

WORK HOLDING EQUIPMENTS

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- Machine Vices
- Compound Sliding & Rotary Milling Tables
- Angle Plates & V-Blocks
- Magnetic Tools
- Bench & Wood Workers Vices
- Clamps & Clamping Elements



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Company Profile

1. Name & Address of the Unit : 1. APEX INDUSTRIES
2. APEX INDUSTRIES PVT. LTD.
P.O.BOX 424, 54 DADA COLONY
INDUSTRIAL AREA
JALANDHAR - 144004

2. Telephone No. :- +91-181-2290586 / 2290631 / 3290687

3. Fax No. :- +91-181-2290421

4. Grams :- QUALITY

5. E-mail:- apex1959@gmail.com

6. Website :- www.apexmachinevices.com

7. Contact Executive : Mr. R.M. Walia

8. Products Manufactured : Machine Tools Accessories, like Machine Vices, Rotary Milling, Tilting & Compound Sliding Tables, Angle Plates, C.I. Vee Blocks, Steel Parallels, Clamping Elements & Devices, Assorted Bench Vices, Pipe Vices, Wood Working ,Tool Makers Vices and other Engineering Tools.

9. Standard of Quality System Conforming to ISO 9001-2008

10. Brief History : Established in 1959 as SSI unit with a small set up to manufacture vices. With a qualified team of Mechanical Engineers and vast knowledge, experience in marketing and administration, the company has made rapid progress and expanded its activities to introduce a wide range of products. The company has become one of the leading manufacturers of Machine Tools Accessories and assorted Vices, which are available under Brands "APEX" and "ASTRA"



Dedicated to
the memory of
beloved Late
Sh. S.C. Walia
FOUNDER OF
THE APEX GROUP
OF INDUSTRIES

By virtue of sustained efforts to maintain high quality and competitive prices, backed with efficient delivery the company has established good market reputation and earned healthy goodwill all over the country.



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APEX Code 701, SG701▼

Tilting & Swiveling Vice

(Size : 4", 6", 8")



Features :

- Manufactured to consistent accuracy to give prolonged reliable service.
- Bearing surface precision ground. Flatness within 0.0012" (30 microns)
- Once locked impossible to shift.
- Totally enclosed acme screw with three point location of operating in manganese Bronze Nut.
- Tenon Slot machined in back as standard for CNC use.
- Swivel base graduated through 360°
- Vertical tilting capacity 90°

Application :

- Suitable for milling . Grinding . Shaping . Drilling and Jig Boring

Construction :

- These Vices are manufactured from close grained Hi-Tensile Seasoned Cast Iron

Jaws : Fully Hardened (50±3 HRC) and ground tool steel jaws with parallelism within 0.0012" (30 microns)

Spindle : Precisely cut ACME threads with pitch most suitable for firm gripping and smooth operations.

Nut : Hot stamped manganese bronze nut contained in totally enclosed sliding jaws.

Fasteners : All fasteners used in the vices are grade 10.8 which provide extended strength and rigidity to these vices

Supplied Complete with Steel Handle.

Finish : Amazon Green

Code SG701 : SG Ductile Iron Body

Finish : Hammer tone metallic blue



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APEX Code 730 ▶
3 Way Universal Tilt &
Swivel Angle Vice
(Size : 4", 6")

Features : APEX 3 way universal Tilt & Swivel Angle vice can tilt + 45° and circle 360 °, and has all the built strength and rigidity associated with APEX Vices.

Finish : Amazon Green



◀ **APEX Code 749, SG749**
Preci Tilting & Swiveling Vice
(Dovetailed Slide)
(Size : 4", 6")

Features :

- (Dovetailed Slide) Vee sideways adjustable for giving prolonged working life
- Manufactured to consistent accuracy to give prolonged reliable service.
- Bearing surface precision ground. Flatness within 0.0012" (30 microns)
- Once locked impossible to shift.
- Totally enclosed acme screw with three point location of operating in Manganese Bronze Nut.
- Tenon Slot machined in back as standard for CNC use.
- Swivel base graduated through 360°
- Vertical tilting capacity 90°

Finish : Hammer tone Ash Grey.

SG749 : SG Ductile Iron Body

Finish : Hammer tone metallic blue.



Specifications

CODE	701			730		749	
Size in inches	4	6	8	4	6	4	6
Width of Jaws (in mm)	100	150	200	100	150	100	150
Depth of Jaws (in mm)	40	50	60	40	55	40	50
Opening of Jaws (in mm)	100	150	200	100	150	100	150
Length Overall (in mm)	345	510	620	390	545	345	510
Height Overall (in mm)	150	200	230	195	310	150	200
Width Overall (in mm)	180	250	280	230	275	180	250
Tenon Slot Size (in mm)	16	20	20	20	20	16	20
Weight (app. In Kgs.)	19	42	76	30	65	20	49



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APEX Code 704 ▶

Compound Angle Table
(Round Table)
(Size : 9")

Features : Movement on the table are indexed fully 360 degree in the Horizontal plane 90 degree in the vertical. So that any combination of angles may be obtained "T" Slots in the table are machined from the solid and a hole is bored centrally and fitted with a steel sleeves for receiving Spigots. The table swivel on a ground steel spigot and can be locked in any position by steel clamp shown.

Code 704R : With Rectangular table

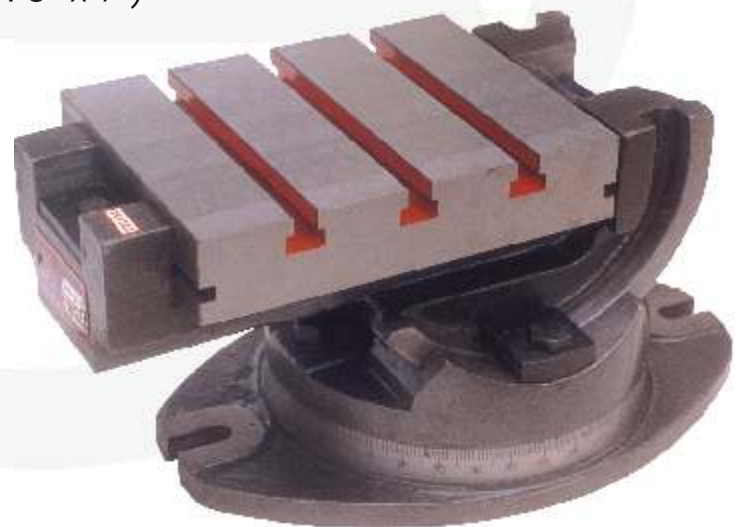
Finish : Hammer tone mid grey.



▼ **APEX Code 704R** Compound Angle Table (Rectangular Table) (Size : 9" x 7")

Specifications

CODE	704	704R
Size in inches	9"	9"x7"
Size of Table in (mm)	225	225x175
Height Overall (in mm)	190	200
Length Overall (in mm)	390	390
Tenon Slots Size (in mm)	20	20
T-Slots Size (in mm)	13	13
Weight (app. in Kgs.)	39	42





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▼ **APEX Code SG701A**

Universal Precision Machine Vice
(Size : 4", 6")



Features :

- The most versatile of all machine vices with all degrees of freedom, the Universal Vice allows the work piece to be set at any desired angle.
- The specific advantage of this Vice is its ability to be set perpendicular to the base, thereby allowing right angle machining on the same machine setting.
- Allows for the job to be set at low heights, particularly suitable for the most complicated grinding applications.
- Fully graduated 360° swivel base allows complete rotation along the vertical axis. The third angular side with a moving axis allows for any setting in the 3D plane.
- Sliding jaw runs on accurately ground surfaces fitted with hardened steel keep strips ensuring perfect alignment and rigidity.
- All swivelling movements have positive locking.
- "Hold Down" Slots allow for secure clamping of the vice on the work table.

Application :

- Primarily designed for use on Surface, Universal and Tool and cutter Grinding Machines. Its sleek and slender design has endeared it to many engineers who look for precision and versatility.

