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B.R. 'L' Angel plate

B.R. Compound Table

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B.R. Engraving Indexing Head

B.R. Angular Sine Table







B.R. V Block parallel swivelling swiveling Self centering vice

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B.R. Radial Drilling Tilting Box Table



B.R. Radial Drilling Tilting & Swiveling Box Table

B.R. Heavy duty Collet Indexing Head

Wa

Since 1995

B.R. Parallel swivelling swiveling Self centering vice

B.R. Universal Ball

Parallel Self Centering vice

Indexing head

B.R. Turbo Hydraulic M/c Vice

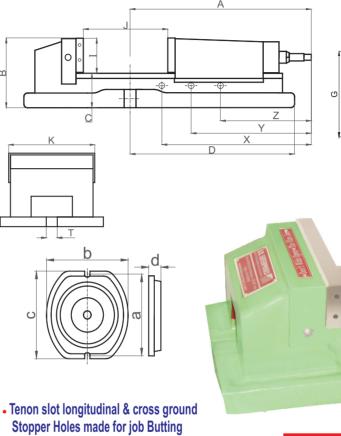
B.R.Self centering vice

# B.R. PRECISION HYDRAULIC MACHINE VICE

# **B.R. PRECISION HYDRAULIC MACHINE VICES**



Model Type: BR HYMV - 110 - 150 -160 - 200 - 250 - 300							
Hydraulically Operate Swivel Base type							
				N	lodel Types.	& Dimensio	ns
Specification	Model Type BR-HYMV-110	Model Type BR-HYMV-150	Model Type BR-HYMV-160	Model Type BR-HYMV-200	Model Type BR-HYMV-250	Model Type BR-HYMV-300	
Width of jaws ( K )	110 mm	150 mm	160 mm	200 mm	150 mm	150 mm	1
Depth of jaws ( I )	35 mm	55 mm	55 mm	65 mm	65 mm	55 mm	1
Max. Jaw opening range ( J )	0-180 mm	0-150 mm	0-200 mm	0-300 mm	0-250 mm	0-300 mm	1
Work face Height ( C )	59 mm	80 mm	80 mm	98 mm	80 mm	80 mm	
Position No I (X)	0 - 65 mm	0 - 75 mm	0 - 100 mm	0 - 100 mm	0 - 85 mm	0 - 100 mm	
Position No II (Y)	65 - 125 mm	75 - 150mm	100 - 200 mm	100 - 200 mm	85 - 170 mm	100 - 200 mm	
Position No III (Z)	125 - 180 mm			200 - 300 mm	170 - 250 mm	200 - 300 mm	
Length, Slot to Movable jaw Lever @ (X) of	open "A" 360 mm	370 mm	390 mm	400 mm	385 mm	400 mm	
Length, Slot to Movable jaw Lever @ (Y) of	open "A" 420 mm	445 mm	490 mm	500 mm	470 mm	500 mm	
Length, Slot to Movable jaw Lever @ (Z) o	open "A" 475 mm			600 mm	555 mm	600 mm	
Overall width with swivel base	205 mm	335 mm	335 mm	370 mm	335 mm	335 mm	
Overall width with out swivel bas	e ( G ) 165 mm	225 mm	225 mm	270 mm	230 mm	225 mm	
length of Base (E)	435 mm	465 mm	530 mm	675 mm	580 mm	615 mm	
Clamping force	1000 Kgs	4000 Kgs	4000 Kgs	6000 Kgs	5400 Kgs	5400 Kgs	
Overall height with swivel base	125 mm	184 mm	184 mm	221 mm	184 mm	184 mm	
Overall height without swivel bas	se (B) 95 mm	136 mm	136 mm	165 mm	136 mm	136 mm	
Tenon slot size ( T )	14 mm	18 mm	18 mm	18 mm	18 mm	18 mm	
PCD for Clamping slot at Cross and Long	gitudinal cross x Longitudinal	cross x Longitudinal 193 433	cross x Longitudinal 193 498	cross x Longitudinal 238 643	cross x Longitudinal 198 548	cross x Longitudinal 193 583	
Clamping slot size	16 mm	18 mm	18 mm	18 mm	18 mm	18 mm	
Overall Length Of Vice With Handle	e ( L ) 710 mm	665 mm	710 mm	810 mm	845 mm	845 mm	
Total weight (App)	19 Kgs	45 Kgs	50 Kgs	80 Kgs	55 Kgs	55 Kgs	
Total Weight With Swivel Base (A	app) 24 Kg	60 Kg	65 Kg	94 Kg	15 Kg	70 Kg	
Swivel Base Length x Width ( b x	c)	330 x 310mm	330 x 310mm	397 x 316 mm	330 x 310mm	330 x 310mm	
Swivel Base Height ( d )		48 mm	48 mm	56 mm	48 mm	48 mm	
P.C.D Of Swivel Base clamping s	lot	314 mm	314 mm	365 mm	314 mm	314 mm	



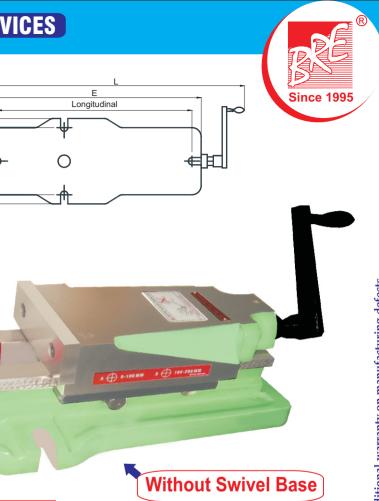
- at the 2 sides of Jaw plates Pin Changing Type for Extra Open Operated : Mechanical Hydraulic Vice
- No Hammering
- No Pipe Locking
- No Hydraulic Power Pack Required
- Extremely easy To clamp and Un-Clamp
- Trouble free Performance

# **Descriptions**

BR Precision Hydraulic M/c Vice Pin Hole Adjustable Type Made out of high tensile casting, machined & surface grounded to ensure maximum accuracy. Jaw plates are made out of tool steel, hardened and grounded with stopper tapped hole in Jaw plate side and lifting hole. Acme threaded Screw rods are made out of alloy steel, hardened and ground Inbuilt hydraulic cylinder for getting high clamping force. The Tenon slots longitudinal & cross Grounded. Once The job is placed on the Bed there won't be Necessity of Inspecting

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02

# **B.R. PRECISION POWER HYDRAULIC MACHINE VICE**

# **B.R. POWER HYDRAULIC MACHINE VICES**

# Model Type: BR - PHMV - 100 - 130 - 160 - 200



# **Trouble Free** Performance

**Operated in Hvdraulic & mechanical Type** 

achine

Powel



### **Descriptions & Operation**

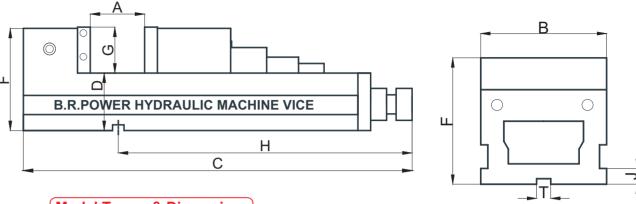
B.R.Precisions Power Hydraulic machine vice: Angle fixed type, suitable for horizontal and vertical combined heavy cutting for cnc Machining centre, VMC and HMC, Angle Fixed type spherical segment ball can produce the force for angle locking which can make the vice plate floating upward and avoid slanting of the workpiece. powerful material cast iron, with high absorption and has strong anti-tension, which can keep long durability for absorption and has strong rigidity with high precision tenon slot grounded. Made out of high tensile casting, machined & surface ground to ensure maximum accuracy. Jaw plates are made out of tool steel, hardened and ground inbuilt hydraulic Booster system for maximum clamping force with minimum pressure. Note: No hammering, No-pipe locking

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BRE



Model Types. & Dimensions	3			
Specification	Model Type BR-PHMV-100	Model Type BR-PHMV-130	Model Type BR-PHMV-160	Model Type BR-PHMV-200
Width of Jaws <mark>( B )</mark>	100 mm	130 mm	160 mm	200 mn
Depth of Jaws ( G )	55 mm	55 mm	55 mm	70 mr
Jaw Opening Range ( A )	0 - 130 mm	0 - 185 mm	0 - 260 mm	0 - 290 mr
Height of Work face ( D )	85 mm	98 mm	115 mm	125 mr
Overall Height ( F )	142 mm	153 mm	170 mm	180 mr
Overall Width of base(B)	102 mm	132 mm	162 mm	202 mr
Overall length with Handle ( E )	440 mm	470 mm	560 mm	670 mr
'L' Clamping Base Height ( J )	21 mm	21 mm	23 mm	23 mr
Length from Tenon slot to Base End(H)	345 mm	385 mm	460 mm	510 mr
Overall Length with Base end lever(C)	470 mm	535 mm	625 mm	700 mr
Tenon slot(T)	18 mm	18 mm	18 mm	18 mr
Clamping Force	2000 Kg	4000 Kg	4000 Kg	4000 K
Weight (App)	22 Kg	45 Kg	60 Kg	82 K





# **B.R. PRECISION TWIN MACHINE VICE**

Model Type: BR - TWIN - 150



### Mechanically Operated

# **FEATURES**

**Trouble Free** 

Performance

# **B.R.PRECISION TWIN MACHINE VICE 150:**

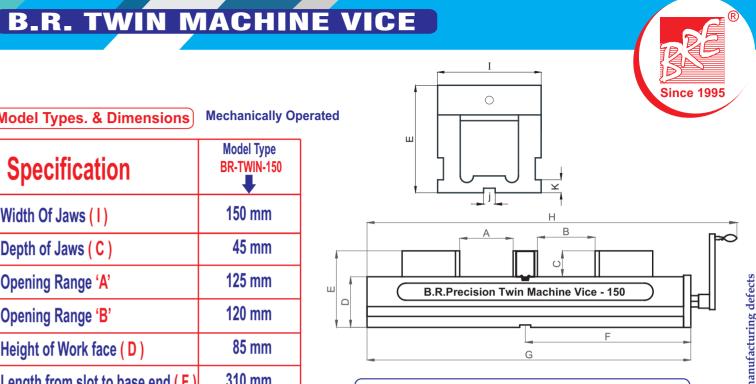
One handle can simultaneously operate two movable jaws and clamps 2 pieces of workpiece of same size or different size or one large workpiece. This type of vice is Very use full for Same height or Production House Advantage In this kind of vice the cutting materials are restricted due to the Safety guards in the vice One applicant to be used in the tool room. The cast iron Body is made of high tensile strength material, Tenon Slots are Hardened and Ground This model can increase efficiency and productivity of any HMC, VMC & CNC machine & manual milling machine

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Specification	Model Type BR-TWIN-150
Nidth Of Jaws ( I )	150 mm
Depth of Jaws ( <mark>C</mark> )	45 mm
Opening Range 'A'	125 mm
Opening Range 'B'	120 mm
Height of Work face ( D )	85 mm
Length from slot to base end ( F )	310 mm
Overall Width of base ( I )	152 mm
Total length ( <mark>G</mark> )	554 mm
Total length With handle ( H )	664 mm
Total Height(E)	130 mm
'L' Clamping Base Height ( K )	18 mm
Tenon slot(J)	18 mm
Weight (App)	45 Kg

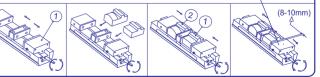
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# **B.R.PRECISION Twin Machine Vice 150**

- A Release main screw to let movable jaw(2) to the end. open movable jaw with more force and the opening distance is wider that workspace
- B) locate workspace respectively
- C Turn main screw@workpiece clamped first, then tighten (1) workspace
- D After machining, release main screw, and movable jaw move first, then movable jaw 2 move. Movable jaw moved is always at the opening distance within (8~10mm).
- F) After replacing, go back to © for repeated machining.

(Movable iaw (1) is later clamping but first open.)





Tenon Slot to Base end (E)

Total weight (App)

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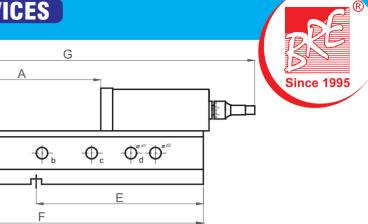
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**•** 

