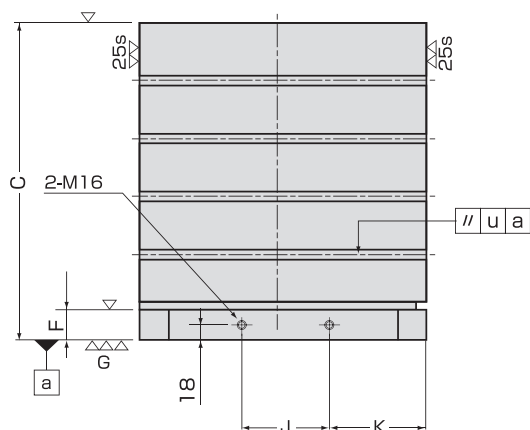
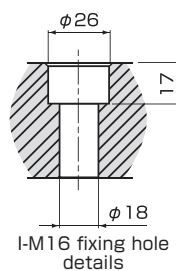
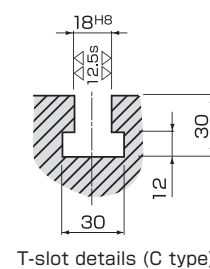
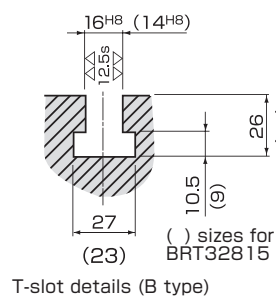
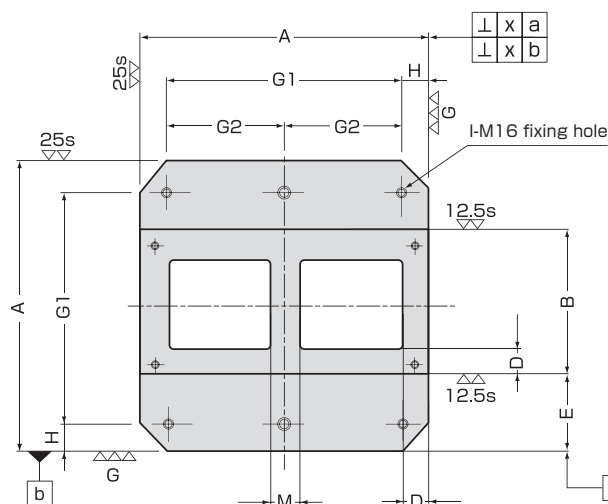
BRT44414C~88040C

► Features

- BRS type with T-slots (18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting



For BRT32815, the size and position of the pulling screws and the fixing holes are manufactured as required in the order.

Upon request, we can provide a product of your required specifications.

BRT•BRT-B•BRT-C

Item No.	Size(mm)															
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H	I	J	K	L	M
BRT32815	300	150	151.0±0.2	280	40	75	74.5±0.2	25	—	—	—	—	—	—	—	—
BRT44414B•C	400	140	141.0±0.2	440	50	130	129.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRT45020B•C	400	200	201.0±0.2	500	50	100	99.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRT45025B•C	400	250	251.0±0.2	500	50	75	74.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRT55518B•C	500	180	181.0±0.2	550	50	160	159.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRT55520B•C	500	200	201.0±0.2	550	50	150	149.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRT55525B•C	500	250	251.0±0.2	550	50	125	124.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRT66522B•C	630	220	221.0±0.2	650	50	205	204.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRT67025B•C	630	250	251.0±0.2	700	50	190	189.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRT67030B•C	630	300	301.0±0.2	700	50	165	164.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRT88035B•C	800	350	351.0±0.2	800	50	225	224.5±0.2	50	640	320	80	6 pcs	270	265	425	50
BRT88040B•C	800	400	401.0±0.2	800	50	200	199.5±0.2	50	640	320	80	6 pcs	270	265	425	50

BRT•BRT-B

Item No.	Size(mm)								N.W. (kg)
	N	P	Q	Number of T-slots	x	y	z	u	
BRT32815	75±0.05	75±0.03	2	3-2 faces	0.02	0.05	0.03	0.05	60
BRT44414B	150±0.05	100±0.03	2	3-2 faces	0.02	0.05	0.03	0.05	164
BRT45020B	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	206
BRT45025B	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	226
BRT55518B	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	284
BRT55520B	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	292
BRT55525B	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	311
BRT66522B	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	447
BRT67025B	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	491
BRT67030B	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	517
BRT88035B	150±0.05	150±0.03	4	5-2 faces	0.02	0.05	0.03	0.05	872
BRT88040B	150±0.05	150±0.03	4	5-2 faces	0.02	0.05	0.03	0.05	907

BRT-C

Item No.	Size(mm)								N.W. (kg)
	N	P	Q	Number of T-slots	x	y	z	u	
BRT44414C	150±0.05	100±0.03	2	3-2 faces	0.02	0.05	0.03	0.05	162
BRT45020C	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	202
BRT45025C	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	223
BRT55518C	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	279
BRT55520C	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	287
BRT55525C	150±0.05	100±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	307
BRT66522C	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	441
BRT67025C	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	486
BRT67030C	150±0.05	150±0.03	3	4-2 faces	0.02	0.05	0.03	0.05	511
BRT88035C	150±0.05	150±0.03	4	5-2 faces	0.02	0.05	0.03	0.05	863
BRT88040C	150±0.05	150±0.03	4	5-2 faces	0.02	0.05	0.03	0.05	898

JIGS AND CLAMPING TOOLS

Jig blocks

Sub tables

Jig plates

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blocks

Precision
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Vacuum
chucks

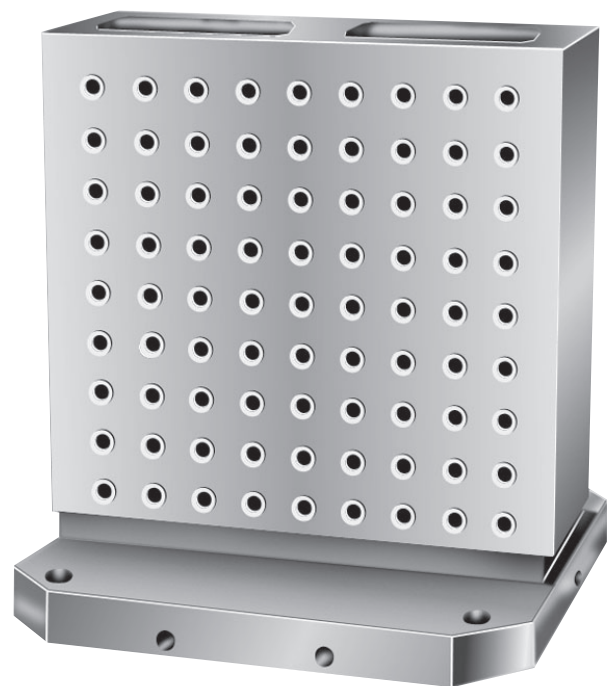
Clamp kits

Screw
supports

Mini blocks,
mini
supports

Clamping
tools

Clamps



BRB-A • BRB-B

2-FACE JIG BLOCK FOR MC (Bushing Type 12•16)

BRB32815A~88040A

► Features

- BRS type with bushes and heliserts inserted as standard holes.
- Standard hole size : $\phi 12\text{mm}$
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

BRB44414B~88040B

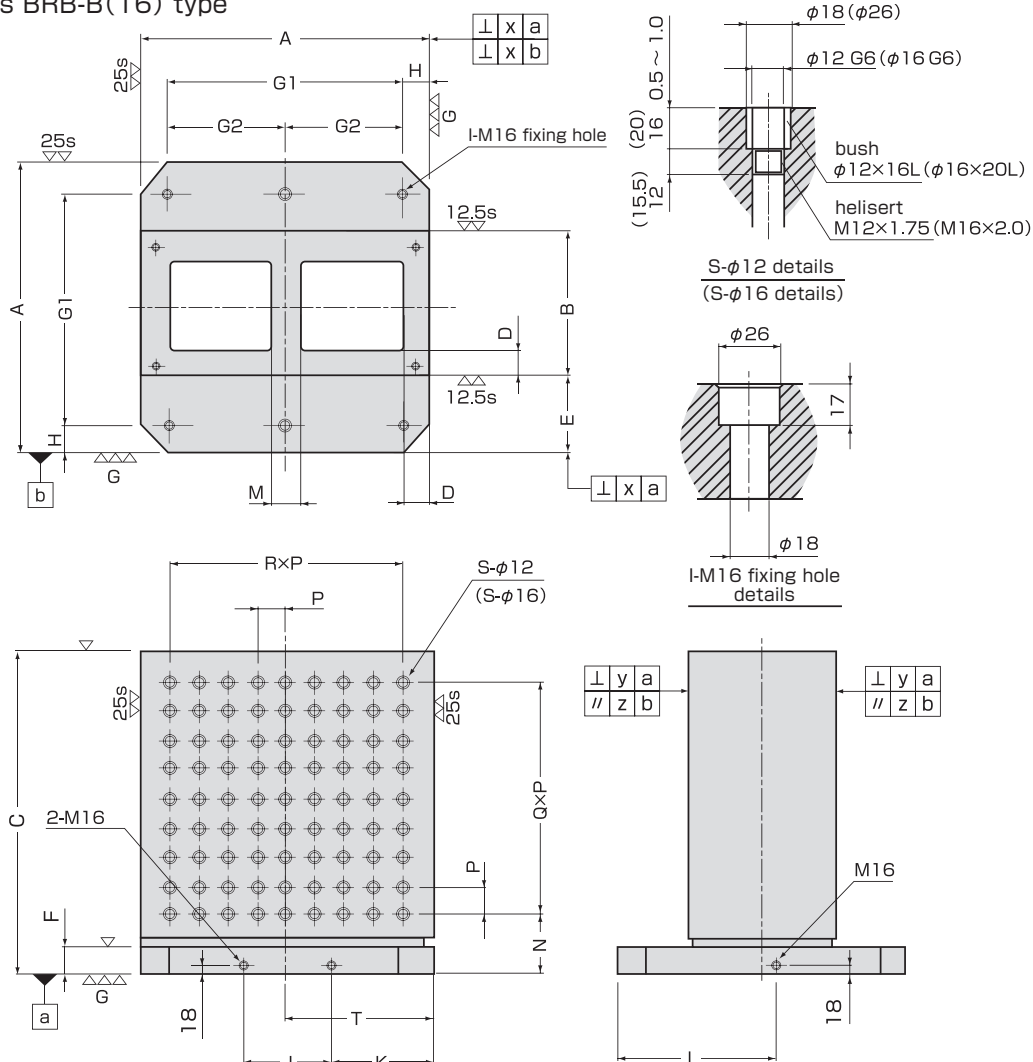
► Features

- BRS type with bushes and heliserts inserted as standard holes.
- Standard hole size : $\phi 16\text{mm}$
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

* () is BRB-B(16) type



For BRB32815A, the size and position of the pulling screws and the fixing holes are manufactured as required in the order.

Upon request, we can provide a product of your required specifications.

■ BRB-A·BRB-B

Item No.	Size(mm)															
	A	B	Size tolerance	C	D	E	Size tolerance	F	G1	G2	H	I	J	K	L	M
BRB32815A	300	150	151.0±0.2	280	40	75	74.5±0.2	25	—	—	—	—	—	—	—	—
BRB44414A·B	400	140	141.0±0.2	440	50	130	129.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRB45020A·B	400	200	201.0±0.2	500	50	100	99.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRB45025A·B	400	250	251.0±0.2	500	50	75	74.5±0.2	40	320	—	40	4 pcs	110	145	225	50
BRB55518A·B	500	180	181.0±0.2	550	50	160	159.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRB55520A·B	500	200	201.0±0.2	550	50	150	149.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRB55525A·B	500	250	251.0±0.2	550	50	125	124.5±0.2	50	400	—	50	4 pcs	150	175	275	50
BRB66522A·B	630	220	221.0±0.2	650	50	205	204.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRB67025A·B	630	250	251.0±0.2	700	50	190	189.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRB67030A·B	630	300	301.0±0.2	700	50	165	164.5±0.2	50	500	250	65	6 pcs	200	215	340	50
BRB88035A·B	800	350	351.0±0.2	800	50	225	224.5±0.2	50	640	320	80	6 pcs	270	265	425	50
BRB88040A·B	800	400	401.0±0.2	800	50	200	194.5±0.2	50	640	320	80	6 pcs	270	265	425	50

■ BRB-A

Item No.	Size(mm)									N.W. (kg)
	N	P	Q	R	S	T	x	y	z	
BRB32815A	75±0.05	50±0.02	3	4	40	150±0.05	0.02	0.05	0.03	65
BRB44414A	100±0.05	50±0.02	6	6	98	200±0.05	0.02	0.05	0.03	170
BRB45020A	100±0.05	50±0.02	7	6	112	200±0.05	0.02	0.05	0.03	214
BRB45025A	100±0.05	50±0.02	7	6	112	200±0.05	0.02	0.05	0.03	234
BRB55518A	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	297
BRB55520A	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	305
BRB55525A	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	325
BRB66522A	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	464
BRB67025A	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	508
BRB67030A	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	534
BRB88035A	150±0.05	150±0.02	4	4	50	400±0.05	0.02	0.05	0.03	900
BRB88040A	150±0.05	150±0.02	4	4	50	400±0.05	0.02	0.05	0.03	935

■ BRB-B

Item No.	Size(mm)									N.W. (kg)
	N	P	Q	R	S	T	x	y	z	
BRB44414B	100±0.05	50±0.02	6	6	98	200±0.05	0.02	0.05	0.03	166
BRB45020B	100±0.05	50±0.02	7	6	112	200±0.05	0.02	0.05	0.03	210
BRB45025B	100±0.05	50±0.02	7	6	112	200±0.05	0.02	0.05	0.03	231
BRB55518B	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	295
BRB55520B	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	303
BRB55525B	100±0.05	100±0.02	4	4	50	250±0.05	0.02	0.05	0.03	323
BRB66522B	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	462
BRB67025B	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	506
BRB67030B	120±0.05	100±0.02	5	4	60	315±0.05	0.02	0.05	0.03	532
BRB88035B	150±0.05	150±0.02	4	4	50	400±0.05	0.02	0.05	0.03	899
BRB88040B	150±0.05	150±0.02	4	4	50	400±0.05	0.02	0.05	0.03	934



BCT-B·BCT-C

4-FACE CROSS JIG BLOCK FOR MC (T-slot Type 16·18)

BCT45010B~67025B

► Features

- BCS type (P.212) with T-slots.
- Mechalocks can be fixed by using the T-slots (16).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)
Base top side surface : casting

► Accessories

- Eye bolt (M16) 2 pcs for lifting

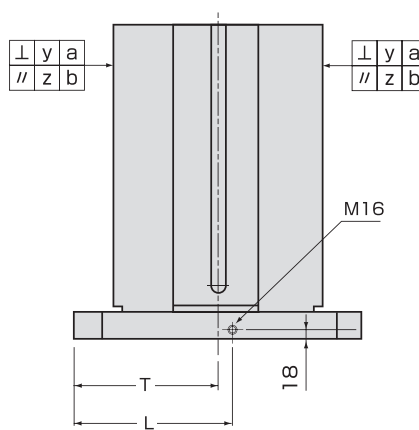
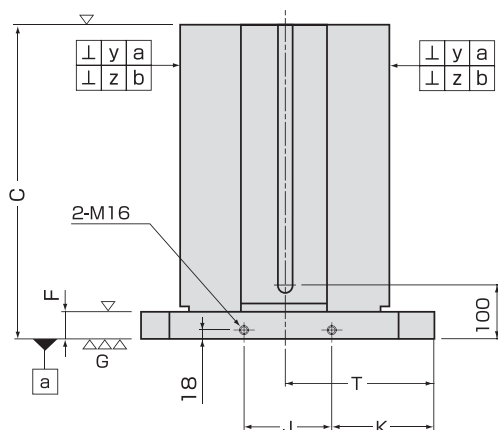
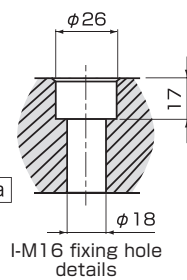
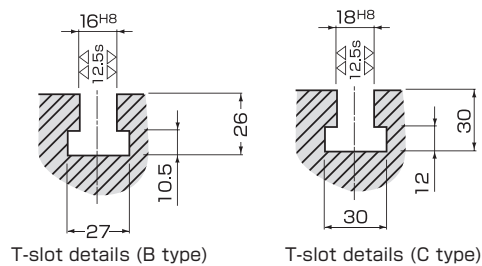
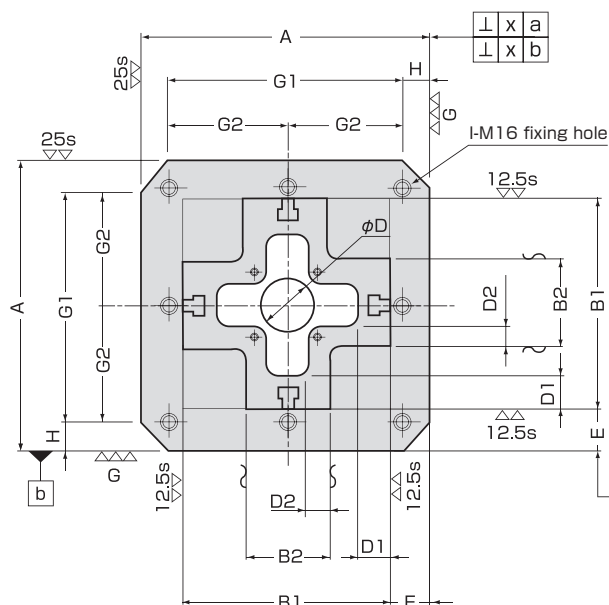
BCT45010C~67025C

► Features

- BCS type (P.212) with T-slots.
- Mechalocks can be fixed by using the T-slots (18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)
Base top side surface : casting

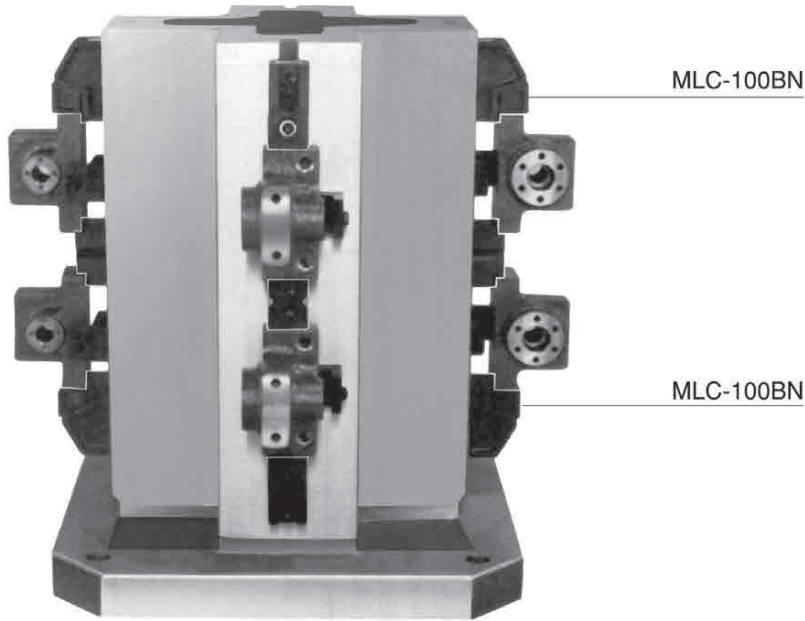
► Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

■ Example of mechalock clamps (MLC) fixed to a cross jig block (BCT)



(the product of the photo is a customized product)

Item No.	Size (mm)									
	A	B1	Size tolerance	B2	C	φD	D1	D2	E	Size tolerance
BCT45010B·C	400	300	301.0±0.2	100	500	70	—	—	50	49.5±0.2
BCT45015B·C	400	300	301.0±0.2	150	500	—	60	40	50	49.5±0.2
BCT56015B·C	500	400	401.0±0.2	150	600	—	60	40	50	49.5±0.2
BCT56020B·C	500	400	401.0±0.2	200	600	—	60	40	50	49.5±0.2
BCT67020B·C	630	450	451.0±0.2	200	700	—	60	40	90	89.5±0.2
BCT67025B·C	630	450	451.0±0.2	250	700	—	60	40	90	89.5±0.2

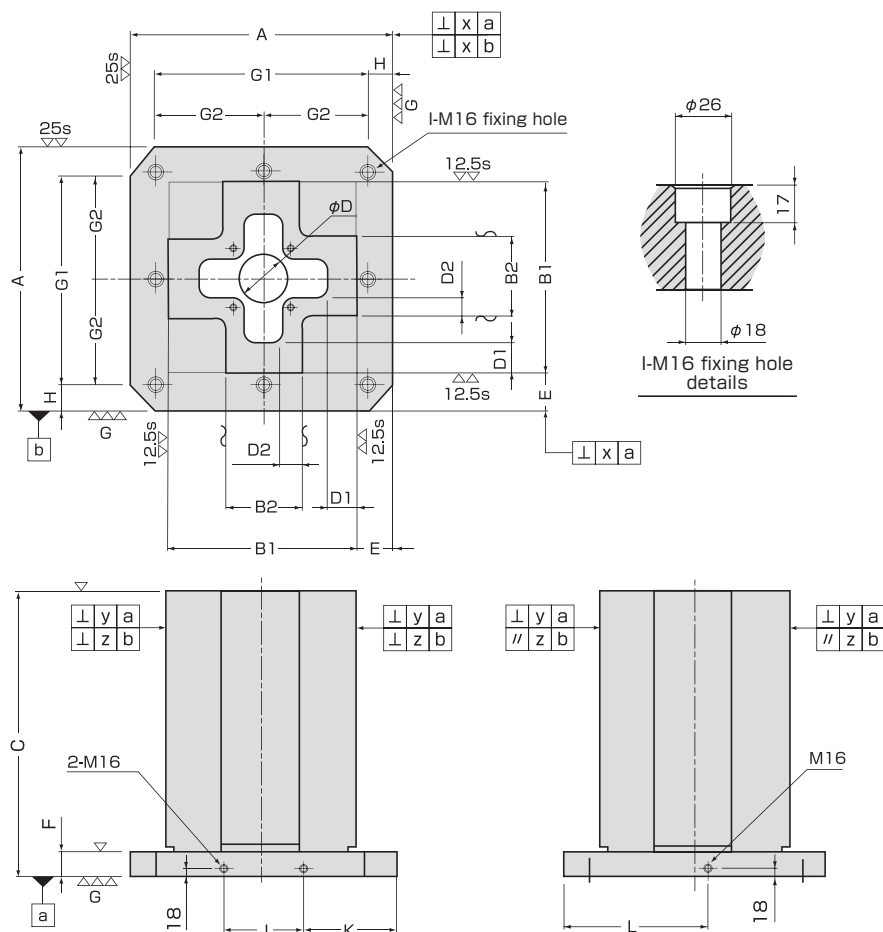
Item No.	Size (mm)												N.W. (kg)
	F	G1	G2	H	I	J	K	L	T	x	y	z	
BCT45010B	50	320	—	40	4 pcs	110	145	225	200±0.05	0.02	0.05	0.03	198
BCT45015B	50	320	—	40	4 pcs	110	145	225	200±0.05	0.02	0.05	0.03	195
BCT56015B	50	400	—	50	4 pcs	150	175	275	250±0.05	0.02	0.05	0.03	318
BCT56020B	50	400	—	50	4 pcs	150	175	275	250±0.05	0.02	0.05	0.03	327
BCT67020B	50	500	250	65	8 pcs	200	215	340	315±0.05	0.02	0.05	0.03	458
BCT67025B	50	500	250	65	8 pcs	200	215	340	315±0.05	0.02	0.05	0.03	470
BCT45010C	50	320	—	40	4 pcs	110	145	225	200±0.05	0.02	0.05	0.03	196
BCT45015C	50	320	—	40	4 pcs	110	145	225	200±0.05	0.02	0.05	0.03	193
BCT56015C	50	400	—	50	4 pcs	150	175	275	200±0.05	0.02	0.05	0.03	315
BCT56020C	50	400	—	50	4 pcs	150	175	275	250±0.05	0.02	0.05	0.03	325
BCT67020C	50	500	250	65	8 pcs	200	215	340	315±0.05	0.02	0.05	0.03	456
BCT67025C	50	500	250	65	8 pcs	200	215	340	315±0.05	0.02	0.05	0.03	468



BCS45010~67025

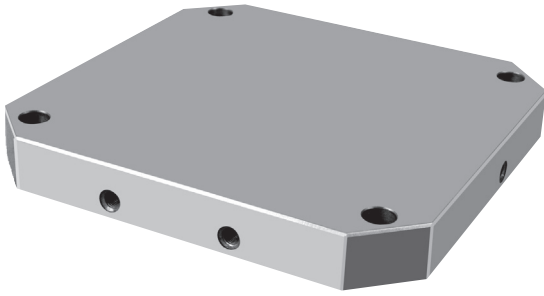
- 3-face process of the work can be done in one chucking.
- Material : FC300
- Heat treatment : Annealing
- Finish : Floor surface / locator surface : grinding finish
Vertical plate surface : machine finish (self cut type)
Base top side surface : casting

- Eye bolt (M16) 2 pcs for lifting



Item No.	Size (mm)									
	A	B1	Size tolerance	B2	C	φD	D1	D2	E	Size tolerance
BCS45010	400	300	301.0±0.2	100	500	70	—	—	50	49.5±0.2
BCS45015	400	300	301.0±0.2	150	500	—	60	40	50	49.5±0.2
BCS56015	500	400	401.0±0.2	150	600	—	60	40	50	49.5±0.2
BCS56020	500	400	401.0±0.2	200	600	—	60	40	50	49.5±0.2
BCS67020	630	450	451.0±0.2	200	700	—	60	40	90	89.5±0.2
BCS67025	630	450	451.0±0.2	250	700	—	60	40	90	89.5±0.2

212



PSS

SUB TABLE FOR MC (Standard Type)

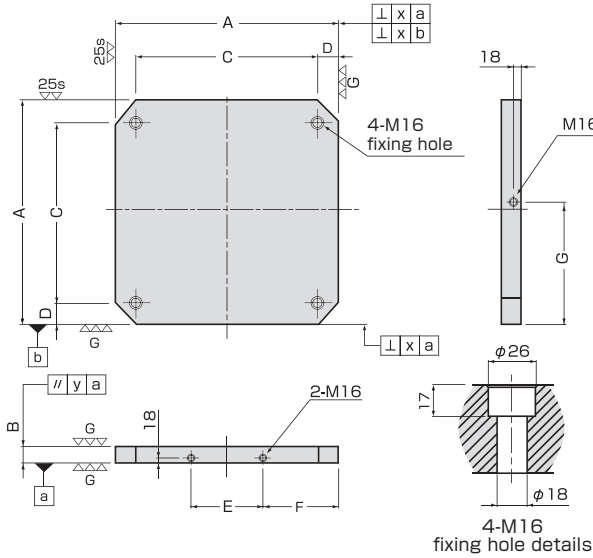
PSS440~650

Feature

- Ideal sub table for MC machine processing jig.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

Upon request, we can provide a product of your required specifications.