Construction :

- S.G.Ductile Iron Frame
- Jaw plates are hardened steel with accurately ground surface.
- Use of hi tensile grade 10.8 fasteners provides strength and rigidity to these vices.
- Supplied complete with steel handle.

Finish : Hammer tone metallic blue

▼ **APEX Code SG720**

Precision Machine Vice
(Swivel Base)
(Size : 4", 6")



Construction :

- S.G.Ductile Iron Frame

Finish : Hammer tone metallic blue

Specifications

CODE	701A		720	
Size in Inches	4	6	4	6
Width of Jaws (in mm)	100	150	100	150
Depth of Jaws (in mm)	25	40	25	40
Opening of Jaws (in mm)	65	115	65	115
Length Overall (in mm)	270	405	305	470
Height Overall (in mm)	170	225	100	120
Width Overall (in mm)	110	155	110	155
Tenon Slot Size (in mm)	16	16	16	16
Weight (app. in Kgs.)	10	25	7	18



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Features :

- Manufactured to consistent accuracy to give prolonged reliable service.
- Totally enclosed design prevents the ingress of foreign matter and damage to the screw and nut.
- Swivel base graduated fully 360°.
- Spares readily available..
- Tenon Slots in slide and swivel base.
- Available as plain and swivel vice.

Construction :

- High tensile Stress Relieved quality casting, precision ground hardened & tempered steel jaws plates.
- ACME thread interchangeable screw, hot stamped manganese bronze nut contained in totally enclosed sliding jaw.
- Complete with all steel handle.

Code 703 & 703P :

Finish : Amazon Green

Code 748 & 748P :

(Dovetailed Slide) Vee Sideways Adjustable for giving prolonged working life.

Finish : Hammer tone ash grey.

Code SG 703 - SG 703P - SG 748 & SG 748P :

SG Ductile Iron Body

Finish : Hammer tone metallic blue

▼ APEX Code 703, SG703

Milling Machine Vice

Swivel Model

(Size : 3",4",6",8",10",12")



▼ APEX Code 748 & 748P, SG748 & 748P

Precision Milling Machine Vice (Dovetailed Slide)

(748 - Swivel Model)

(748P - Plain Model)

(Size : 4", 6", 8")



▼ APEX Code 703P, SG703P

Milling Machine Vice

Plain Model

(Size : 3",4",6",8",10",12")



Specifications

CODE	703 & 703P						748 & 748P		
	3	4	6	8	10	12	4	6	8
Size in inches	3	4	6	8	10	12	4	6	8
Width of Jaws (in mm)	75	100	150	200	250	300	100	150	200
Depth of Jaws (in mm)	38	40	50	60	70	75	40	50	60
Opening of Jaws (in mm)	75	100	150	200	250	300	100	150	200
Length Overall (in mm)	285	320	460	570	725	820	317	480	615
Height Overall (in mm) (Plain Vice)	70	85	100	115	140	145	85	110	135
Height Overall (in mm) (Swivel Vice)	100	110	140	165	190	195	120	145	190
Width Overall (in mm) (Plain Vice)	135	155	240	290	350	425	155	245	300
Width Overall (in mm) (Swivel Vice)	155	180	255	310	370	445	170	280	325
Tenon Slot Size (in mm)	13	16	20	20	---	---	16	20	20
Weight (app. in Kgs.) Code 703	9.7	16.5	41	74	125	170	---	---	---
Weight (app. in Kgs.) Code 703P	6.8	13	31	57	96	135	---	---	---
Weight (app. in Kgs.) Code 748	---	---	---	---	---	---	18	46	86
Weight (app. in Kgs.) Code 748P	---	---	---	---	---	---	12	34	65



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APEX Code 745P ▶

Milling Machine Vice (Deluxe) Model
(Plain Model)
(Size : 4", 6", 8")



▼ APEX Code 745

Milling Machine Vice
(Deluxe) Model
(Swivel Model)
(Size : 4", 6", 8")



Specifications

Size in inches	4	6	8
Width of Jaws (in mm)	100	150	200
Depth of Jaws (in mm)	48	60	65
Opening of Jaws (in mm)	100	150	200
Length Overall (in mm)	325	520	575
Height Overall (in mm) (Plain Vice)	90	115	130
Height Overall (in mm) (Swivel Vice)	125	150	170
Width Overall (in mm) (Plain Vice)	160	225	275
Width Overall (in mm) (Swivel Vice)	170	245	300
Tenon Slot Size (in mm)	16	20	20
Weight (app. in Kgs.) Code 745	18	47	80
Weight (app. in Kgs.) Code 745P	12	34	60

Features :

- Tilt Lock Machine Vice design is beamlike with two vertical and horizontal rails connected to the base
- You can hold piece parts in the most immobile state possible.

Three Basics in precision Clamping

1. That the movable jaw does not lift off the bed.
 2. That the body is rigid, and that a minimal amount of bending stresses are created in the clamping area.
 3. That deflection of the stationary jaw is minimized.
- Totally enclosed toughened Screw.
The bed is guaranteed flat and parallel .0001 per inch.

Construction :

- Graded Cast Iron dully stress relieved body. Tool steel hardened & ground Jaws.
- In addition to the rigid design characteristics, a large heavy nut is drawn up against the machined ways on the inside vice as the movable jaw is drawn down. This creates a heavy mass of material under compression and extremely resistant to bending stresses.
- 4 Jaws Plate positions allowing extra capacity with the jaw plates in the outside position.

Code 745 - 745P - 735 & 735P

Finish : Amazon Green

▼ APEX Code 735 & 735P

Tilt Lock Machine Vice
(Size : 4", 5", 6", 8")
(735-Swivel Model)
(735P- Plain Model)



Specifications

Size in inches	4	5	6	8
Width of Jaws (in mm)	100	125	150	200
Depth of Jaws (in mm)	30	38	45	60
Between Jaws position 1 (in mm)	100	108	140	180
Between Jaws position 2 (in mm)	150	165	200	275
Between Jaws position 3 (in mm)	220	250	300	390
Between Jaws position 4 (in mm)	270	300	368	470
Width Overall (in mm) Code 735	230	250	300	410
Width Overall (in mm) Code 735P	170	195	225	290
Height Overall (in mm) Code 735	130	150	170	200
Height Overall (in mm) Code 735P	90	105	125	140
Tenon Slot Size (in mm)	16	20	20	20
Length Overall (in mm)	350	395	465	565
Weight (app. in Kgs.) Code 735	21	30	48	105
Weight (app. in Kgs.) Code 735P	16	22	36	67



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▼ **APEX Code 702**

Shaper Vice (Swivel Model)
(With Serrated Jaws)
(Size : 6", 8", 10", 12")



Features :

- Designed to permit maximum opening of Jaws. 360 degree swivel base indexed.

Construction :

- High tensile Stress Relieved quality casting.
- High Tensile steel square thread screw with bronze nut.
- Hardened and precision ground high tensile serrated Jaws ensure firm grips on heavy cuts.

Code 702 - 702P & 761

Finish : Hammer Tone Mid Grey

▼ **APEX Code 702P**

Shaper Vice (Plain Model)
(Size : 6", 8", 10", 12")



▼ **APEX Code 761**

Low Height Machine Vice
(Size : 4")



Specifications

Size in inches	6	8	10	12
Width of Jaws (in mm)	150	200	250	300
Opening of Jaws (in mm)	200	250	300	350
Depth of Jaws (in mm)	55	60	70	75
Length Overall (in mm) Code 702	550	680	770	870
Length Overall (in mm) Code 702P	490	635	710	810
Width Overall (in mm) Code 702	210	285	325	375
Width Overall (in mm) Code 702P	200	280	320	365
Height Overall (in mm) Code 702	160	175	205	230
Height Overall (in mm) Code 702P	120	130	155	175
Weight (app. in Kgs) Code 702	31	65	102	140
Weight (app. in Kgs) Code 702P	24	48	75	100

Specifications

Size in inches	4"
Width of Jaws (in mm)	100
Opening of Jaws (in mm)	65
Depth of Jaws (in mm)	30
Length Overall (in mm)	300
Width Overall (in mm)	140
Height Overall (in mm)	60
Weight (app. in Kgs.)	7



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▼ **APEX Code SG 773, 773**

Extra Grip Machine Vice
Swivel Model
Size ; 4", 6"



Features :

- Manufactured to consistent accuracy to give prolonged reliable service
- Swivel base graduated though 360°
- Tenon Slots in slide and swivel base
- Available as plain and swivel base.