225 mm

20 Kg

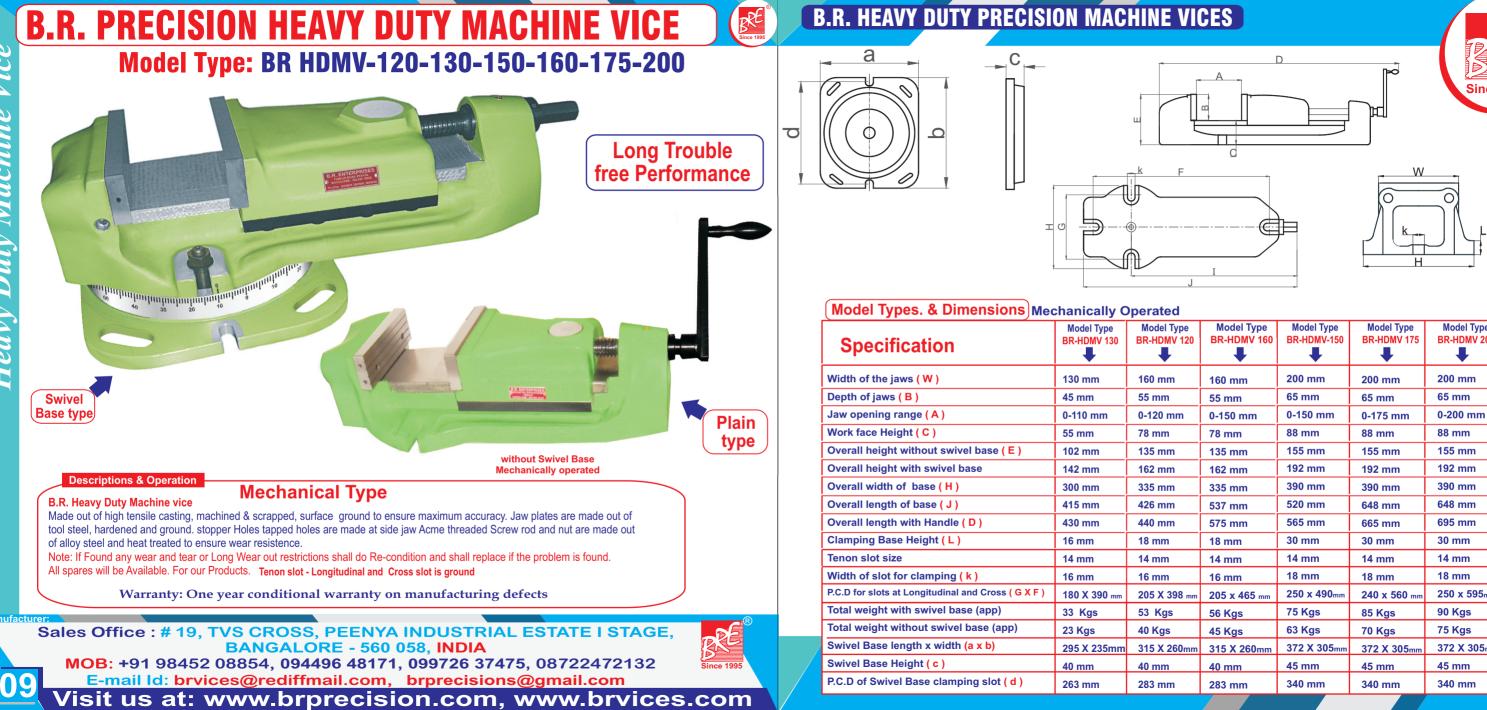




### **Hydraulically Operated**







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**PUDD** 



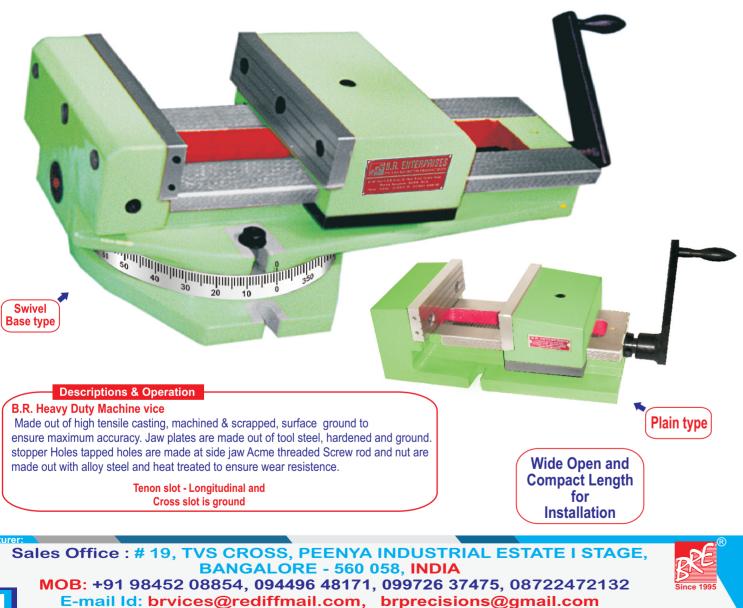


pe 120	Model Type BR-HDMV 160	Model Type BR-HDMV-150	Model Type BR-HDMV 175	Model Type BR-HDMV 200
	•	000	•	000
	160 mm	200 mm	200 mm	200 mm
	55 mm	65 mm	65 mm	65 mm
n	0-150 mm	0-150 mm	0-175 mm	0-200 mm
	78 mm	88 mm	88 mm	88 mm
	135 mm	155 mm	155 mm	155 mm
	162 mm	192 mm	192 mm	192 mm
	335 mm	390 mm	390 mm	390 mm
	537 mm	520 mm	648 mm	648 mm
	575 mm	565 mm	665 mm	695 mm
	18 mm	30 mm	30 mm	30 mm
	14 mm	14 mm	14 mm	14 mm
	16 mm	18 mm	18 mm	18 mm
8 mm	205 x 465 mm	250 x 490mm	240 x 560 mm	250 x 595mm
	56 Kgs	75 Kgs	85 Kgs	90 Kgs
	45 Kgs	63 Kgs	70 Kgs	75 Kgs
0mm	315 X 260mm	372 X 305mm	372 X 305mm	372 X 305mm
	40 mm	45 mm	45 mm	45 mm
	283 mm	340 mm	340 mm	340 mm
_				

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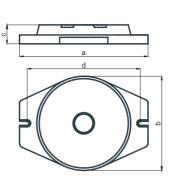
# B.R. PRECISION HEAVY DUTY-SP- MACHINE VICE

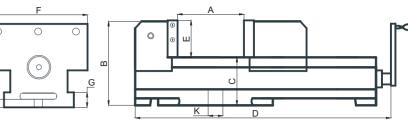
# Model Type: BR HDSMV-100-150-200-220-300-250-350



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# B.R. HEAVY DUTY PRECISION (SP) MACHINE VICES





Tenon slot - Longitudinal and Cross slot is ground

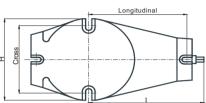
### Model Types. & Dimensions

**Mechanically Operated** 

Specification	Model Type BR-HDSMV-100	Model Type BR-HDSMV-150	Model Type BR-HDSMV-200	Model Type BR-HDSMV-220	Model Type BR-HDSMV-300	Model Type BR-HDSMV-250	Model Type BR-HDSMV-350
Width of jaws ( F )	160 mm	160 mm	160 mm	200 mm	200 mm	250 mm	250 mm
Depth of jaws ( E )	55 mm	55 mm	55 mm	70 mm	70 mm	75 mm	75 mm
Jaw opening range ( A )	0-100 mm	0-150 mm	0-200 mm	0-200 mm	0-300 mm	0-250 mm	0-350 mm
Work face Height ( C )	75 mm	75 mm	75 mm	95 mm	95 mm	99 mm	99 mm
Overall width without swivel base ( H )	160 mm	160 mm	160 mm	200 mm	200 mm	250 mm	250 mm
Overall width with swivel base	237 mm	237 mm	237 mm	325 mm	325 mm	355 mm	355 mm
Overall length (app) ( D )	270 mm	320 mm	425 mm	460 mm	505 mm	560 mm	570 mm
Overall height without swivel base ( B )	132 mm	132 mm	133 mm	168 mm	168 mm	167 mm	167 mm
Overall height with swivel base	167 mm	167 mm	168 mm	210 mm	210 mm	212 mm	212 mm
Tenon slot size	14 mm	14 mm	14 mm	18 mm	18 mm	18 mm	18 mm
Clamping slot Height ( G )	18 mm	18 mm	18 mm	23 mm	23 mm	30 mm	30 mm
Clamping slot <mark>( k )</mark>	16 mm	16 mm	16 mm	18 mm	18 mm	18 mm	18 mm
Bolt Clamping P.C.D At cross & length	120 x 245	120 x 290	120 x 395	180 X 380	180 X 455	225 X	225 x 540mm
Swivel Base Length & width ( a x b )	280 x 185mm	280 x 185mm	280 x 185mm	320 x 235mm	320 x 235mm	345 X 285mm	345 X 285mm
Swivel Base Height ( c )	35 mm	35 mm	35 mm	42 mm	42 mm	48 mm	48 mm
P.C.D for clamping slot of Swivel Base (d)	248 mm	248 mm	248 mm	288 mm	288 mm	313 mm	313 mm
Weight without swivel base (app)	22 Kgs	23 Kgs	35 Kgs	52 kgs	55 kgs	70 kgs	82 kgs
Weight with swivel base (app)	27 Kgs	28 Kgs	40 Kgs	61 kgs	64 kgs	92 kgs	102 kgs







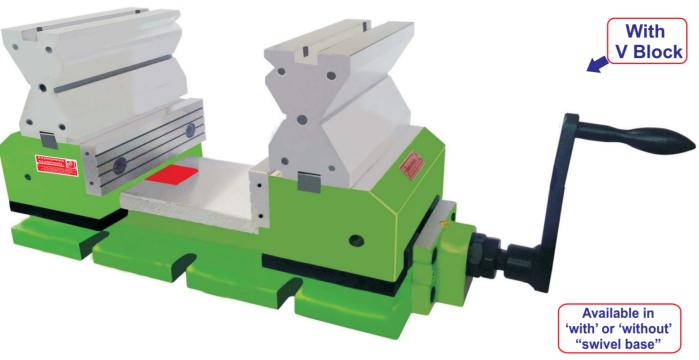
Wide Open and Trouble **Free Performance** 

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### **B.R. PRECISION PARALLEL 'V' BLOCK SELF CENTERING VICE** BRE

# **B.R. PARALLEL V BLOCK SELF CENTERING VICES**

# Model Type: BR-PVB-SCV -125 -160 - 200



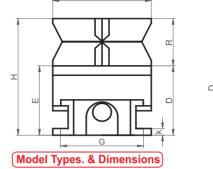
### Discription & Operation

# BR Precision Parallel 'V' Block Mounting Self centering vice

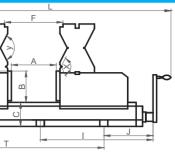
This Design is kind of unique design where it is self centered which can grip the work piece under Double grip with accurate precision where as the job gets self centered automatically by the simultaneous movement of both jaws by means of single crank handle with these special features. The 'V' Block is mounted above where has the round shaft can be held at two interchangeability sides from 14 - 260ø for the different kinds of diameter to hold. This type of vice is used in the tool room purpose, milling machines, v.m.c machines and etc.,

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Specification	Model Type BR-PVB-SCV-125	Model Type BR-PVB-SCV-160	Model Type BR-PVB-SCV-200
Width of Jaws ( K )	125 mm	160 mm	200 mm
jaw Opening Range ( A )	115 mm	160 mm	245 mm
Work face Height ( C )	75 mm	80 mm	85 mm
Depth of jaws without 'V' Block ( B )	40 mm	45 mm	60 mm
'V' Block Shaft Holding Range	14 - 140 Ø mm	14 - 160 Ø mm	14 - 160 Ø mm
'V' Block shaft Holding Range @ ( x )	Ø 14 - 20 mm	Ø 14 - 20 mm	Ø 14 - 20 mm
'V' Block shaft Holding Range @ ( y )	Ø 40 - 80mm	Ø 50 -100 mm	Ø 50 - 100mm
'V' Block shaft Holding Range @ ( z )	Ø 50 - 140 mm	Ø 70 - 160 mm	Ø 70 - 160 mm
'V' Block step opening range ( F )	150 mm	205 mm	290 mm
Total Height of base with 'V' Block ( H )	210 mm	250 mm	275 mm
Total Height of Base without 'V' Block ( E )	105 mm	125 mm	150 mm
'V' Block Height ( R )	105 mm	125 mm	125 mm
Total Length of Base(L)	395 mm	465 mm	565 mm
Tenon slot size	14 mm	18 mm	18 mm
Clamping slot size and height ( <b>k</b> )	16mm - 25 mm	16mm - 25 mm	16mm - 28 mm
P.C.D of First slot to Base Lever ( J )	136 mm	175 mm	200 mm
P.C.D ot Second slot to Base Lever ( I )	150 mm	269 mm	325 mm
P.C.D of open slot @ cross and length ( T )	109 x 160 mm	156 x 188 mm	184 x 230 mm
Weight (App)	47 kgs	55 kgs	85 kgs



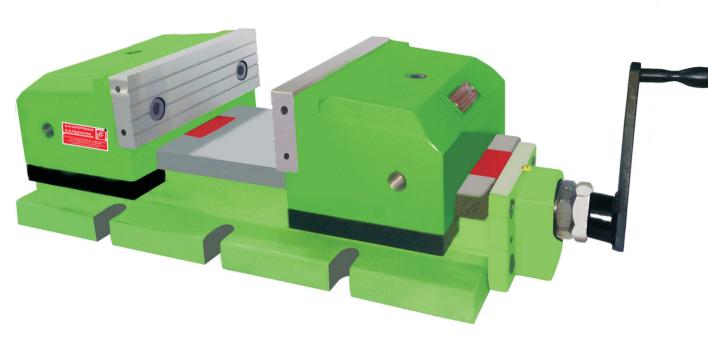
Mechanically Operated





# B.R. PRECISION PARALLEL SELF CENTERING VICE

# **Model Type: BR-PSCV -125-160-200**



### **Discription & Operation**

**BR Precision Parallel Mounting Self centering vice** 

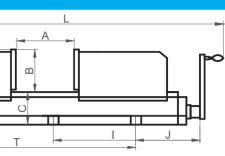
This Design is kind of unique design where it is self centered which can grip the work piece under Double grip with accurate precision where as here job gets self centered automatically by the simultaneous movement of both jaws by means of single crank handle, with these special features This type of vice is used in the tool room purpose, milling machines, v.m.c machines and etc.,

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Specification	Model Type BR PSCV-125
Width of Jaws ( G )	125 mm
jaw Opening Range <mark>( A )</mark>	0 - 115 mm
Depth of Jaws ( <mark>B</mark> )	40 mm
Work face Height ( C )	75 mm
Total Height of base ( D )	105 mm
Total Length of Base(L)	395 mm
Total Width of Base ( G )	126 mm
Tenon slot size	14 mm
Clamping slot size and height( <mark>k</mark> )	16mm - 25 mm
P.C.D of First slot to Base Lever(J)	150 mm
P.C.D ot Second slot to Base Lever(I)	230 mm
P.C.D of open slot @ cross and length( a x T)	109 x 160 mm
Weight (App)	32 kgs