Item No.	Size(mm)									N.W. (kg)
	A	B	C	D	E	F	G	x	y	
PSS440	400	40	320	40	110	145	225	0.02	0.015	44
PSS450	400	50	320	40	110	145	225	0.02	0.015	55
PSS540	500	40	400	50	150	175	275	0.02	0.015	70
PSS550	500	50	400	50	150	175	275	0.02	0.015	87
PSS640	630	40	500	65	200	215	340	0.02	0.015	111
PSS650	630	50	500	65	200	215	340	0.02	0.015	139



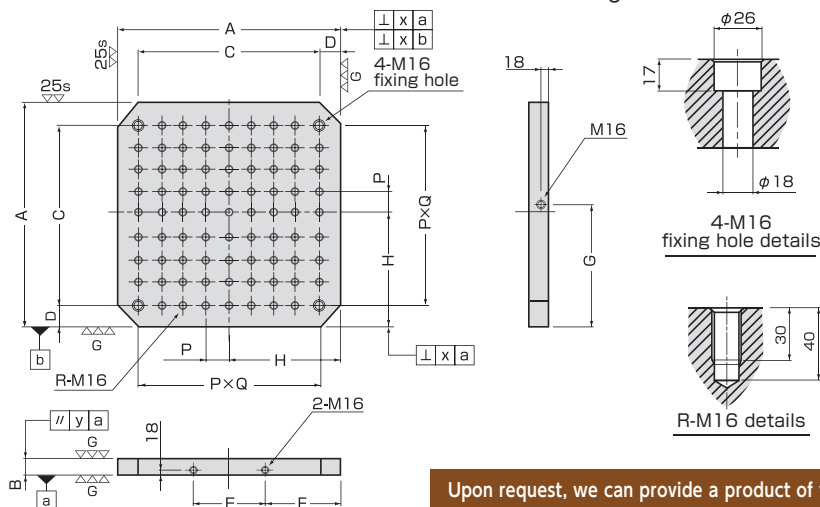
PSH

SUB TABLE FOR MC (Threaded Hole Type 16)

PSH440~650

Feature

- PSS type with threaded holes (for M16 screw) positioned at 50mm pitch.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)													N.W. (kg)
	A	B	C	D	E	F	G	H	P	Q	R	x	y	
PSH440	400	40	320	40	110	145	225	200	50	6	45	0.02	0.015	42
PSH450	400	50	320	40	110	145	225	200	50	6	45	0.02	0.015	53
PSH540	500	40	400	50	150	175	275	250	50	8	77	0.02	0.015	66
PSH550	500	50	400	50	150	175	275	250	50	8	77	0.02	0.015	83
PSH640	630	40	500	65	200	215	340	315	50	10	117	0.02	0.015	105
PSH650	630	50	500	65	200	215	340	315	50	10	117	0.02	0.015	133

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

Mini blocks, mini supports

Clamping tools

Clamps



- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish



Item No.	Size (mm)														N.W. (kg)
	T-slot	A	B	C	D	E	F	G	H	P	Q	x	y	z	
PST470B	16	400	70	320	40	110	145	225	200	80	4	0.02	0.015	0.03	64
PST475B	16	400	75	320	40	110	145	225	200	80	4	0.02	0.015	0.03	70
PST570B	16	500	70	400	50	150	175	275	250	100	4	0.02	0.015	0.03	105
PST575B	16	500	75	400	50	150	175	275	250	100	4	0.02	0.015	0.03	114
PST675B	16	630	75	500	65	200	215	340	315	125	4	0.02	0.015	0.03	187
PST680B	16	630	80	500	65	200	215	340	315	125	4	0.02	0.015	0.03	200
PST890B	16	800	90	640	80	270	265	425	400	160	4	0.02	0.015	0.03	373
PST470C	18	400	70	320	40	110	145	225	200	80	4	0.02	0.015	0.03	61
PST570C	18	500	70	400	50	150	175	275	250	100	4	0.02	0.015	0.03	99
PST680C	18	630	80	500	65	200	215	340	315	125	4	0.02	0.015	0.03	194
PST890C	18	800	90	640	80	270	265	425	400	160	4	0.02	0.015	0.03	364



PSB-A・PSB-B

SUB TABLE FOR MC (Bushing Type 12・16)

PSB440A~640A

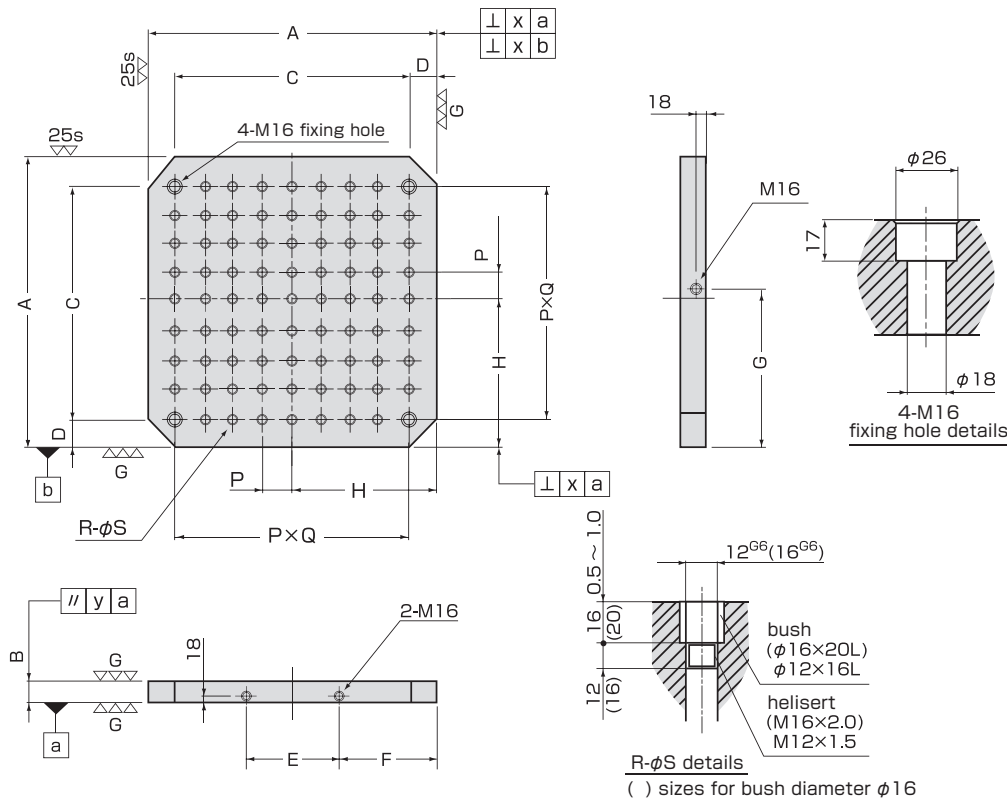
Features

- Bushes and heliserts inserted with 50mm pitch as standard holes.
Standard hole size : $\phi 12\text{mm}$
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

PSB440B~640B

Features

- Bushes and heliserts inserted with 50mm pitch as standard holes.
Standard hole size : $\phi 16\text{mm}$
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)														N.W. (kg)
	A	B	C	D	E	F	G	H	P	Q	R	S	x	y	
PSB440A	400	40	320	40	110	145	225	200	50	6	45	12	0.02	0.015	43
PSB540A	500	40	400	50	150	175	275	250	50	8	77	12	0.02	0.015	67
PSB640A	630	40	500	65	200	215	340	315	50	10	117	12	0.02	0.015	107
PSB440B	400	40	320	40	110	145	225	200	50	6	45	16	0.02	0.015	42
PSB540B	500	40	400	50	150	175	275	250	50	8	77	16	0.02	0.015	65
PSB640B	630	40	500	65	200	215	340	315	50	10	117	16	0.02	0.015	104

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vices

Vacuum chucks

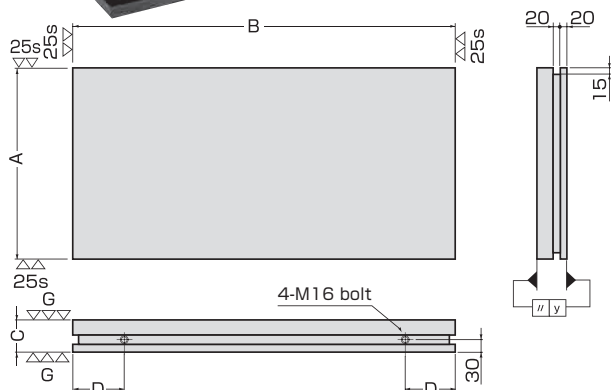
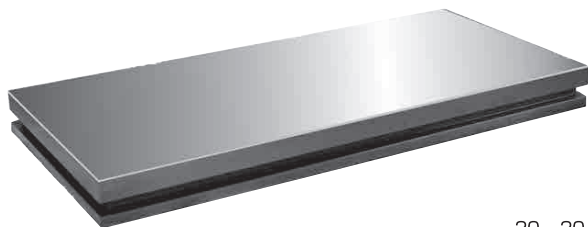
Clamp kits

Screw supports

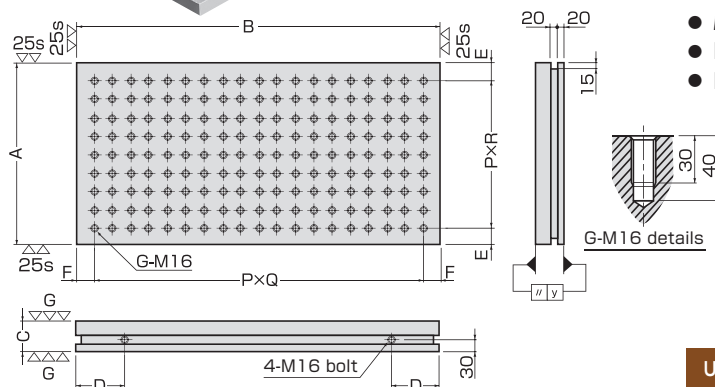
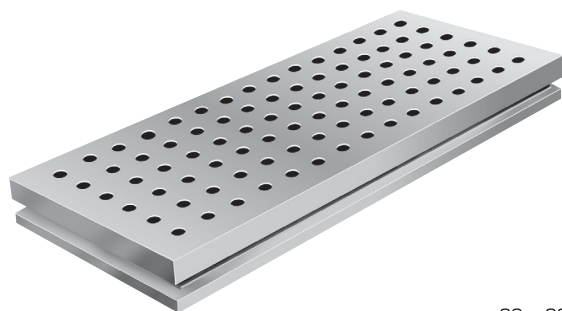
Mini blocks, mini supports

Clamping tools

Clamps



Item No.	Size(mm)					N.W. (kg)
	A	B	C	D	y	
PJS3065	300	650	70	135	0.02	94
PJS3580	350	800	75	135	0.02	146
PJS4190	410	900	75	135	0.02	194
PJS41110	410	1,100	80	135	0.02	253
PJS4590	450	900	75	135	0.02	213
PJS45110	450	1,100	80	135	0.02	279
PJS50100	500	1,000	80	135	0.02	282



Item No.	Size(mm)											N.W. (kg)
	A	B	C	D	E	F	G	P	Q	R	y	
							Number of threaded holes					
PJH3065	300	650	70	135	50	50	60	50	11	4	0.02	91
PJH3580	350	800	75	135	50	50	90	50	14	5	0.02	141
PJH4190	410	900	75	135	30	50	136	50	16	7	0.02	185
PJH41110	410	1,100	80	135	55	50	147	50	20	6	0.02	244
PJH4590	450	900	75	135	50	50	136	50	16	7	0.02	204
PJH45110	450	1,100	80	135	50	50	168	50	20	7	0.02	268
PJH50100	500	1,000	80	135	50	50	171	50	18	8	0.02	271
PJH50110	500	1,100	80	135	50	50	189	50	20	8	0.02	298
PJH55120	550	1,200	80	175	50	50	230	50	22	9	0.02	358
PJH55130	550	1,300	80	175	50	50	250	50	24	9	0.02	388
PJH60120	600	1,200	80	175	50	50	253	50	22	10	0.02	391
PJH60140	600	1,400	90	175	50	50	297	50	26	10	0.02	517
PJH65165	650	1,650	90	225	50	50	384	50	31	11	0.02	661

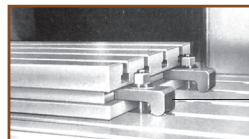
PJS

JIG PLATE (Standard Type)

PJS3065~65165

Feature

- Jig plate for set up that can be used widely from MC machine to general purpose machine.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish



Solid clamp (SC)
for jig plate fixing

Upon request, we can provide a product of your required specifications.

Item No.	Size(mm)					N.W. (kg)
	A	B	C	D	y	
PJS50110	500	1,100	80	135	0.02	310
PJS55120	550	1,200	80	175	0.02	373
PJS55130	550	1,300	80	175	0.02	404
PJS60120	600	1,200	80	175	0.02	407
PJS60140	600	1,400	90	175	0.02	536
PJS65165	650	1,650	90	225	0.02	685

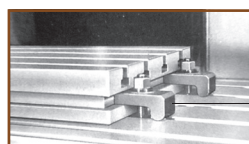
PJH

JIG PLATE (Threaded Hole Type 16)

PJH3065~65165

Feature

- PJS type with threaded holes (for M16 screw) positioned at 50mm pitch.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish



Solid clamp (SC)
for jig plate fixing

Upon request, we can provide a product of your required specifications.



PJT-B•PJT-C

JIG PLATE

(T-slot Type 16•18)

PJT3065B~65165B

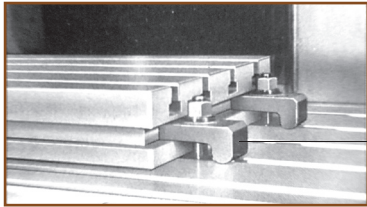
Feature

- PJS type with T-slots (16) in one direction.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

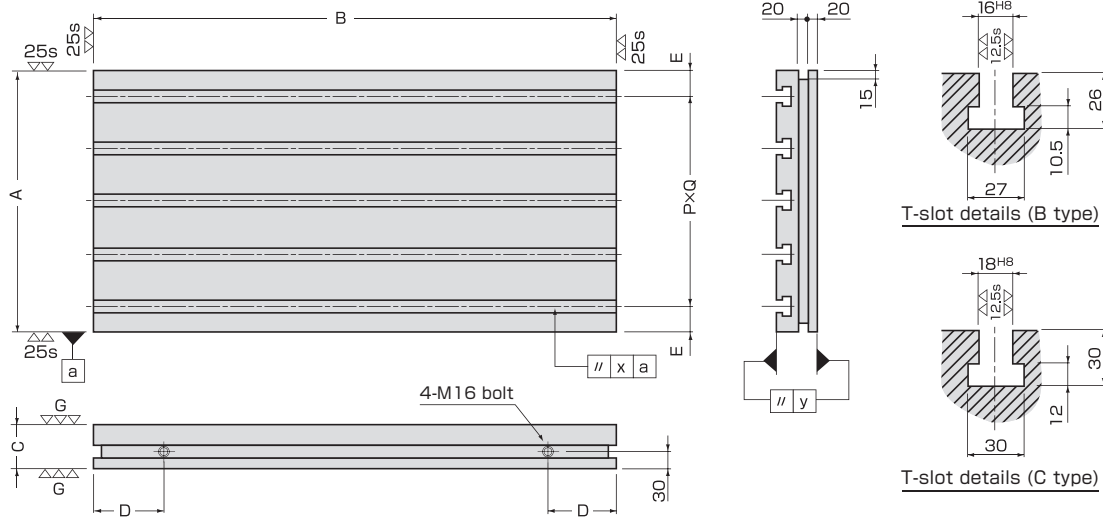
PJT3065C~65165C

Feature

- PJS type with T-slots (18) in one direction.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

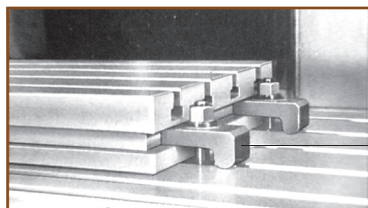


Solid clamp (SC)
for jig plate fixing



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)										N.W. (kg)
	Number of T-slots	A	B	C	D	E	P	Q	x	y	
PJT3065B	3	300	650	70	135	70	80	2	0.03	0.02	87
PJT3580B	4	350	800	75	135	55	80	3	0.03	0.02	134
PJT4190B	5	410	900	75	135	45	80	4	0.03	0.02	177
PJT41110B	5	410	1,100	80	135	45	80	4	0.03	0.02	232
PJT4590B	5	450	900	75	135	65	80	4	0.03	0.02	196
PJT45110B	5	450	1,100	80	135	65	80	4	0.03	0.02	258
PJT50100B	5	500	1,000	80	135	50	100	4	0.03	0.02	263
PJT50110B	5	500	1,100	80	135	50	100	4	0.03	0.02	289
PJT55120B	5	550	1,200	80	175	75	100	4	0.03	0.02	350
PJT55130B	5	550	1,300	80	175	75	100	4	0.03	0.02	379
PJT60120B	5	600	1,200	80	175	50	125	4	0.03	0.02	384
PJT60140B	5	600	1,400	90	175	50	125	4	0.03	0.02	509
PJT65165B	5	650	1,650	90	225	75	125	4	0.03	0.02	654
PJT3065C	3	300	650	70	135	70	80	2	0.03	0.02	85
PJT3580C	4	350	800	75	135	55	80	3	0.03	0.02	131
PJT4190C	5	410	900	75	135	45	80	4	0.03	0.02	172
PJT41110C	5	410	1,100	80	135	45	80	4	0.03	0.02	226
PJT4590C	5	450	900	75	135	65	80	4	0.03	0.02	191
PJT45110C	5	450	1,100	80	135	65	80	4	0.03	0.02	252
PJT50100C	5	500	1,000	80	135	50	100	4	0.03	0.02	257
PJT50110C	5	500	1,100	80	135	50	100	4	0.03	0.02	283
PJT55120C	5	550	1,200	80	175	75	100	4	0.03	0.02	343
PJT55130C	5	550	1,300	80	175	75	100	4	0.03	0.02	372
PJT60120C	5	600	1,200	80	175	50	125	4	0.03	0.02	378
PJT60140C	5	600	1,400	90	175	50	125	4	0.03	0.02	501
PJT65165C	5	650	1,650	90	225	75	125	4	0.03	0.02	645


Solid clamp (SC)
for jig plate fixing

PJTC-B • PJTC-C

JIG PLATE (Cross T-slot Type 16 • 18)

PJTC3065B~65165B

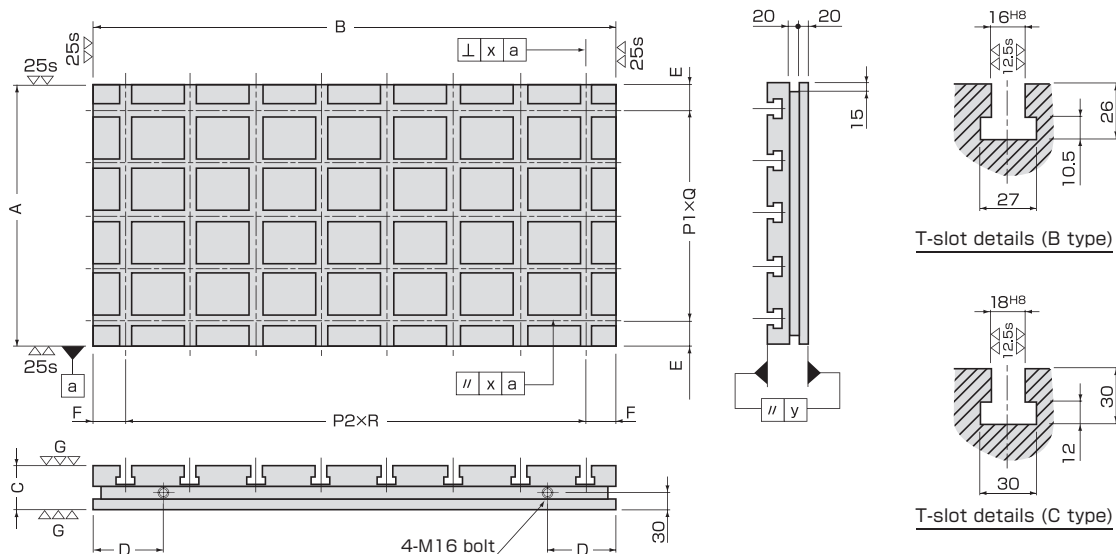
Feature

- PJS type with crossed T-slots (16).
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

PJTC3065C~65165C

Feature

- PJS type with crossed T-slots (18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

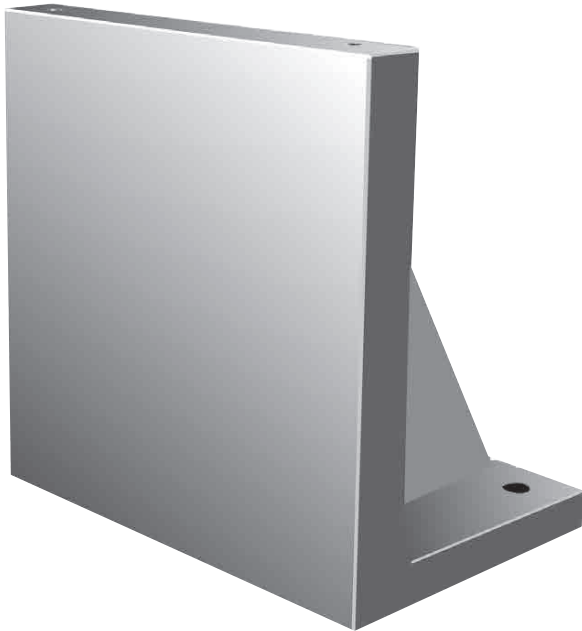


T-slot details (B type)

T-slot details (C type)

Upon request, we can provide a product of your required specifications.