Construction :

- High stress tensile stress Relieved quality casting, precision ground hardened and tempered steel jaws plate.
- ACME Thread interchangeable screw, Steel nut contained in totally enclosed sliding jaws.
- Complete with steel handle

Finish :

773,773P - Amazon Green
SG 773,SG 773P-SG Ductile Iron Body
Hammer tone metallic Blue

▼ **APEX Code SG 773P, 773P**

Extra Grip Machine Vice
Plain Model
Size ; 4", 6"



Specifications

Code	773	
	4	6
Size in inches	4	6
Width of Jaws (in mm)	105	160
Depth of Jaws (in mm)	40	50
Opening of Jaws	145	200
Length overall	460	540
Height overall (Plain) 773P	135	150
Height overall (with Base) 773	175	190
Width overall (Plain) 773P	125	170
Width overall (with Base) 773	135	180
Tenon Slot size	16	20
Weight (Plain) 773P (app. in Kgs)	21	40
Weight (with Base) 773 (app. in Kgs)	24	47



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Features :

- Manufactured to consistent accuracy to give prolonged reliable service
- Totally enclosed design prevents the ingress of foreign matter and damage to the screw and nut.
- Swivel base graduated through 360°
- Spares Readily available
- Tenon Slots in slide and swivel base
- Available as plain and swivel base.

Construction :

- High stress tensile stress Relieved quality casting, precision ground hardened and tempered steel jaws plate.
- ACME Thread interchangeable screw, Steel nut contained in totally enclosed sliding jaws.
- Complete with steel handle

Finish :

CODE 774, 774P - Amazon Green

CODE SG 774, SG 774P - Hammer tone metallic Blue

▼ **APEX Code SG 774, 774**

Hi Grip Machine Vice

Swivel Model

Size ; 4", 6"



▼ **APEX Code SG 774, 774**

Hi Grip Machine Vice

Plain Model

Size ; 4", 6"



Specifications

Code	774	
Size in inches	4	6
Width of Jaws (in mm)	105	160
Depth of Jaws (in mm)	40	52
Opening of Jaws	100	150
Length overall	480	650
Height overall (Plain) 774P	110	115
Height overall (with Base) 774	152	160
Width overall (Plain) 774P	185	240
Width overall (with Base) 774	210	260
Tenon Slot size	16	20
Weight (Plain) 774P (app. in Kgs)	23	42
Weight (with Base) 774 (app. in Kgs)	31	54



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Features :

- Free jaws setting for un-limited Vice opening allowing complete use of large machine table.
- The Jaw face gets access to the work piece as the slide slopes down on the slant by revolving the adjusting screws, and so the workpiece is clamped tightly pressed down to the table.
- Mechanical height limit is useful for attaining constant clamping pressure.
- Precise Dovetail slide in angle of 70 degree assures positive compound forward & downward clamping force.
- Slide clamping keeps full surface free for complete machining operation in one setting.
- It is useful for job heights more than 60mm.

Construction:

- S.G. Ductile Iron Body.
- Clamping Jaw made of Hardened Steel

Finish : Hammer tone metallic blue

Code 762

- Body High Tensile Stress Relieved quality casting.

Finish : Hammer tone mid gray

Specifications

Size in inches	6
Height of Jaws (in mm)	73
Width of Jaws (in mm)	150
Height Overall (in mm)	73
Width Overall (in mm)	180
Length Overall (in mm)	340
Tenon Slot Size (in mm)	20
Clamp Travel (in mm)	25
Weight (app in Kgs.)	16



Specifications

Size in inches	2.1/2	3	4	
Height (in mm)	Min.	55	100	135
	Max.	70	115	170
Width (in mm)	60	80	100	
Length (in mm)	135	190	255	
T-Slot Size (in mm)	12 to 18	20 to 26	28 to above	
Weight (app. in Kgs)	3	7.7	22.5	

APEX Code SG736 ▼

Machine Clamps
(Size : 2.1/2", 3", 4")



◀ APEX Code 762

Super Opening Adjustable
2-Piece Milling Vice
(Size : 6")

Features : Code 724

- Centering Vices are constructed to hold bars and tubes in firm concentric grip. They feature 4 point clamping contact so work pieces are held securely without hard clamping which can result in damage to delicate partsli Bearing Surface Precision ground. Flatness within 0.0012" (30 microns).
- The Vice is precisely manufactured of highest quality material , has an accuracy of parallelism of .006" per ft.li Totally enclosed acme screw with three point location of operating in Manganese Bronze Nut.

Construction:

- Close Grey Iron dully stress relieved body.
- The supporting tool steel V - Block is hardened and ground and is reversible to accommodate a wide range of diameters.

Finish : Hammer tone mid gray

Specifications

Size in inches	4	7
Width of Jaws (in mm)	110	180
Round Bar Capacity (in mm)	10 to 80	50 to 150
Vee Jaws	Reversible	Reversible
Holding Capacity (in mm)	10 to 28	50 to 90
Holding Capacity (in mm) (By reversing Vee Jaws)	20 to 80	90 to 150
Weight (app. in Kgs)	23	61

APEX Code 724 ▼

Self Centering Shaft Vice
(Size : 4",7")





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Features : Code 712

- Moving jaw is plain & fixed is provided with one vertical & two horizontal 90 degree V-grooves.
- The base and slides are precision ground for stability and accurate operation.
- Continuous Screw giving powerful grip on work.

Construction:

- Body graded cast iron dully stress relieved. Lead Screw toughened selected steel. Precision ground hardened & tempered tool steel jaws

Finish : Amazon Green

APEX Code 712 ▼

Precision Drill Vice (Deluxe Model)
(Size : 4", 6", 8")



Features : Code 775, SG 775

- The Ubiquitous Drill Vice is more than a fixture in any workshop. It is a necessity. These are specially designed for use by professionals who require a heavy Vice.
- This vice offers a ground vice bed for smooth & consistent jaw movement.

Construction:

- Manufactured from close grained cast iron.
- Jaws are hardened & ground.

Finish : Amazon Green

Code SG775:

SG Ductile Iron Body.

Finish : Hammer Tone Metallic Blue

▼APEX Code 775, SG775

Precision Drill Press Vice
(Size : 4", 6")



APEX Code 709 ▼

Standard Rack Machine Vice
(Heavy Duty) (Size : 4",5",6",8")



Specifications

CODE	712			775	
Size in inches	4	6	8	4	6
Width of Jaw (in mm)	100	150	200	100	150
Opening of Jaws (in mm)	140	220	280	105	170
Depth of Jaws (in mm)	40	55	60	35	50
Height overall (in mm)	80	110	130	70	100
Length overall (in mm)	350	460	585	335	440
Width overall (in mm)	205	255	315	200	260
Weight (app. in Kgs.)	11	26	51	18	22

Features : Code 709

- The cylindrical section of the lower part of the loose Jaw swivels allowing tapered or irregular work to be held rigidly.
- Jaws Plates Automatically pull work down.
- The positions of the loose Jaw is instantly adjustable to the full capacity of the vice.
- Jaw plate is serrated to give extra gripping power.
- Work can also be cut or drilled below the bottom of the jaw. This can not be done in the ordinary vice without injuring screw.
- Supplied complete with tommy bar.

Finish : Hammer tone mid grey.