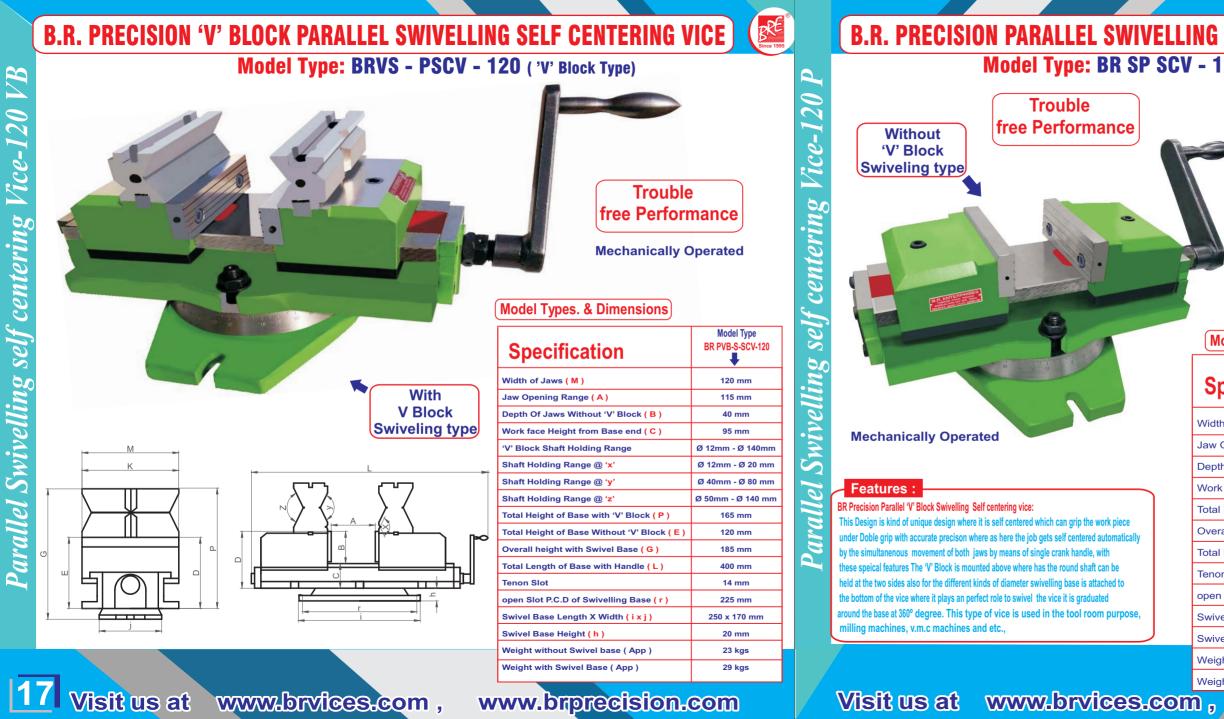
### chanically Operated

Model Type BR PSCV-200
200 mm
0 - 245 mm
60 mm
85 mm
150 mm
565 mm
202 mm
18 mm
16 mm - 25mm
215 mm
325 mm
184 x 230 mm
85 kgs

Lona Trouble free Performance

Since 199





NG SELF CENTERING VI		R
- 120 ( Plain Type)		
Model Types. & Dimensions		Warranty: One year conditional warranty on manufacturing defects
Specification	Model Type BR PS-SCV-120	n manufac
Width of Jaws ( K )	120 mm	utv c
Jaw Opening Range ( A )	115 mm	varrs
Depth Of Jaws ( B )	40 mm	v let
Work face Height from Base end ( C )	95 mm	H.
Total Height of Base ( D )	110 mm	puo
Overall height with Swivel Base ( E )	140 mm	Parc
Total Length of Base with Handle ( $L$ )	402 mm	V e N
Tenon Slot	14 mm	Ć
open Slot P.C.D of Swivelling Base	220 mm	rant
Swivel Base Length X Width (I x j )	255 mm x175mm	Warr
Swivel Base Height ( h )	20 mm	
Weight without Swivel base ( App )	23 kgs	

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29 kgs

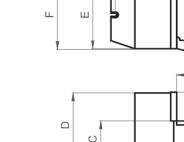
18

Weight with Swivel Base (App)

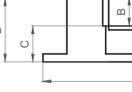
# B.R. PRECISION LIGHT DUTY MACHINE VICE - 140

# **B.R. LIGHT DUTY MACHINE VICE**





free Performance



**Mechanically Operated** Swivel Base type

### B.R.Precisions Light Duty Machine vice - 140

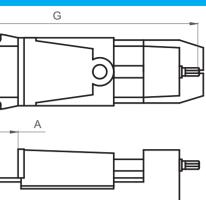
Fixed Base body swivel base are made out of high grade Iron castings, Built for high accuracy and light duty machining tenon slot are hardened and ground Jaw plates are hardened tool steel. It is most suitable for Tool room purpose and can be used in conventional machines as well V.M.C., H.M.C., Grinding machines and etc..

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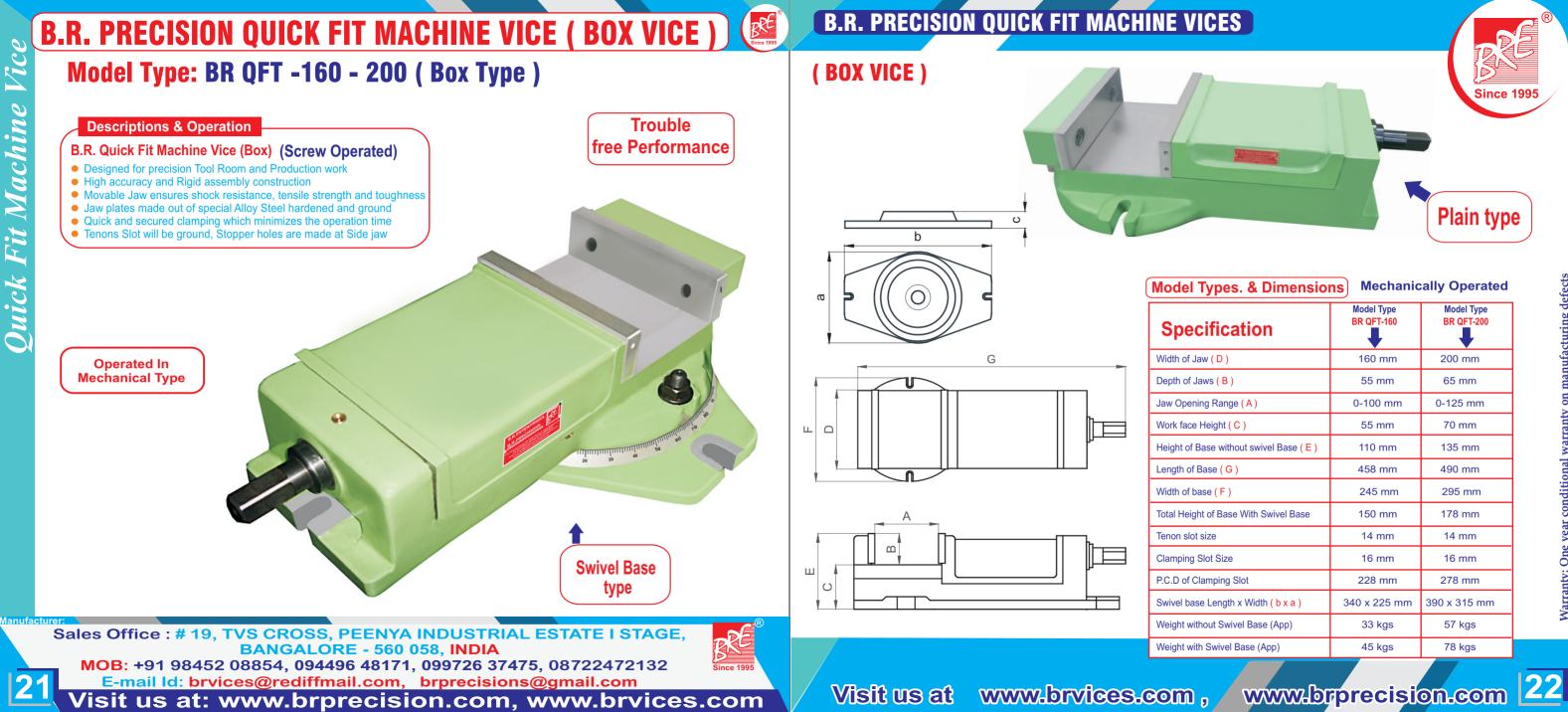






Specification	Model Type BR-LDMV-140 (NEW)
Width of Jaw ( E )	140mm
Depth of Jaws ( B )	45 mm
Jaw Opening Range <mark>( A )</mark>	0-140mm
Work face Height ( <mark>C )</mark>	55 mm
Height of Base without swivel Base ( ${\sf D}$ )	103 mm
Length of Base ( H )	495 mm
Width of base (E)	140 mm
Total Height of Base With Swivel Base	138 mm
Tenon slot size	14 mm
Clamping Slot Size	16 mm
P.C.D of Clamping Slot ( G ) X ( F)	479mmX126mm
Swivel base Length x Width ( a x b )	275 x 235 mm
Swivel Base Height ( c )	35 mm
P.C.D for Swivel Base Clamping Slot (d)	243 mm
Weight without Swivel Base	35 kgs
Weight without Swivel Base	42 Kgs

20



el Types. & Dimensio	ns Mechanic	Mechanically Operated		
ecification	Model Type BR QFT-160	Model Type BR QFT-200		
of Jaw ( D )	160 mm	200 mm		
of Jaws ( B )	55 mm	65 mm		
pening Range ( A )	0-100 mm	0-125 mm		
ace Height (C)	55 mm	70 mm		
of Base without swivel Base ( E )	110 mm	135 mm		
of Base ( G )	458 mm	490 mm		
of base (F)	245 mm	295 mm		
eight of Base With Swivel Base	150 mm	178 mm		
slot size	14 mm	14 mm		
ng Slot Size	16 mm	16 mm		
of Clamping Slot	228 mm	278 mm		
base Length x Width ( b x a )	340 x 225 mm	390 x 315 mm		
without Swivel Base (App)	33 kgs	57 kgs		
with Swivel Base (App)	45 kgs	78 kgs		

# **B.R. PRECISION DRILL VICE**

# **Model Type: BR DV - 65 - 100**

23

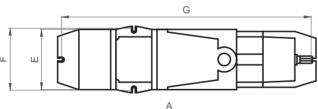
A B B B B B B B B B B B B B B B B B B B	Swivel Base type	(

### Model Types. & Dimensions

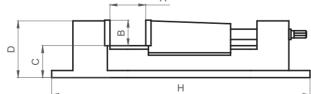
Specification	Model Type BR-DV-100	Model Type BR-DV-65
Width of jaws ( E )	100 mm	100 mm
Depth of jaws ( B )	35 mm	35 mm
Jaw opening range ( <mark>A</mark> )	93 mm	65 mm
Total width of Base (E)	104 mm	120 mm
Overall length (H)	365 mm	290 mm
Overall height without swivel base ( D )	92 mm	98 mm
Overall height with swivel base	107 mm	116 mm
Tenon slot size	14 mm	14 mm
Clamping open slot	14 mm	14 mm
Swivel Base length x width ( a x b )	127 x 185mm	127 x 185mm
Swivel Base Height ( c )	15 mm	18 mm
Weight with swivel base (app)	13 Kgs	11 Kgs
Weight without swivel base (app)	9 Kgs	7 Kgs

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Plain type



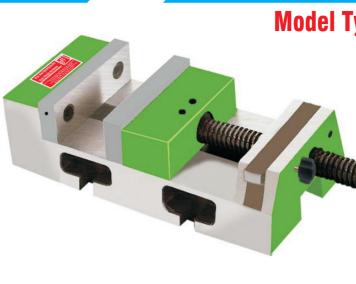
**Mechanically Operated** 



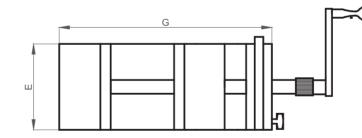
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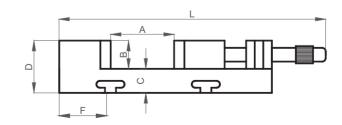
# **B.R. PRECISION QUICK FIT DRILL VICE**

BRE 1995



**Mechanically Operated** 





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# Model Type: BR QFDV -100 - 130



# **Operated In** Mechanical Type

B.R.Quick Drill Vice: Speical Design for quick clamping Quick Setting by sliding movement. Operating very quick and easy, can increase so much working efficiency than you can image Good for Short term and massive production or proto type work, suits for milling machines, grinding machine precision drilling machine accurate grounded and assembled

Model Types. & Dimensions
---------------------------

Specification	Model Type BR QFDV-100	Model Type BR QFDV-130
Width of Jaw ( E )	100 mm	130mm
Depth of Jaw ( B )	35 mm	35 mm
work face height ( C )	35 mm	43 mm
Opening Range (A)	100 mm	125mm
Total Height ( D )	72 mm	78 mm
Total Length of Base ( G )	425 mm	490 mm
Total Width of Base ( E )	100 mm	130 mm
Total Height Work Face (C)	40 mm	43 mm
Clamping Slot	14mm	14mm
Weight (App)	9 Kgs	14 Kgs

24

# **B.R. PRECISION DRILL CUM GRINDING MACHINE VICE**

# Model Type: BR-DGV-90

Model Types. & Dimensions				
Specification	Model Type BR-DGV-90			
Width of Jaws ( E )	90 mm			
Depth of Jaws ( B )	32 mm			
Jaw Opening ( A )	75 mm			
Work face Height from base ( C )	25 mm			
work face height from attach base ( I )	40 mm			
Total Length ( H )	300 mm			
Base Width ( G )	140 mm			
Total Height (D)	72 mm			
Weight (app)	8 Kgs			

Since 1995

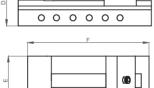
# **B.R. PRECISION TOOL MAKING & SURFACE GRINDING VICE**



### Model Types. & Dimensions

Specification	Model Type BR-GV-75	Model Type BR-GV-90	Model Type BR-GV-100	Model Type BR-GV-125	Model Type BR-GV-150
Width of jaws ( E )	48 mm	63 mm	73 mm	88 mm	125 mm
Depth of jaws ( B )	30 mm	35 mm	35 mm	45 mm	50 mm
Jaw opening range (A)	0-75 mm	0-90 mm	0-100 mm	0-125 mm	0-150 mm
Overall length (app) (F)	150 mm	170mm	190mm	225mm	285mm
Weight (app)	2.5 kg	3.5 kg	4.5 kg	7.5 kg	16 kg