Item No.	Number of T-slots A × B directions	Size (mm)												N.W. (kg)
		A	B	C	D	E	F	P1	Q	P2	R	x	y	
PJTC3065B	6×3	300	650	70	135	70	75	80	2	100	5	0.03	0.02	82
PJTC3580B	7×4	350	800	75	135	55	100	80	3	100	6	0.03	0.02	127
PJTC4190B	8×5	410	900	75	135	45	100	80	4	100	7	0.03	0.02	167
PJTC41110B	7×5	410	1,100	80	135	45	100	80	4	150	6	0.03	0.02	224
PJTC4590B	8×5	450	900	75	135	65	100	80	4	100	7	0.03	0.02	185
PJTC45110B	8×5	450	1,100	80	135	65	112.5	80	4	125	7	0.03	0.02	247
PJTC50100B	8×5	500	1,000	80	135	50	62.5	100	4	125	7	0.03	0.02	251
PJTC50110B	7×5	500	1,100	80	135	50	100	100	4	150	6	0.03	0.02	279
PJTC55120B	8×5	550	1,200	80	175	75	75	100	4	150	7	0.03	0.02	336
PJTC55130B	8×5	550	1,300	80	175	75	125	100	4	150	7	0.03	0.02	366
PJTC60120B	8×5	600	1,200	80	175	50	75	125	4	150	7	0.03	0.02	369
PJTC60140B	9×5	600	1,400	90	175	50	100	125	4	150	8	0.03	0.02	492
PJTC65165B	8×5	650	1,650	90	225	75	125	125	4	200	7	0.03	0.02	637
PJTC3065C	6×3	300	650	70	135	70	75	80	2	100	5	0.03	0.02	78
PJTC3580C	7×4	350	800	75	135	55	100	80	3	100	6	0.03	0.02	122
PJTC4190C	8×5	410	900	75	135	45	100	80	4	100	7	0.03	0.02	160
PJTC41110C	7×5	410	1,100	80	135	45	100	80	4	150	6	0.03	0.02	216
PJTC4590C	8×5	450	900	75	135	65	100	80	4	100	7	0.03	0.02	178
PJTC45110C	8×5	450	1,100	80	135	65	112.5	80	4	125	7	0.03	0.02	239
PJTC50100C	8×5	500	1,000	80	135	50	62.5	100	4	125	7	0.03	0.02	242
PJTC50110C	7×5	500	1,100	80	135	50	100	100	4	150	6	0.03	0.02	270
PJTC55120C	8×5	550	1,200	80	175	75	75	100	4	150	7	0.03	0.02	326
PJTC55130C	8×5	550	1,300	80	175	75	125	100	4	150	7	0.03	0.02	355
PJTC60120C	8×5	600	1,200	80	175	50	75	125	4	150	7	0.03	0.02	359
PJTC60140C	9×5	600	1,400	90	175	50	100	125	4	150	8	0.03	0.02	480
PJTC65165C	8×5	650	1,650	90	225	75	125	125	4	200	7	0.03	0.02	624



APS • APS-S

ANGLE PLATE FOR MC (Standard Type)

APS4040~6363

Feature

- Angle plate with wide versatility that enables processing such as T-slot and tapping hole.
- Material : FC300
- Heat treatment : Annealing
- Finish : Machine finish (self cut type)

Accessories

- Eye bolt (M16) 2 pcs for lifting

APS4040S~6363S

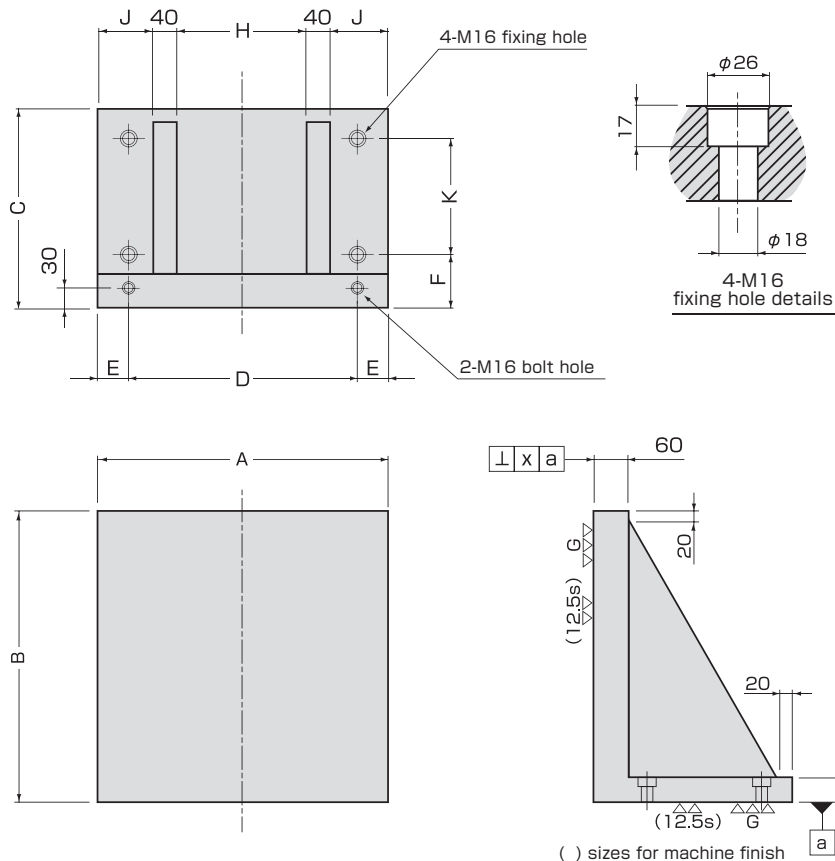
Feature

- Angle plate with wide versatility that enables processing such as T-slot and tapping hole.

- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size(mm)										N.W. (kg)
	A	B	C	D	E	F	H	J	K	x	
APS4040	400	400	290	320	40	90	160	80	160	0.05	100
APS5050	500	500	340	400	50	90	220	100	200	0.05	156
APS6363	630	630	390	500	65	90	290	130	250	0.05	244
APS4040S	400	400	290	320	40	90	160	80	160	0.02	100
APS5050S	500	500	340	400	50	90	220	100	200	0.02	156
APS6363S	630	630	390	500	65	90	290	130	250	0.02	244

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

Mini blocks,
mini supports

Clamping tools

Clamps



APH•APH-S

ANGLE PLATE FOR MC (Threaded Hole Type 16)

APH4040~6363

Feature

- APS type with threaded holes (for M16 screw) positioned at 50mm pitch.
- Material : FC300
- Heat treatment : Annealing
- Finish : Machine finish (self cut type)

Accessories

- Eye bolt (M16) 2 pcs for lifting

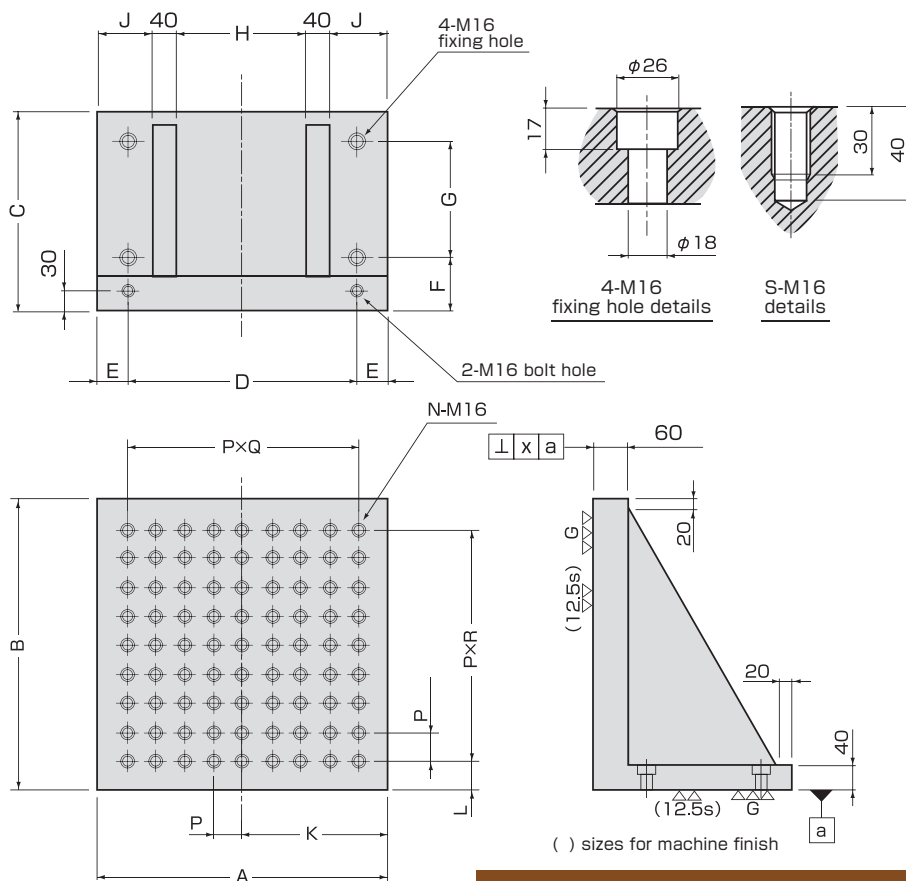
APH4040S~6363S

Feature

- APS-S type with threaded holes (for M16 screw) positioned at 50mm pitch.
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)														N	x	N.W. (kg)
	A	B	C	D	E	F	G	H	J	K	L	P	R	Q			
	Number of threaded holes																
APH4040	400	400	290	320	40	90	160	160	80	200	50	50	6	6	49	0.05	98
APH5050	500	500	340	400	50	90	200	220	100	250	50	50	8	8	81	0.05	152
APH6363	630	630	390	500	65	90	250	290	130	315	65	50	10	10	121	0.05	238
APH4040S	400	400	290	320	40	90	160	160	80	200	50	50	6	6	49	0.02	98
APH5050S	500	500	340	400	50	90	200	220	100	250	50	50	8	8	81	0.02	152
APH6363S	630	630	390	500	65	90	250	290	130	315	65	50	10	10	121	0.02	238



APT-B · APT-C · APT-BS · APT-CS

■ ANGLE PLATE FOR MC (T-slot Type 16·18)

APT4040B·C~APT6363B·C

► Feature

- APS type with T-slots (16·18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Machine finish (self cut type)

► Accessories

- Eye bolt (M16) 2 pcs for lifting

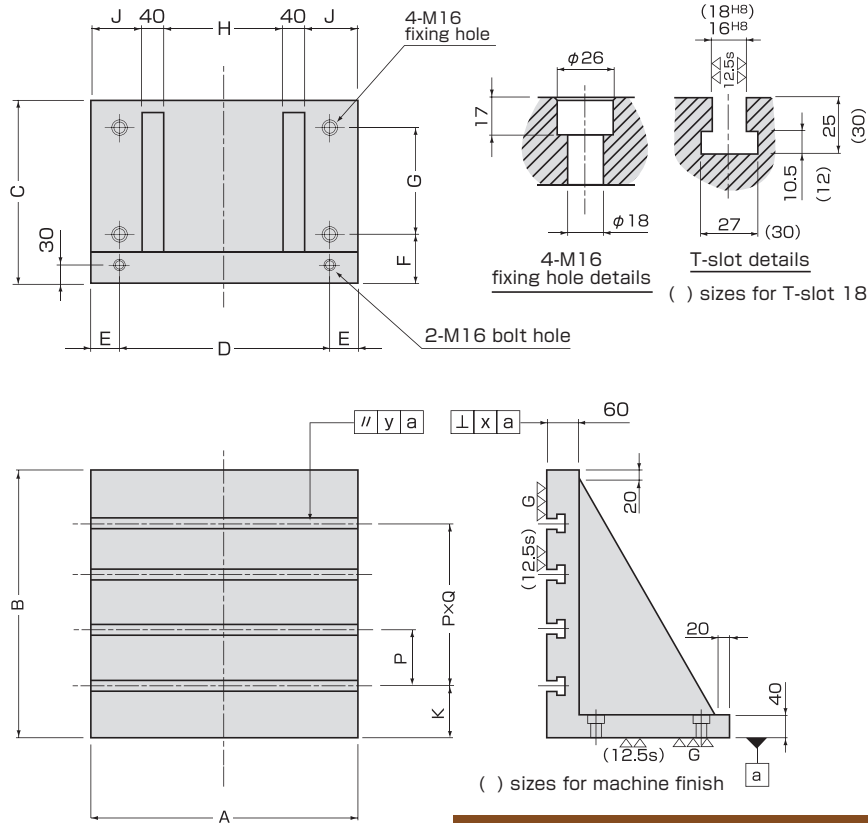
APT4040BS·CS~APT6363BS·CS

► Feature

- APS-S type with T-slots (16·18).
- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

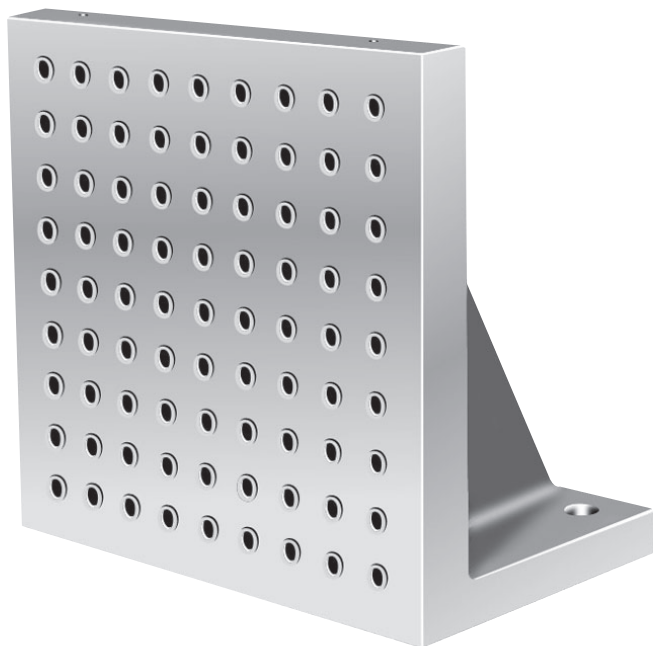
► Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size(mm)																N.W. (kg)
	T-slot	Number of T-slots	A	B	C	D	E	F	G	H	J	K	P	Q	x	y	
APT4040B	16	4	400	400	290	320	40	90	160	160	80	80	80	3	0.05	0.05	94
APT5050B	16	4	500	500	340	400	50	90	200	220	100	100	100	3	0.05	0.05	149
APT6363B	16	5	630	630	390	500	65	90	250	290	130	130	100	4	0.05	0.05	232
APT4040C	18	4	400	400	290	320	40	90	160	160	80	80	80	3	0.05	0.05	92
APT5050C	18	4	500	500	340	400	50	90	200	220	100	100	100	3	0.05	0.05	146
APT6363C	18	5	630	630	390	500	65	90	250	290	130	130	100	4	0.05	0.05	228
APT4040BS	16	4	400	400	290	320	40	90	160	160	80	80	80	3	0.02	0.05	94
APT5050BS	16	4	500	500	340	400	50	90	200	220	100	100	100	3	0.02	0.05	149
APT6363BS	16	5	630	630	390	500	65	90	250	290	130	130	100	4	0.02	0.05	232
APT4040CS	18	4	400	400	290	320	40	90	160	160	80	80	80	3	0.02	0.05	92
APT5050CS	18	4	500	500	340	400	50	90	200	220	100	100	100	3	0.02	0.05	146
APT6363CS	18	5	630	630	390	500	65	90	250	290	130	130	100	4	0.02	0.05	228



APB-AS・APB-BS

ANGLE PLATE FOR MC (Bushing Type 12・16)

APB4040AS・BS～6363AS・BS

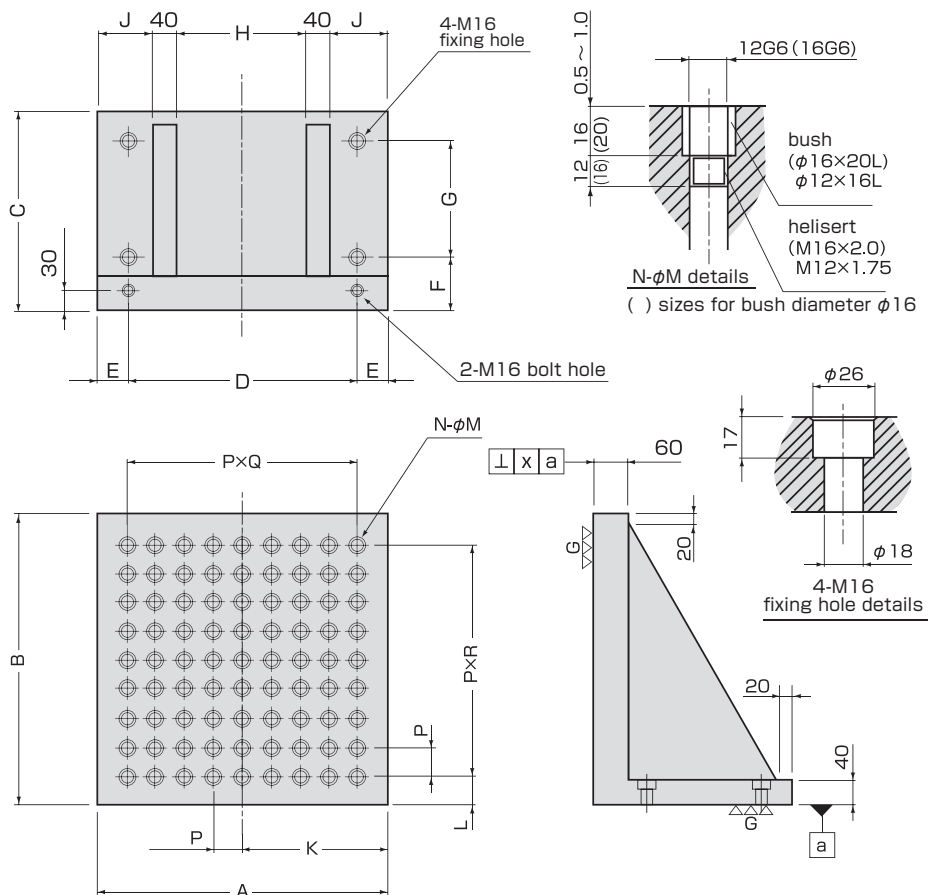
Features

- APS-S type with bushes and heliserts inserted with 50mm pitch as standard holes.
- Standard hole size : $\phi 12 \cdot 16$ mm

- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

Accessories

- Eye bolt (M16) 2 pcs for lifting



Upon request, we can provide a product of your required specifications.

Item No.	Size (mm)																N.W. (kg)	
	A	B	C	D	E	F	G	H	J	K	L	M	P	R	Q	N		x
																Number of threaded holes		
APB4040AS	400	400	290	320	40	90	160	160	80	200	50	12	50	6	6	49	0.02	99
APB5050AS	500	500	340	400	50	90	200	220	100	250	50	12	50	8	8	81	0.02	154
APB6363AS	630	630	390	500	65	90	250	290	130	315	65	12	50	10	10	121	0.02	240
APB4040BS	400	400	290	320	40	90	160	160	80	200	50	16	50	6	6	49	0.02	98
APB5050BS	500	500	340	400	50	90	200	220	100	250	50	16	50	8	8	81	0.02	151
APB6363BS	630	630	390	500	65	90	250	290	130	315	65	16	50	10	10	121	0.02	237

JAT-C • JAT-D • JAT-E

■ LARGE ANGLE PLATE FOR MC (T-slot Type 18•22•24)

► Feature

- For large machines such as MC machines, jig borers.

- Material : FC300
- Heat treatment : Annealing
- Finish : Machine finish

► Accessories

- Eye bolt (M16) 2 pcs for lifting

JAT8040C•10050C

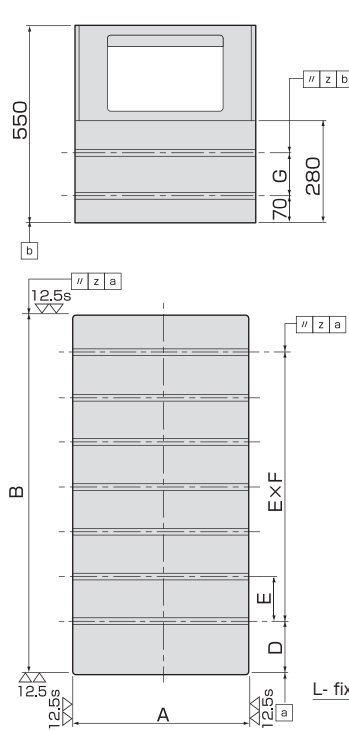
- T-slots (18)



(the product on the photo is a special order product)

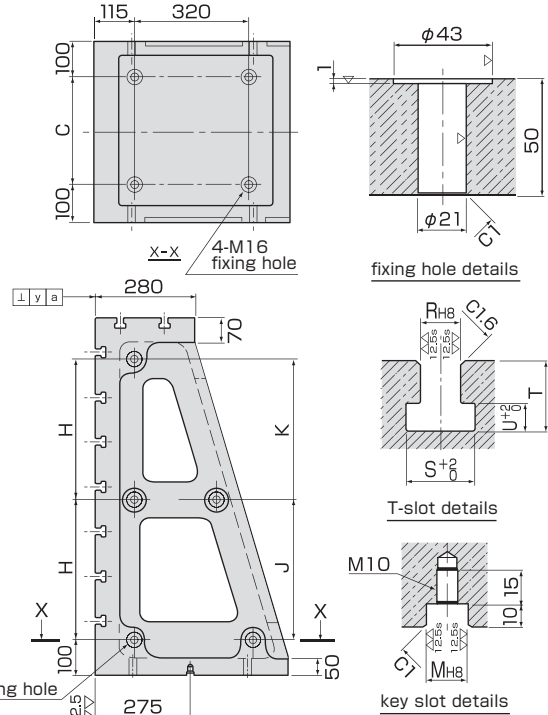
JAT8040D•10050D

- T-slots (22)



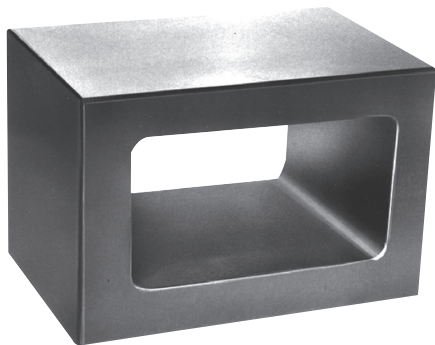
JAT8040E•10050E

- T-slots (24)



Upon request, we can provide a product of your required specifications.

Item No.	Size(mm)																			N.W. (kg)
	A	B	C	D	E	F	Number of T-slots	G	H	J	K	L	M	R	S	T	U	γ	z	
JAT8040C	400	800	200	125±0.05	125±0.03	5	8	125±0.03	—	470	110	8	18	18	30	30	12	0.05	0.03	337
JAT8040D	400	800	200	125±0.05	150±0.03	4	7	150±0.03	—	470	110	8	22	22	37	38	16	0.05	0.03	365.1
JAT8040E	400	800	200	125±0.05	150±0.03	4	7	150±0.03	—	470	110	8	24	24	42	42	18	0.05	0.03	344.8
JAT10050C	500	1,000	300	150±0.05	125±0.03	6	9	125±0.03	390	390	390	10	18	18	30	30	12	0.05	0.03	481
JAT10050D	500	1,000	300	150±0.05	150±0.03	5	8	150±0.03	390	390	390	10	22	22	37	38	16	0.05	0.03	437.2
JAT10050E	500	1,000	300	150±0.05	150±0.03	5	8	150±0.03	390	390	390	10	24	24	42	42	18	0.05	0.03	439.6



SB-S

■ SETTING BLOCK FOR MC (Standard Type)

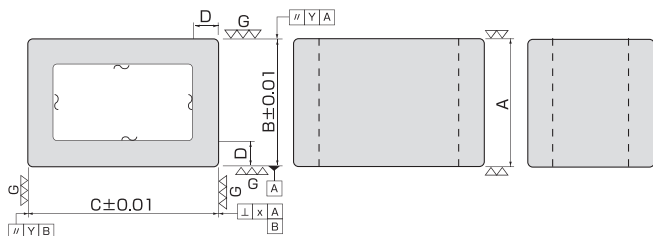
SB100S~200S

► Feature

- Widely used block for built-in jigs, parallel bases, measurements and scribe markings.

- Material : FC300
- Heat treatment : Annealing
- Finish : Grinding finish

Upon request, we can provide a product of your required specifications.