Specifications

Size in inches	4	5	6	8
Width of Jaws (in mm)	100	125	150	200
Depth of Jaws (in mm)	40	50	50	60
Opening of Jaws (in mm)	230	260	325	400
Length Overall (in mm)	460	490	560	725
Height Overall (in mm)	90	105	120	130
Width Overall (in mm)	205	235	260	345
Weight (app. in Kgs.)	16	26	34	69



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APEX Code 760 ▼

Heavy Duty Drill Vice
(Size : 3", 4", 6")



APEX Code 713, SG713 ▼

Drill Machine Vice
(Size : 3",4",5",6",8")



Specifications

CODE	760			713				
Size in inches	3	4	6	3	4	5	6	8
Width of Jaw (in mm)	75	100	150	75	100	125	150	200
Opening of Jaws (in mm)	80	115	160	100	130	140	175	225
Depth of Jaws (in mm)	50	65	70	35	40	50	55	70
Height overall (in mm)	72	95	119	70	75	90	95	112
Length overall (in mm)	235	285	350	265	310	320	380	495
Width overall (in mm)	145	185	245	130	172	190	222	270
Weight (app. in Kgs.)	5	9	18	4.5	7	10	15	26

Features :

- Small compact and indispensable Vices with steel jaws. on the face of which are grooved horizontal and vertical notches for holding, round, square, thin & irregular work for drilling & light milling.
- Vices are equipped with a convenient unigrip mechanism. Spindle moves inside the hollow hand grip allowing the vice to be used at a location away from table edge. This feature increase the scope of application of the range of vices.

Finish : Hammer tone mid grey.

Code SG710 : SG Ductile Iron Bodys

Finish : Hammer tone metallic blue.

Features :

- Continuous Screw giving powerful grip on work.
- No lifting of the sliding jaw.
- Moving jaw is plain & fixed is provided with one vertical & one horizontal 90 degree V-grooves.

Construction:

- Closed grained C.I. Body

Finish : Hammer tone mid gray

Code SG713 : SG Ductile Iron Body.

Finish : Hammer Tone Metallic Blue

Code SG760 :

- These Vices have all the features as said above except its UNIQUE DESIGN and specifications like ample depth of jaws.
- Slide Face is Machined, hence can be used upside down (Vertically)

Finish : Enameled opaline green

APEX Code 710, SG710 ▼

Unigrip Machine Vice
(Size : 3.1/4", 4", 6")



Specifications

Size in inches	3.1/4"	4	6
Width of Jaws (in mm)	80	100	150
Depth of Jaws (in mm)	25	25	40
Opening of Jaws (in mm) (Lower Portion)	80	115	140
Opening of Jaws (in mm) (Upper Portion)	85	120	160
Length Overall (in mm)	260	325	415
Height Overall (in mm)	50	55	60
Width Overall (in mm)	145	180	240
Weight (app. in Kgs.)	3	5	10



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APEX Code 717 ▼

Empire Machine Vice
Size:(1.1/2", 2.1/2", 3", 4")



Features :

- All the sides of Body are Ground. Perfectly parallel and square to ensure complete alignment of Jaws. They can be used horizontal, Vertical and longitudinal positions.

Code 717A :

- For Holding components at any angle between 0 to 60 degrees.
- Rapid setting with protractor scale (0 degree -60 degree)
- Angle rigidly held with single strap clamp.

Code 717AS :

- **Code 717A** is mounting on swivel base providing 360° bases have 5/8" key way and bolt slots for locating and mounting of machine.

Construction :

- Body side Base, cast iron of selected quality, Main Screw Handle and side plates, High quality steel.

Finish : Hammer tone mid gray.

▼ APEX Code 717A

Empire Angle Machine Vice
Size : (2.1/2", 3")



APEX Code 717AS ▼

Empire Angle Machine Vice
Having Graduated
Swivel Base
(2.1/2", 3")



Specifications

CODE	717				717A		717AS	
Size in inches	1.1/2	2.1/2	3	4	2.1/2	3	2.1/2	3
Width of Jaws (in mm)	40	65	75	100	65	75	65	75
Depth of Jaws (in mm)	22	30	40	45	30	40	30	40
Opening of Jaws (in mm)	35	65	85	100	65	85	65	85
Length Overall (in mm)	130	210	235	295	230	275	230	275
Height Overall (in mm)	45	60	75	80	85	100	115	130
Width Overall (in mm)	40	65	76	102	90	105	110	130
Weight (app. in Kgs.)	0.8	2.4	4	6.5	4	6	5	7



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APEX Code 719 ▶

Preci Self Centering Vice
(Swivel Model)
(Size : 4", 6")

APEX Code 719P ▶



Features :

- Fully graduated 360° swivel base allows the vice to be set at any angle along the vertical axis.

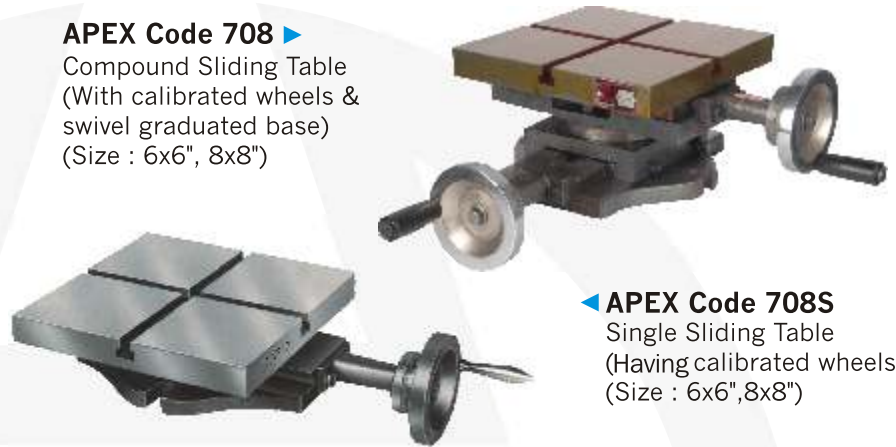
Finish : Amazon Green

Specifications

CODE	719	
Size in inches	4	6
Width of Jaws	100	150
Depth of Jaws	35	50
Opening of Jaws	100	150
Length overall (plain) 719P	250	310
Length overall (with base) 719	260	330
Height overall (plain) 719P	95	115
Height overall (with base) 719	130	160
Width overall (plain) 719P	155	205
Width overall (with base) 719	175	240
Tenon Slot size	16	20
Weight (plain) 719P (approx. in kgs.)	11	22
Weight (with base) 719 (approx. in kgs.)	14	29

APEX Code 708 ▶

Compound Sliding Table
(With calibrated wheels & swivel graduated base)
(Size : 6x6", 8x8")



◀ **APEX Code 708S**

Single Sliding Table
(Having calibrated wheels)
(Size : 6x6", 8x8")

APEX Code 707 ▼

Compound Sliding Table
(With calibrated wheels & swivel graduated base)
(Size : 12x8")



◀ **APEX Code 708 Jaws**

Jaws for Compound Sliding Tables



Features :

- The T-Slots are machined from Solid.
- Equipped with two axis positioning.
- Dovetailed slides have adjustable steel gibs to compensate for wear.
- The surface table can swivel all round and 0 degree is marked to show the angular movement.
- Base have bolt slots for machine mounting.

Application :

- These precision built standard slide tables are essential for accurate boring drilling, grinding, and milling operations

Construcauon :

- Casting are the close Grey Iron dully stress relieved accurately machined and ground surface provide tolerance well within 0.01 MM / 100 MM.
- Precision ACME feed screw is running in a hot stamped phosphor Bronze Nut thrust color for smooth operation and minimum back lash.

Specifications

Code	708	708	708S	708S	707
Size in inches	6x6	8x8	6x6	8x8	12x8
Table Size (in mm)	150x150	200x200	150x150	200x200	300x200
Height Overall (in mm)	102	102	57	62	120
Length Overall (in mm)	300	350	300	350	510
T-Slot Size (in mm)	10	10	10	10	13
Travel Bothways (in mm)	100x100	125x125	Single	Single	200x125
Sliding Travel (in mm)	----	----	----	----	----
Swivel Graduation	360°	360°	----	----	360°
708 Jaws Width (in mm)	85	85	85	85	105
708 Jaws Depth (in mm)	45	45	45	45	45
Wheel Graduation (in inch)	.001	.001	.001	.001	.002
Weight (app. in Kgs)	18	19	11	12	40

Code 708 : Top surface of the table has one longitudinal T-Slot and one cross T-Slot.

Code 708S : Single is one way travel only.