# Description

**B.R.Tool making Surface Grinding Vice** Made out of Tool Steel of Specification hardened by hea It can be used and kept its high preci on its base, & sides It can be used for Modern tool roo Surface grinding machines, E.D.M, Jig Boring, and it is used for extremity forinspection departm

# **B.R. PRECISION HARDENED 'V' BLOCK** Model Type: BR - HVB-1, BR - HVB-2, BR - HVB-3, BR - HVB-4, BR - HVB-5

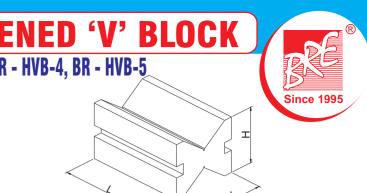


# **B.R. PRECISION CAST IRON 'V' BLOCK** Model Type: BR CVB-1, CVB-2, CVB-3, CVB-4, CVB-5, CVB-6, CVB-7

-			
Model	Types.	&	Dimensions

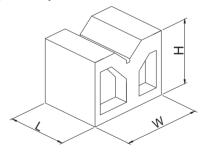
Specification	Model Type BR-CVB-1	Model Type BR-CVB-2	Model Type BR-CVB-3	Model Type BRC VB-4	Model Type BR-CVB-5	Model Type BR-CVB-6	Model Type BR-CVB-7
WIDTH (W)	300 mm	250 mm	205 mm	160 mm	135 mm	105 mm	80 mm
HEIGHT (H)	200 mm	175 mm	145 mm	95 mm	80 mm	70 mm	65 mm
LENGTH (L)	150 mm	130 mm	105 mm	65 mm	55 mm	40 mm	35 mm
Diameter Range	20 - 300	20 - 250	20 - 220	20 - 200	10 - 180	10 - 150	10 - 80





Model Types. & Dimensions

Specification	Model Type BR-HVB-1	ModelType BR-HVB-2	Model Type BR-HVB-3	Model Type BR-HVB-4	Model Type BR-HVB-5	Model Type BR-HVB-6
Width (W)	200 mm	140 mm	100 mm	80 mm	50mm	40mm
Height (H)	200 mm	140mm	100 mm	80 mm	50mm	40mm
Length (L)	150 mm	70 mm	63 mm	63 mm	63 mm	50 mm
Diameter Range	10 - 200	10 - 140	10 - 100	10 - 80	10 - 50	10 - 30



26

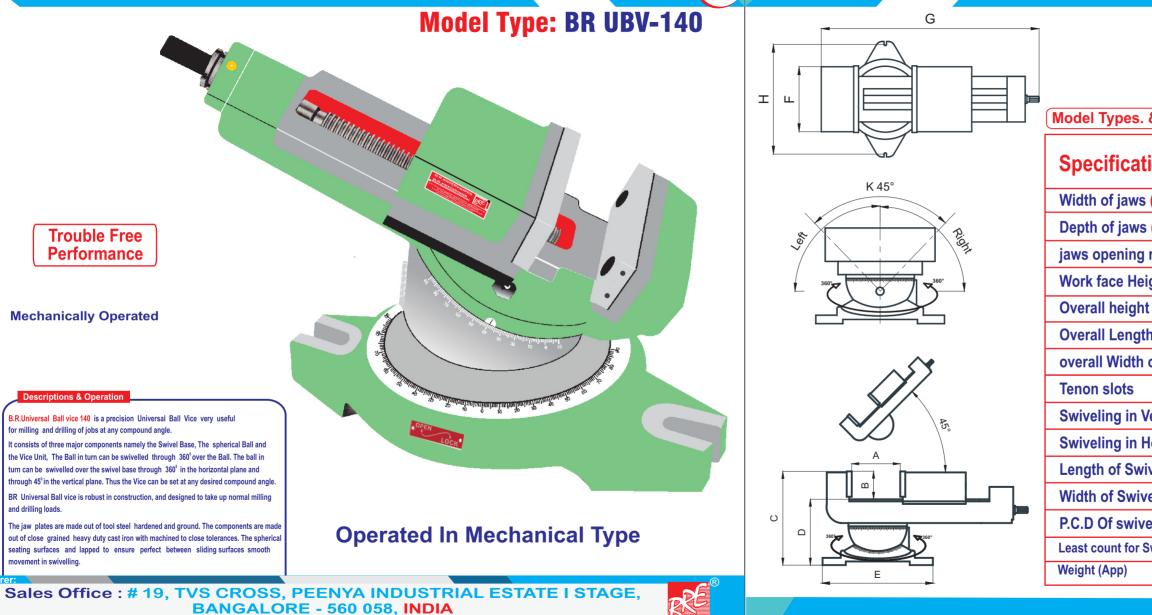
### **B.R. PRECISION UNIVERSAL BALL VICE** RRE

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# **B.R. PRECISION UNIVERSAL BALL VICE -140**



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the Vice Unit.

and drilling loads





Model Types. & Dimensions

### **Mechanically Operated**

ions	Model Type BR-UBV-140
(F)	140 mm
(B)	45 mm
range ( A )	0 - 150 mm
ight from Bottom of Base(D)	187 mm
t with Swiveling Base ( C )	236 mm
h of Base ( G )	410 mm
of base (F)	143 mm
	14 mm
/ertical plane	45°
lorizontal plane	360°
ivel Base ( E )	360 mm
el Base	225 mm
el Base slot ( H )	325 mm
Swivelling and Angular	1º (Degree)
	40 kgs

# **B.R. PRECISION SELF CENTERING VICE**

# **B.R. PRECISION SELF CENTERING VICES**

**Round dia Holding** 

Model Types. & Dimensions

111  $\cap$ 

# Model Type: BR SCV-90-110-180-250

BRE





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Mechanically Operated

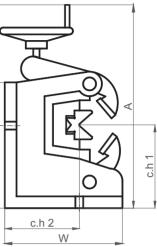
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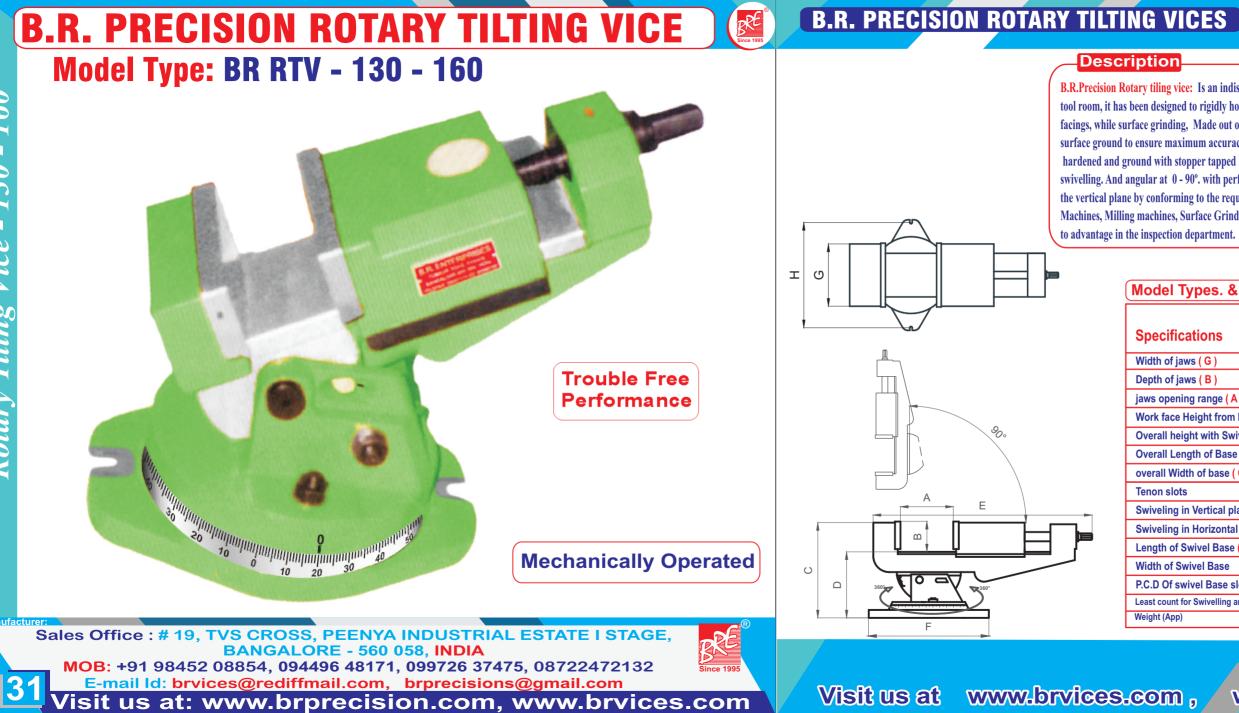


0	Model Type BR-SCV 250
I	100 to 250 mm
	250 mm
I	400 x 250 mm
I	400 x 360 mm
	715 mm
	435 mm
	280 mm
	230 mm
	328 mm
	280 mm
	425 mm
	18 mm
	135 Kgs.





A view of Dia Holding Vice



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**B.R.Precision Rotary tiling vice:** Is an indispensable item of equipment of the modern tool room, it has been designed to rigidly hold in position components having angular facings, while surface grinding, Made out of high tensile steel casting, machined & surface ground to ensure maximum accuracy. Jaw plates are made out of tool steel, hardened and ground with stopper tapped hole in Jaw Plate, where this design has 360° swivelling. And angular at 0 - 90°, with perfect accurately set by using graduation given at the vertical plane by conforming to the required dimensions, This tool is used in V.M.C Machines, Milling machines, Surface Grinding, Drilling and also may also be used



### Model Types. & Dimensions Mechanically Operated

cations	Model Type BR-RTMV-130	Model Type BR-RTMV-160
jaws ( G )	130 mm	160 mm
jaws ( B )	45 mm	55 mm
ning range ( A )	0 - 85 mm	0 - 125 mm
e Height from Bottom of Base ( D )	161 mm	176 mm
eight with Swiveling Base(C)	206 mm	235 mm
ength of Base(E)	360 mm	495 mm
idth of base ( G )	130 mm	162 mm
ots	14 mm	14 mm
in Vertical plane	90°	90°
ı in Horizontal plane	360°	360°
f Swivel Base ( F )	250 mm	325 mm
Swivel Base	192 mm	220 mm
swivel Base slot ( H )	234 mm	309 mm
t for Swivelling and Angular	1º (Degree)	1º (Degree)
p)	30 kgs	50 kgs

# **B.R. PRECISION ROTARY TILTING INDEXING HEAD VICE**

# Model Type: BR RT IH -160



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# **B.R. PRECISION ROTARY TILTING INDEXING HEAD VICE**

### **Description & Feature**

BRE

### B.R.Precision Rotary tiling indexing head vice:

to advantage in the inspection department

It is an indispensable item of equipment of the modern tool room, Where as the additional attachment of the indexing head at top of the rotary tilting vice which can be used or worked as dual application work for the tool room. It is a specialized tool that allows a workpiece to be circularly indexed that is easily and precisely rotated to preset angles or circular divisions. Common jobs for a dividing head include machining the flutes of a milling cutter cutting teeth of a gear, Milling curved slots and drilling a bolt hole circle around the circumference of a part. This indexing head as high accurate and can be divided and indexing at any P.C.D work it can be rotated easily with engage disengage type. The one round rotation of the handle varies at 4 (degree ). The Transmissions ratio for this is 1:90 It has been designed to rigidly hold in position components having angular facings, Made out of high tensile steel casting, machined & surface ground to ensure maximum accuracy. where this design has 360° swivelling at vertical position of vice base. And angular at 0 - 90°, with perfect accurately set by using graduation given at the Horizontal / vertical plane by conforming to the required dimensions, This tool is used in V.M.C Machines, Milling machines, Surface Grinding, Drilling and also may also be used

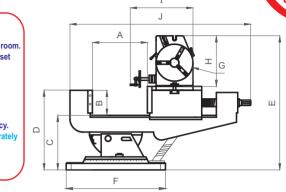
### Model Types. & Dimensions

### **Mechanically Operated**

Specifications	Model Type BR-RTMV-160
Width of jaws	160 mm
Depth of jaws ( B )	55 mm
jaws opening range ( A )	0 - 125 mm
Work face Height from Bottom of Base ( C )	176 mm
Overall height with Swiveling Base ( D )	235 mm
Overall Length of Base ( J )	495 mm
Over all Height With indexing head ( E )	162 mm
Tenon slots	14 mm
Swiveling in Vertical plane	90°
Swiveling in Horizontal plane	360°
Length of Swivel Base ( F )	325 mm
Width of Swivel Base	220 mm
P.C.D Of swivel Base slot	309 mm
Least count for Swivelling and Angular	1º (Degree)
Weight (App)	50 kgs

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Specification	Model Type BR-RDIH-160.H/V
Dia. of rotary table ( G )	160 mm
Center height ( c.h )	130 mm
Ht. from table to rotary table top ( H )	85 mm
Table Top without Flange Through bore	40 H7
Chuck Flange Through Bore	MT 4
Total width	255 mm
Total height	230 mm
Total length	330 mm
Base Width	165 mm
Base height	135 mm
Table top to jaw face (horizontal)	250 mm
Quick indexing positions	24 index
No. of Rotation Index	15° one - Index
Rotation of table least count	360° Degree
least count	1° Degree
Transmission Ratio	1: 90
Least count of graduated collar	1 minute
Tenon slot grounded	14 mm
Tiles stock spindle Through Bore MT- 3	Dia 40 mm
Tile stock Quill Movement	40 mm
Weight of rotary table W/C	40 Kgs (approx)
Weight of rotary table with chuck	48 Kgs (approx)

# **B.R. PRECISION UNIVERSAL VICE - 100**

# Model Type: BR-UV-100

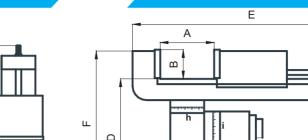
Tool and cutter Grinding vice

# **Trouble Free** Performance

### **Descriptions & Operation**

B.R.Precision Universal vice: is a precision vice. It operates in all three planes and can be set any compound angle easily three seperate swivelling movements are provided to adjust to any angle, with fully graduated arrangement, with positive locking giving ample rigidity. The sliding jaw is controlled by a detachable hand lever. slides on accurately ground surfaces. And is fitted with hardened steel strips ensuring perfect allegement and rigidity. The fixed and sliding jaw faces are made of an steel cast iron with accurate. It is very useful for tool and cutter grinder, surface grinding, mini drilling machine and small milling units. All parts are accurately machined and the jaws are made out of tool steel, hardened and ground. The stopper holes are provided at the side jaw face. Graduations in degrees are provided in all three planes.