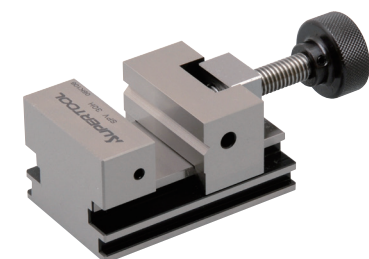
Item No.	Size(mm)						N.W. (kg)
	A	B	C	D	X	Y	
SB100S	100	100	150	20	0.01	0.01	7
SB125S	125	125	200	25	0.015	0.01	14.5
SB150S	150	150	250	30	0.02	0.01	26
SB200S	200	150	300	30	0.02	0.01	37.5

SPV-(H)

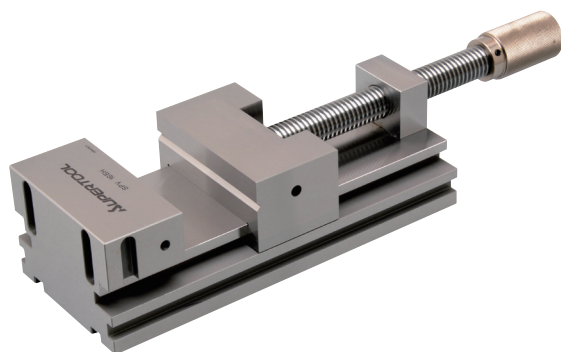
PRECISION VISE

Features

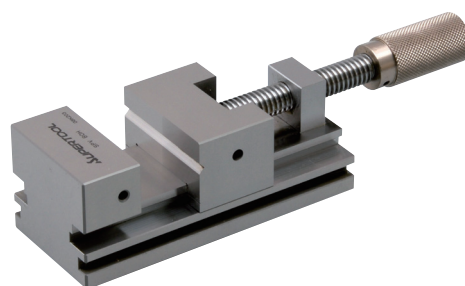
- Precision vise for ultra-precision processing with high finish accuracy.
- For a wide range of processing such as grinding, cutting, boring, etc.
- V shaped groove (G) for spherical workpiece processing, positioned at a movable jaw horizontally or vertically and horizontally (SPV80~150).
- With sub-zero treatment, the secular change is minimal.
- * Use vise clamps (see P.246) to fix the workpiece to a machine table.
- Material / Hardness : SKS3•60HRC
- Parallelism tolerance : within 0.002/100mm
- Squareness tolerance : within 0.005/100mm



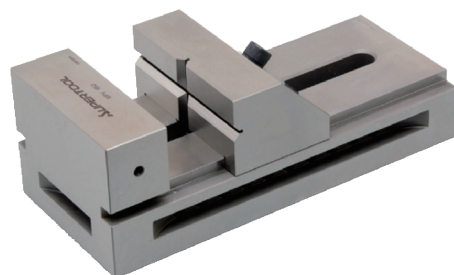
SPV30H



SPV165H

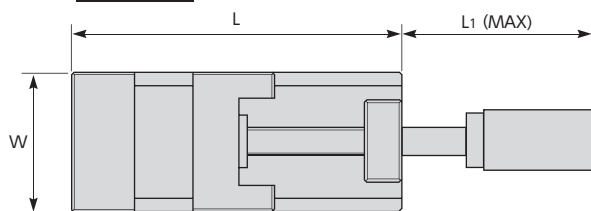


SPV80H•120H

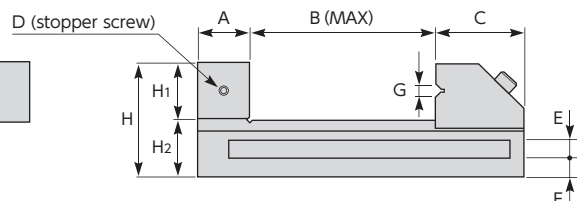
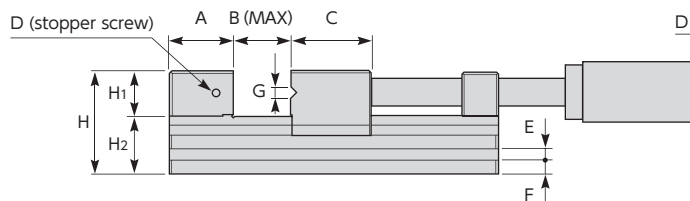
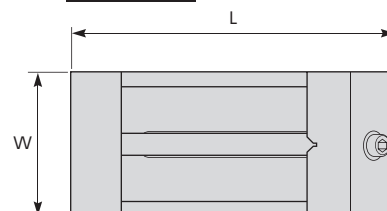


SPV80 ~ 150

★ Handle type



★ Wrench type



Item No.	Torque capacity (kN)	Size(mm)													Included wrench	N.W. (kg)
		L	L1	H	H1	H2	W	A	B	C	D	E (width x depth)	F	G		
SPV30H	5	95	53	50	25	25	60	25	30	30	M5	6×4	4.5	6(90°)	—	1.8
SPV80H	8	165	138	62	30	32	70	33	80	45	M6	7×7	9	6(90°)	—	4
SPV120H	8	212	183	80	40	40	90	40	120	50	M6	8.8×7	9	6(90°)	—	8.1
SPV165H	10	300	248	90	40	50	125	60	165	70	M8	11×7	12	7(90°)	10	18
SPV80	8	160	—	62	30	32	70	33	80	45	M6	8×7	9	6(90°)	5	3
SPV115	10	212	—	80	40	40	90	40	115	55	M6	10×7	12	6(90°)	5	6.6
SPV150	12	285	—	100	50	50	125	45	150	78	M8	14×12.5	18	11.5(90°)	10	15

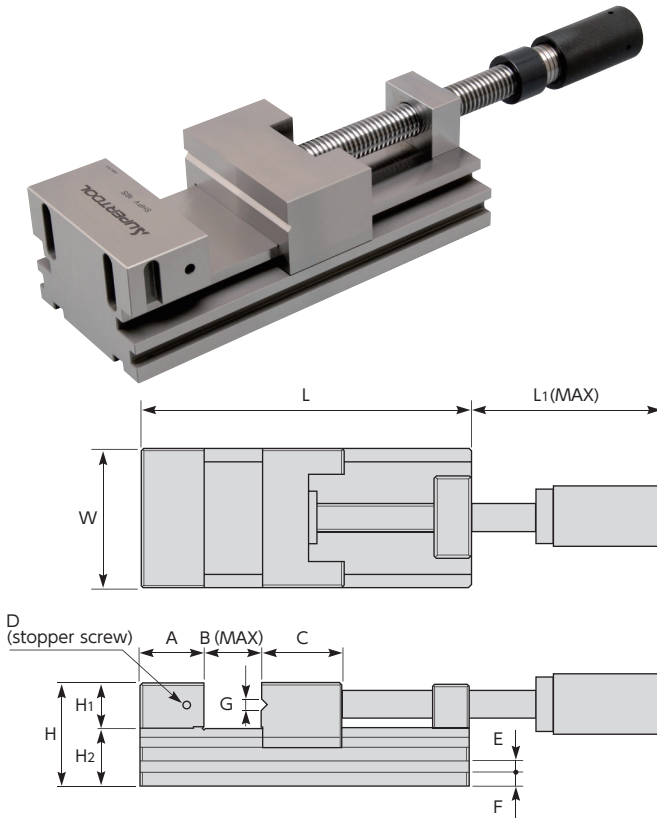
SHPV165

HYDRAULIC PRECISION VISE

Features

- Hydraulic vise for ultra-precision processing with high finish accuracy.
- For a wide range of processing such as grinding, cutting, boring, etc.
- V shaped groove (G) for spherical workpiece processing, positioned at a movable jaw horizontally.
- With sub-zero treatment, the secular change is minimal.
- * Use vise clamps (see P.246) to fix the workpiece to a machine table.

- Material / Hardness : SKS3-60HRC
- Parallelism tolerance : within 0.002/100mm
- Squareness tolerance : within 0.005/100mm



Item No.	Torque capacity (kN)	Size(mm)												N.W. (kg)	
		L	L1	H	H1	H2	W	A	B	C	D	E (width × depth)	F		G
SHPV165	15	300	284	90	40	50	125	60	165	70	M8	11×7	12	7(90°)	18

SVAG12

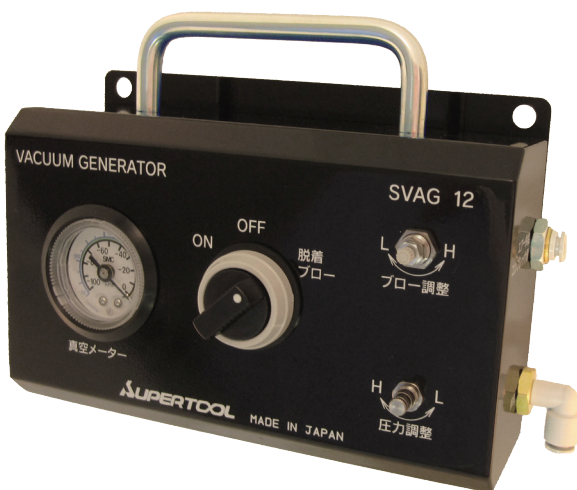
VACUUM GENERATOR

Features

- Light-weight and compact.
- Built-in pressure reduction valve and chuck.
- Air pressure controllable type.
- Working with a conventional compressor.
- Easy setting just by connecting to a vacuum plate (not included).

Accessories

- 2-layer tube (approx. 1.5mm)
- Single layer tube (approx. 0.5mm)
- Coupler with one touch valve (1 pc)



Item No.	Depth × width × length (mm)	Max. vacuum volume (L/min)	Max. vacuum pressure (kPa)	Input pressure from compressor (MPa)	Max. air consumption (L/min)	Recommended workpiece surface roughness	N.W. (kg)
SVAG12	approx. 80×222×160	12	-88	0.5~0.7	30 (with input pressure of 0.6MPa per hour)	min. 3.2Ra	1.7

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

Mini blocks, mini supports

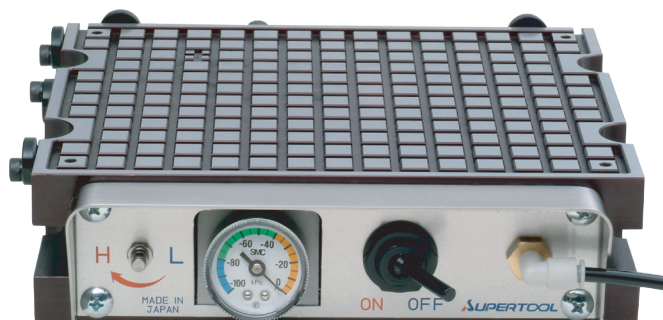
Clamping tools

Clamps

SVA

VACUUM CHUCK

MOVIE



SVA2025

- * Caution : The max. air consumption is approx. 0.6Mpa of input pressure. The max. vacuum capacity is a theoretical value. The practical value shall be considered as approx. 80% of the theoretical value. The vacuum capacity of one grid at max. vacuum pressure is approx. 8kN. This value varies depending on the size so it shall be considered as a rough indication.
- The vacuum capacity is proportional to the vacuum pressure and the surface size, but the surface shape, roughness or distortion may decrease the vacuum capacity. Recommended surface roughness : min. 3.2Ra

Features

- Instantly suck and fix a workpiece with air from a compressor. Working with processing machines such as machining centers or abrasive machines.
 - As a vacuum ejector is equipped, no vacuum pump is required.
 - Easy start just by connecting tube for one-touch valve to a compressor in your factory.
 - Air suction is ideal for non-magnetic materials such as stainless steel, aluminum or resin.
 - When the valve is off, a small quantity of air flows out of a 1mm diameter vacuum hole to prevent any foreign material from entering the air circuit.
 - As most of the parts are behind the front panel, maintenance and part replacement are easy.
 - The built-in pressure reduction valve allows an economical use saving air consumption and valve adjustment.
 - It is possible to combine 2 units thanks to the holes for hexagon bolts at both sides of each unit.
- * Use solid clamps (see P.246) to fix the workpiece to a machine table.

Accessories

- Neolon foam band (black), approx. 2 perimeters length.
- Silicon rubber (white), approx. 1 perimeter length.
- 2-layer tube for one-touch valve, 0.5m
- Coupler with one-touch valve, 1 pc

Specifications

- Material : FC300
- Pressure from compressor (MPa) : 0.5~0.7MPa
- Max. vacuum pressure : -88kPa

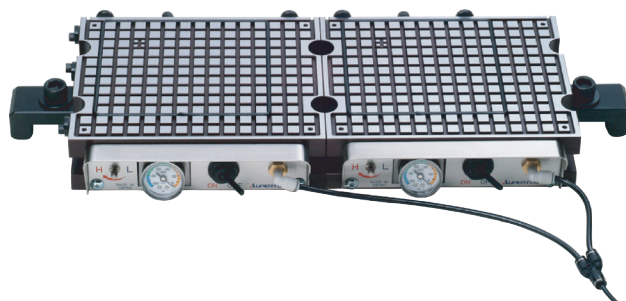
Item No.	Size (mm)	Max. vacuum capacity (kN)	Number of grid slots	Max. air consumption (L/min)	Max. loading (kg)	N.W. (kg)
SVA2025	200×250×65	1.31	172	30	24	9
SVA2540	250×400×65	2.84	352	60	50	19
SVA3035	300×350×65	2.99	370	60	50	20
SVA3560	350×600×65	6.16	748	100	100	40

Combined use (semi-custom made)

- To connect the 2 units, use standard hex. bolts and washers.
- Applicable hex. bolt size : M16 or below
- Applicable washer : small flat washer (diameter 30) for M16 or below.

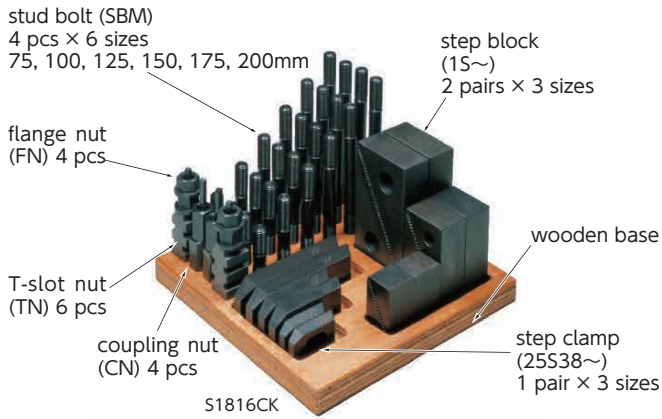
Maintenance

- Remove the 4 screws of the front panel and pull out the panel for easy maintenance.
- You can also put the unit upside down and remove the rear lid.

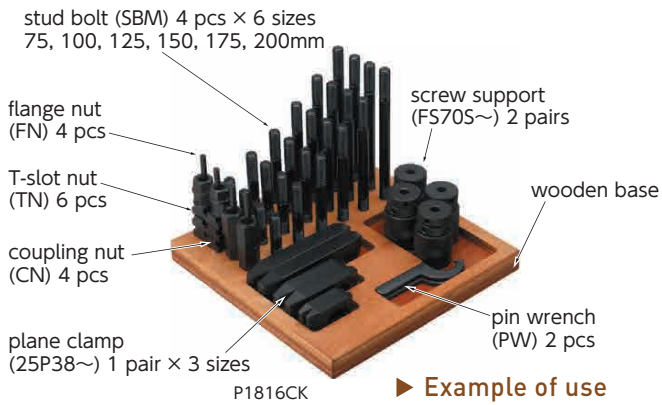


Examples of processing

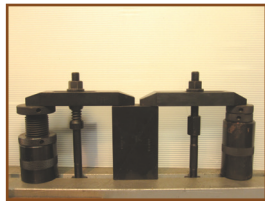
	1	2	3	4
Processed material	MC nylon	Stainless steel SUS304	Aluminum A5052	Stainless steel SUS304
Processing equipment	Machining center	Machining center	Machining center	Flat surface abrasive machine
Processing type	Groove processing	Front surface shaving	Shoulder milling	Flat surface abrasion
Processing tool	φ4 end mill	φ80 face mill	φ33 shoulder mill	—
RPM (min ⁻¹)	2,400	1,000	1,500	—
Forwarding (mm/min)	200	500	400	—
Grinding depth	3.5mm	0.5mm	2mm(depth 10)	3μm



Item No.	Table slot	Stud bolt	TS set	Step clamp 1 pair × 3 sizes	Step block 2 pairs × 3 sizes	Set N.W. (kg)
S1008CK	10	8	1008TS	25S38	1S 2S 3S	6.25
S1210CK	12	10	1210TS	40S38		7.05
S1410CK	14	10	1410TS	60S38		7.26
S1412CK	14	12	1412TS	25S12		8.63
S1612CK	16	12	1612TS	40S12		8.7
S1614CK	16	14	1614TS	60S12		9.9
S1814CK	18	14	1814TS	25S58	4S 5S 6S	10.1
S1816CK	18	16	1816TS	40S58		11.75
				60S58		



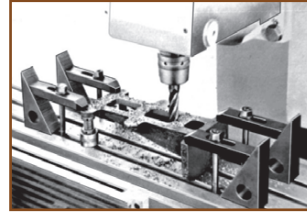
Example of use



S-CK•-CK

STEP CLAMP KIT

Example of use



Item No.	Table slot	Stud bolt	TS set	Step clamp 1 pair × 3 sizes	Step block 2 pairs × 3 sizes	Set N.W. (kg)
1612CK	16	12	1612TS	25S12	4S 5S 6S	15.3
1614CK	16	14	1614TS	40S12		15.5
1814CK	18	14	1814TS	60S12		15.5
1816CK	18	16	1816TS	25S58		18.1
2016CK	20	16	2016TS	40S58		18.2
2018CK	20	18	2018TS	60S58		22.35
2218CK	22	18	2218TS	40S34	80S34	22.5
2220CK	22	20	2220TS	60S34		24.45

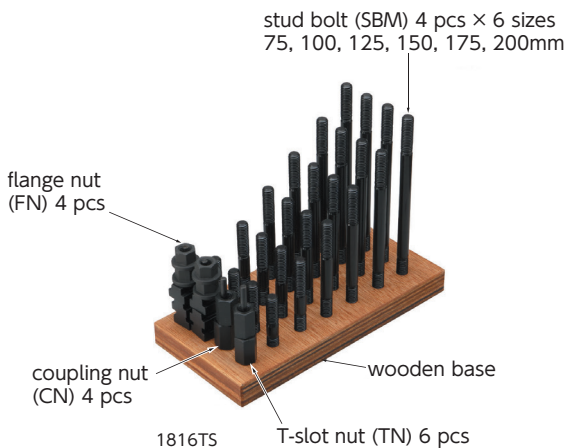
P-CK

PLANE CLAMP KIT

Item No.	Table slot	Stud bolt	TS set	Plane clamp 1 pair × 3 sizes	Screw support 2 pairs	Pin wrench 2 pcs	Set N.W. (kg)
P1210CK	12	10	1210TS	25P38 40P38 60P38	FS70S	PW355	6.92
P1412CK	14	12	1412TS	25P12 40P12 60P12			8.58
P1614CK	16	14	1614TS	25P58 40P58 60P58			11.36
P1816CK	18	16	1816TS	25P58 40P58 60P58	FS100S	PW406	13.16
P2016CK	20	16	2016TS	40P34 60P34 80P34			13.25
P2018CK	20	18	2018TS				18.08
P2220CK	22	20	2220TS				19.76

-TS

T-NUT, STUD SET



Item No.	Table slot	Stud bolt	T-slot nut	Flange nut	Coupling nut	Set N.W. (kg)
1008TS	10	8	1008TN	8MFN	8MCN	2
1210TS	12	10	1210TN	10MFN	10MCN	2.75
1410TS	14	10	1410TN	10MFN	10MCN	2.95
1412TS	14	12	1412TN	12MFN	12MCN	3.9
1612TS	16	12	1612TN	12MFN	12MCN	3.95
1614TS	16	14	1614TN	14MFN	14MCN	5
1814TS	18	14	1814TN	14MFN	14MCN	5.2
1816TS	18	16	1816TN	16MFN	16MCN	6.9
2016TS	20	16	2016TN	16MFN	16MCN	6.95
2018TS	20	18	2018TN	18MFN	18MCN	8.45
2218TS	22	18	2218TN	18MFN	18MCN	8.6
2220TS	22	20	2220TN	20MFN	20MCN	10.25
2420TS	24	20	2420TN	20MFN	20MCN	10.3

SCREW SUPPORT FOR LARGE MACHINES, LONG STROKE TYPE

Ideal for workpieces used in large machines or clamp support.

- Ideal also for preventing chattering during cutting operation.
- The lock screw (with lock piece) that locks the forcing screw helps avoiding screw loosening.

MOVIE ▶

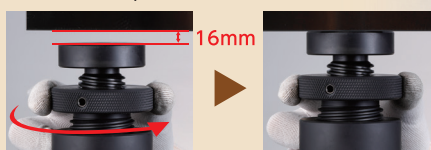


For the New Products page, see **P.5**

3 ADVANTAGES!

1 QUICK ADJUSTING

As the screw includes double thread and reverse screws, with one turn of the middle male screw the support can be quickly raised (lowered) by 16mm.



2 LESS HEAVY WEIGHT

The use of aluminum for the main body allows 25% net weight reduction (compared to our conventional models) and makes it carriable by hand (for FS500LS).



3 EXTENDABLE

By connecting a joint support FSJ200 (sold separately), the height can be raised by 200mm each. Up to 2 joint supports can be added!

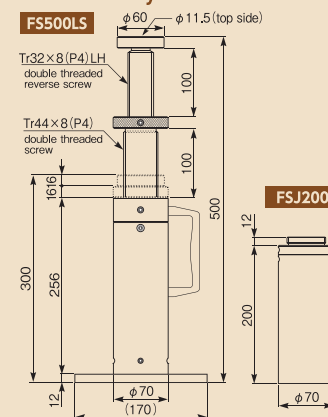
FSJ200 ▶



► Example of use



► Main body size (mm)



► Accessories

Hex key wrench (3mm, 4mm) 2 pcs included.

■ Screw support for large machines, long stroke type

Item No.	Stroke (mm)	Guaranteed load (kN)	N.W. (kg)
FS500LS	300~500	150	5.5

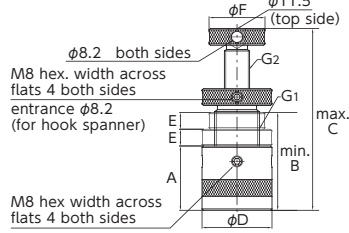
■ Joint support

Item No.	Full length (mm)	Allowable load(kN)		N.W. (kg)
		For 1 joint support added	For 2 joint supports added	
FSJ200	200	120 (full length 500~700)	100 (full length 700~900)	1.6



FS130LS

- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish



Example of use



FS-LS

SCREW SUPPORT, Long Stroke Type (a Pair) PAT.

MOVIE



Features

- Ideal for supporting heavy workpieces, adjusting clamp height and for preventing chattering during cutting operation.
- A middle screw has been added to create a long stroke (1.5 to 2 times longer than our conventional models).
- With conventional items, when the male screw is turned while there is a workpiece supported, scratches to the workpiece or misalignment could occur. But this item innovative design solves this problem with the use of a middle male screw.
- As the upper and lower screws have same direction with different pitch, middle male screw adjustment can be fine-tuned with light force.
- The lock screw (with lock piece) that locks the forcing screw helps avoiding screw loosening.
- For corrugated surfaces or irregular shaped workpiece, use screw support tips.

Accessories

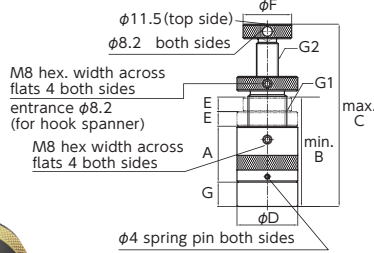
- Hex key wrench, 1 pc (size 4mm)

Item No.	Size (mm)							Allowable load (kN)	Pin wrench for upper screw	Pin wrench for middle / main body	N.W. (kg) (a pair)
	A	Stroke B~C	D	E	F	G1	G2				
FS80LS	26	50~80	50	12	40	Tr32×3	Tr18×2	80	PW406	PW508	1.2
FS130LS	46	70~130	50	12	40	Tr32×3	Tr18×2	80	PW406	PW508	1.6
FS200LS	68	100~200	60	16	50	Tr40×4	Tr25×3	150	PW508	HW105A	3.6
FS300LS	108	140~300	60	16	50	Tr40×4	Tr25×3	150	PW508	HW105A	5.0

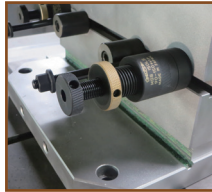


MSS150LS

- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish



Example of use



MSS-LS

MAGNETIC SCREW SUPPORT, Long Stroke Type (a Pair) PAT.

MOVIE



Features

- Ideal for supporting heavy workpieces, adjusting clamp height and for preventing chattering during cutting operation.
- A middle screw has been added to create a long stroke (1.5 to 2 times longer than our conventional models).
- With conventional items, when the male screw is turned while there is a workpiece supported, scratches to the workpiece or misalignment could occur. But this item innovative design solves this problem with the use of a middle male screw.
- As the upper and lower screws have same direction with different pitch, middle male screw adjustment can be fine-tuned with light force.
- The lock screw (with lock piece) that locks the forcing screw helps avoiding screw loosening.
- For corrugated surfaces or irregular shaped workpiece, use screw support tips.
- The magnet built-in at the bottom of the body makes it possible to use the screw support not only horizontally but also vertically.

Accessories

- Hex key wrench, 1 pc (size 4mm)

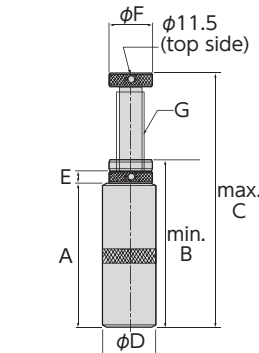
Item No.	Size (mm)							Allowable load (kN)	Pin wrench for upper screw	Pin wrench for middle / main body	N.W. (kg) (a pair)
	A	Stroke B~C	D	E	F	G1 (30° trapezoidal thread)	G2 (30° trapezoidal thread)				
MSS90LS	26	60~ 90	50	12	40	Tr32×3	Tr18×2	80	PW406	PW508	1.32
MSS150LS	46	90~150							PW406	PW508	2.00
MSS220LS	68	120~220	60	16	50	Tr40×4	Tr25×3	150	PW508	HW105A	3.94
MSS310LS	108	150~310							PW508	HW105A	5.02



FS100S

- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

Example of use



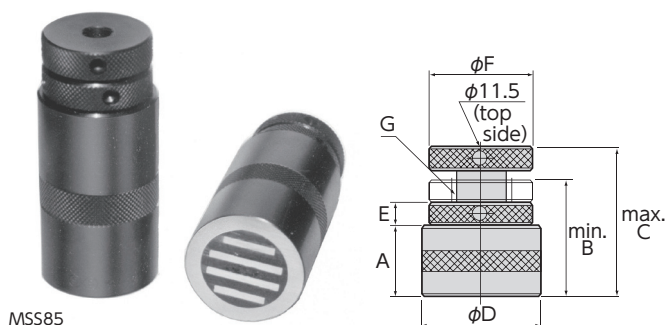
FS-S

SCREW SUPPORT (a Pair)

Feature

- For corrugated surfaces or irregular shaped workpiece, use screw support tips.