Code 707 : Top surface of the table has two equally spaced cross T-Slots.

Code 707A : Top surface of the table has two equally spaced cross T-Slots & one longitudinal T-Slot.

Code 708 Jaws : Suitable for Above.

Finish : Amazon Green



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APEX Code 707T ▶

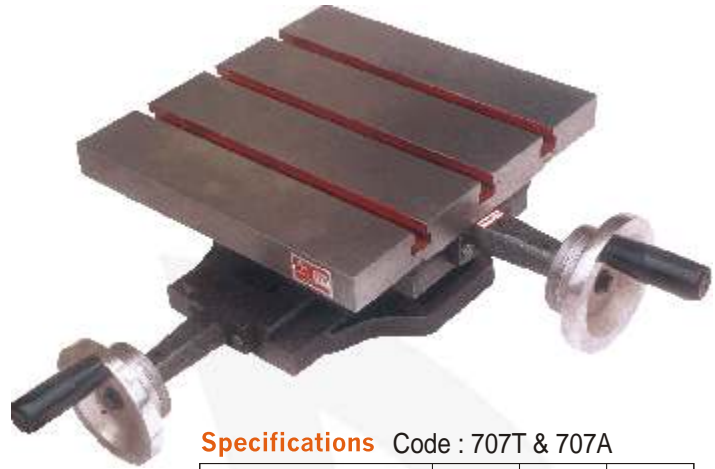
Compound Sliding Table
(With calibrated wheels &
swivel graduated base)
(Size : 12x12", 12x20", 16x16")

Code 707T : Top surface of the table has three equally spaced T-Slots.

Code 732 : Top surface of the table has one longitudinal T-Slot and three equally spaced cross Slots.

Code 711 : Designed to fit on any Lathe, will enable you to mill slots, Key ways, grooves, flats, squares, also drilling at any angle.

Finish : Amazon Green



Specifications Code : 707T & 707A

Size in inches	12x12	12x20	16x16
Table Size (in mm)	300x300	300x500	400x400
Height Overall (in mm)	110	143	143
Length Overall (in mm)	510	750	645
T-Slot Size (in mm)	13	16	16
Travel Bothways (in mm)	200x200	300x400	300x300
Sliding Travel (in mm)	----	----	----
Swivel Graduation	360°	360°	360°
708 Jaws Width (in mm)	105	150	150
708 Jaws Depth (in mm)	45	50	50
Wheel Graduation (in inch)	.002	.002	.002
Weight (app. in Kgs)	45	95	105

▼ **APEX Code 707A**

Compound Sliding Table
(With calibrated wheels &
swivel graduated base)
(Size : 12x12", 12x20", 16x16")



▶ **APEX Code 732**

Compound Sliding Table (Having calibrated wheel) (Size : 12x6")

Specifications

Code	732	711
Size in inches	12x6	7x10
Table Size (in mm)	300x150	175x250
Height Overall (in mm)	115	270
Length Overall (in mm)	440	465
T-Slot Size (in mm)	13	13
Travel Bothways (in mm)	200x115	----
Sliding Travel (in mm)	----	180
Swivel Graduation	----	180°
708 Jaws Width (in mm)	85	----
708 Jaws Depth (in mm)	45	----
Wheel Graduation (in inch)	.001	0.002
Weight (app. in Kgs)	18	23.5

APEX Code 711 ▶

Vertical Sliding Table
(With calibrated wheel &
swivel graduated base)
(Size : 7x10")



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APEX Code 706 ▶

Compound Sliding Table
(Having swivel graduated Base)
(Size : 6x6", 8x8")

Features : These slide tables have all the features of the standard slide range except the handles are plain (with out calibrations)

Finish : Amazon Green

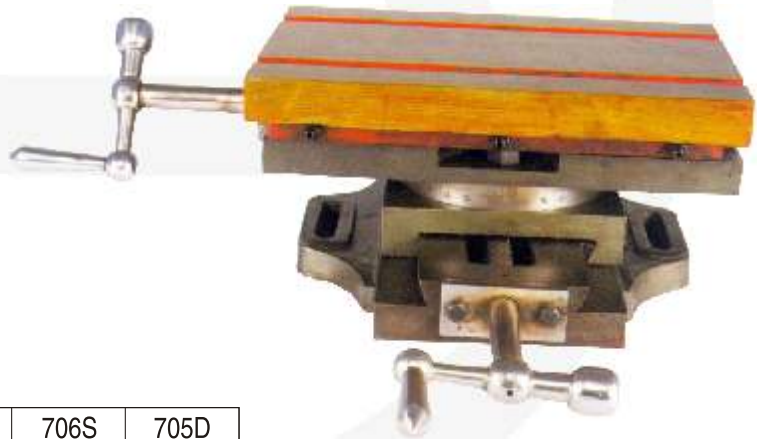


▶ APEX Code 706S

Single Sliding Table
(Having 3/8" cross slots)
(Size : 6x6", 8x8")

APEX Code 705D ▶

Compound Sliding Table
(Having swivel graduated Base)
(Size : 12x8")



Specifications

Code	706	706	706S	706S	705D
Size in inches	6x6	8x8	6x6	8x8	12x8
Table Size (in mm)	150x150	200x200	150x150	200x200	300x200
Height Overall (in mm)	102	102	57	62	120
Length Overall (in mm)	300	350	300	350	510
T-Slot Size (in mm)	10	10	10	10	13
Travel Bothways (in mm)	100x100	125x125	Single	Single	200x125
Swivel Graduation	360°	360°	--	--	360°
Weight (app. in Kgs)	16	18	9	10	35



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APEX Code 722 ▼

Profiling Milling & Slotting Slide
(Size : 18x5")



Features :

- The Longitudinal movement is applied manually and can be adjusted as per job requirement by the adjustment of two end stops provided.
- Cross Traverse movement is applied through screw action provided with graduated wheel.
- Table is provided with T-Slot or mounting indexing and dividing head grooves are provided for passing the used coolant liquid to the tank.

Application :

- Versatile for use with many machines such as milling, slotting, drilling or shaping machines.

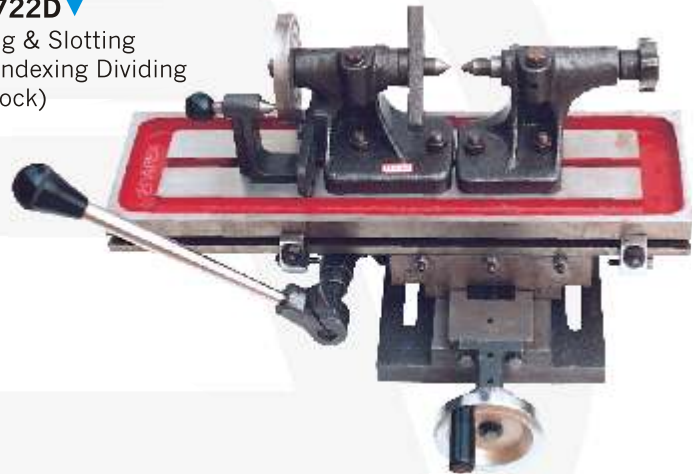
Finish : Amazon Green

Specifications

Code	722	722D
Size in inches	18x5	18x5
Size of Table (in mm)	450 x 125	450 x 125
Length of Stroke (in mm)	115	115
Longitudinal Travel (in mm)	230	230
Cross Travel (in mm)	135	135
Working Area of Table (in mm)	400x90	400x90
Size of T-Slot (in mm)	10	10
Height of Centre (in mm)	--	75
Between Centre (in mm)	--	215
Direct Dividing Plate Division	--	1-30,34,39,46,48
Wheel calibration (in inches)	.001	.001
Height Overall (in mm)	140	270
Weight (app. in Kgs.)	33	39

APEX Code 722D ▼

Profiling Milling & Slotting Slide (Having Indexing Dividing Head & Tail Stock)
(Size : 18x5")



APEX Code 721 ▼

Universal Compound Vice
(Size : 5")



Features :

- Use these Vices on your Drilling machines for cutting Key-ways, doing light jobs, making milling attachment for your lathe, making cross-sides for your wood lathes and numerous other uses. Vice fits on any Drilling Machine.