**Mechanical Operated** 



# G Model Type

# **Specification**

Width of jaws Depth of jaws Work face Heig jaws opening ra **Overall height Overall Length** overall Width of Tenon slots Swiveling in Ve Swiveling in Ho Length of Swive

Width of Swive

P.C.D Of swivel

Least count for Sw Weight (App)

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С

# B.R. PRECISION UNIVERSAL TOOL AND CUTTER GRINDING VICE





es. & Dimensions Mechanically Operated			
Model Type BR-UV-100			
100 mm			
30 mm			
160 mm			
0 - 70 mm			
175 mm			
275 mm			
100 mm			
14 mm			
180°			
360°			
185 mm			
128 mm			
170 mm			
1º (Degree)			
14.5 kgs			

36

# **B.R. PRECISION ANGULAR SINE VICE**

# B.R. PRECISION ANGULAR SINE VICES 100 - 140



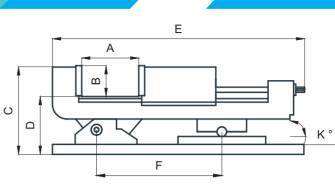
### Description

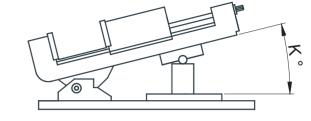
Angular Sine vice is an indispensable item of equipment of the modern toolroor It as been designed to rigidly hold in position components having angular facir Surface Grinding, tool and cutter grinding and jig boring The tool may also be used to advantage in the inspection Department, where angular components can be speedily and accurately tested to within 15 seconds of arc

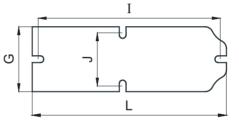
### Key Feature

9

- Tenon slot Ground at Longitudinal and Cross.
  High Rigid and Easy to Clamp it's easy to Set Tilting Angle.
  Jaw plates are made out of tool steel, hardened and ground with V-Groves at Horizontally and vertical can hold shafts on either sides of the 'V' Grove for small components and Tapped stopper holes made at Jaw plate side face.
- · Clamping Slots on 4 Directionals at Butting Face









### Operation

BRE

**Trouble Free** 

Performance

**Mechanical Operated** 

BR Precision Angular Sine Vice The Design is Based on sine Bar and any Angle upto 45° can be accurately set by using measuring blocks conforming to the required Dimensions, Which is obtained from the table of sine bar constant. The set Blocks platform mounted on the base is precision ground and lapped, The upper locating point is a super finished cylinder set into the Tilting Member

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GIII AITIP



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### Model Types. & Dimensions **Mechanically Operated**

Specifications	Model Type BR-SINE VICE-100	Model Type BR-SINE VICE-140	
Width of jaws ( G )	90 mm	140 mm	
Depth of jaws ( B )	35 mm	45 mm	
jaws opening range ( A )	0-70 mm	0-150 mm	
Height of work face ( D )	78 mm	115 mm	
Total Height of vice ( C )	115 mm	162 mm	
Total Width of Base ( G )	105 mm	140 mm	
Total length of Base ( E )	250 mm	362 mm	
Tilting Angle ( K )	0 - 45° Degree	0 - 45º Degree	
Roller Center Distance (C.D)	140 mm	185 mm	
Tenon Slots	14 mm	14 mm	
Clamping Open Slot 4 sides	14 mm	14 mm	
P.C.D for Slots Longitudinal			
and Cross ( I , J )	234mm x 89mm	346mm x 124 mm	
Weight (App)	12 kgs	25 kgs	

38

### **B.R. PRECISION UNIVERSAL PARALLEL BALL VICE**

# Model Type: BR-UPVB-SCV-120 (with 'V' Block Type )



к 45° 

Model Types. & Dimensions

Specification
Width of Jaws ( F )
law Opening Range ( A )
Depth Of Jaws Without 'V' Block(B)

B.R.Universal ball parallel 'V' Block self centering vice: Is a precision Vice very useful for milling and drilling of jobs at any compound angle.

It consists of three major components namely the Swivel Base. The spherical Ball and the Vice Unit, The Ball in turn can be swivelled through 360° over the Ball. The ball in turn can be swivelled over the swivel base through 360° in the horizontal plane and through 45° in the vertical plane. Thus the Vice can be set at any desired compound angle.

BR Universal Ball vice is robust in construction, and designed to take up normal milling and drilling loads. The 'V' Block is mounted above where has the round shaft can be held at the two sides also for the desired kinds of jobs

The jaw plates are made out of tool steel hardened and ground. The components are made out of close grained heavy duty cast iron with machined to close tolerances. The spherical seating surfaces and lapped to ensure perfect between sliding surfaces smooth movement in swivelling

		Specification	BR UPVB-SCV-120
		Width of Jaws ( F )	120 mm
		Jaw Opening Range ( A )	115 mm
		Depth Of Jaws Without 'V' Block ( B )	40 mm
		Work face Height from Base end ( C )	95 mm
		'V' Block Shaft Holding Range	Ø 12mm - Ø 140mm
		Shaft Holding Range @ 'x'	Ø 12mm - Ø 20 mm
		Shaft Holding Range @ 'y'	Ø 40mm - Ø 80 mm
		Shaft Holding Range @ 'z'	Ø 50mm - Ø 140 mm
		Total Height of Base with 'V' Block ( D )	295 mm
		Total Height of Base Without 'V' Block ( H )	248 mm
		Swiveling in Vertical Plane	45°
ıt		Swiveling in Horizontal Plane	360
e		Tenon Slot	14 mm
		open Slot P.C.D of Swivelling Base ( r )	328 mm
		Swivel Base Length X Width ( i x j )	360 x 223 mm
		Least Count for Swiveling and angular	1 ( Degree)
	J	Weight(App)	49 kgs

**Mechanically Operated** 

Model Type

# **B.R. PRECISION UNIVERSAL PARALLEL BALL VICE** Model Type: BR-UPB-SCV-120



### **Descriptions & Operation**

B.R.Universal ball parallel 'V' Block self centering vice: Is a precision Vice very useful for milling and drilling of jobs at any compound angle.

It consists of three major components namely the Swivel Base, The spherical Ball and the Vice Unit, The Ball in turn can be swivelled through 360° over the Ball. The ball in turn can be swivelled over the swivel base through 360° in the horizontal plane and through 45° in the vertical plane. Thus the Vice can be set at any desired compound angle. BR Universal Ball vice is robust in construction, and designed to take up normal milling

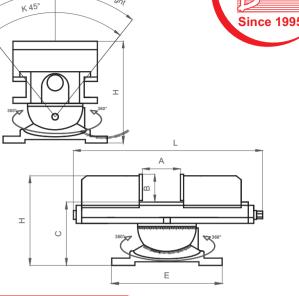
and drilling loads.

The jaw plates are made out of tool steel hardened and ground. The components are made out of close grained heavy duty cast iron with machined to close tolerances. The spherical seating surfaces and lapped to ensure perfect between sliding surfaces smooth movement in swivelling.

It is a very useful item for every production shop and tool room where precision machine shops job to be done.



It is a very useful item for every production shop and tool room where precision machine shops iob to be done



### Model Types. & Dimensions

# **Spacification**

Specification	ŧ
Width of Jaws ( M )	120 mm
Jaw Opening Range ( A )	115 mm
Depth Of Jaws Without 'V' Block ( B )	40 mm
Work face Height from Base end ( C )	95 mm
'V' Block Shaft Holding Range	Ø 12mm - Ø 140mm
Shaft Holding Range @ 'x'	Ø 12mm - Ø 20 mm
Shaft Holding Range @ 'y'	Ø 40mm - Ø 80 mm
Shaft Holding Range @ 'z'	Ø 50mm - Ø 140 mm
Total Height of Base Without 'V' Block ( E )	248 mm
Swiveling in Vertical Plane	45°
Swiveling in Horizontal Plane	360
Tenon Slot	14 mm
open Slot P.C.D of Swivelling Base ( r )	328 mm
Swivel Base Length X Width ( i x j )	360 x 223 mm
Least Count for Swiveling and angular	1 ( Degree)
Weight(App)	40 kgs

### Mechanical Type

	ype
Model Type	
BR UPB-SCV-120	
+	
120 mm	
115 mm	
40 mm	
95 mm	
12mm - Ø 140mm	
i 12mm - Ø 20 mm	
i 40mm - Ø 80 mm	
50mm - Ø 140 mm	
248 mm	
45°	
360	
14 mm	
328 mm	
360 x 223 mm	



# **B.R. PRECISION HEAVY DUTY ROTARY TABLE**

# **B.R. PRECISION ROTARY TABLE - 400**







**Dut** 





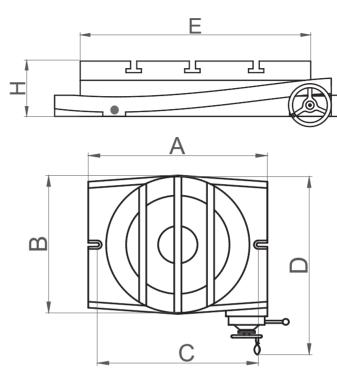
with Eccentric backlash adjustable Sleeve



Hand wheel Туре



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# Description

BR Precision Rotary Table 400: (Mechanically Operated) These tables are very useful for every work shop where accurate rotary movement is called for. They are principally used for milling sectors of circles, drilling, slotting and shaping as well as circular dividing operations. The large Transmissions Ratio (1: 120) offers high Dividing Accuracy. The equipment is made of high grade heavy duty cast iron with Brinell hardness of 180 and precisely machined, hand scrapped to close to tolerances

The rotary table as the Eccentric type, where as it can be divided or rotated to at quick operation, the work piece must be aligned with respect to center bore clamped in 'T' slots.

Dividing is done by means of hand wheel or knurled knob which operates the worm and worm wheel. The table is graduated from0° to 360° for direct setting and with the graduated collar on the worm, the dividing can be done up to 2 minutes of an arc.



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Model Types. & Dimensions Mechanically Operated		
Specifications	Model Type BR-RT-400 ↓	
Diameter of Table ( E )	400 mm	
Length of the table ( A )	520 mm	•
Width of the Table ( <b>B</b> )	490 mm	
Height of the Table ( H )	145 mm	•
Overall Width With Handle ( D )	605 mm	×.
Tenon Slot Size	14 mm	
Clamping Slot	16 mm	
Center Bore Dia	40 mm	
Rotation of Table Least Count	360°	
Least count of Table	1º (Degree)	
Least count of Graduated Collar	2 minutes	
Transmission RATIO	1 : 120	
P.C.D Of Clamping slot ( C )	460 mm	(
Weight (App)	135 kgs	

### BRE **B.R. PRECISION HEAVY DUTY ROTARY TABLE**

Table-

Duty

eavy

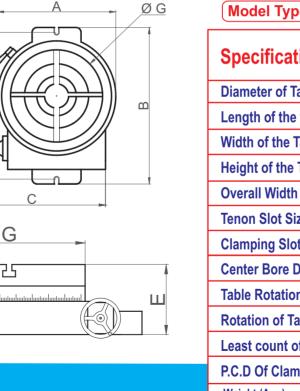


# **B.R. PRECISION ROTARY TABLE - 400**

# Description

These tables are very useful for every work shop where accurate rotary movement is called for. They are principally used for milling sectors of circles, drilling, slotting and shaping as well as circular dividing operations.

The equipment is made of high grade heavy duty cast iron with Brinell hardness of 200 and precisely machined, hand scrapped to close to tolerances. On the rotary tables, the work piece must be aligned with respect to center bore clamped in 'T' slots. Dividing is done by means of hand wheel or knurled knob which operates the worm and worm wheel. The table is graduated from0° to 360° for direct setting and with the graduated collar on the worm, The Transmission Ratio is (1:120) the dividing can be done up to 2 minutes of an arc.



Weight (App) www.brvices.com,

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Model Types. & Dimensions

### **Mechanically Operated**

ions	Model Type BR-RT-250	Model Type BR-RT-300	
able ( G )	250 mm	300 mm	
table (B)	370 mm	450 mm	
Гable ( A )	300 mm	350 mm	
Table(E)	105 mm	116 mm	
With Handle (C)	397 mm	445 mm	
ze	14 mm	14 mm	
t	16 mm	16 mm	
Dia	40 mm	50 mm	
n	360°	360°	
able Least Count	1 ( degree )	1 (degree)	
of Graduated Collar	2 minutes	2 minutes	
nping slot ( F )	350 mm	430 mm	
	45 kgs	82 kgs	



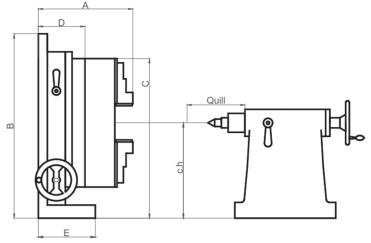


# **B.R. PRECISION ROTARY TABLE - 250 H/V**



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### **Description & Features**

The Horizontal & vertical Rotary table 250: It is an indispensable item of equipment of the modern tool room. It has been designed to rigidly hold in position components having thread ground.