Item No.	Size (mm)						Allowable load (kN)	Applicable pin wrench	N.W. (kg) (a pair)
	A	Stroke B~C	D	E	F	G			
FS50S	21	37~50	40	8	35	Tr20×3	80	PW355	0.56
FS70S	32	50~70	40	9	35	Tr20×3	80	PW355	0.78
FS100S	46	70~100	45	12	40	Tr20×3	80	PW406	1.47
FS150S	76	100~150	50	12	45	Tr25×4	150	PW457	2.65
FS250S	120	150~250	60	15	50	Tr32×5	200	PW508	5.64
FS300S	170	200~300	60	15	50	Tr32×5	200	PW508	7.17



MSS85

Item No.	Size (mm)						Allowable load (kN)	Applicable pin wrench	N.W. (kg) (a pair)
	A	Stroke B~C	D	E	F	G			
MSS50	24	40~50	45	8	35	Tr18×2	80	PW355	0.74
MSS65	34	50~65	45	8	35	Tr18×2	80	PW355	0.95
MSS85	49	65~85	45	8	35	Tr20×3	80	PW355	1.03
MSS110	63	85~110	45	11	40	Tr25×4	150	PW406	1.65
MSS165	85	110~165	50	12.5	45	Tr25×4	150	PW457	2.72
MSS265	135	165~265	60	15	50	Tr32×5	200	PW508	6.23

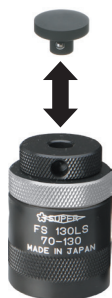
90° tip
(tip steel ball : $\phi 6.35$)

Spherical tip
(spherical surface : SR25)

Swivel tip
(inclination : 8°, hemisphere : $\phi 19.05$)


SSTS

SSTP



SSTA • SSTR • SSTS • SSTP

TIP FOR SCREW SUPPORT

Features

- Screw support tip applicable to all kinds of work.
- With the ball plunger included, the tip doesn't come off easily.

Item No.	Main body material	Applicable screw support	Size (mm)			N.W. (g)
			Tip external diameter	Tip head height	Dowel (dia. x length)	
SSTA	S45C (40~45HRC)	FS50S~300S	25	18	$\phi 11 \times 10$	50
SSTR		MSS50~265		10		38
SSTS		FS80LS~300LS		16		58
SSTP	Polyacetal	MSS90LS~310LS FS500LS	30	8		10

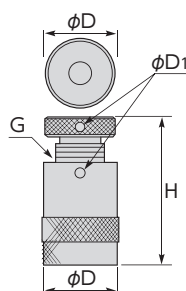
FS

SCREW SUPPORT (Plane Type)

Feature

- Setting the steel ball on the upper plate enables reduced friction with the work and smoother adjustment with light force.
- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

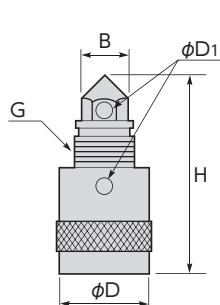
FS60



Item No.	Size (mm)				Allowable load (kN)	N.W. (kg)
	H stroke	D	D1	G		
FS30	30~40(10)	40	6.2	TM25×3	40	0.25
FS40	40~50(10)	49		TM32×3	60	0.47
FS50	50~62(12)	49			80	0.65
FS60	60~78(18)	49			100	0.73
FS80	80~105(25)	63	8.2	TM40×4	160	1.6

Item No.	Size (mm)				Allowable load (kN)	N.W. (kg)
	H stroke	D	D1	G		
FS90	90~125(35)	63	8.2	TM40×4	160	1.8
FS100	100~145(45)	63			160	1.9
FS130	130~200(70)	63			160	2.6
FS160	160~260(100)	63			160	3.2

FJ60



- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

FJ

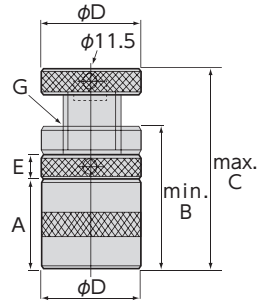
SCREW SUPPORT (Centering Type)

Feature

- Convenient for centering operations, especially for work with unevenly processed objects.

Item No.	Size (mm)					Allowable load (kN)	N.W. (kg)
	H stroke	D	D1	B hex width across flats	G		
FJ60	75~ 93(18)	49	6.2	24	TM32×3	100	0.7
FJ80	100~125(25)	63	6.2	30	TM40×4	160	1.6
FJ100	120~165(45)	63	8.2	30		160	1.9

FS-P



- Material : S45C
- Heat treatment :
Quenched 35~47HRC
- Finish : Black finish

FS-P

SCREW JACK FOR PRESSING MACHINE

Feature

- The upper plate (ϕD) is larger for pressing machine. (FS70P comes without lock nuts.)

Item No.	Size (mm)					Allowable load (kN)	N.W. (kg)
	A	Stroke B~C	D	E	G		
FS70P	40	50~70	60	—	Tr40×4	400	0.97
FS100P	46	70~100	60	12	Tr40×4	400	1.4
FS150P	70	100~150	70	15	Tr44×4	600	2.75
FS200P	100	150~200	80	25	Tr52×4	800	5.2

CB

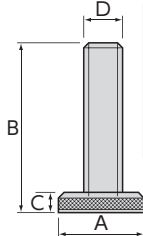
RECEIVING SCREW

Feature

- Receiving screw for strap clamps TPS, U-clamps TPU, uni-clamps FPB-B, FGB.

Item No.	Size (mm)				N.W. (g)
	A	B	C	D	
CB40	28	60	8	M12-1.75	75
CB50	30	70	10	M16-2	120
CB60	36	80	12	M18-2.5	200
CB70	50	130	15	M20-2.5	460

CB



Example of use



- Material : S45C
- Finish : Black finish

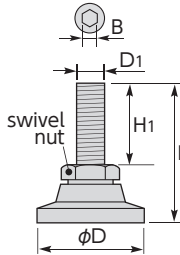
FR

SCREW SUPPORT (Screw Type)

Features

- Ideal for using with uni-clamps (FGB, FPB-B).
- The spherical bag-shaped swivel nut enables an inclination up to 6° in front, back, left and right directions.

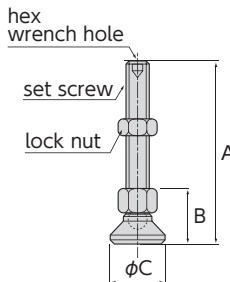
FR12



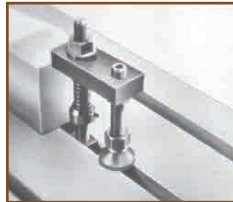
- Material : S45C
- Heat treatment :
Quenched 35~47HRC
- Finish : Black finish

Item No.	Applicable main body item No.		Size (mm)					Allowable load (kN)	N.W. (g)
			H	H1	D	D1 screw dia.	B hex width across flats		
FR10	—	FPB10B	48	31	35	M10	5	11	80
FR12	FGB12	FPB12B	60	40	40	M12	6	16	117
FR16	FGB16	FPB16B	78	53	50	M16	8	28	240
FR20	FGB20	FPB20B	94	64	60	M20	10	37	445

CHS



Example of use



- Material : S45C
- Finish : Black finish

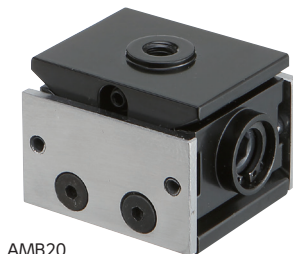
CHS

CLAMP HEEL STUD WITH SWIVEL PAD

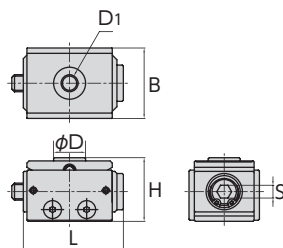
Features

- Receiving screw with swivel pad for strap clamps TPS, U-clamps TPU, uni-clamps FPB-B, FGB.
- The swivel pad has an inclination up to 20° in front, back, left and right directions.

Item No.	Bolt size	Set screw	Size (mm)				Allowable load (kN)	N.W. (g)
			A	B	C	Hole hex width across flats		
CHS3000	10-P1.5	M10-80	95	25	28	5	11	96
CHS4000	12-P1.75	M12-80	100	30	32	6	16	147
CHS5000	14-P2	M14-80	105	36	36	6	22	218
CHS6000	16-P2	M16-100	125	40	40	8	28	324
CHS7000	18-P2.5	M18-100	130	45	50	8	33	453
CHS8000	20-P2.5	M20-100	142	57	60	10	37	693



AMB20



AMB

■ ADJUSTABLE MINI BLOCK

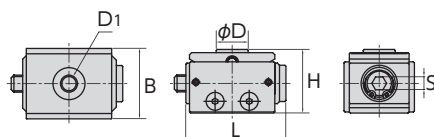
► Features

- Ideal for preventing chattering at processing and for centering.
- The low height makes it applicable to spaces lower than 30mm for which screw support cannot fit.
- As it can be operated from the side, it can also be used in deep spaces.
- Large jack capacity even with small size.

► Accessories

- Hex key wrench

Item No.	Size (mm)						Tightening torque (N·m)	Jack capacity (kN)	N.W. (kg)
	H	L	D	D1	S	B			
AMB20	20~26	37.0	10	M5	4	28	6.9	8	0.12
AMB26	26~35	53.5	15	M8	6	33	28.0	16	0.24



AMB-M

■ ADJUSTABLE MINI BLOCK (Magnetic Type)

► Features

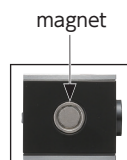
- Ideal for preventing chattering at processing and for centering.
- The low height makes it applicable to spaces lower than 30mm for which screw support cannot fit.
- As it can be operated from the side, it can also be used in deep spaces.
- Large jack capacity even with small size.
- Thanks to its magnets (AMB20M : 1 pc, AMB26M : 2 pcs), its position doesn't move with vibrations.

► Accessories

- Hex key wrench



AMB20M



► Example of use



Item No.	Size (mm)						Tightening torque (N·m)	Jack capacity (kN)	Magnet holder	N.W. (kg)
	H	L	D	D1	S	B				
AMB20M	20~26	37.0	10	M5	4	28	6.9	8	MH10	0.12
AMB26M	26~35	53.5	15	M8	6	33	28.0	16		0.24

SMS

■ SPRING MINI SUPPORT PAT.

► Features

- Ideal for preventing chattering at processing with the built-in spring.
- Support the workpiece naturally without deforming it.
- Can be used either as special jig for low spaces or for general use.
- The spring can be adjusted either from above or below.
- The electroless nickel plating treatment allows greater surface hardness and anti-corrosion capacity.
- Base fixing screw holes (2 spots) : M4 for SMS18, M6 for SMS30 (magnet (sold separately) can also be fixed)

► Accessories

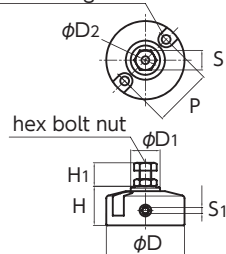
- Hex key wrench



SMS18

- Shaft material : SK3 (hardness : 60HRC)

2-D3 bolt fixing hole



Item No.	Size (mm)									Hex bolt nut	N.W. (kg)
	H	H1	D	D1	D2	D3	S	S1	P		
SMS18	18~23	8~12	40	15	3.5	M4	10	3	30	M6×12	0.15
SMS30	30~38	11~16	50	18	4.6	M6	13	4	36	M8×15	0.40

SMS-M

■ SPRING MINI SUPPORT (MAGNETIC TYPE) PAT.

► Features

- Ideal for preventing chattering at processing with the built-in spring.
- Support the workpiece naturally without deforming it.
- Can be used either as special jig for low spaces or for general use.
- The spring can be adjusted either from above or below.
- The electroless nickel plating treatment allows greater surface hardness and anti-corrosion capacity.
- Thanks to its magnets (2 pcs), its position doesn't move with vibrations.
- Base fixing screw holes (2 spots) : M4 for SMS18, M6 for SMS30

► Accessories

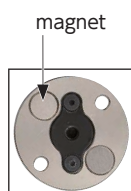
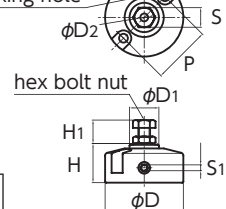
- Hex key wrench



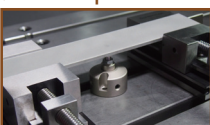
SMS18M

- Shaft material : SK3 (hardness : 60HRC)

2-D3 bolt fixing hole



► Example of use



Item No.	Size (mm)									Hex bolt nut	Magnet holder	N.W. (kg)
	H	H1	D	D1	D2	D3	S	S1	P			
SMS18M	18~23	8~12	40	15	3.5	M4	10	3	30	M6×12	MH10	0.15
SMS30M	30~38	11~16	50	18	4.6	M6	13	4	36	M8×15	MH13	0.40

S

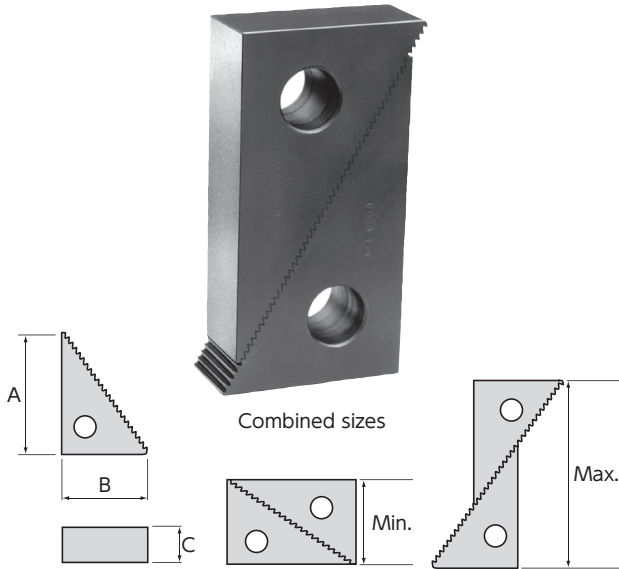
STEP BLOCK (a Pair)

Feature

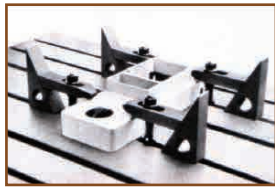
- The racks of all blocks are unified and designed to engage in any combination among 1S – 9S.
- Material : S45C
- Heat treatment : Quenched 30~35HRC
- Finish : Black finish

Item No.	Type	Size (mm)					N.W.(kg) (a pair)
		A	B	C	Combined size		
					Min.	Max.	
1S	Standard	29	18	25	19	46	0.11
2S		45	27	25	28	68	0.27
3S		98	57	25	58	150	1
4S	Medium	59	35	38	36	90	0.62
5S		98	57	38	58	150	1.59
6S		140	81	38	82	210	3.09
7S	Heavy	59	35	50	36	90	0.84
8S		98	57	50	58	150	2.1
9S		140	81	50	82	210	4.02

Item No.	Mating size (a)	Number of mating teeth (b)	Safety strength (kN)
1S	24.375	10	132
	11.000	5	66
2S	40.375	16	210
	19.200	8	105
3S	93.505	35	462
	24.600	17	224
4S	54.605	21	417
	24.375	10	198
5S	93.505	35	694
	45.000	17	338
6S	135.775	50	990
	65.800	25	495
7S	54.605	21	555
	24.600	10	266
8S	93.505	35	926
	45.000	17	446
9S	135.775	50	1325
	65.800	25	662



Example of use



Combination of step clamp and step block



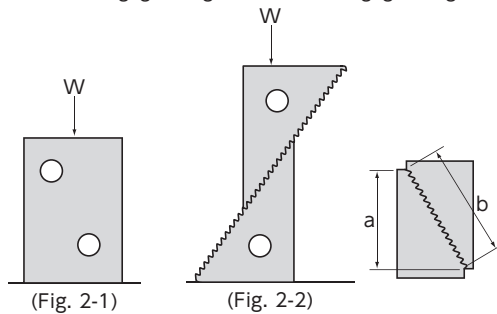
Min. (height)



Max. (height)

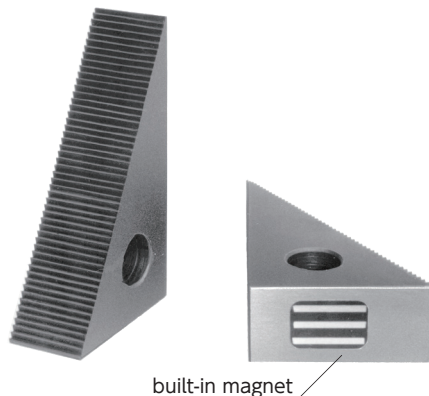
Step block safety strength

The table on the right shows the safety strength against a load when the teeth are 100% engaged (Fig. 2-1) or 50% engaged (Fig. 2-2).

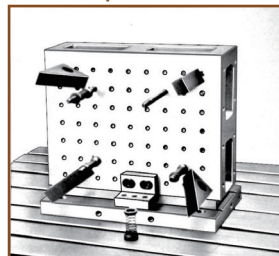


(Fig. 2-1)

(Fig. 2-2)



Example of use



M-S

MAGNETIC STEP BLOCK (a Pair)

Features

- The racks of all blocks are unified and designed to engage in any combination among 1S – 9S.
- The magnet built-in at the bottom of the body makes it possible to use the step block not only horizontally but also vertically.
- Material : S45C
- Heat treatment : Quenched 30~35HRC
- Finish : Black finish

Item No.	Type	Size (mm)					Allowable load (kN)	N.W. (kg) (a pair)
		A	B	C	Combined size			
					Min.	Max.		
M1S	Standard	29	18	25	19	46	132	0.1
M4S	Medium	59	35	38	36	90	417	0.6
M5S		98	57	38	58	150	694	1.57
M7S	Heavy	59	35	50	36	90	555	0.83
M8S		98	57	50	58	150	926	2
M9S		139	81	50	82	210	1325	4

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

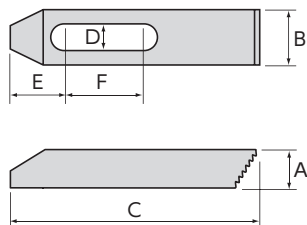
Mini blocks, mini supports

Clamping tools

Clamps



60S58

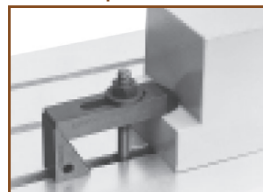


25S-•40S-•60S-•80S-•10S- STEP CLAMP (a Pair)

► Feature

- The combination with a step block simplifies height adjustment.
- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

► Example of use



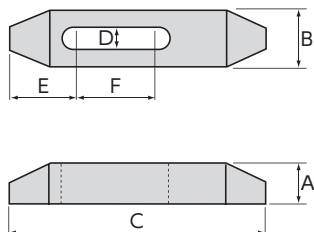
◀ Combination of step clamp and step block

Item No.	Size (mm)						Applicable bolt	N.W. (kg) (a pair)
	A	B	C	D	E	F		
25S38	12	25	63	10.6	18	19	M10	0.19
40S38	16	25	100	10.6	25	38		0.44
60S38	19	30	150	10.6	30	50		0.97
25S12	12	32	63	14.2	20	14	M12 M14	0.19
40S12	19	32	100	14.2	28	32		0.65
60S12	22	32	150	14.2	32	50		1.36
25S58	16	32	63	17	22	12	M16	0.31
40S58	19	38	100	17	31	26		0.8

Item No.	Size (mm)						Applicable bolt	N.W. (kg) (a pair)
	A	B	C	D	E	F		
60S58	22	38	150	17	34	48	M16	1.42
40S34	19	38	100	21	31	28	M18 M20	0.71
60S34	25	38	150	21	38	44		1.5
80S34	25	50	200	21	40	65		2.87
60S10	30	50	150	25	43	38	M22 M24	2.4
80S10	32	50	200	25	50	58		3.47
10S10	38	50	250	25	52	76		5.2



40P12

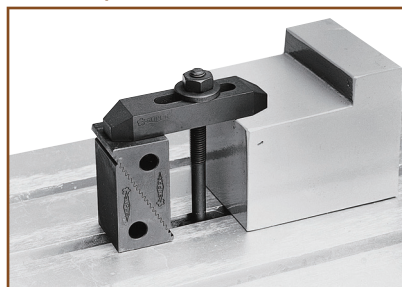


25P-•40P-•60P-•80P-•10P- PLANE CLAMP (a Pair)

► Feature

- Convenient for usage with step block and screw support.
- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

► Example of use



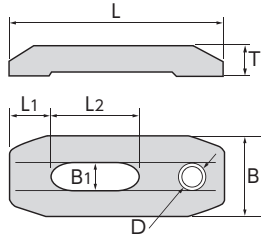
◀ Combination of plane clamp and step block

Item No.	Size (mm)						Applicable bolt	N.W. (kg) (a pair)
	A	B	C	D	E	F		
25P38	12	25	63	10.6	18	19	M10	0.19
40P38	16	25	100	10.6	25	38		0.42
60P38	19	30	150	10.6	30	50		1.09
25P12	12	32	63	14.2	20	14	M12 M14	0.25
40P12	19	32	100	14.2	28	32		0.63
60P12	22	32	150	14.2	32	50		1.17
25P58	16	32	63	17	22	12	M16	0.31
40P58	19	38	100	17	31	26		0.77
60P58	22	38	150	17	34	48		1.4

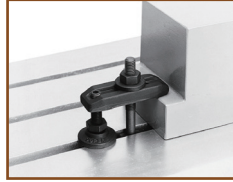
Item No.	Size (mm)						Applicable bolt	N.W. (kg) (a pair)
	A	B	C	D	E	F		
80P58	25	50	200	17	48	58	M16	2.91
40P34	19	38	100	21	31	28	M18 M20	0.71
60P34	25	38	150	21	38	44		1.47
80P34	25	50	200	21	40	65		2.79
10P34	38	50	250	21	52	76	M22 M24	5.37
60P10	30	50	150	25	43	38		2.32
80P10	32	50	200	25	50	58		3.37
10P10	38	50	250	25	52	76		5.09



FPB16B



Example of use



FPB-B

UNI-CLAMP (Plane Type)

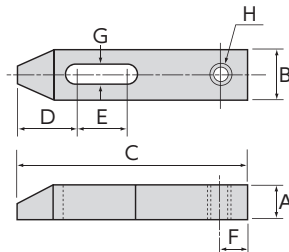
Feature

- Convenient usage with screw support (FR10~20) at the screw hole on the rear part.
- Material : S55C
- Heat treatment : Quenched 38~43HRC
- Finish : Black finish

Item No.	Size(mm)							Applicable bolt	N.W.(kg)
	L	L1	L2	Screw dia. D	T	B	B1		
FPB10B	80	15	30	M10	13	30	10.5	M10	0.15
FPB12B	100	21	40	M12	15	40	13	M12	0.34
FPB16B	125	26	45	M16	20	50	17	M16	0.66
FPB20B	160	30	60	M20	25	60	21	M20	1.21



TPS



TPS

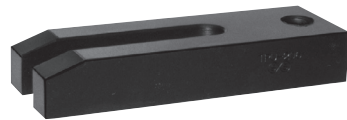
STRAP CLAMP WITH THREAD HOLE

Feature

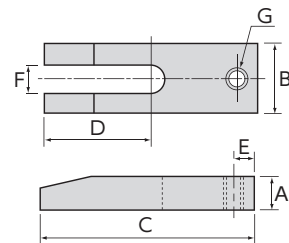
- Convenient usage with clamp heel stud with swivel pad (CHS5000~8000) at the screw hole on the rear part.
- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

Item No.	Size(mm)							Applicable bolt	Applicable swivel bolt	N.W.(kg)
	A	B	C	D	E	F	G			
TPS103	19	38	100	25	22	14	14.2	M14×2	CHS5000	0.43
TPS104	19	38	150	25	38	14	14.2	M14×2	CHS5000	0.67
TPS105	25	50	100	30	22	16	17	M16×2	CHS6000	0.81
TPS106	25	50	150	36.5	32	16	17	M16×2	CHS6000	1.22
TPS107	25	50	175	36.5	38	16	17	M16×2	CHS6000	1.4
TPS108	30	50	150	39	25	22	21	M18×2.5	CHS7000	1.36
TPS109	30	50	175	39	32	22	21	M18×2.5	CHS7000	1.61
TPS110	30	50	200	39	38	22	21	M18×2.5	CHS7000	1.88
TPS2420	38	50	200	50	43	25	25	M20×2.5	CHS8000	2.3
TPS2425	38	50	250	50	70	25	25	M20×2.5	CHS8000	2.85
TPS2430	38	50	300	50	93	25	25	M20×2.5	CHS8000	3.41

* CHS bolt not included



TPU



TPU

U-CLAMP WITH THREAD HOLE

Feature

- Convenient usage with clamp heel stud with swivel pad (CHS4000~8000) at the screw hole on the rear part.
- Material : S45C
- Heat treatment : Quenched 35~47HRC
- Finish : Black finish

Item No.	Size(mm)							Applicable bolt	Applicable swivel bolt	N.W.(kg)
	A	B	C	D	E	F	Screw dia. G			
TPU200	19	38	100	60	14	14.2	M12×1.75	M14	CHS4000	0.4
TPU202	19	38	150	88	14	14.2	M12×1.75	M14	CHS4000	0.62
TPU204	25	50	100	60	14	17	M16×2	M16	CHS6000	0.68
TPU206	25	50	150	87	14	17	M16×2	M16	CHS6000	1.1
TPU208	30	50	150	88	20	21	M18×2.5	M20	CHS7000	1.2
TPU210	30	50	200	125	20	21	M18×2.5	M20	CHS7000	1.6
TPU2420	45	60	200	93	25	25	M20×2.5	M24	CHS8000	3.16
TPU2425	45	60	250	120	25	25	M20×2.5	M24	CHS8000	3.96
TPU2430	45	60	300	143	25	25	M20×2.5	M24	CHS8000	4.86

* CHS bolt not included

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

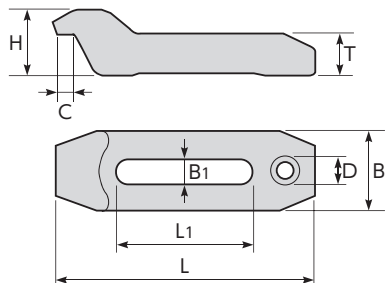
Mini blocks, mini supports

Clamping tools

Clamps



FGB20



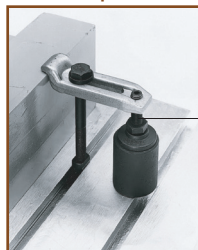
FGB

UNI-CLAMP (Duck Shaped Type)

► Feature

- Convenient usage with screw support plane type or screw type at the screw hole on the rear part.
- Material : S55C
- Heat treatment : Quenched 38~43HRC
- Finish : Nickel plating

► Example of use

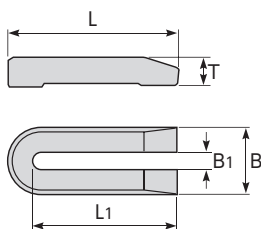


Screw support
The screw hole at the back of the duck shaped main body can receive a screw support as shown on the photo.