Finish : Amazon Green

Specifications

Code	721
Size in inches	5
Width of Jaws (in mm)	125
Depth of Jaws (in mm)	55
Opening of Jaws (in mm)	135
Overall Length (in mm)	440
Overall Height (in mm)	170
Overall Width (in mm)	420
Travel Bothways (in mm)	175x150
Weight (app. in Kgs)	19



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Features :

- High accuracy, easy reading of all dials clear & functional arrangement of all operating elements, sturdy yet good looking practical design. These are widely used for circular cutting, angle setting, boring and spot facing with a milling machine.
- Works as an index center in the vertical position, as well as conventional Rotary Table, graduated 360°.
- Provision for fine adjustments when setting work piece.
- Efficient lock provided.
- Worm drive disengagement is quick and precise.
- An eccentric sleeve with thrust Bearing races encases the worm shaft.
- End play in worm shaft is adjustable.

Application :

- APEX ROTARY TABLES have a sturdy design to suit many machining operations on Milling Machines including circular cutting, setting angles and indexing. They are available in a range of sizes to suit various machines and machining applications.

Construction :

- The table and base is manufactured from close grain shock resisting Cast Iron dully stress relieved
Worm & center table bush made of selected steel.

APEX Code 715 ▼

Rotary Milling Table
(Size : 6",8",10",12",
15",18",20")



APEX Code 715E ▼

Rotary Milling Table
Horizontal & Vertical
(Size:6",8",10",12",
15",18",20")



Inspection :

- Direct reading to 2 minute for size 6",8" and 10" on hand wheel scale.
- Direct reading to 1 minute for size 12",15",18" and 20" on hand wheel scale.
- ACCURACY:- Maximum error 4 minutes of circular division using hand wheels.
- Table flat to within 0.01 mm / 100 mm.
- Working surface rotates in its own plane to within 0.030 mm.
- Horizontal and Vertical supporting surface square with 0.01mm/100 mm.
- Centre bush bore is true to table axis within 0.03 mm.
- Maximum parallelism error through 360° rotation of table is .025 mm .
- **715** : The Base is provided with two bolt slots in & Code **715 E** for both Horizontal & Vertical Mounting on Machine Table.

Finish : Hammer tone mid grey.



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APEX Code 715H ▼

Indexing Device (For Rotary Tables)

Code 715 & 715E)

(Size : 6",8",10",12",15",18",20")



Features :

- **715H:** Optional unit to enable the user to convert quickly Rotary Milling to using Indexing Plates.
- The dividing plate set consist of 2 indexing plates, a sector & a handle with plunger.
- Using this dividing plate set the indexing of 2 to 60 divisions can be attained quickly and accurately.

Specifications

Size in Inches	6	8	10	12	15	18	20
Dia of Table (in mm)	150	200	250	300	375	450	500
Table T-Slot Size (in mm)	10	13	13	16	16	20	20
Centre Bush Bore (Morse Taper)	2	3	3	3	3	4	4
Worm & Gear Ratio	1:72	1:72	1:72	1:120	1:120	1:120	1:120
Wheel Calibration (In minutes)	2	2	2	1	1	1	1
Height Overall (in mm)	95	105	110	130	135	160	160
715 & 715E – Horizontal							
Height Overall (in mm)	240	300	365	425	530	620	620
715E – Vertical							
Base to Centre 715E	125	160	180	220	265	315	315
No of Indexing Holes 715H	19 27 23 25	30 33 28 31	41 47 39 43	19 27 23 25	30 33 28 31	41 47 39 43	53 61 51 59
Weight (app. in Kgs.) 715	14	23	36	55	95	162	177
Weight (app. in Kgs.) 715E	16	27	42	65	100	175	187
Weight (app. in Kgs.) 715H	2.5	2.5	2.5	3.5	3.5	3.5	3.5



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Features :

- Adjustable locking levers ensure perfect vibration less working.
- The base plate is splash-proof and is provided with an inter-changeable index plate.
- Clamping and unclamping is fast, Indexing is quick and accurate. Hence one can achieve substantial increase in efficiency at the same time maintaining indexing accuracies.
- Ideal for batch and mass production, tool rooms and production shops.

Application :

- The Collet Fixture is developed for various production jobs. The standard collet of Traub A-25 or A-42 can be conveniently used on the fixture to perform various milling operations like slotting, gangmilling, square, hex milling and PCD Drilling.
- Supplied without collet.

Finish :

- Black oxidized & Hammer tone mid grey..

▼ APEX Code 766

Indexing Collet Fixture
(For Collet A-25 & A-42)



◀ APEX Code 767

Indexing Milling Fixture
(Having 3 Jaws Chuck Mounting)
(Size : 4", 6")

Features :

- This is similar to Code766 but provided with 3 jaws self centring true chuck with reverse jaws for holding any diameter upto chuck capacity.
- Indexing Can Be carried out Directly by 360 graduated collar as well as by index plate and finger.

Finish :

Hammer tone mid grey.

Specifications

Code	766 A-25	766 A-42	767 4"	767 6"
Overall Length (inmm)	320	320	320	320
Overall Width (in mm)	230	230	230	230
Graduation	360	360	360	360
Distance Between Slots	295	295	295	295
Chuck Size (in mm)	---	---	100	160
Chuck Hole (in mm)	---	---	22	40
Weight (app. in Kgs.)	17	17	18	23



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APEX Code SG770 ▶

Collet Fixture
(For Traub A-25, A-42 & Herbert 2-D Collects)



Features :

- Split second clamping & unclamping of job.
- Most versatile application.
- Ideal & efficiency booster for mass production.

Construction :

- SG Ductile Iron Body (Unbreakable).
- Collect holder made of selected steel hardened & ground.

Finish :

- Black oxidized & Hammer tone metallic blue.

Specifications

Code	Suitable for	Length (in mm)	Width (in mm)	Height (in mm)	Collet Capacity (in mm)	Weight (app. in Kgs.)
SG770 - A25	Traub A-25 Collect	220	110	110	A25	6.50
SG770 - A42	Traub A-42 Collect	220	110	110	A42	7.50
SG770 - H2D	Herbert 2D Capstan Lathe Collets	220	110	110	H2D	7.50

APEX Code 765 ▼

Tilting Indexing Device
(Having 3 Jaws Chuck Mounting)
(Size : 4", 8")



Specifications

Size in inches	4	8
Diameter Chuck (in mm)	100	200
Length (in mm)	250	300
Width (in mm)	220	280
Height (in mm)	190	270
Swivel	360°	360°
Tilting	90°	90°
Slots Distance (in mm)	170	275
Weight (app. in Kgs.)	16	62

Features :

- For bigger quantity work, rapid indexing is simplified by use of replaceable notched rings can be notched to individual requirements.
- Rapid direct indexing through 360 degree by means of scales graduated in units of one degree division on the flanges.
- Indirect indexing is by means of worm and worm wheel giving direct reading of one minute on handwheel scales.
- The chuck can be swivelled up to 90 degree
- Worm Gear is easily and quickly detachable for direct indexing.
- Three Jaws chuck is standard equipment with one set of reverse jaws.
- The Graduation ring on hand knob is adjustable./ul>

Application :

- An ideal indexing device for mechanics, tool makers and engravers for speedy and precision milling, drilling, boring and grinding operations.

Finish :

- Amazon Green



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APEX Code 723 ▼

Tilting Table
(Size : 5x7", 7x10",
10x15")



Features :

- Special design for angle setting on various machine tools.
- Low profile for larger working space.
- The table is set manually to the required Tilt and is locked in the set position by means of two locking clamps held through bolts.
- Can be adjusted by 45 degree on both right-hand and left- hand side.
- The angle marking are accurate and easy to read.

Application :

- Useful accessory for setting work at an angle for milling or other operations.

Construction :

- Cast Iron Stress Relieved Tilting Table.

Finish :

- Hammer tone mid grey.