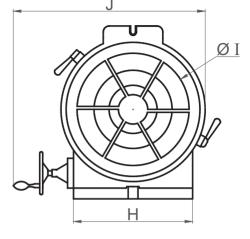
It offers various possibilities for use in machine building, tool room production, Jigs and fixtures construction. The large transmission ratio (1:120) offers high dividing accuracy. The Low, Robust construction and ample Bearing enables high cutting forces. On the rotary tables, the work piece must be aligned with respect to center bore clamped in 'T' slots. Dividing is done by means of hand wheel or knurled knob which operates the worm and worm wheel. The table is graduated from 0° to 360° for direct setting and with the graduated collar on the worm, the dividing can be done up to 2 minutes of an arc.

**Optional Accessories : 3 JAW SELF CENTERING CHUCK 250mm** & TAIL STOCK OPTIONAL Center Height is available at 185 to 210mm center height is provisional.

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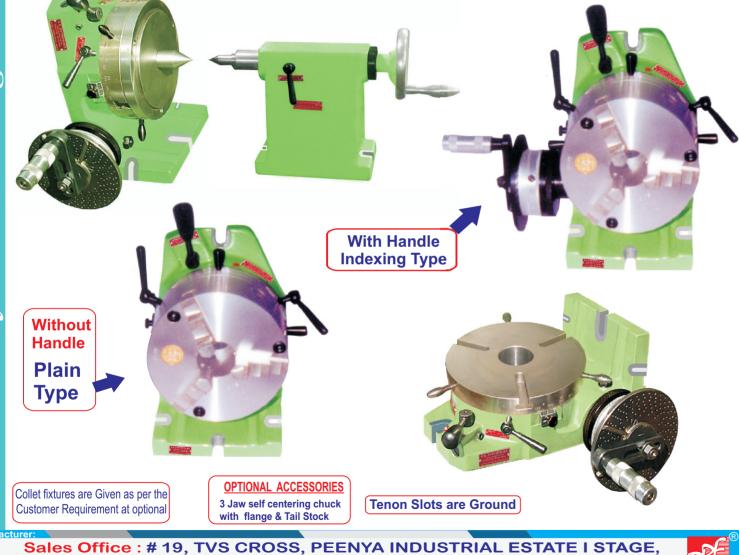
### Model Types. & Dimensions Mechanically Operated

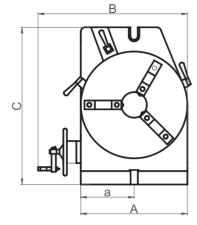
Specification	Model Type BR-RT-H/V-250 ↓
Dia. of rotary table Top ( I )	250 mm
Center height ( c . h ) approx	185 to 200 mm
Ht. from table to rotary table top ( D )	105 mm
Height from bottom to Chuck top vertical face (A)	225 mm
Total width of base ( H )	360 mm
Total height in vertical face ( E )	141 mm
Total length - Horizontal face ( B )	365 mm
Total Width with Handle ( J )	410 mm
Total Height with Chuck in Horizontal face (A)	310 mm
Center Bore (Different optional Sizes)	Ø 40/ 50/ 60/ 70
'T' Slot Size	14 mm x 3 Nos
Width of Clamping Size	16 mm x 2 Nos
Rotating of Rotary Table	360° Least count 1°
Least count of Graduation collar	2 minutes
Total Weight without Chuck (app)	51 Kgs
Total Weight with Chuck (app)	76 Kgs

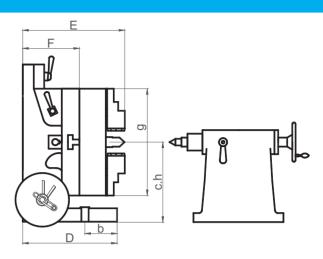
# **B.R. PRECISION ROTARY CUM DIVIDING AND INDEXING HEAD**

# B.R. PRECISION ROTARY CUM INDEXING HEAD AND DIVIDING HEAD - 160 & 200 H/V









### Model Types. & Dimensions) Mechanically Operated

Specification	Model Type BR-RDIH-160.H/V	Model Type BR-RDIH-200.H/V
Dia. of rotary table (g)	160 mm	200 mm
Center height ( c.h )	130 mm	180 mm
Ht. from table to rotary table top ( F )	85 mm	95 mm
Table Top without Flange Through bore	40 H7	50 H7
Chuck Flange Through Bore	MT 4	MT 4
Total width ( B )	255 mm	430 mm
Total height ( E )	230 mm	335 mm
Total length ( C )	330 mm	340 mm
Base Width ( A )	165 mm	205 mm
Base height ( D )	135 mm	145 mm
Table top to jaw face (horizontal)	250 mm	285 mm
Quick indexing positions	24 index	24 index
No. of Rotation Index	15° one - Index	15° one - Inde
Rotation of table least count	360° Degree	360° Degree
least count	1° Degree	1° Degree
Transmission Ratio	1: 90	1:90
Least count of graduated collar	1 minute	1 minute
Tenon slot grounded	14 mm	14 mm
Tiles stock spindle Through Bore MT- 3	Dia 40 mm	Dia 40 mm
Tile stock Quill Movement	40 mm	40 mm
Weight of rotary table W/C	40 Kgs (approx)	43 Kgs (approx)
Weight of rotary table with chuck	48 Kgs (approx)	55 Kgs (approx)

### Description & Feature

The Indexing head is an indispensable item of equipment of the Modern Tool Room It is a specialized tool that allows a workpiece to be circularly indexed that is easily and precisely rotated to preset angles or circular divisions. Common jobs for a dividing head include machining the flutes of a milling cutter cutting teeth of a gear, Milling curved slots and drilling a bolt hole circle around the circumference of a part. This model is similar to the universal Dividing head except that it is designed to be tilted as well as rotated it is to be tilted from 0° to 90° vertical, where as in this Indexing head to the Table. This can be used in Horizontal with vertical conventional machines. It can be used as equally as C.N.C Rotary table, This indexing head as high accurate and can be divided and indexing at any P.C.D work it can be rotated easily, with engage disengage type. The one round rotation of the handle varies at 4 (degree ). The Transr for this is 1:90 It is used to check run out, by supporting tail stock Directly to the indexing head. It can be used for any kind job like, making P.C.D Holes and Squares, key way it is used for multi purpose type for any kind of tool room purposes. In this it is Available in Plain Type with Any No. Of Indexing As per the Request \* This tool may also be used in the Milling machine, V.M.C. H.M.C and for inspection departmen

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**Tenon Slots are Ground** 

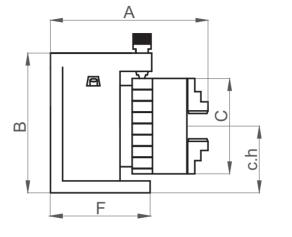
### B.R.Rotary cum Dividing and Indexing Head 160 & 200



# **B.R. PRECISION HEAVY DUTY INDEXING HEAD 120 H/V**

# B.R. PRECISION HEAVY DUTY INDEXING HEAD - 120 H/V





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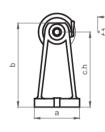


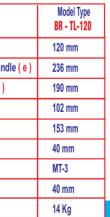
(Model Types. & Dimensions)				
Specification	Model Type BR - HDIH-120 H/V			
Chuck Diameter (C)	160 mm			
Head Stock Center Height (c.h)	120 mm			
Total Length of base ( F )	235 mm			
Total Width of base ( D )	205 mm			
Total height (Vertical) - ( E )	250 mm			
Total height (Horizontal) - ( A )	245 mm			
Through bore open Tolerance	40 mm			
Tenon slot all side	14 mm			
Clamping slot all Side	16 mm			
P.C.D for Clamping Slot all Side (g)	189 mm			
No. of indexing	24 index			
No. of Rotation Index	15° 1- Index			
Rotating of Through chuck	360° set of 1°			
Weight (App)	34 Kgs			

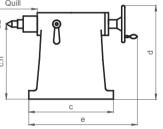
Specification
Tail stock center height ( c.h )
Total length of tail stock with han
Total length of tile stock W/H ( c )
Total width of tile stock ( a )
Total height of tile stock ( d )
Tile stock spindle Bore
Tile stock bore
Tile Stock Quill Movement
Total weight Tile stock ( app )

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Tenon Slots are Ground







### Description

### **B.R.PRECISIONS COLLET INDEXING HEAD 120**

This collet fixture head designed for heavy duty jobs like bore-well bits, heavy dies and fixtures hexagon job, key way, triangular and square jobs. It will be used for marking and tool room jobs. This model can be done at 1 index to 2, & 3 & 4 & 6 & 8 & 12 & 24 indexing with close tolerance on repeatability. The 360 degree graduation is given where on one index is equal to 15 degree of indexing arrangement horizontal vertical face drilling and tapping can be done. Interchangeability of chuck and collet head can be done, Heavy duty tail-stock, Hardened spindle at MT-3 Taper live center can be set for easy revolving.

# **B.R. PRECISION SINE TABLE**

# Model Type: BRP - ST-120 - 150 - 230 - 260



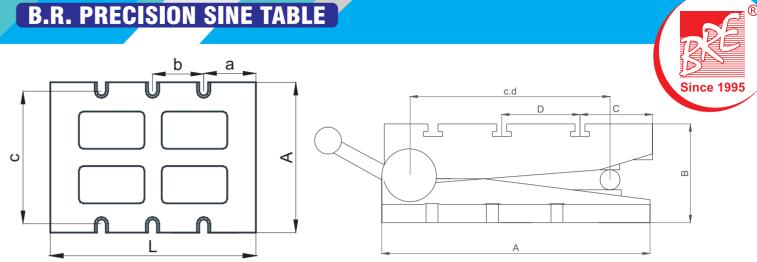
T - Slots are Ground

# Description

B.R.Angular Sine Table is an indispensable item of equipment of the modern toolroom. It as been designed to rigidly hold in position components having angular facings. Surface Grinding, tool and cutter grinding and jig boring The tool may also be used to advantage in the inspection Department, where angular components can be speedily and accurately tested to within 15 seconds of arc.

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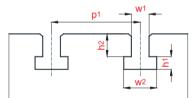


Model Types. & Dimensions	Mechanical	І Туре		
Specification	Model Type BR-SIN-120	Model Type BR-SIN-150	Model Type BR-SIN230	Model Type BR-SIN-260
Length of table ( L )	160 mm	260 mm	375 mm	400 mm
Width of table ( A )	160 mm	185 mm	275 mm	300 mm
Overall height ( B )	95 mm	100 mm	105 mm	105 mm
(C.D) Center distance between rollers	120 mm	150 mm	230 mm	260 mm
T-slot size ( ground)	14 h7 x 2nos	14 h7 x 2nos	14 h7 x 3nos	14 h7 x 3nos
Tenon slot Height (h1 x h2)	16 x 10 mm	16 x 10 mm	16 x 10 mm	16 x 10 mm
Tenon slot width (w1 x w2)	14 x 25 mm	14 x 25 mm	14 x 25 mm	14 x 25 mm
Clamping slot size	16 mm x 4nos	16 mm x 6 nos	16 mm x 6 nos	16 mm x 4 nos
P.C.D Of Clamping slot @ cross ( a )	144 mm	169 mm	259 mm	284 mm
P.C.D of Clamping slot @ Longitudinal ( c )	144 mm	244 mm	359 mm	384 mm
Weight of sine table (app.)	15 Kgs	23 Kgs	50 Kgs	60 Kgs

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### T - Slots are Ground



### Operatior

sion Angular Sine table This Design is Based on sine ny Angle can be accurately set by u on the base is precision ground and lapped he upper locating point is a super finished cylinder which supports the sine bar.

# **B.R. PRECISION ANGULAR SINE INDEXING TABLE**

# Model Type: BR AS-IT 150



T - Slots are Ground

BRE

Trouble Free Performance

# Mechanically Operated

### Operation

### B.R. Angular Sine indexing table

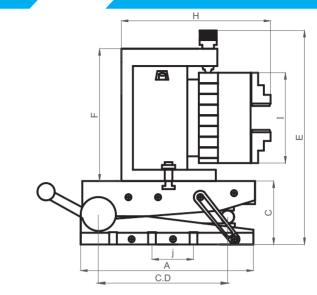
It is a Design where the indexing head is attached at the top of the angular table for the merit of setting up the required desired angle, The advantage of this angular head is indexing head can be detachable type it can be used on surface grinding also It is an indispensable item of equipment of the modern tool room.

At sides lock is given for rigid locking whenever the angle is settled up, It as been designed to rigidly hold in position components having angular facings. Surface Grinding, tool and cutter grinding and jig boring. for making of Hexagon cutting or pentagon for the required angle. It is based on sine Barin any Angle can be accurately set by using measuring blocks conforming to the required Dimensions, Which is obtained from the table of sine bar constant.

The set Blocks platform mounted on the base is precision ground and lapped, The upper locating point is a super finished cylinder which supports the sine bar. The tool may also be used to advantage in the inspection Department, where angular components can be speedily and accurately tested to within 15 seconds of arc.