Item No.	Size (mm)								Applicable bolt	N.W. (kg)
	L	L1	H	Screw dia. D	T	B	B1	C		
FGB12	125	63	32	M12	17	36	13	10.5	M12	0.38
FGB16	160	80	40	M16	21	48	17	13.5	M14·M16	0.88
FGB20	200	100	50	M20	26	59	21	17.0	M18·M20	1.65
FGB24	250	125	63	M24	33	70	26	21.5	M22·M24	2.9



FUB20B



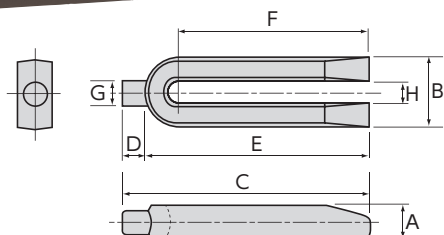
FUB-B

UNI-CLAMP (U Shaped Type)

► Feature

- Convenient usage with screw support at the rear part.
- Material : S55C
- Heat treatment : Quenched 38~43HRC
- Finish : Black finish

Item No.	Size (mm)					Applicable bolt	N.W. (kg)
	L	L1	T	B	B1		
FUB12B	100	87	20	40	13	M12	0.37
FUB16B	150	134	23	50	17	M16	0.75
FUB20B	200	181	27	60	21	M20	1.41
FUB24B	250	228	32	70	26	M24	2.35



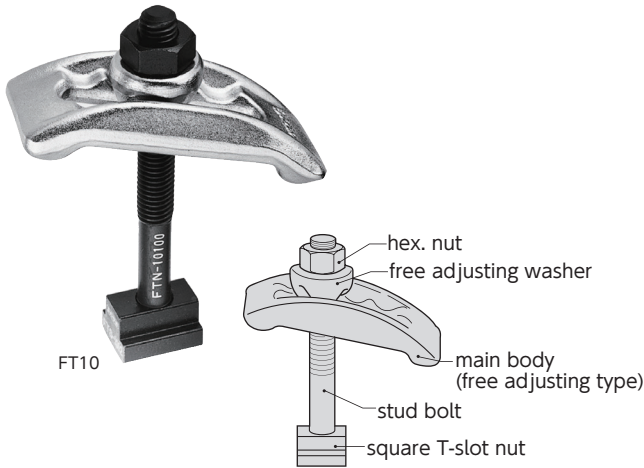
UC4

U-CLAMP (a Pair)

► Feature

- Convenient usage with screw support at the rear part.
- Material : S55C
- Heat treatment : Quenched 38~43HRC
- Finish : Black finish

Item No.	Size (mm)								Applicable bolt	N.W. (kg) (a pair)
	A	B	C	D	E	F	G	H		
UC4	19	45	114	14	100	77.5	φ14	17	M14·M16	0.78



Set item No.	Hex. nut	Free adjusting washer	Main body (flexible type)	Stud bolt	T-slot nut	Set N.W. (kg)
FT10	FTU10	FTZ10	FTB10	FTN10100	FTS1012	0.26
FT12	FTU12	FTZ12	FTB12	FTN12125	FTS1214	0.5
FT14	FTU14	FTZ14	FTB14	FTN14150	FTS1416	0.9
FT16	FTU16	FTZ16	FTB16	FTN16150	FTS1618	1

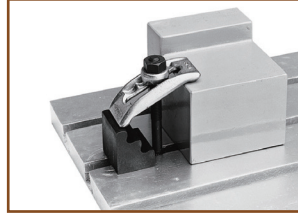
FT

UNI-CLAMP (Flexible Type)

Feature

- The main body can be fixed with an inclination up to 24°.

Example of use



◀ As the main body contact surface and the washer are round shaped, firm tightening can be made even for slanted clamping as shown on the photo.

Set item No.	Hex. nut	Free adjusting washer	Main body (flexible type)	Stud bolt	T-slot nut	Set N.W. (kg)
FT18	FTU18	FTZ18	FTB18	FTN18175	FTS1820	1.7
FT20	FTU20	FTZ20	FTB20	FTN20180	FTS2022	1.9
FT22	FTU22	FTZ22	FTB22	FTN22200	FTS2226	3.6
FT24	FTU24	FTZ24	FTB24	FTN24250	FTS2428	4

FTBZ • FTB • FTZ

UNI-CLAMP (Flexible Type) Parts

Main body and free adjusting washer set

Item No.	Applicable bolt	Set N.W. (kg)
FTBZ10	M10	0.17
FTBZ12	M12	0.34
FTBZ14	M14	0.67
FTBZ16	M14-M16	0.67
FTBZ18	M18	1.3
FTBZ20	M18-M20	1.3
FTBZ22	M22	2.8
FTBZ24	M24	2.8
*FTBZ4.5	M16	0.34

* Dedicated size to fit perfectly injection molding machine

Main body

Item No.	Applicable bolt	Size (mm)					N.W. (kg)
		L	L1	T	B	B1	
FTB10	M10	80	53	19	36	10.5	0.15
FTB12	M12	100	68	24	45	13	0.3
FTB14	M14-M16	125	85	31	56	17	0.5
FTB16	M14-M16	125	85	31	56	17	0.5
FTB18	M18-M20	160	106	39	71	21	1.2
FTB20	M18-M20	160	106	39	71	21	1.2
FTB22	M22-M24	200	134	49	90	26	2.3
FTB24	M22-M24	200	134	49	90	26	2.3
*FTB4.5	M16	100	68	24	45	17	0.28

* Dedicated size to fit perfectly injection molding machine

Note : FTB14/16, 18/20, 22/24 are common.

Free adjusting washer

Item No.	Applicable bolt	Size (mm)				N.W. (g)
		D	D1	T	T1	
FTZ10	M10	24	10.5	13	11	26
FTZ12	M12	30	13	16	14	56
FTZ14	M14	38	15	21	18	113
FTZ16	M16	38	17	21	18	107
FTZ18	M18	49	19	26	23	240
FTZ20	M20	49	21	26	23	230
FTZ22	M22	62	23.5	32	28	480
FTZ24	M24	62	26	32	28	460
*FTZ4.5	M16	30	17	16	14	45

* Dedicated size to fit perfectly injection molding machine

FTBZ



FTB

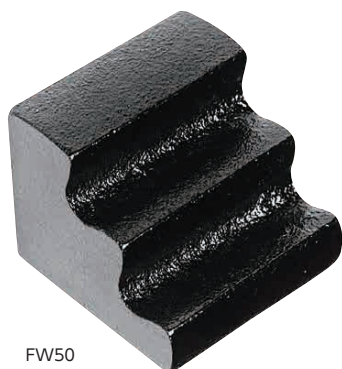


- Material : S55C
- Heat treatment : Quenched 38~43HRC
- Finish : Nickel chrome plating

FTZ

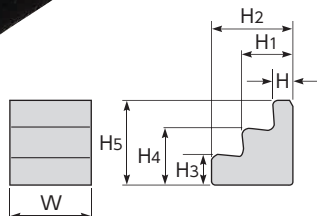


- Material : S55C
- Heat treatment : Quenched 35~47HRC
- Finish : Nickel chrome plating



FW50

- Material : FC250
- Heat treatment : Annealing
- Finish : Black finish



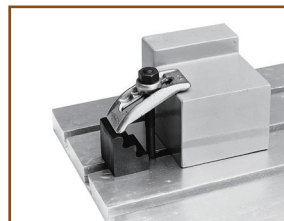
FW

STEP BLOCK (Tiered Type)

Features

- Convenient step block with 6 different supporting heights when used vertically and horizontally.
- The rounded shape of the contact surface enables perfect fit even with a slightly slanted main body.

Example of use



◀ Combination of step block and uni-clamp

Item No.	Size (mm)							N.W. (kg)
	W	6 supporting heights						
		H	H1	H2	H3	H4	H5	
FW40	40	10	22	34	16	28	40	0.27
FW50	50	13	28	43	20	35	50	0.47



NC80

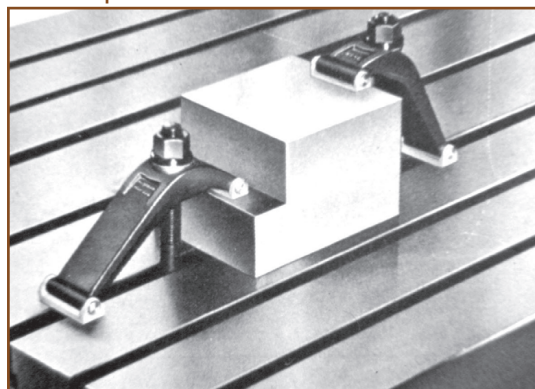
NC

SWIVEL NEW CLAMP (a Pair)

Features

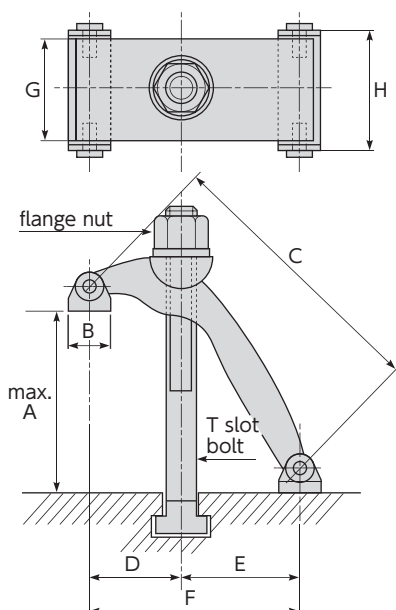
- The clamping height can be adjusted freely and this clamp allows stable clamping operation.
- The clamping ends at both sides are equipped with swivel pads to prevent damage on the machine table or the workpiece.

Example of use

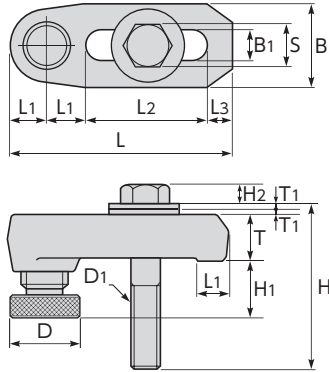


This swivel can fit in any direction and fix the work completely.

- Material : S45C
- Finish : Black finish

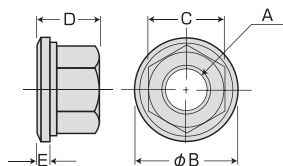
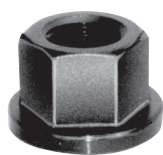


Item No.	Size(mm)								T-slot bolt	Flange nut	N.W.(kg) (a pair)
	A	B	C	D	E	F	G	H			
NC50	75	17	114	36.5	47.5	84	42	46.5	TBM12125	12MFN	1.64
NC60	85	20	146	32	78	110	49	54.5	TBM16150	16MFN	2.72
NC80	105	25	189	48	109	157	55	61.5	TBM20175	20MFN	4.96



-MFN

FLANGE NUT

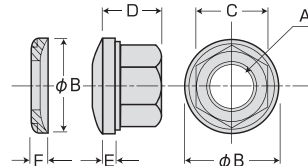


- Material : S45C
- Heat treatment : Quenched 30~40HRC
- Finish : Black finish

Item No.	Size(mm)					N.W. (g)
	A Screw dia.	B	C	D	E	
8MFN	M8	19	13	12	3	10
10MFN	M10	22	17	13	3	21
12MFN	M12	28	19	17	4	35
14MFN	M14	28	22	17	4	41
16MFN	M16	33	24	20	5	60
18MFN	M18	35	27	20	5	71
20MFN	M20	40	30	25	6	112
22MFN	M22	45	32	28	6	147
24MFN	M24	47	36	28	6	176

-MSFN

SPHERICAL FLANGE NUT

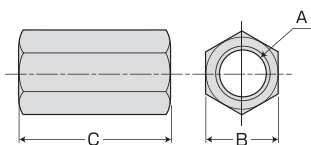


- Material : S45C
- Heat treatment : Quenched 28~35HRC
- Finish : Black finish

Item No.	Size(mm)						N.W. (g)
	A Screw dia.	B	C	D	E	F	
8MSFN	M8	19	13	11.5	2	4.5	20
10MSFN	M10	22	17	12	2	5	30
12MSFN	M12	28	19	16	3	6	54
14MSFN	M14	28	22	16	3	6.5	63
16MSFN	M16	35	24	18.5	3.5	7	96
18MSFN	M18	35	27	19	4	7.5	106
20MSFN	M20	40	30	23.5	4.5	8.5	161
22MSFN	M22	45	32	27	5	9	208
24MSFN	M24	48	36	27.5	5.5	9.5	270

FCU

COUPLING NUT

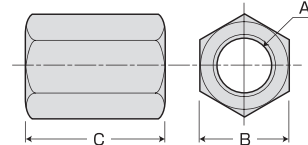
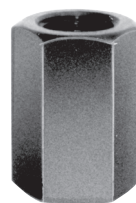


- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Size(mm)			N.W. (g)
	A Screw dia.	B	C	
FCU8	M8	13	24	18
FCU10	M10	17	30	41
FCU12	M12	19	36	57
FCU14	M14	22	42	88
FCU16	M16	24	48	113
FCU18	M18	27	54	165
FCU20	M20	30	60	226
FCU22	M22	32	66	273
FCU24	M24	36	72	392

-MCN

COUPLING NUT

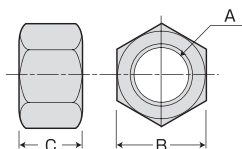
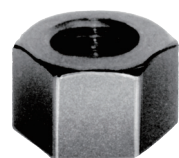


- Material : S45C
- Heat treatment : Quenched 30~35HRC
- Finish : Black finish

Item No.	Size(mm)			N.W. (g)
	A Screw dia.	B	C	
8MCN	M8	13	22	17
10MCN	M10	17	25	34
12MCN	M12	19	29	47
14MCN	M14	22	32	68
16MCN	M16	24	36	84
18MCN	M18	27	41	126
20MCN	M20	30	45	172
22MCN	M22	32	48	200
24MCN	M24	36	57	317

-MHN

HEAVY NUT

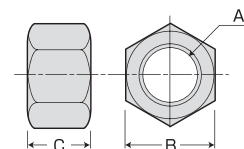


- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Size(mm)			N.W. (g)
	A Screw dia.	B	C	
10MHN	M10	17	10	14
12MHN	M12	19	12	19
14MHN	M14	22	14	30
16MHN	M16	24	15	36
18MHN	M18	27	18	55
20MHN	M20	30	20	74
22MHN	M22	32	22	89
24MHN	M24	36	24	131

FTU

HEX NUT



- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

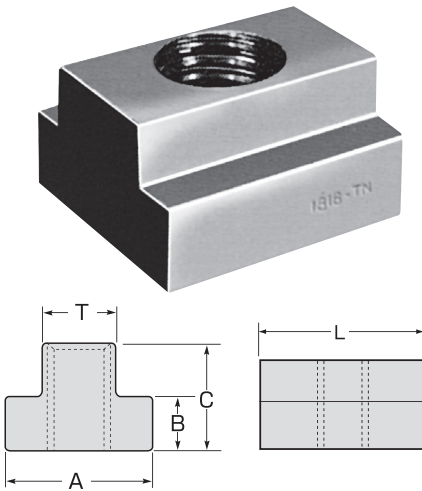
Item No.	Size(mm)			N.W. (g)
	A Screw dia.	B	C	
FTU8	M8	13	6.5	5
FTU10	M10	17	8	10
FTU12	M12	19	10	16
FTU14	M14	22	11	23
FTU16	M16	24	13	30
FTU18	M18	27	15	46
FTU20	M20	30	16	58
FTU22	M22	32	18	74
FTU24	M24	36	19	100

-TN•FTS

T-SLOT NUT

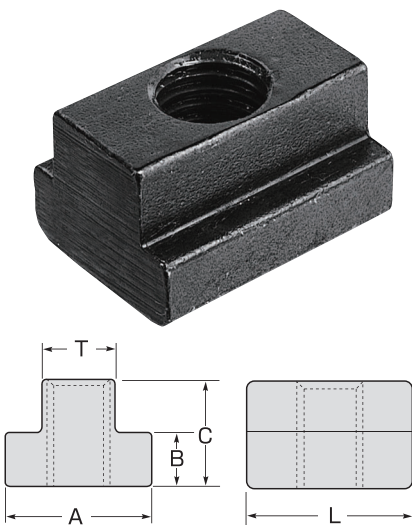
► Feature

- Caulking processed to prevent protruded bolt from scratching the machine table.



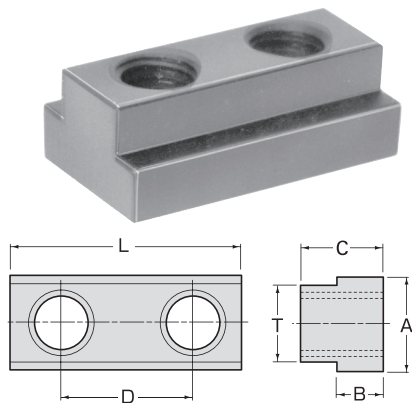
- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Table slot	Size(mm)						N.W.(g)
		Screw dia.	A	B	C	T	L	
1008TN	10	M8	16	6	12	10	23	22
1210TN	12	M10	18	7	14	12	23	29
1410TN	14	M10	22.3	8.8	15.9	14	28	54
1412TN		M12	22.3	8.8	15.9		28	50
1612TN	16	M12	25.5	8.8	15.9	16	28	61
1614TN		M14	25.5	8.8	15.9		28	57
1814TN	18	M14	28.6	11.1	19.1	18	30	85
1816TN		M16	28.6	11.1	19.1		30	79
2016TN	20	M16	31.8	11.8	19.1	20	30	92
2018TN		M18	31.8	14.1	25.5		38	155
2216TN	22	M16	36.1	14.1	25.5	22	38	187
2218TN		M18	36.1	14.1	25.5		38	179
2220TN		M20	36.1	14.1	25.5		38	167
2418TN	24	M18	38.3	14.1	25.1	24	38	192
2420TN		M20	38.3	14.1	25.1		38	181
2620TN	26	M20	41.3	16.1	25.5	26	44	250
2622TN		M22	41.3	16.1	25.5		44	237
2822TN	28	M22	41.3	17.4	28.6	28	50	318
2824TN		M24	41.3	17.4	28.6		50	305



- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Table slot	Size(mm)						N.W.(g)
		Screw dia.	A	B	C	T	L	
FTS810	10	M8	15	6	12	10	19	22
FTS1012	12	M10	18	7	14	12	23	29
FTS1014	14	M10	22	8	16	14	26	48
FTS1214		M12	22	8	16		26	45
FTS1215	15	M12	25	9	18	15	29	65
FTS1216		M12	25	9	18		29	67
FTS1416	16	M14	25	9	18	16	29	62
FTS1418		M14	28	10	20		32	92
FTS1618	18	M16	28	10	20	18	32	84
FTS1619		M16	32	12	24		36	135
FTS1620	19	M16	32	12	24	19	36	138
FTS1820		M18	32	12	24		36	130
FTS1822	22	M18	36	14	28	22	40	200
FTS2022		M20	36	14	28		40	189
FTS2023	23	M20	40	16	32	23	44	271
FTS2024	24	M20	40	16	32	24	44	277
FTS2026	26	M20	42	14	25	26	46	255
FTS2226		M22	42	14	25		46	240
FTS2228	28	M22	45	18	36	28	49	400
FTS2428		M24	45	18	36		49	385
FTS2432	32	M24	50	20	40	32	54	690



- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

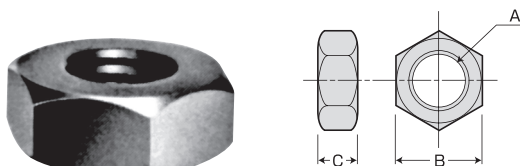
-WTN

DOUBLE T-SLOT NUT

Item No.	Table slot	Size(mm)							N.W.(g)
		Screw dia.	A	B	C	D	T	L	
1412WTN	14	M12	22.2	8.7	15.8	22	13.8	45	80
1612WTN	16	M12	25.4	8.7	15.8		15.8	45	90
1812WTN	18	M12	28.5	11.1	19		17.5	45	130
1816WTN		M16	28.5	11.1	19	30	17.5	55	140
2016WTN	20	M16	31.7	11.9	19		19	55	150
2220WTN	22	M20	36	13.8	25.4	40	21.7	70	290
2420WTN	24	M20	38.2	14	25.4		23.5	70	320

-MJN

JAM NUT

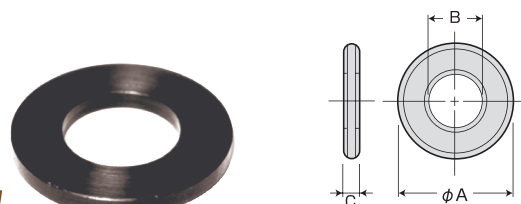


- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Size (mm)			N.W. (g)
	A	B	C	
	Screw dia.			
10MJN	M10	17	6	9
12MJN	M12	19	7	10
14MJN	M14	22	8	21
16MJN	M16	24	10	23
18MJN	M18	27	11	34
20MJN	M20	30	12	44

-MFW

FLAT WASHER



- Material : S45C
- Heat treatment : Quenched 27~35HRC
- Finish : Black finish

Item No.	Size (mm)			N.W. (g)
	A	B	C	
10MFW	22	11	3	7
12MFW	25	13	3	9
14MFW	28	15	3	10
16MFW	35	17	3	16
18MFW	38	19	3.5	23
20MFW	40	21	4	27
22MFW	44	23	4	34
24MFW	50	27	5	53

FYZ

FLAT WASHER

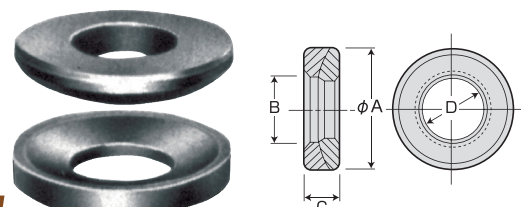


- Material : S45C
- Heat treatment : Quenched 35~45HRC
- Finish : Black finish

Item No.	Applicable bolt	Size (mm)			N.W. (g)
		A	B	C	
FYZ8	M8	23	8.4	3.2	8
FYZ10	M10	28	10.5	4	15
FYZ12	M12	35	13	5	30
FYZ14	M14	39	15	6	43
FYZ16	M16	45	17	6	61
FYZ18	M18	45	19	8	77
FYZ20	M20	50	21	8	94
FYZ22	M22	55	23	10	144
FYZ24	M24	60	26	10	163

-MSW

SPHERICAL WASHER



- Material : S45C
- Heat treatment : Quenched 27~35HRC
- Finish : Black finish

Item No.	Size (mm)				N.W. (g)
	A	B	C	D	
10MSW	22	12	7	10.5	16
12MSW	28	15	9	13	33
14MSW	28	17	9.5	15	40
16MSW	35	19	10.5	17	57
18MSW	35	21	11.5	19	70
20MSW	40	24	13	22	90
24MSW	48	28	15	26	135

FXZ

LARGE SPHERICAL WASHER



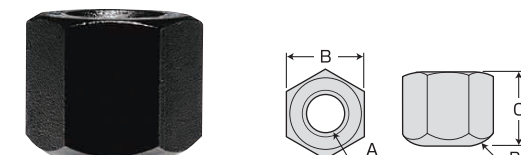
- Material : S45C
- Heat treatment : Quenched 35~45HRC
- Finish : Black finish

Item No.	Applicable bolt	Size (mm)			N.W. (g)
		A	B	C	
FXZ8	M8	23	9.5	3.2	7
FXZ10	M10	28	12	4	13
FXZ12	M12	35	14.2	5	28
FXZ14	M14	39	16	6	39
FXZ16	M16	45	19	6	56
FXZ18	M18	45	21	8	70
FXZ20	M20	50	23.2	8	87
FXZ22	M22	55	25.5	10	119
FXZ24	M24	60	28	10	163

* Large spherical washer (FXZ) shall be used in combination with spherical hex nut (FBU).