Code 723S :

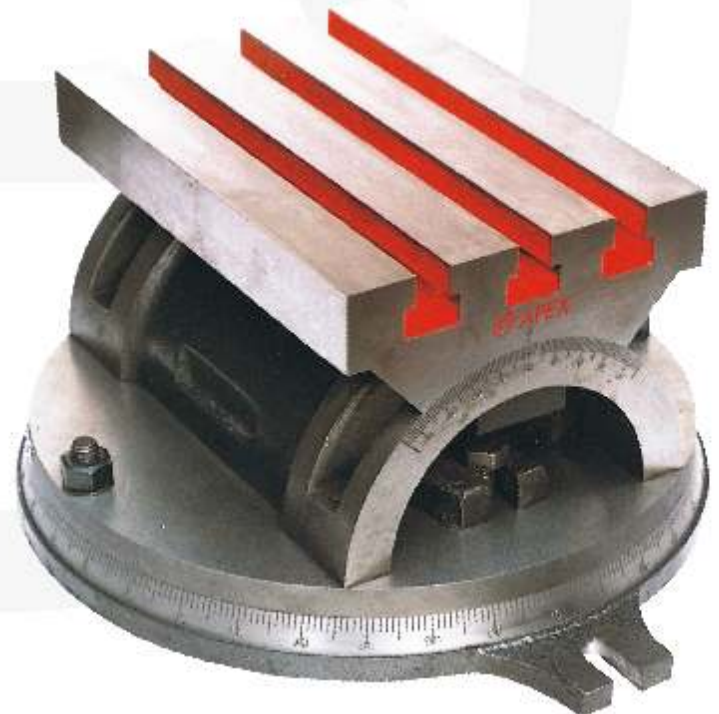
- The unique design on Connecting Plate and 360 degree Graduated Swivel Base, making it possible for the Angle Plate to do rotation at any angles.

Finish :

- Hammer tone mid grey.

APEX Code 723S ▼

Tilting Table
(Having Swivel Base)
(Size : 5x7", 7x10",
10x15")



Specifications

Size in inches	5x7	7x10	10x15
Size of Table (in mm)	125x175	175x250	250x375
Height overall (in mm)723	98	138	174
Height overall (in mm)723S	135	180	225
Width overall (in mm) 723S	230	320	470
Length overall (in mm) 723S	315	410	560
T-Slot Size (in mm)	13	16	16
Calibration 723	0 to 90°	0 to 90°	0 to 90°
Swivel Graduation 723S	360°	360°	360°
Weight (app. in Kgs.) 723	9	22	45
Weight (app. in Kgs.) 723S	14	35	84



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APEX Code 771, 771T ▶

All Steel Precision Grinding Vice

Features :

- All Vice surfaces are precision ground.
- The movable jaw is slightly narrow than the base enabling the vices to be used on either sides in addition to the base.
- Clamping and releasing is through a threaded spindle with precision cut square threads for smooth operation.
- Vice spindle moves in a specially designed gun metal bush which reduces wear thus enhancing the life of the vice.
- Fix Jaw side threaded for clamp support 5/16"BSW.
- These are available in two models.

Application :

- Used in tool manufacturing, on grinding, milling, and jig boring machines for measurement an inspection work and in manufacturing processes that require highest standards of clamping accuracy.

Construction 771 :

- Manufactured from Selected Carbon Steel, these soild one piece vices are fully hardened (45-50 HRC) and tempered to ensure stability and durability.

Accuracy :

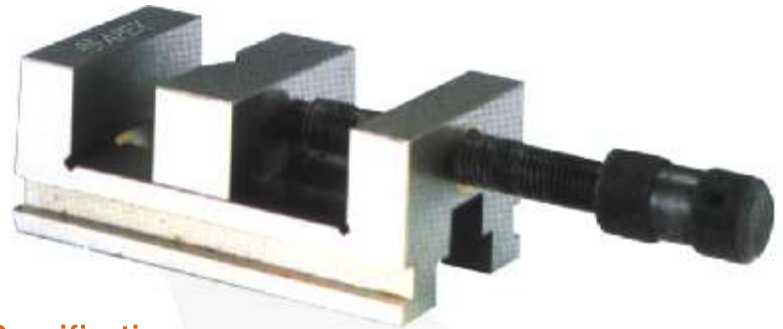
- Parallelism : 0.015 max (15 Microns)
- Perpendicularity : 0.015 max (15 Microns)

Construction 771T :

Manufactured from Tool Steel Body, these soild one piece vices are fully hardened (52-60 HRC) and tempered to ensure stability and durability.

Accuracy :

Parallelism : within 8 microns



Specifications

Size in inches	3	4	
Width of Jaws (in mm)	76	95	771- Carbon Steel body (Hardened 45-50 HRC)
Depth of Jaws (in mm)	40	45	Parallelism : within 15 Microns
Opening of Jaws (in mm)	82	105	Perpendicularity : within 15 Microns
Length Overall (in mm)	200	235	771T- Tool Steel body (Hardened 52-60 HRC)
Height Overall (in mm)	70	90	Parallelism : within 8 Microns
Weight app. (in Kgs.)	5.220	9.700	Perpendicularity : within 12 Microns

Features :

- The rapid positioning notches allow the vice to be locked in any position by means of an allen key provided with the vice.
- Vee grooves in the sliding jaw, both horizontal and vertical, facilitate holding of round jobs.
- Jaw pressure on work piece is forward and downward for repeatable positioning and maximum holding power

Application :

- The vices are particularly suitable for erosion work.

Construction 772 :

- Manufactured from Selected Carbon Steel, these soild one piece vices are fully hardened (45-50 HRC) and tempered to ensure stability and durability.

Accuracy :

- Parallelism : within (15 Microns)
- Perpendicularity : within (15 Microns)

Construction 772T :

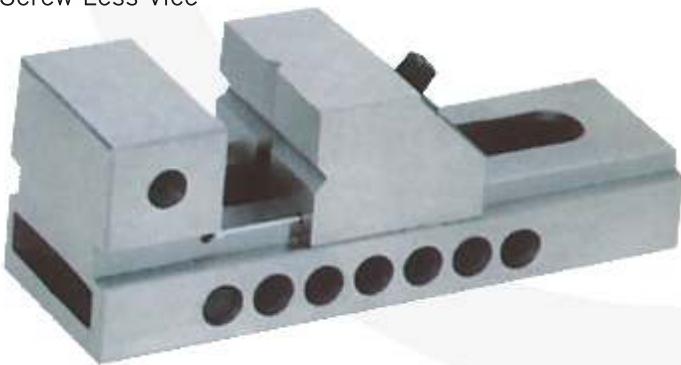
Manufactured from Tool Steel Body, these soild one piece vices are fully hardened (52-60 HRC) and tempered to ensure stability and durability.

Accuracy :

Parallelism : within 8 microns
Perpendicularity : within 12 microns

▼ APEX Code 772, 772T

Tool Makers Precision
Screw Less Vice



Specifications

Size in inches	3	4	
Width of Jaw (in mm)	75	97	772- Carbon Steel body (Hardened 45-50 HRC)
Depth of Jaws (in mm)	40	90	Parallelism : within 15 Microns
Opening of Jaws (in mm)	105	130	Perpendicularity : within 15 Microns
Length Overall (in mm)	74	94	772T- Tool Steel body (Hardened 52-60 HRC)
Height Overall (in mm)	196	245	Parallelism : within 8 Microns
Weight app. (in Kgs.)	4	8	Perpendicularity : within 12 Microns



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◀ **APEX Code 750**
Swivel Angle Table
(Size : 5x6", 6x8", 8x10",
10x12",12x15")

Features :

- These Tilting Angle Tables are available in a range of sizes. They are designed primarily of simple, quick angle adjustment and angle setting on Drilling and Milling Machines.

Finish :

- Wrinkle Black.

