



# **CLAMPS & WORK HOLDING DEVICES**

**BASIC CLAMPING ELEMENTS.**

**TOP CLAMPING SYSTEMS.**

**CLAMP SUPPORT SYSTEMS**

**SIDE CLAMPING SYSTEMS.**

**QUICK ACTING CLAMPING SYSTEMS.**

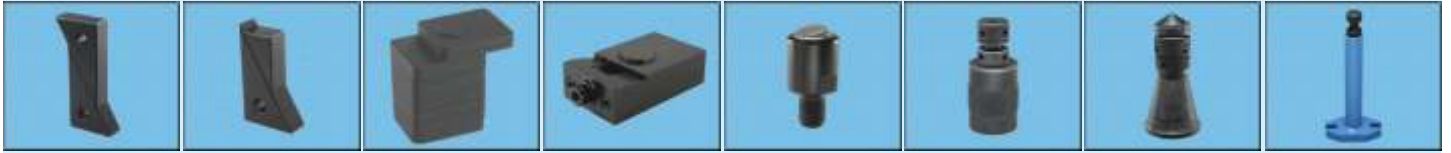
**CNC TURNING CENTER ACCESSORIES**

**INJECTION MOULD MACHINE CLAMPING SYSTEMS.**



**INDUSTRIAL TOOLS & HARDWARE**

## Group-III: Clamp Support Systems



- Step Block fine pitch
- Step Block Coarse pitch.
- Support Height block.
- Fine Adjustable block.
- Floating ball-clamping element.
- Screw Jack support.

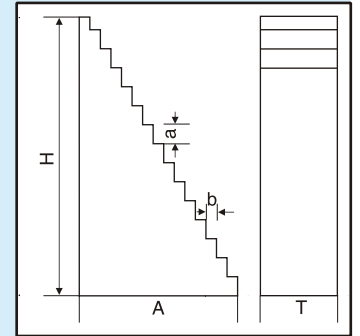
### Step Block - Fine pitch

Hardened & tempered, heat-treated Steel, Blackened.



- Due to Fine Pitch steps ease in adjustment, as fine as 1 mm adjustment possible, without sacrificing in rigidity of support
- Can be used along with step strap clamp.

Item code	A	H	T	a	b	gm
aec1301.240	19	33	30	1.5	1.0	90
aec1301.400	35	66	30	1.5	1.0	300
aec1301.730	68	131	30	1.5	1.0	1050



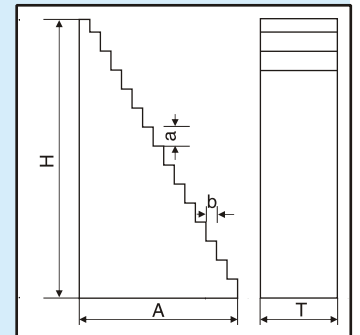
### Step Block - Coarse pitch

Hardened & tempered, heat-treated Steel, Blackened.



- Step of 4.5 mm height, quick setting if height setting is not very critical.
- Can be used along with step strap clamp.

Item code	A	H	T	a	b	gm
aec1301.241	19	33	30	4.5	2.5	90
aec1301.401	35	66	30	4.5	2.5	300
aec1301.731	68	131	30	4.5	2.5	1050

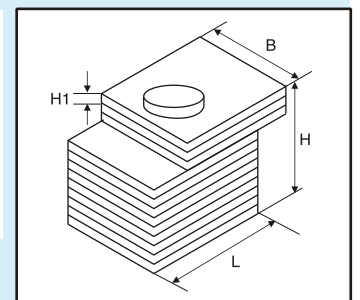


### Support Height Block

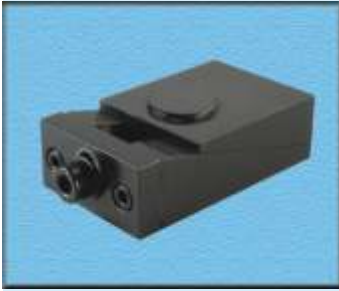


- Very useful to support variable clamping height requirement
- Avoids dangers & hazardous situations in clamping due to unsuitable support spacers.
- Simple movement gives required parallelism & clamping height.
- We can get required height by stacking the blocks also if required height is more than maximum block size.
- Special rivet head is provided for the location of blocks on one another.

Size	item code	L	B	H	H1	wt. in kgs
SHB252	aec1302.101	50	35	25	2	0.330
SHB502	aec1302.102	50	35	50	2	0.670
SHB752	aec1302.103	50	35	75	2	1.010
SHB1002	aec1302.104	50	35	100	2	1.340
SHB254	aec1302.201	60	50	25	4	0.560
SHB504	aec1302.202	60	50	50	4	1.200
SHB754	aec1302.203	60	50	75	4	1.770
SHB1004	aec1302.204	60	50	100	4	2.330

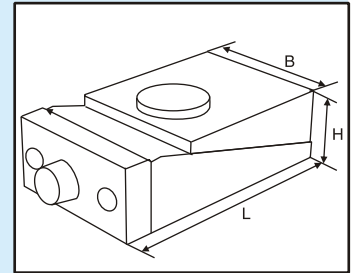


## Fine Adjustable Block



- To be used along with support height block.
- Helps to achieve precise clamping height.
- Wedge type construction.
- Easy Lifting & lowering.
- Can level work pieces up to 200 kgs.