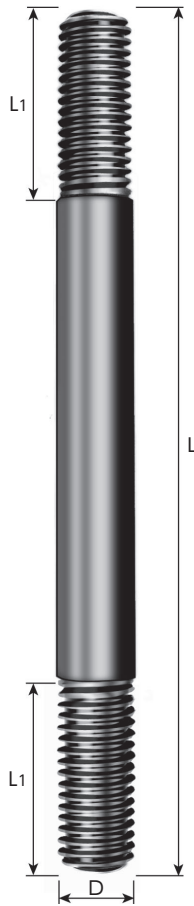
FBU

SPHERICAL HEX NUT



- Material : S45C
- Heat treatment : Quenched 23~31HRC
- Finish : Black finish

Item No.	Size (mm)				N.W. (g)
	A	B	C	R	
FBU8	M8	13	12	12	9
FBU10	M10	17	15	15	19
FBU12	M12	19	18	17	28
FBU14	M14	22	21	20	46
FBU16	M16	24	24	22	55
FBU18	M18	27	27	25	81
FBU20	M20	30	30	27	109
FBU22	M22	32	33	30	132
FBU24	M24	36	36	32	191



SBM

STUD BOLT

Feature

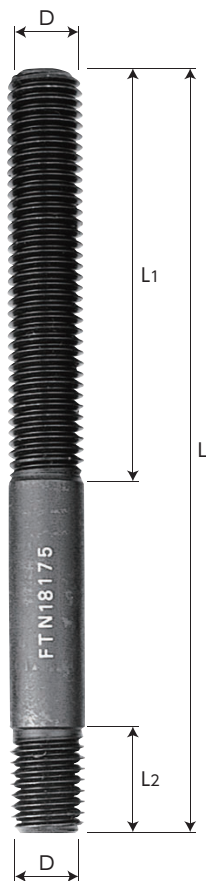
- The rolling processed screw part is robust and resistant to abrasion and distortion.
- Material : S45C
- Heat treatment : Quenched 22~26HRC
- Finish : Black finish

Item No.	Size (mm)			N.W. (g)
	D	L	L1	
	Screw dia.			
SBM850	M8 P=1.25	50	22	18
SBM860		60	22	22
SBM870		70	30	23
SBM875		75	30	24
SBM8100		100	32	36
SBM8125		125	32	45
SBM8150		150	32	54
SBM8175	M10 P=1.5	175	32	63
SBM8200		200	32	72
SBM1050		50	22	27
SBM1060		60	22	32
SBM1070		70	30	37
SBM1075		75	30	40
SBM1090		90	32	48
SBM10100	M12 P=1.75	100	32	53
SBM10120		120	32	63
SBM10125		125	32	66
SBM10150		150	32	80
SBM10175		175	32	93
SBM10200		200	32	106
SBM1250		50	22	38
SBM1260	M12 P=1.75	60	22	46
SBM1270		70	30	52
SBM1275		75	30	56
SBM1280		80	30	60
SBM1290		90	30	68
SBM12100		100	38	75
SBM12110		110	38	83
SBM12120	M18 P=2.5	120	38	90
SBM12125		125	38	94
SBM12140		140	38	108
SBM12150		150	38	113
SBM12160		160	38	121

Item No.	Size (mm)			N.W. (g)
	D	L	L1	
	Screw dia.			
SBM12175	M12 P=1.75	175	38	131
SBM12200		200	38	150
SBM1450		50	22	48
SBM1475		75	30	75
SBM14100		100	38	101
SBM14125		125	38	130
SBM14150		150	38	160
SBM14175	M14 P=2.0	175	38	190
SBM14200		200	38	217
SBM14225		225	50	246
SBM14250		250	50	274
SBM14300		300	50	335
SBM14350		350	50	395
SBM14400		400	50	455
SBM14450	M16 P=2.0	450	50	524
SBM14500		500	50	576
SBM1650		50	22	68
SBM1660		60	22	82
SBM1670		70	30	94
SBM1675		75	30	101
SBM1680		80	30	108
SBM1690	M18 P=2.5	90	30	122
SBM16100		100	38	135
SBM16110		110	38	149
SBM16120		120	38	162
SBM16125		125	38	169
SBM16130		130	38	176
SBM16140		140	38	189
SBM16150	M20 P=2.5	150	38	203
SBM16160		160	38	217
SBM16170		170	38	229
SBM16175		175	38	236
SBM16180		180	38	243
SBM16190		190	38	257
SBM16200		200	38	270
SBM16225	M22 P=2.5	225	50	304
SBM16250		250	50	338
SBM16275		275	50	371
SBM16300		300	50	405
SBM16350		350	50	423
SBM16400		400	50	540
SBM16450		450	50	608
SBM16500	M24 P=3.0	500	50	675
SBM1875		75	30	135
SBM18100		100	38	180
SBM18125		125	50	225
SBM18150		150	50	270
SBM18175		175	50	315
SBM18200		200	50	360
SBM18225		225	50	405

Item No.	Size (mm)			N.W. (g)
	D	L	L1	
	Screw dia.			
SBM18250	M18 P=2.5	250	50	450
SBM18300		300	50	540
SBM18350		350	50	630
SBM18400		400	50	720
SBM18450		450	50	810
SBM18500		500	50	900
SBM2075	M20 P=2.5	75	30	158
SBM20100		100	38	210
SBM20120		120	50	252
SBM20125		125	50	263
SBM20130		130	50	274
SBM20150		150	50	315
SBM20170		170	50	357
SBM20175	M22 P=2.5	175	50	368
SBM20180		180	50	378
SBM20200		200	50	420
SBM20225		225	50	473
SBM20250		250	50	525
SBM20275		275	50	578
SBM20300		300	50	630
SBM20350	M24 P=3.0	350	50	735
SBM20400		400	50	840
SBM20450		450	50	945
SBM20500		500	50	1,050
SBM2275		75	30	195
SBM22100		100	38	260
SBM22125		125	50	325
SBM22150	M22 P=2.5	150	50	390
SBM22175		175	50	455
SBM22200		200	50	520
SBM22225		225	50	585
SBM22250		250	63	650
SBM22300		300	63	780
SBM22350		350	63	910
SBM22400	M24 P=3.0	400	63	1,040
SBM22450		450	63	1,170
SBM22500		500	63	1,300
SBM2475		75	30	203
SBM24100		100	38	270
SBM24125		125	50	338
SBM24150		150	50	405
SBM24175	M24 P=3.0	175	50	473
SBM24200		200	50	540
SBM24225		225	50	608
SBM24250		250	63	675
SBM24300		300	63	810
SBM24350		350	63	945
SBM24400		400	63	1,080
SBM24450	M24 P=3.0	450	63	1,215
SBM24500		500	63	1,350

* Upon request, we can provide your required size.



FTN

STUD BOLT

Features

- The rolling processed screw part is robust and resistant against abrasion and distortion.
- The thread length L1 is long so that one bolt can be used at either long or short end.
- The thread length L2 is shorter than the nut thickness so that the bolt doesn't stick out from the T-slot nut and thus avoid damaging the bottom of the table.
- Material : S45C
- Heat treatment : Quenched 22~26HRC
- Finish : Black finish

Item No.	Size(mm)				N.W. (g)
	D Screw dia.	L	L1	L2	
FTN850	M8 P=1.25	50	25	10.5	16
FTN875		75	45		24
FTN8100		100	60		33
FTN8125		125	75		42
FTN8150		150	80		51
FTN8175	M10 P=1.5	175	100	12.5	59
FTN8200		200	100		69
FTN1050		50	25		25
FTN1075		75	45		38
FTN1090		90	50		46
*FTN10100	M12 P=1.75	100	60	14.5	51
FTN10115		115	60		59
FTN10125		125	75		65
FTN10140		140	75		74
FTN10150		150	80		80
FTN10175	M14 P=2.0	175	100	16.5	93
FTN10200		200	100		107
FTN1250		50	22		36
FTN1265		65	30		48
FTN1275		75	45		54
FTN1280	M16 P=2.0	80	45	18	59
FTN12100		100	60		75
*FTN12125		125	75		94
FTN12150		150	80		116
FTN12175		175	100		132
FTN12200	M18 P=2.5	200	100	22	155
FTN1450		50	22		50
FTN1475		75	45		74
FTN14100		100	60		100
FTN14125		125	75		127
*FTN14150	M20 P=2.5	150	90	26	153
FTN14175		175	90		181
FTN14200		200	100		211
FTN14225		225	100		242
FTN14250		250	100		273

Item No.	Size(mm)				N.W. (g)
	D Screw dia.	L	L1	L2	
FTN14300	M14 P=2.0	300	100	16.5	335
FTN14350		350	100		398
FTN14400		400	100		461
FTN1675	M16 P=2.0	75	45	18	98
FTN16100		100	60		132
FTN16125		125	75		167
*FTN16150		150	90		205
FTN16175		175	90		243
FTN16200		200	100		280
FTN16250		250	100		358
FTN16300	M18 P=2.5	300	100	22	438
FTN16350		350	100		516
FTN1875		75	35	26	125
FTN18100	M20 P=2.5	100	60		166
FTN18125		125	75		210
FTN18150		150	90		265
*FTN18175		175	90		310
FTN18200	M22 P=2.5	200	100	29.5	349
FTN18250		250	100		448
FTN18300		300	120		539
FTN18350		350	120		634
FTN2075		75	35	33.5	154
FTN20100	M24 P=3.0	100	60		208
FTN20125		125	75		261
FTN20150		150	90		318
FTN20175		175	90		378
*FTN20180	M26 P=3.0	180	110	37	384
FTN20200		200	120		427
FTN20250		250	145		540
FTN20300		300	145		662
FTN20350		350	145		784
FTN2275	M28 P=3.0	75	30	42	195
FTN22100		100	55		260
FTN22125		125	75		325
FTN22150		150	100		390
FTN22175		175	100		455
*FTN22200	M30 P=3.0	200	120	48	520
FTN22250		250	145		650
FTN22300		300	145		780
FTN22350		350	145		910
FTN22450		450	145		1,170
FTN2475	M32 P=3.0	75	30	50	218
FTN24100		100	55		294
FTN24125		125	75		370
FTN24150		150	100		450
FTN24175		175	100		533
FTN24200	M36 P=3.0	200	120	56	610
*FTN24250		250	145		774
FTN24300		300	145		948
FTN24350		350	145		1,120

The items with * mark are standard parts of the flexible type uni-clamp (FT) set.

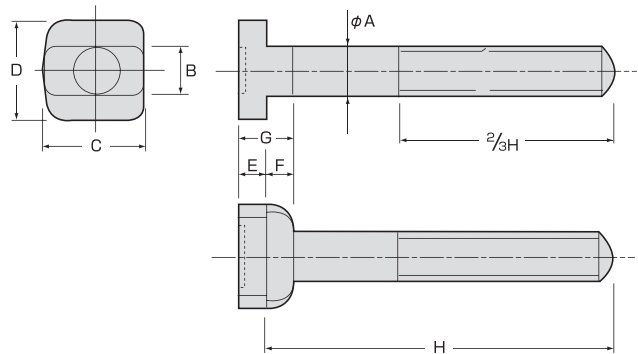
TBM

T-SLOT BOLT



► Feature

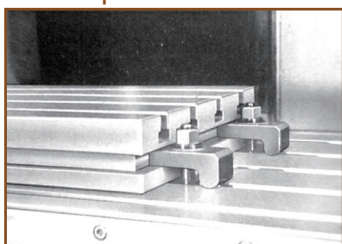
- Special bolt made by precision forging of the best selected carbon steel material.
- Material : S45C
- Finish : Black finish



Item No.	Table slot	Screw dia.	Size(mm)								N.W. (g)
			A	B	C	D	E	F	G	H	
TBM1250	12	M12 P=1.75	12	12	26	22	7	6	13	50	72
TBM1275	12		12	12	26	22	7	6	13	75	90
TBM12100	12		12	12	26	22	7	6	13	100	100
TBM12125	12		12	12	26	22	7	6	13	125	126
TBM12150	12		12	12	26	22	7	6	13	150	142
TBM12175	12		12	12	26	22	7	6	13	175	160
TBM12200	12		12	12	26	22	7	6	13	200	180
TBM1650	16	M16 P=2.0	16	16	32	27	8	8	16	50	128
TBM1675	16		16	16	32	27	8	8	16	75	160
TBM16100	16		16	16	32	27	8	8	16	100	192
TBM16125	16		16	16	32	27	8	8	16	125	226
TBM16150	16		16	16	32	27	8	8	16	150	260
TBM16175	16		16	16	32	27	8	8	16	175	294
TBM16200	16		16	16	32	27	8	8	16	200	328
TBM1875	18	M18 P=2.5	18	18	40	30	11	11	22	75	248
TBM18100	18		18	18	40	30	11	11	22	100	294
TBM18125	18		18	18	40	30	11	11	22	125	332
TBM18150	18		18	18	40	30	11	11	22	150	374
TBM18175	18		18	18	40	30	11	11	22	175	412
TBM18200	18		18	18	40	30	11	11	22	200	458
TBM2075	20	M20 P=2.5	20	20	40	34	11	11	22	75	278
TBM20100	20		20	20	40	34	11	11	22	100	342
TBM20125	20		20	20	40	34	11	11	22	125	388
TBM20150	20		20	20	40	34	11	11	22	150	442
TBM20175	20		20	20	40	34	11	11	22	175	490
TBM20200	20		20	20	40	34	11	11	22	200	542
TBM22100	22	M22 P=2.5	22	22	40	38	14	13	27	100	444
TBM22125	22		22	22	40	38	14	13	27	125	506
TBM22150	22		22	22	40	38	14	13	27	150	576
TBM22175	22		22	22	40	38	14	13	27	175	642
TBM22200	22		22	22	40	38	14	13	27	200	698
TBM24100	24	M24 P=3.0	24	24	50	44	16	15	31	100	616
TBM24125	24		24	24	50	44	16	15	31	125	688
TBM24150	24		24	24	50	44	16	15	31	150	766
TBM24175	24		24	24	50	44	16	15	31	175	844
TBM24200	24		24	24	50	44	16	15	31	200	922



► Example of use

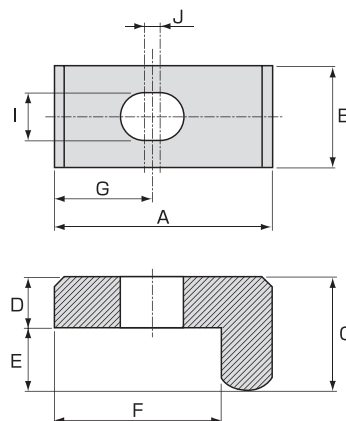


SC

■ SOLID CLAMP (for Attaching Jig Plate)

► Feature

- Solid clamp for attaching jig plate or vacuum chuck.
- Material : S45C
- Heat treatment : Quenched 30~35HRC
- Finish : Black finish



Item No.	Applicable bolt	Size (mm)									N.W. (g)
		A	B	C	D	E	F	G	I	J	
SC1400	M14	69	32	36	16	20	53	31	15	5	310
SC1600	M16	80	43	37	17	20	58	35	17	5	530
SC1800	M18	80	43	37	17	20	58	35	19	5	510

VC

■ CLAMP FOR VISE

► Feature

- Ideal for fixing precision vise.
- Material : SCM440
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish

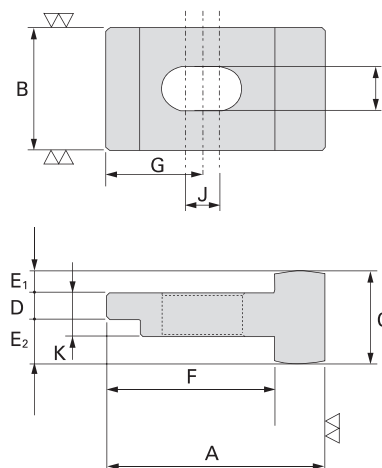
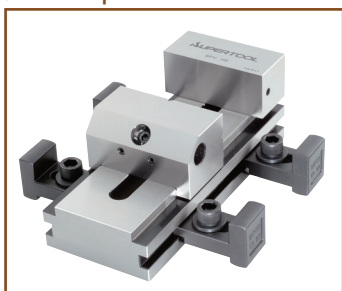
■ Applicable vise

VC10 : SPV30H·80H·120H·80

VC20 : SPV115·150·165H·SHPV165



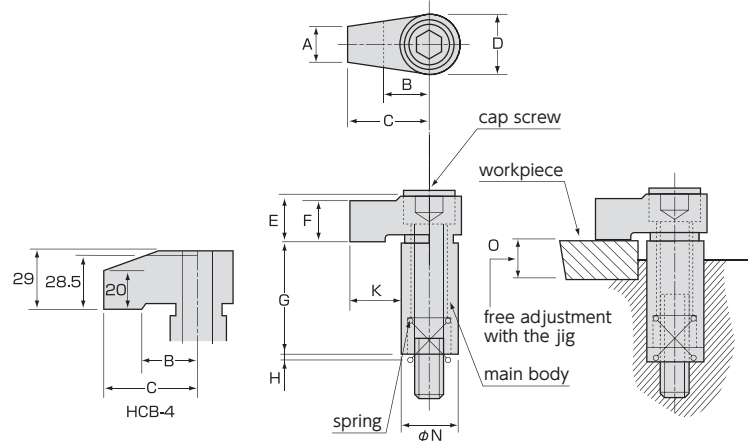
► Example of use



Item No.	Applicable bolt	Size (mm)											N.W. (g)
		A	B	C	D	E1	E2	F	G	I	J	K	
VC10	M8	44	25	19	5.5	4.5	9	34	19.5	9	7	9	84
VC20	M12	60	32	38	8	18	12	46	28	13	12	14	250



- Material : SCM440
- Heat treatment :
Quenched 32~38HRC
- Finish : Grinding / black finish



Item No.	Size (mm)										Cap screw	N.W. (g)
	A	B	C	D	E	F	G	K	N ^{+0.05} _{-0.05}	Stroke H		
HCB1	12	12	23	19	13	12	20	15	16	6	M 8×40	100
HCB2	16	16	31	25	16	15	39	20	22	6	M12×70	210
HCB3	17	23	42	32	22.5	21	58.5	28	28	7	M16×90	500
HCB4	20	35	50	36	—	—	59	36	28	7	M16×100	640

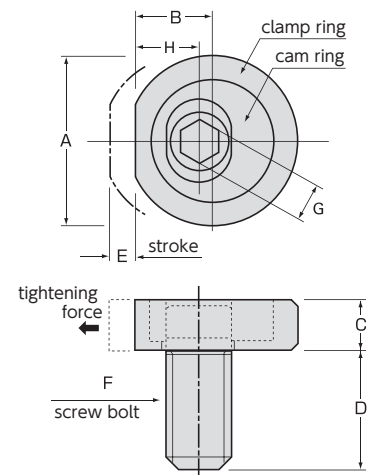
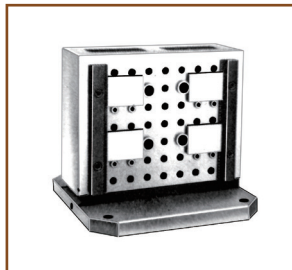
SR

SCREW LOCK



- Material : S45C
- Heat treatment :
Quenched 35HRC (Cam ring)
- Finish : Plating treatment (Clamp ring)

Example of use



Item No.	Size (mm)								Tightening force (kN)	N.W. (g)
	A	B	C	D	E	Screw bolt		H		
						F	G			
SR8	24	11	6	14	3	M 8-P1.25	5	9.5	4	22
SR10	26	11.8	8	19	4	M10-P1.5	6	9.8	5	36
SR12	30	13.5	9	19	5	M12-P1.75	8	11	6	54
SR16	38	16	12	23	6	M16-P2.0	10	13	7	120

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

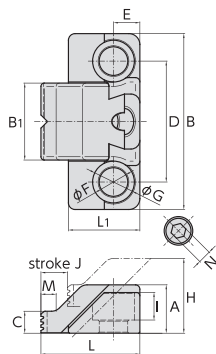
Mini blocks, mini supports

Clamping tools

Clamps



- Heat treatment : Quenched 30~35HRC
- Drive screw receive side at tightening operation : High frequency quenched 55HRC



TC-AS

SLIDE CLAMP SHORT A TYPE (Rack Type)

► Features

- Ideal for side clamping.
- Its compact design allows to set more works.
- The jaw edge has a rack that clamps the work by pushing it down.
- When the clamp is tightened with the included wrench, the clamp head slides by an inclination of 45°.

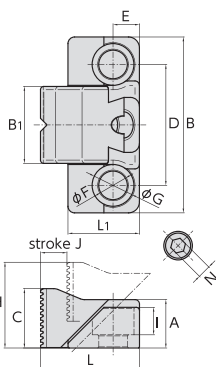
► Accessories

- Hex key wrench

Item No.	Size (mm)															Tightening torque (N·m)	Clamp capacity (kN)	N.W. (kg)
	A	B	B1	C	D	E	F	G	H	I	J	L	L1	M	N			
TC08AS	16	57	25	7	40	9	9	14	23	8.5	7	30	22.5	4.5	5	10	6	0.10
TC12AS	22	80	35	10	55	12	13	19	34	12.5	12	45	32.5	7.0	6	26	9	0.33



- Heat treatment : Quenched 30~35HRC
- Drive screw receive side at tightening operation : High frequency quenched 55HRC



TC-BS

SLIDE CLAMP SHORT B TYPE (Rack Type)

► Features

- Ideal for side clamping.
- Can be used when the work height is too low for the slide clamp short A type.
- Its compact design allows to set more works.
- The jaw edge has a rack that clamps the work by pushing it down.
- When the clamp is tightened with the included wrench, the clamp head slides by an inclination of 45°.

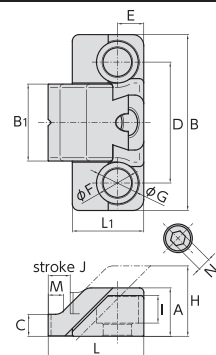
► Accessories

- Hex key wrench

Item No.	Size (mm)														Tightening torque (N·m)	Clamp capacity (kN)	N.W. (kg)
	A	B	B1	C	D	E	F	G	H	I	J	L	L1	N			
TC08BS	16	57	25	19	40	9	9	14	26	8.5	7	30	22.5	5	10	6	0.12
TC12BS	22	80	35	27	55	12	13	19	39	12.5	12	45	32.5	6	26	9	0.39



- Heat treatment : Quenched 30~35HRC
- Drive screw receive side at tightening operation : High frequency quenched 55HRC



TC-AFS

SLIDE CLAMP SHORT A TYPE (Flat Type)

► Features

- Ideal for side clamping.
- Its compact design allows to set more works.
- The jaw edge is flat and can be used as standard surface for clamping.
- When the clamp is tightened with the included wrench, the clamp head slides by an inclination of 45°.

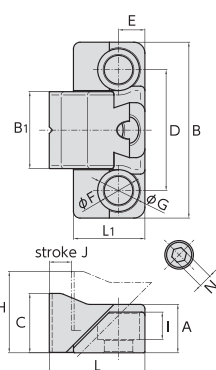
► Accessories

- Hex key wrench

Item No.	Size (mm)															Tightening torque (N·m)	Clamp capacity (kN)	N.W. (kg)
	A	B	B1	C	D	E	F	G	H	I	J	L	L1	M	N			
TC08AFS	16	57	25	7	40	9	9	14	22	8.5	6	29	22.5	3.5	5	10	6	0.10
TC12AFS	22	80	35	10	55	12	13	19	32	12.5	10	43.5	32.5	5.5	6	26	9	0.33



- Heat treatment : Quenched 30~35HRC
- Drive screw receive side at tightening operation : High frequency quenched 55HRC



TC-BFS

SLIDE CLAMP SHORT B TYPE (Flat Type)

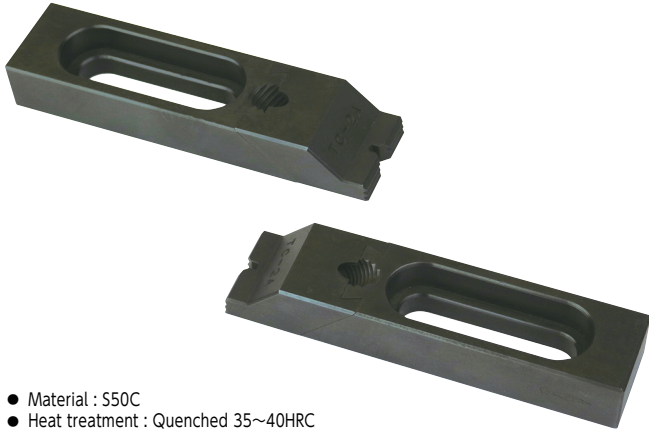
► Features

- Ideal for side clamping.
- Can be used when the work height is too low for the slide clamp short A type.
- Its compact design allows to set more works.
- The jaw edge is flat and can be used as standard surface for clamping.
- When the clamp is tightened with the included wrench, the clamp head slides by an inclination of 45°.