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# Model Types. & Dimensions Mechanical Type

Specification	BR SINE TAE
Length of table ( B )	260 mm
Width of table ( A )	185 mm
Overall height ( C )	100 mm
Center distance between rollers (C.D)	150 mm
T-slot size ( ground)	14 h7 x 2nos
Over all Height with Indexing head ( E )	345 mm
Overall Width ( D )	210 mm
Clamping slot size	16 mm x 6 nos
P.C.D Of Clamping slot (j)	169 mm
Weight of sine table (app.)	23 Kgs

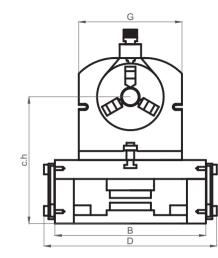
### Specification

Chuck Diameter (C)
Head Stock Center Height
Total Length of base ( F )
Total Width of base ( D )
Total height (Vertical) - ( E )
Total height (Horizontal) - (
Through bore open Tolerar
Tenon slot all side
Clamping slot all Side
P.C.D for Clamping Slot all
No. of indexing
No. of Rotation Index
Rotating of Through chuck
Weight (App)

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# **B.R. PRECISION ANGULAR SINE INDEXING TABLE**





### T - Slots are Ground

BR Indexing Head 120 H/V
160 mm
120 mm
235 mm
205 mm
250 mm
245 mm
40 mm
14 mm
16 mm
189 mm
24 index
15°1-Index
360° set of 1°
34 Kgs

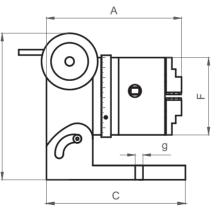


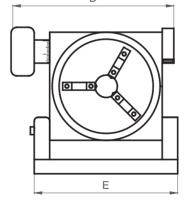
# BRE Since 1995 **B.R. PRECISION ENGRAVING INDEXING HEAD - 125** Model Type: BRP - EIH - 125

# **Trouble Free Performance**

Model Types. & Dimensions				
Specification	Model Type BR-EIH -125			
Dia of Three jaw Chuck ( F )	125 mm			
Total Height in Vertical Phase (A)	158 mm			
Total Width ( D )	192 mm			
Total Height in Horizontal Phase ( B )	175 mm			
Length of base Plate ( C )	132 mm			
Width of Base Plate ( E )	172 mm			
Total Index( Every 15° in One Index)	24 - Index			
Total Rotation of Degree	<b>360</b> <sup>°</sup> Least Count 1 <sup>°</sup>			
Tilting of Head (Least Count 1°)	0 to 90°			
Indexing head Through Bore	18 mm			
Least Count of graduation Collar	1 minute x 40 Division 1 Round (4° Degree)			
Tenon slot	12 mm			
Clamping slot ( g )	12 mm			
Total Weight (App)	16 Kg			
	Specification         Dia of Three jaw Chuck (F)         Total Height in Vertical Phase (A)         Total Width (D)         Total Height in Horizontal Phase (B)         Length of base Plate (C)         Width of Base Plate (C)         Width of Base Plate (C)         Total Index(Every 15° in One Index)         Total Rotation of Degree         Tilting of Head (Least Count 1°)         Indexing head Through Bore         Least Count of graduation Collar         Tenon slot         Clamping slot (g)			







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# **B.R. PRECISION 'L' SQUARE PLATE**



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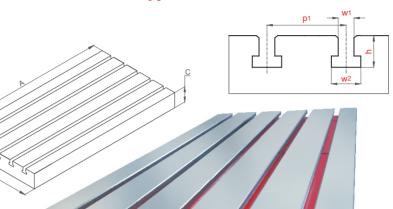
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### **B.R. PRECISION CAST IRON HEIGHT BLOCK BED** MODEL Type: BR - CI HBD - 1 Features

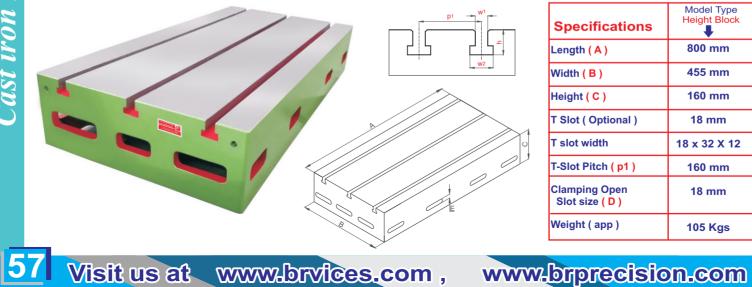
- Designed for precision Tool Room and Production work
   Accurate Positioning of the component.

- Rigid Clamping of the Job.
   Easily suitable for manual and automatic loading / unloading of machines.
- Tenon slots are ground with contact edge.
- Quick set up secured clamping which minimizes the operation time and maintained with accuracy and repeatability.
- Different Types of Sizes or Customize size are available. upto 850mm length and 500mm Width

Specifications	Model Type Height Block
Length(A)	800 mm
Width ( B )	450 mm ( Customize Sizes Available )
Height ( C ) ( w1 x w2 x h )	46 mm
T Slot ( Optional )	18 mm
T slot width	18 x 32 X 12mm
T-Slot Pitch ( p1 )	100 mm
Weight(app)	125 Kgs



# **B.R. PRECISION HEIGHT BLOCK FOR VMC**

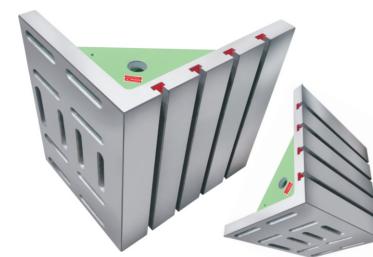


Specifications	Model Type Height Block
Length(A)	800 mm
Width(B)	455 mm
Height(C)	160 mm
T Slot ( Optional )	18 mm
T slot width	18 x 32 X 12
T-Slot Pitch(p1)	160 mm
Clamping Open Slot size(D)	18 mm
Weight(app)	105 Kgs

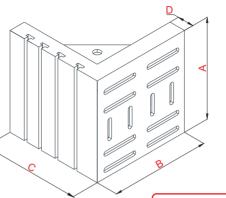
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# **B.R. PRECISION 'L' SQUARE PLATE**

# Model Type: BR - LP-1, LP-2, LP-3, LP-4, LP-5, (T-Slotted Type)

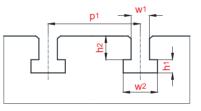


	Specification	Model Type BR-LP-1	Model Type BR-LP-2	Model Type BR-LP-3	Model Type BR-LP-4	Model Type BR-LP-5
Ň	Length (A)	280 mm	225 mm	205 mm	300 mm	450 mm
	Width (B)	260 mm	190 mm	150 mm	300 mm	450 mm
	Height (C)	210 mm	145 mm	130 mm	300 mm	350 mm
	Thickness (D)	35 mm	25 mm	20 mm	40 mm	35 mm
	Open Slot Size	18 mm	16 mm	14 mm	18 mm	18 mm
	T Slot Size (Grounded)	14 h7				
	h1 x h2	16 x 10 mm				
	w1 x w2	14 x 25 mm				
	P.C.D of T-Slots (p1)	65 mm	58 mm	50 mm	75 mm	90 mm
	Weight (app.)	36 kgs	14 kgs	10 kgs	65 kgs	90 kgs



T - Slots are Ground

BRE®



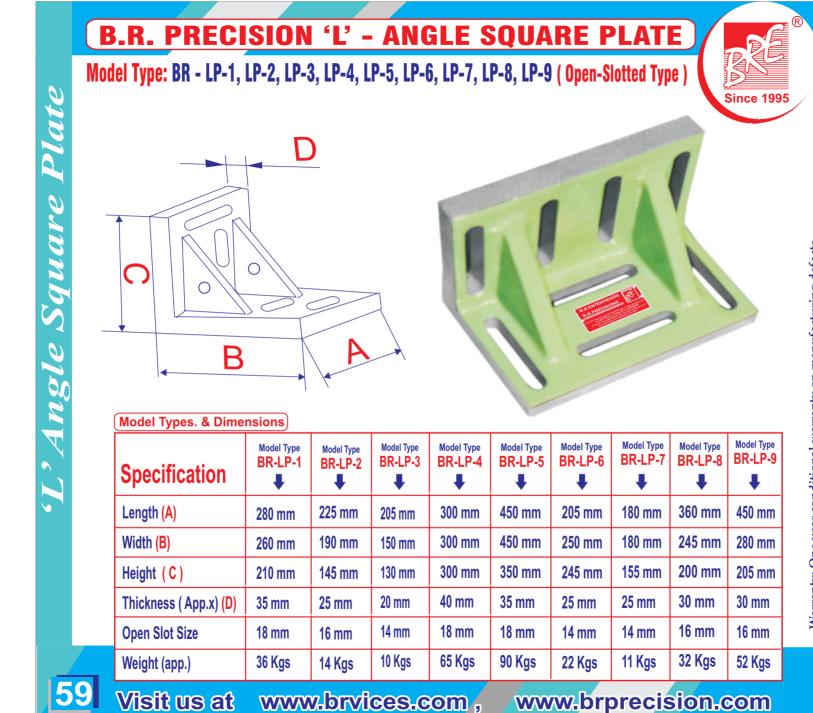
### Features

**'L'Angle Square Plate:** Angle plates provide a practical means for clamping and holding work in vertical position for layout tooling and machining. Precision T-Slotted angle plates are also used as a vertical reference for inspection. Vertical face provided with T-Slots for V M C or Grinding Machines and other Machines where as squareness are machined at right accurate constructional standards. Which is used for inspection purpose and other applications T slots are ground to provide accuracy and repeatability. the clamping of work piece are made easy due to the provisional of T slots at vertical face and Cored slots at table face. Standard sizes and respective T Slots details are stated in the Table.

58

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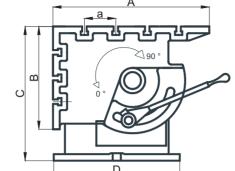
manufacturing defects B warranty One year conditional Warranty:

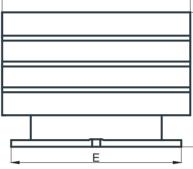
# **B.R. PRECISION TILTING BOX TABLE - 400**

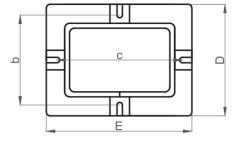
# **MODEL Type: BR RD TBT - 400**

Mechanically Operated

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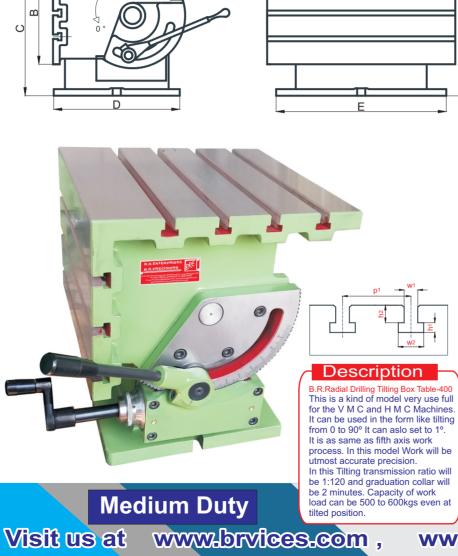


Since 1995

60

Model Types. & Dimensions

Specification	Model Type BR TBT - 400
Length of table (L)	415 mm
Width of table ( B )	290 mm
Width of Table ( A )	410 mm
Height of table ( C )	430 mm
Total Face Height Tilting at 90° ( H )	450 mm
Table T-solt Size ( Optional )	14 H7(standard)
Base width ( D )	325 mm
Base Length ( E )	360 mm
Angular setting	90º (degree)
Angular least count	1º (degree)
Graduation collar Least Count	2 Minutes
Base clamping slot size	18mm
Height of Tenon slot (h1 x h2)	16 x 10 mm
Width of Tenon slot (w1 x w2)	14 x 25 mm
P.C.D for T-Slot ( a )	80 mm
P.C.D for Open Slot for clamping (b - c)	293mm - 328mm
Max. Tilting torque load	500 Kgs
Weight (app)	170 kgs



# **B.R. PRECISION UNIVERSAL SWIVELLING & TILTING BOX TABLE**

# **MODEL Type: BR UST BT - 300**

### Manually Operated **5th Axis Titling Table**

### Description

B.R.Universal Swivelling and Tilting Box Table-300 This is a kind of model very use full for the V M C and H M C Machines. It can be used in the form like tilting and rotation by the means of swivelling to any axis of swivel base and table. It is as same as fifth axis work process. In this model Work will be utmost accurate precision. In this Tilting transmission ratio will be 1:120 and graduation collar will be 2 minutes. Capacity of work load can be 200 to 250kgs at tilted position.

### Features

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- Designed for precision Tool Room and Production work
- High accuracy and Rigid assembly construction
- Additional Indexing head support In Table positioning space
- Zero to 90 Degree inclination
- The swivel base can be swivelled at 360 Degree with ground contact edge and Graduation
   Indexing head attachment can be used as engage and dis engage type
- Quick set up secured clamping which minimizes the operation time and maintained with accuracy and repeatability. w.r.t Tenon slot 90 degree will be at accuracy will be at standards.

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- This model is used as 5th axis manually operating with the merits of tilting and swivelling with indexing positions.
- This model is compact in size which helps the set up time.