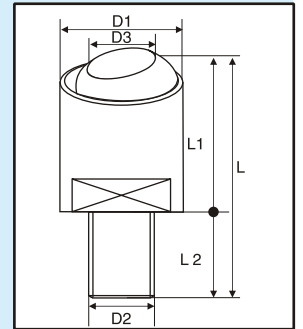
Size	item code	L	B	H	wt. in kgs
FAB200	aec1303.101	66	25	20	0.330
FAB400	aec1303.102	86	50	25	0.780



## Floating Ball Clamping Element.



- Helps clamping free of Distortion!
- Ball surface available in plain or serrated type.
- Work piece supported on flat contact area of floating, hardened Steel ball, which are free to adjust to the job contour within the socket.
- The flat surface of the ball readily adapts to the uneven surface of the work piece, hence it avoids strain in clamped position.
- Machined surface does not spring back upon the release of the clamping force.
- Most useful for unmachined casting & forging surface components.



Item code	D1	D2	D3	L1	L2	L	ball dia	wt. in kgs
aec1304.081	13	M8	08	15	08	21	10.0	0.035
aec1304.101	20	M10	10.5	18	12	30	16.0	0.072
aec1304.120	20	12	10.5	18	12	30	16.0	0.080
aec1304.121	20	M12	10.5	18	12	30	16.0	0.080
aec1304.160	30	16.0	18.0	32	21	53	25.4	0.188
aec1304.161	30	M16	18.0	32	21	53	25.4	0.188
aec1304.201	30	M20	18.0	32	21	53	25.4	0.188

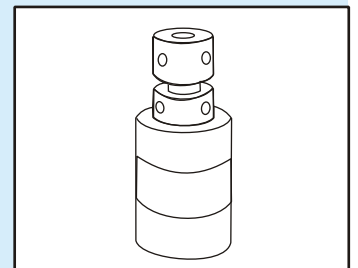
## Plain Jack.

Screw, Nut & Body in medium carbon steel.



- Self lock Screw & Nut made in trapezoidal threads for maximum efficiency & load carrying capacity.
- Location hole provided to accommodate variety of pads.
- Pads come in 4 different shapes.

Item code	Range	Base	max.load	Wt. in kgs
aec1305.101	40-50	32.0	650 kgs	0.230
aec1305.102	50-70	45.0	650 kgs	0.500
aec1305.103	70-100	45.0	700 kgs.	0.750



## Wide base Jack.

Broad based screw Jack for better stability.

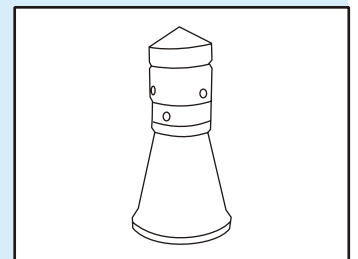


- Due to broad base more height of screw jack is allowed.
- Height range from minimum 60 mm to maximum 250 is available with this model.

Item code	Range	Base	max.load	Wt. in kgs
aec1305.201	60-95	50	650 kgs	0.5
aec1305.202	95-140	65	650 kgs	1.5
aec1305.203	140-200	80	700 kgs	2.8

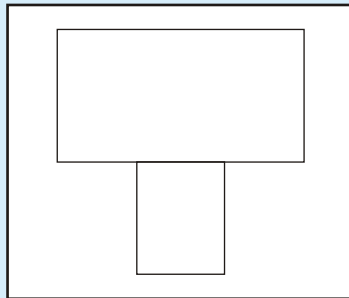
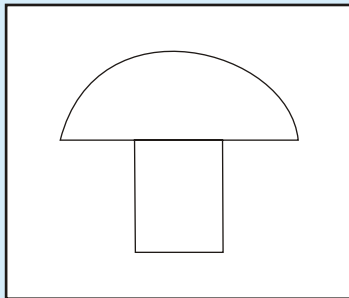
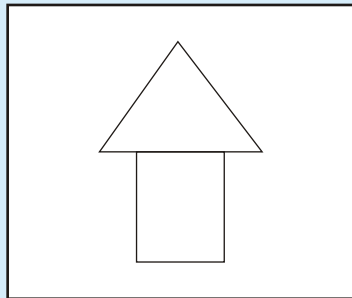
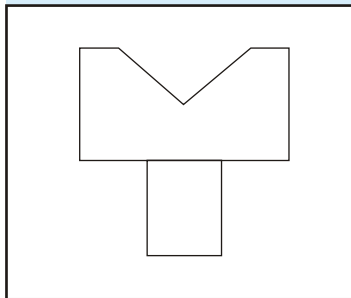
NOTE : Separate height adjustment cylinder available for model no aec1305.203, having male & female collar on either end for piling up with screw jack or another Height cylinder.

Item code	Range	Base	Height	wt. in kgs.
aec1305.213	140-275	80	75 mm	1.0



## Pads for the Jack.

Designed to support work pieces of different shapes & sizes.

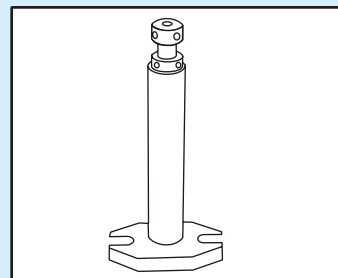


## Slim Jack



- Use of plain slim barrel diameter helps support in space constraint as well as to go closer to the work piece.
- One side Flange Design is used for height up to 200-mm, while double side flange jack for above 200 mm to give better stability to the screw Jack.

Item code	Range	Base	max.load	Wt. in kgs
aec.1305.401	100-135	75x120	5000 kgs.	1.650
aec.1305.402	135-200	75x120	5000 kgs.	2.200
aec.1305.403	200-320	85x150	5000 kgs.	3.910
aec.1305.404	320-550	85x150	5000 kgs.	5.200



\* All dimensions are in mm unless otherwise specified.

\* Due to constant development & enhancement in designs, dimensions given in catalogue may change without prior notice.

# INDUSTRIAL TOOLS & HARDWARE

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