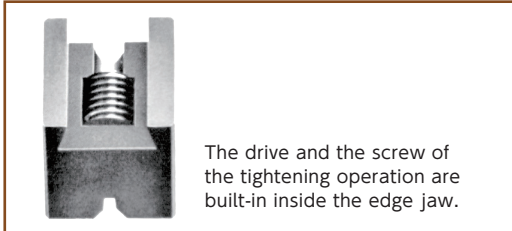
► Accessories

- Hex key wrench

Item No.	Size (mm)														Tightening torque (N·m)	Clamp capacity (kN)	N.W. (kg)
	A	B	B1	C	D	E	F	G	H	I	J	L	L1	N			
TC08BFS	16	57	25	19	40	9	9	14	25	8.5	6	29	22.5	5	10	6	0.12
TC12BFS	22	80	35	27	55	12	13	19	37	12.5	10	43.5	32.5	6	26	9	0.39



- Material : S50C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish



TC-A

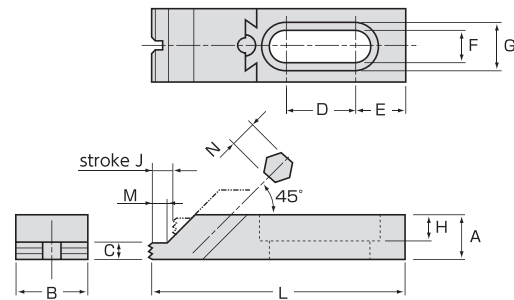
SLIDE CLAMP A TYPE (a Pair)

Features

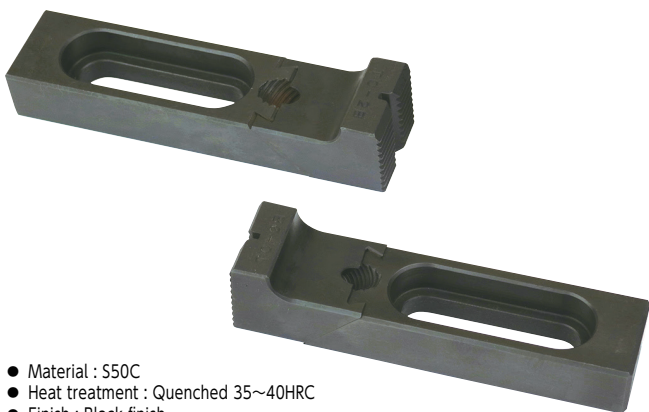
- The jaw edge has a rack that clamps the work by pushing it down.
- When the clamp is tightened with the included wrench, the clamp head slides by an inclination of 45° and clamps the work.

Accessories

- Hex key wrench × 1pc
- Cap screw × 2 pcs
- T-slot nut × 2 pcs



Item No.	Tightening force (kN)	Accessories			Size (mm)												N.W. (kg) (a pair)
		Cap screw	T-slot nut	Hex key wrench	A	B	C	D	E	F	G	H	J	L	M	N	
TC1A	7	M12×30	1412TN	6	22	36	9	28	16	14.5	22	12	11	103	8	6	1
TC2A	8	M16×30	1816TN	6	22	36	9	47	28.5	16.5	25	12	11	143	9	6	1.54
TC3A	10	M20×40	2220TN	8	24	46	12	60	35.5	20.5	31	14	12	180	10	8	2.88



- Material : S50C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish

TC-B

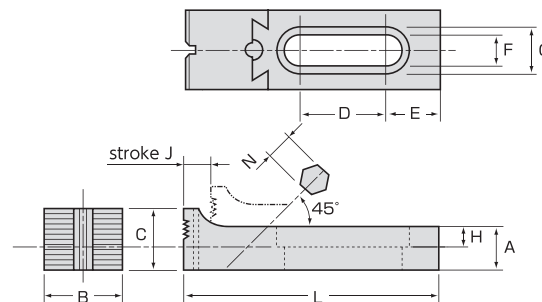
SLIDE CLAMP B TYPE (a Pair)

Features

- Can be used when the work height is too low for the slide clamp A type or too high for free vise (FV).
- The structure and functions are the same as slide clamp A type.

Accessories

- Hex key wrench × 1pc
- Cap screw × 2 pcs
- T-slot nut × 2 pcs



Item No.	Tightening force (kN)	Accessories			Size (mm)											N.W. (kg) (a pair)
		Cap screw	T-slot nut	Hex key wrench	A	B	C	D	E	F	G	H	J	L	N	
TC1B	7	M12×30	1412TN	6	22	36	27	28	16	14.5	22	12	11	103	6	1.18
TC2B	8	M16×30	1816TN	6	22	36	30	47	28.5	16.5	25	12	11	143	6	1.67
TC3B	10	M20×40	2220TN	8	24	46	36	60	35.5	20.5	31	14	12	180	8	3.14

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

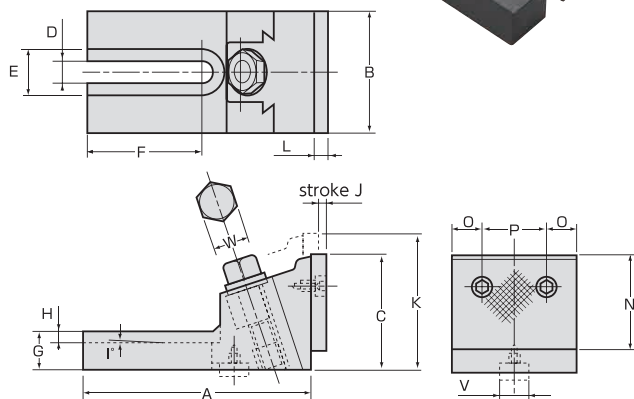
Mini blocks, mini supports

Clamping tools

Clamps



- Material : FCD450
- Finish : Black finish / Mouth piece : grinding finish



FV-N

FREE VISE (a Pair)

► Features

- Can be used when the work is too big to fix regular vise.
- The body bottom is designed with a key pitch so that step key can be used.

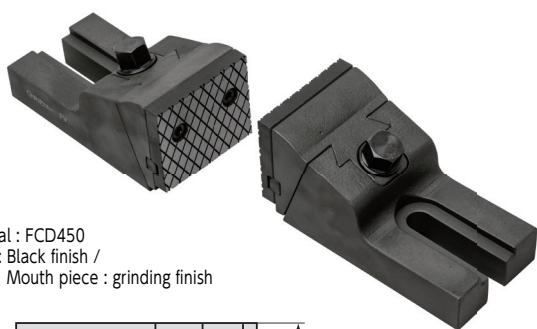
► Accessories

- Spherical flange nut (SFN) × 4 pcs
- T-slot bolt (TBM) × 2 pcs
- Step key (FKY) × 2 pcs
- Cap screw × 2 pcs

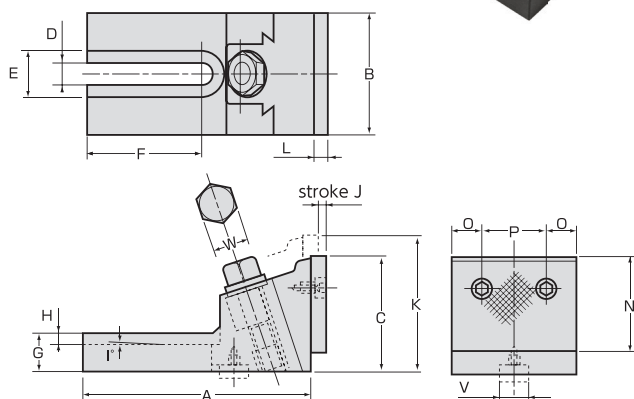


Item No.	Tightening force (kN)	Accessories				Size(mm)			
		Cap screw	Step key	T-slot bolt	Flange nut	A	B	C	D
FV350N	23	CS610	FKY16	TBM1275	12MSFN	132	70	72	14.5
FV450N	28	CS610	FKY18	TBM1675	16MSFN	180.5	85	87	17
FV550N	38	CS610	FKY20	TBM20100	20MSFN	207	110	105	21

Item No.	Size(mm)												N.W.(kg) (a pair)
	E	F	G	H	J	K	L	N	O	P	V	W	
FV350N	29	55	25	5.7	5	84	10	60	15	40	16	19	6.8
FV450N	37	80	30	7.9	5	100	12	70	17.5	50	18	24	13
FV550N	42	100	36	10.2	7	125	13	85	25	60	20	30	21



- Material : FCD450
- Finish : Black finish / Mouth piece : grinding finish



FV-E

FREE VISE (Economy Type) (a Pair) (* No accessories included)

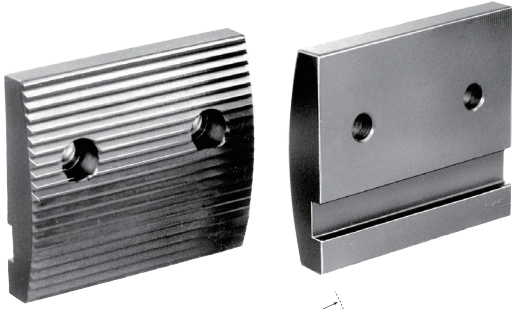
► Features

- Can be used when the work is too big to fix regular vise.
- The body bottom is designed with a key pitch so that step key can be used.

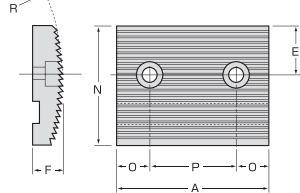
► Example of use



Item No.	Tightening force(kN)	Size(mm)																N.W.(kg) (a pair)
		A	B	C	D	E	F	G	H	J	K	L	N	O	P	V	W	
FV350E	23	132	70	72	14.5	29	55	25	5.7	5	84	10	60	15	40	16	19	6.8
FV450E	28	180.5	85	87	17	37	80	30	7.9	5	100	12	70	17.5	50	18	24	13
FV550E	38	207	110	105	21	42	100	36	10.2	7	125	13	85	25	60	20	30	21



- Material : S45C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish



FVJ

■ MOUTH PIECE WITH RACK FOR FREE VISE (a Pair)

► Features

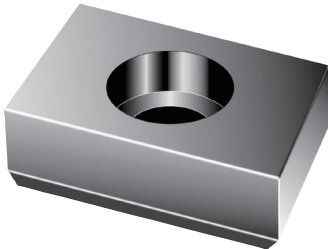
- This special mouth piece with rack offers stable work clamping.
- Even if the work clamped surface has mill scale, is corrugated or slanted, this mouth piece clamps the work surely by pushing it down.

► Example of use

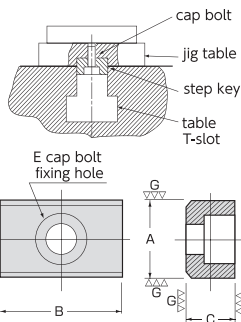


When replacing the mouth piece, bolt from conventional set can be used.

Item No.	Applicable vise	Size (mm)							N.W. (kg) (a pair)
		A	N	O	P	E	F	R	
FVJ100	FV350-N-E	70	60	15	40	22.5	13.5	100	0.69
FVJ200	FV450-N-E	85	70	18	50	23	15	175	1.1
FVJ300	FV550-N-E	110	85	25	60	28	17	220	1.9



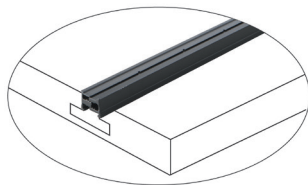
- Material : S50C
- Heat treatment : Quenched 40~45HRC
- Finish : Grinding finish



FKY

■ STEP KEY

Item No.	Size (mm)				N.W. (g)
	A ^{h7}	B	C	E bolt	
FKY12	12	20	10	M5	17
FKY14	14	25	10	M6	21
FKY16	16	25	10	M6	26
FKY18	18	25	10	M6	30
FKY20	20	25	10	M6	34
FKY22	22	40	20	M10	126



- Material : 6063-S (JIS)

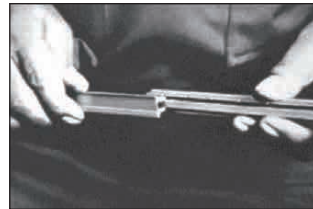


Fig.1

The range of the slot width available by switching the position as explained at Fig.1 is as shown on the size chart below.

The switching operation is simple. Separate body A (male) and body B (female) as shown in Fig.1, and insert them so that they fit with the requested T-slot width.

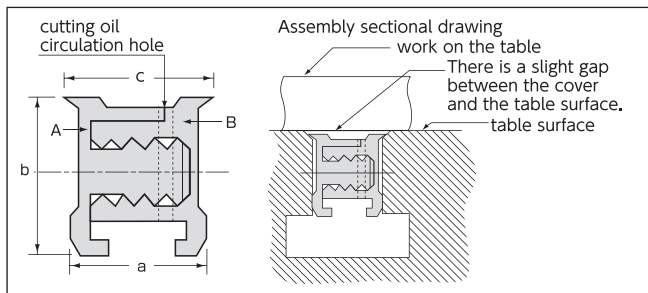


Fig.2

Position can be switched as on the chart below

	TCV1218	TCV1824	combine figure
12mm use	14mm use	16mm use	18mm use
18mm use	20mm use	22mm use	24mm use

TCV

■ ADJUSTABLE T-SLOT TIP COVER

► Features

- Swarf can be disposed of more easily.
- Column change can be done more simply.
- Oil and swarf get separated naturally.
- Cost saving because double purpose type.
- The cover is made of aluminum so it can be easily cut to fit the table length.

■ Cutting the T-slot cover

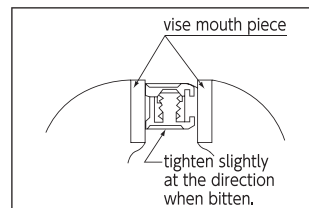


Fig.3

During cutting, tighten slightly when the piece is bitten by the vise. Bite as shown on Fig.3.

■ Caution during cutting

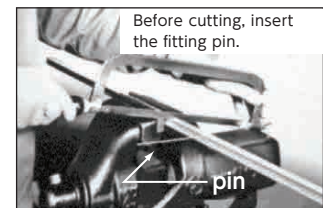


Fig.4

The pitch of the oil circulation hole is the same for body A and body B. Thus, when using the fitting pin, all the through holes of the cut body meet.

Item No.	Size details (mm)				
	a	b	c	Applicable T-slot width	Length
TCV1218100	12	14.4	13	12·14·16·18	1,000
TCV1824100	18	18	19	18·20·22·24	1,000

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

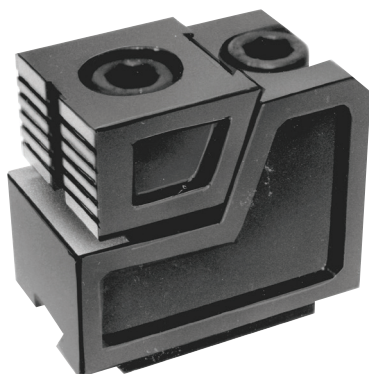
Clamp kits

Screw supports

Mini blocks, mini supports

Clamping tools

Clamps



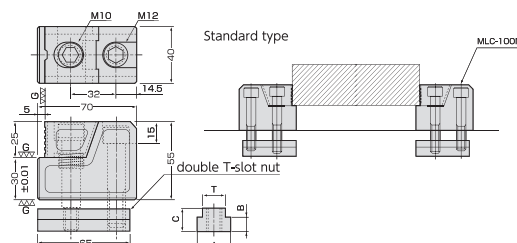
- Material : S45C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish / grinding

MLC100(AN・BN・CN)

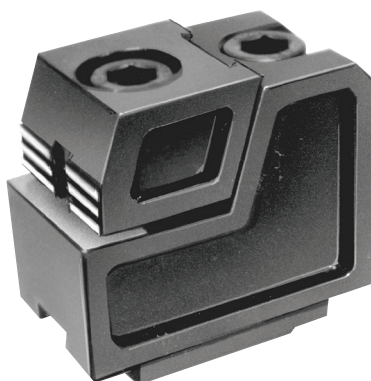
■ MECHALOCK CLAMP (Standard Type)

► Features

- The compact design allows to use efficiently the space of jig block or machine table.
- It clamps with the work kept at a certain height.
- Fixing and removing the work can be easily done by the spring type slide clamp.



Item No.	Tightening force(kN)	Size (mm)						N.W. (kg)
		Applicable T-slot	Stroke	A	B	C	T	
MLC100AN	7	14	2.8	22.2	8.7	15.8	13.8	0.98
MLC100BN	7	16		25.4	8.7	15.8	15.8	1.03
MLC100CN	7	18		28.5	11.1	19	17.5	1.08



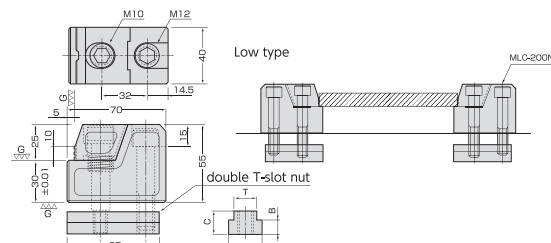
- Material : S45C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish / grinding

MLC200(AN・BN・CN)

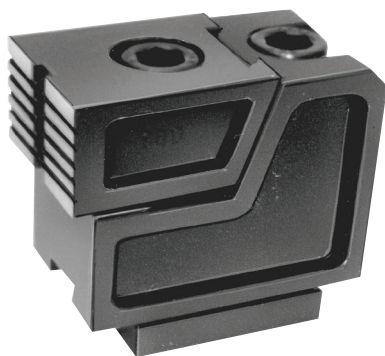
MECHALOCK CLAMP (Low Type)

► Feature

- Ideal for thin works.



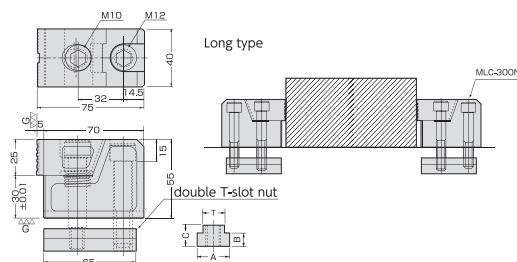
Item No.	Tightening force(kN)	Size (mm)						N.W. (kg)
		Applicable T-slot	Stroke	A	B	C	T	
MLC200AN	7	14	2.8	22.2	8.7	15.8	13.8	0.97
MLC200BN	7	16		25.4	8.7	15.8	15.8	1.02
MLC200CN	7	18		28.5	11.1	19	17.5	1.07



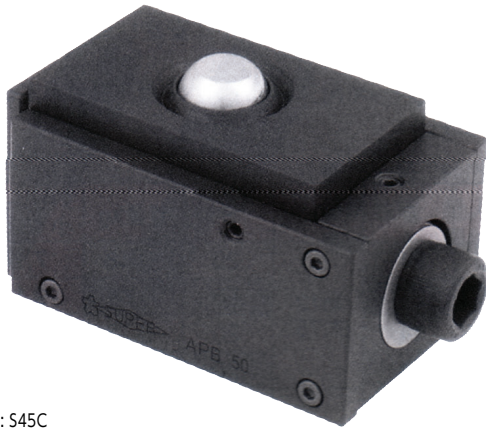
- Material : S45C
- Heat treatment : Quenched 35~40HRC
- Finish : Black finish / grinding

MLC300(AN・BN・CN)

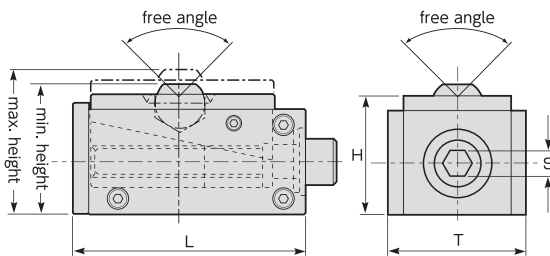
■ MECHALOCK CLAMP (Long Type)



Item No.	Tightening force(kN)	Size (mm)						N.W. (kg)
		Applicable T-slot	Stroke	A	B	C	T	
MLC300AN	7	14	2.8	22.2	8.7	15.8	13.8	1.05
MLC300BN	7	16		25.4	8.7	15.8	15.8	1.1
MLC300CN	7	18		28.5	11.1	19	17.5	1.15



- Material : S45C
- Finish : Black finish



APB

ADJUSTABLE PARALLEL BLOCK

Features

- This parallel block can smoothly move up and down vertically.
- The built-in bearing allows lateral adjustment with light force.
- The ball swivel angle can be freely set.
- The ball at the top part turns freely.

Example of use



Item No.	Size(mm)						Allowable load (KN)	N.W. (kg)
	H	T	L	S	Height			
					Max.	Min.		
APB50	40	53	88.5	10	55	50	50	1.5
APB65	54	70	124	12	72	65	100	3.7



- Material : S50C
- Finish : Black finish

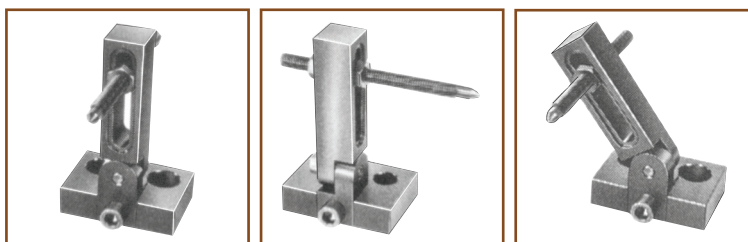
MS

MULTIPLE STOPPER

Features

- The guide bolt can be vertically adjusted within 50mm range.
- When the swing bolt of the guide part is loosened, it can swing by 180° and can be fixed at any required spot.
- The stopper can also be used by loosening the fixing bolt of the body and fixing the guide part in a 90° sideways position.

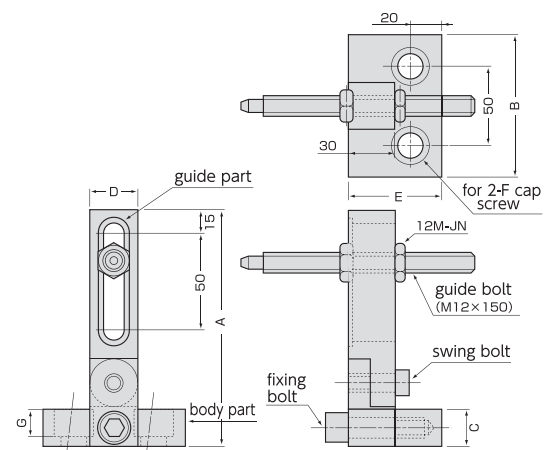
Example of use



Conventional use

Sideway use

Swing use



Item No.	Size(mm)							N.W. (kg)
	A	B	C	D	E	F	G	
MS1512	150	90	23	30	60	M12	13	1.6
MS1516	150	90	23	30	60	M16	17	1.57

Jig blocks

Sub tables

Jig plates

Angle plates

Setting blocks

Precision vises

Vacuum chucks

Clamp kits

Screw supports

Mini blocks, mini supports

Clamping tools

Clamps



- Material : S45C
- Heat treatment : Quenched 35~37HRC
- Finish : Black finish

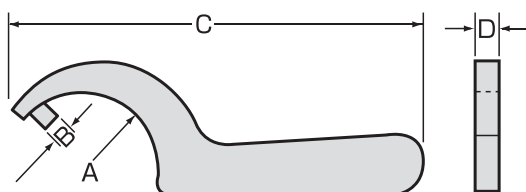
PW

PIN WRENCH HANDLE

► Feature

- Special tool for screw support.

► Example of use



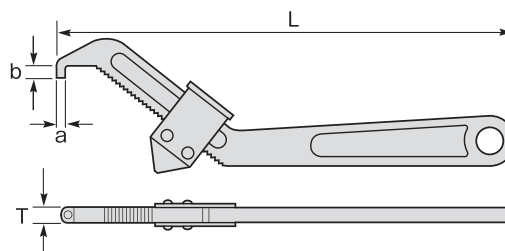
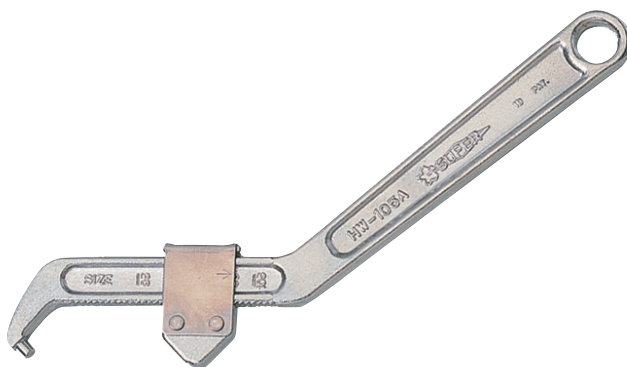
Item No.	Applicable support	Size (mm)				N.W. (g)
		A	B	C	D	
PW355	FS50S·FS70S·MSS50,65,85	17.5R	4.5	100	5	90
PW406	FS100S·MSS110	20.0R	5.5	130	6	100
PW457	FS150S·MSS165	22.5R	6.5	140	7	120
PW508	FS250S·FS300S·MSS265	25.0R	7.5	150	8	120

HW105A

HOOK SPANNER (Round Tip Type)

► Feature

- Special spanner for tightening and removing round nuts with holes.



Item No.	Size (mm)					N.W. (g)
	Applicable round nut diameter	L	a	b	T	
HW105A	35~105	270	φ6	6.5	8	350