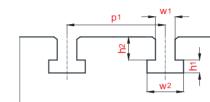
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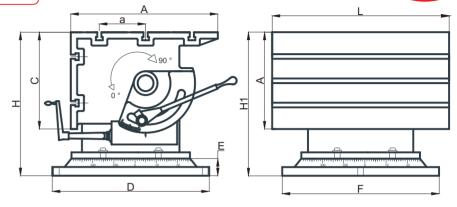
Warranty: On

# **B.R. PRECISION SWIVELLING & TILTING BOX TABLE**

## Manually Operated **5th Axis Titling Table**



Model Types. & Dimensions



	9
Specification	Model Type BR-UST BT - 300
Length of table ( L )	305 mm
Width of table ( A )	235 mm
Width of Table (C)	385 mm
Height of table ( H )	385 mm
Total Face Height Tilting at 90° ( H1 )	405 mm
Swivel Base width ( F )	305 mm
Swivel Base Length ( D )	330 mm
Table T-solt Size ( Optional )	14 H7(standard)
Angular setting	90° (degree)
Swivelling Rotation	360°(degree)
Angular least count	1º (degree)
Graduation collar Least Count	2 Minutes
Transmission Ratio	1 : 120
Base clamping slot size	18mm
P.C.D for Open Slot	298 mm
Height of Tenon slot (h1 x h2)	16 X 10 mm
Width of Tenon slot (w1 x w2)	14 x 25 mm
P C D for T Slot (P1)	75 mm
Max. Tilting torque load	250 Kgs
Weight (app)	98 kgs

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Table Box 0

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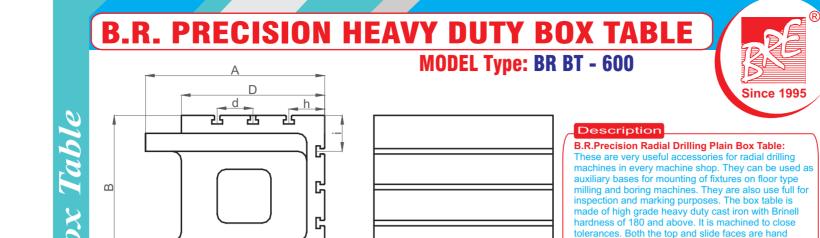
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300



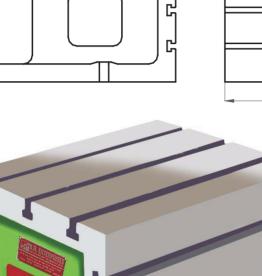
### **Trouble Free** Performance





C





Heavy Duty

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# Model Types. & Dimensions

Specification	Model Type BR-RDBT-650 ♥
Length of table (C)	600 mm
Width of table ( D )	500 mm
Height of table ( <b>B</b> )	500 mm
Base width ( A )	560 mm
T-solt Size (Standard Size)	16 / 18 / 20 & 22mm (3nos top / 3nos on side)
Base clamping slot size	22 mm x 4 sides
T-solt distance from side ( i )	100 mm
T-slot distance from top ( h )	100 mm
T-slot center distance - 1 ( d )	150-150 mm
T-slot center distance - 2	100 mm
Weight (app)	450 Kgs

scraped to achieve planes. Both the faces are

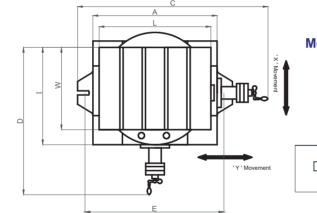


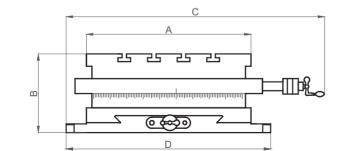
# B.R. PRECISION SWIVELLING COMPOUND TABLE

# Model Type: BR SCT - 275 (SWIVELLING)

Features

### B.R.Precision Compound Table 275: It is very useful item for every workshop. It gives you the possibility of Drilling to precise co ordinates or performing small milling operations In conjunction with the Swiveling in this compound tables Helps to Swivel ( 360 Degree) or to any Degrees It has got two traverse Movements, like " X & Y " which are at right angles to each other. The components are made out of high grade heavy duty cast Iron with brinell hardness of 180 and above and are hand Scraped to conform to international standards. It Is built to with stand Normal machining strains of boring and drilling machines etc., It can be used on drilling marking. Boring and milling surface Grinding machines. It is also use full for Inspection and setting job work. It is very ideal for machining Of small components on drilling machines.



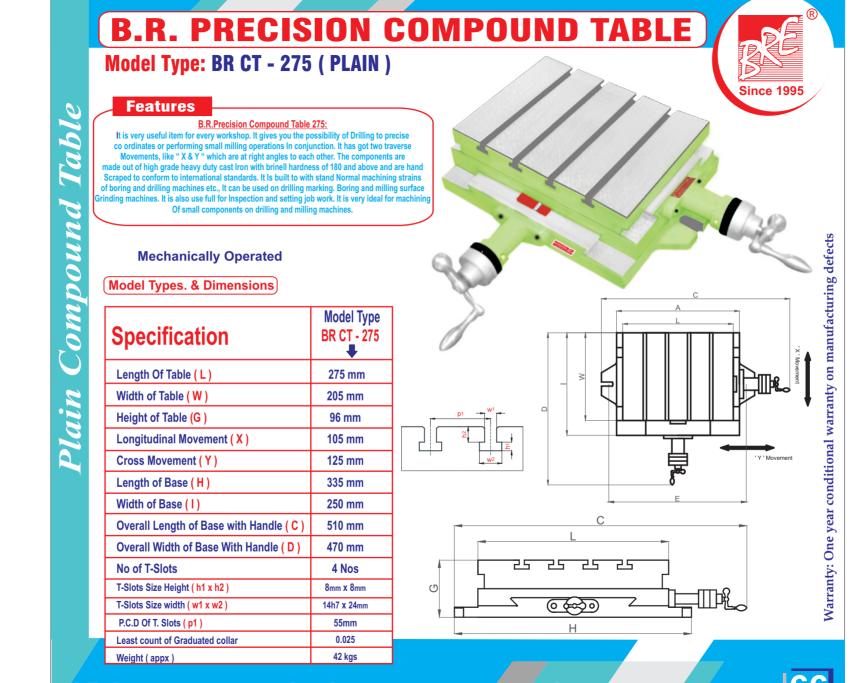


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# Mechanically Operated

Specification	Model Type BRSCT-275
Length Of Table ( L )	275mm
Width Of Table ( W )	205mm
Height of Table(B)	140mm
Longitudinal movement ( Y )	105mm
Transverse movement ( X )	125mm
Length of base ( I )	335mm
Width of Swivel Base ( D )	300mm
Set of Degree Least count	1°
Rotation of Swiveling	360°
Total width ( C )	470mm
Total length ( D )	510mm
No. of T. Slots	4
T-Slots Size Height ( h1 x h2 )	8mm x 8mm
T-Slots Size width ( w1 x w2 )	14h7 x 24mm
P.C.D Of T. Slots ( p1 )	55mm
Least count of graduated Collar	0.025mm
Weight (App)	60.Kgs

65



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# **B.R. PRECISION UNIVERSAL DIVIDING HEAD**

# **B.R. PRECISION UNIVERSAL DIVIDING HEAD**

# **MODEL Type: BR - UDH -100 - 130 - 150 - 180**

**Mechanically Operated** 

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### STANDARD ACCESSORIES: BRUDH

- 1. a) Tail stock b) Carrier
- c) Long Center d) Short Center with draw bar
- 2. Change Gears and Centre Steady 1 No.
- 3. Index Plates and Spindle Knurling Cap 1 No.
- 4. Change Gear bracket with Single idler
- 5. Change Gear bracket with 2 idler
- 6. Change Gear bracket for Compound Train
- 7. Change Gear Aluminum box cover 1 No.
- 8. Operation Instruction Manual 3 Jaw Chuck and Flange

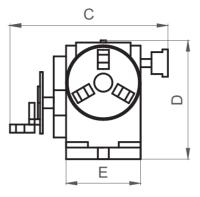
**Optional accessories** 

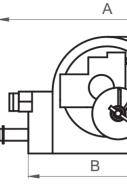
9. With All Clamping Kit

B.R.Universal Dividing Head: It has a large range of application in constructional engineering, tool manufacturers and construction of jigs and fixtures especially in small scale production of toothed wheels, spiral milling, polygonal piece milling cutters. Taper taps and flutes, reamers end mills etc..

The universal Dividing head is compact in design and rigid in construction and consists of close grained heavy duty cast iron housing and body. The main spindle is hardened and ground the bronze worm wheel (hardened and ground) run in oil bath to have minimum wear. The universal dividing head can be used for holding compor either between centers or with 3 iaw chuck as well as mandrel. The spindle rotation is graduated for 360° You can set for 1° & Tilting Head at 0-90° Direct Indexing: A jig Bore Indexing plate with 24 Holes Facilites Dividing 2, 3, 4, 6, 8, 12 and 24 stations, Please note that direct indexing the worm wheel should be

Disengaged. Spiral Gear Milling, Sper Gear, Helical Gear, Drill Remorse, Tapping Etc.: Spiral Milling can be carried out by connecting the Dividing head spindle to the table lead screw of the machine by means of change gear quadrant and train of gears

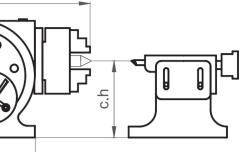




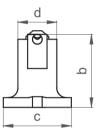
### Mechanical Type Universal Dividing Head

	Specification	1	Model Ty BR-UDH		Model Type BR-UDH 13		Model Type BR-UDH 150	Model Type BR-UDH 180	
	Center Height ( c.h )		100 mm		130 mm		150 mm	180 mm	
	Transmission Ratio	Transmission Ratio			1:40		1:40	1:40	
	Spindle Taper	Spindle Taper		MT-3			MT-4	MT-4	
	Through Bore Overall Length ( A )		16 mm		20 mm		20 mm	20 mm	
			335 mm		347 mm		347 mm	347 mm	
	Overall Width (C)		345 mm		345 mm		345 mm	345 mm	
	Overall Height ( D )	l Height ( D )		n	225 mm		245 mm	345 mm	
	Change Gear Bore Siz	e	20 mm		25 mm		25 mm	25 mm	
	No. of Index Plate		4 Nos 3 Nos		3 Nos	3 Nos		3 Nos	
	Tenon slot		14 mm	14 mm		14 mm	14 mm		
	Clamping slot		16 mm		16 mm		16 mm	16 mm	
	Tile stock center heigh	nter height		n	130 mm		150 mm	180 mm	
	Chuck flange sizes		100 mn	n 160 mm			160 mm	160 mm	
	3 jaw self centering chuck sizes		Ø 100 mm		Ø 100 mm Ø 160 mm		n	Ø 160 mm	Ø 160 mm
	Weight (app)		48 Kgs		70 Kgs		75 Kgs	85 Kgs	
	Index Plate No. of Holes	b) 20,2	6,17,18,19 1,23,27,29 3, 37,39,41 17, 49	b) 33	,19,18,17,16,15 3,31,29,27,23,21 1,47,43,41,39	b) 3	20,19,18,17,16,15 33,31,29,27,23,21 49,47,43,41,39	a) 15,16,17,18,19, b) 21,23,27,29,30, c) 49,47,43,41,39	

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Specification	Model Type BR TL-100	Model Type BR TL-120	Model Type BR TL-120	Model Type BR TL-120
Tail stock center height ( c.h )	100 mm	130 mm	150 mm	180 mm
Total length of tail stock with handle ( e )	180 mm	210 mm	215 mm	215 mm
Total length of tile stock ( a )	148 mm	180 mm	180 mm	180 mm
Total width of tile stock ( c )	100 mm	118 mm	118 mm	118 mm
Total height of tile stock ( b )	110 mm	134 mm	154 mm	184 mm
Total weight of Tile stock (appx)	14 Kg	17 Kg	19 Kg	20 Kg

# defects

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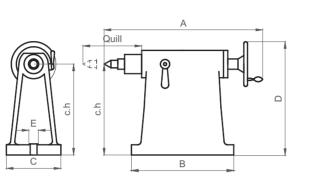
c.h

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# **B.R. PRECISION HEAVY DUTY TAIL STOCK**

# Center Height's : BR-TL-100 / 120 / 130 / 150 / 160 / 170 / 180 / 200 / 210





### Description

B.R.Precision Heavy Duty Tail Stock: It is an manual type heavy duty tail stock hazardous in various Differential Center Heights, where as Center Height of Tail Stocks are Manufactured as per the Requirement also.

The tail stock spindle is extended and retracted through the use of the hand wheel. The tail stock Spindle ( Spindle Quill Movement ) is 40mm of travel.

- The spindle of the tail stock is hardened and Ground. spindle Bore MT-3 Taper.
- An oil nipple is provided at the top for periodic lubrication.
- There is a spindle lock provided to lock the spindle.

When the spindle lock once it is extended. Be sure to release the spindle lock prior to trying to adjust the hand wheel. When the tooling comes in contact with the workpiece/fixture, apply only enough force on the hand wheel to hold the workpiece/fixture securely. The force required on the hand wheel to accomplish this is similar to the force used in closing a Hydraulic vice. Live center can be Set for easy revolving. Hence this Tail stocks are used in Tool room purpose for inspection department and V.M.C Machines, H.M.C, Milling machines, H-Boring machines, and other conventional machines etc.,



Specification	B.R.Heavy Duty Precision Tail stock
Tail stock center height ( c.h )	100 to 210 mm Center Height Optionals
Total length of tail stock with handle (A)	246 mm
Total Base Length of tail stock ( B )	190 mm
Total Base width of tail stock (C)	86 mm
Overall Height ( D )	Height varies on basis of Center height
Tail Stock Spindle Bore	MT-3
Spindle Quill Movement	50 mm
Tenon slot size	14 h7
Clamping slot size ( E )	16 mm
Weight ( App )	15 Kgs

**Mechanically Operated** 

**B.R. PRECISION HEIGHT ADJUSTABLE TAIL STOCK** 



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### Model Type: **BR HTL** (center Height Optional)

### Description

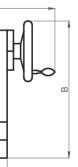
### B.R.Precisions Height Adjustable Tail stock:

This model is used because of tolerance build up, it would be just about impossible to offer a tail stock that was perfectly on center with the indexing head, rotary table or right angle attachment combination. The solution offered here is a modification of our standard tail stock which allows it to be adjusted to exactly line up with the center of the rotary table in order to allow for perfect alignment between the rotary table with the tail stock while holding long parts between centers.

In this tail stock advantages are robust in use. The base plate is attached to the tail stock for enhancing the height of the tail stock (as shown in Fig.) Rigid screws are locked to the base plate through the tail stock, for adjusting or to elongate the height of the tail stock screws are to be tighten for minor adjustments in height while making your set up. Tenon slots are ground, Spindle is hardened and ground.

Model Types & Dimensions

Specification	Model Type BR HTL
Center Heights ( Optional )	120 to 210 mm
Tail stock center height ( c.h 1 ) "without base plate"	150 mm
Tail Stock Center Height ( c.h 2 ) "with base plate"	200 mm
Total length of tail stock with handle (A)	405 mm
Total Base Length of tail stock ( C )	200 mm
Total Base width of tail stock ( D )	178 mm
Base plate Height ( E )	43 mm
Total Base Plate Height ( F )	86 mm
Overall Height ( B )	239 mm
Tail Stock Spindle	MT-3
Spindle Quill Movement	40 mm
Tenon slot size	14 h7
Clamping slot size ( b )	16 mm
Total weight of Tile stock (appx)	39 kgs



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