Specifications

Size in inches	5x6	6x8	8x10	10x12	12x15
Size of Table (in mm)	125x150	150x200	200x250	250x300	300x375
Height overall (in mm)	110	130	165	210	230
T-Slot Size (in mm)	13	13	13	16	16
Weight (app. in Kgs)	6.50	11.50	23	42	70



APEX Code 751 & 752▼
Angle Plates (751-Machined)
(752-Precision Ground)

Features :

- These angle plates offer a versatile means of holding work for layout. Machining and inspection and are also widely used as vertical reference.
- Supplied in two grades machined & precision ground.
- Code 751 machined recommended for General setup, Flat and square .002" per 6" (0.5 mm per 150mm)
- Code 752 precision Ground recommended for layout and square .0005" per 6" (.02 mm per 150 mm)

Construction :

- Made from high quality closed grained cast iron normalized stress relieved. With ample thickness and ribbed construction.

Finish :

- Wrinkle Black.

Specifications

CODE 751	CODE 752	Size in Inches	Weight (app. in Kgs.)
Machined	Precision Ground		
751-2	752-2	2x2x2	0.5
751-3	752-3	3x3x3	1.3
751-4	752-4	4x4x4	3
751-5	752-5	5x5x5	5
751-6	752-6	6x6x6	8
751-8	752-8	8x8x8	17
751-10	752-10	10x10x10	29
751-12	752-12	12x12x12	47



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APEX Code 753 & 753G ▶

Slotted Angle Plates

Webbed End

(753-Machined)

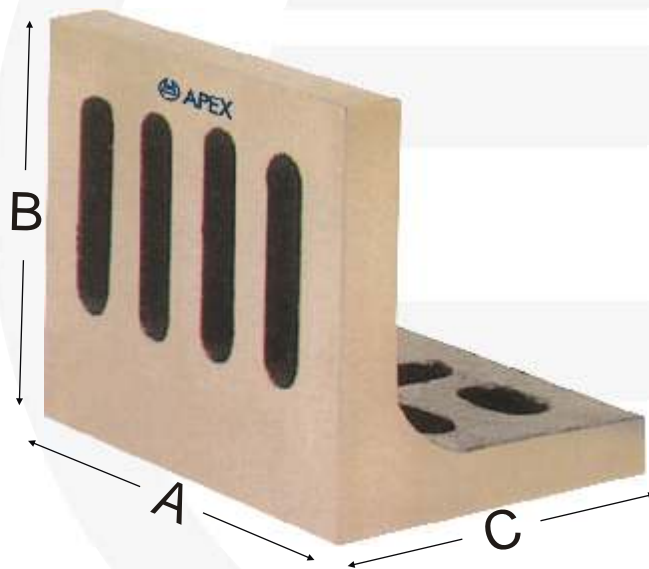
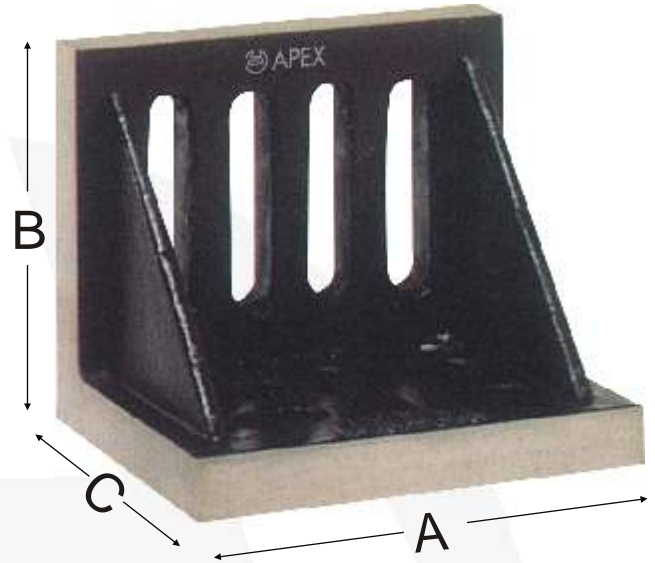
(753G - Precision Ground)

Features :

- These slotted angle plates have all the features of Code 751 except are provided with convenient clamping slots for mounting and are widely used for machining lay out and inspection.
- Spllied in two types webbed end have side webs & an open end.
- **Code 753G** Webbed End Precision Ground

Finish :

- Wrinkle black



◀ **APEX Code 754 & 754G**

Slotted Angle Plates Open End

(754 - Machined)

(754G- Precision Ground)

Specifications

CODE 753 (Webbed End)	CODE 754 (Open End)	Length In Inches 'A'	First Angle In Inches 'B'	Second Angle In Inches 'C'	Weight In Kgs 753	Weight In Kgs 754
753-1	754-1	3	2.1/2	2	0.6	---
753-2	754-2	3.1/2	3	2.1/2	0.8	---
753-3	754-3	4.1/2	3.1/2	3	1.4	1.3
753-4	754-4	6	5	4.1/2	4	3
753-5	754-5	7	5	4.1/2	5	5
753-6	754-6	8	6	5	6	5
753-7	754-7	9	7	6	8	8
753-8	754-8	10	8	6	11	10
753-9	754-9	12	9	8	20	20



APEX Code 755 ▶

Giant Slotted Angle
Plates Machined

Features :

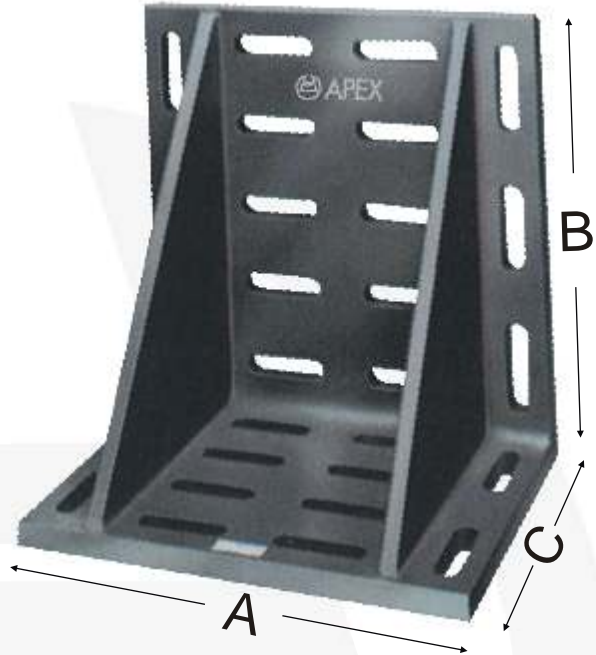
- Machined on outside faces and with cored slots arranged for maximum clamping versatility.
- APRX Giant Angle Plates are best suited for work mounting and set up on such larger Machine Tools as Planning Machines Radial Drilling machines and so on.

Finish :

- Wrinkle black

Specifications

CODE	Length In Inches			Weight (app. in Kgs.)
	'A'	'B'	'C'	
755-1	16	12	9	31
755-2	20	16	12	61
755-3	24	24	18	161



APEX Code 777 ▶

Stepped Angle Plates



Features :

- A convenient step of 32 mm down from the top and a 12 mm seat allows for use with smaller work pieces. Presence of 24 tapped hole allows for fastenings to fixtures & clamping work to the angle plate.

Application :

- An indispensable device for accurate work in tool room and in small production, jobs for checking flatness squareness and parallelism.

Construction :

- Manufactured from a single piece of hardened tools steel.
- Precision Ground, square and parallel.

Accuracy :

- Flat working faces (5 Microns)
- Squareness exterior faces over height (10 Microns)
- Parallelism opposite faces & edges over their length (5 microns)
- Squareness and faces w.r.t. Exterior faces as measured over length (10 microns)

Specifications

Size (in inch)	3 x 3 x 3	4 x 4 x 4
Size (in mm)	75 x 75 x 75	100 x 100 x 100
Thread spec. of tapped holes	1/4" BSW	5/16" BSW

Flatness working faces (5 Microns)

Squareness exterior faces over height (10 Microns)

Parallelism opposite faces & edges over their length (5 Microns)

Squareness end faces w.r.t. Exterior faces as measured over length (10 Microns)



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APEX Code 756 ▶

C.I.Vee Blocks
(Machined)

Features :

- Supplied in Matched and numbered pairs, these Vee Blocks provide a useful means of holding cylindrical work for layout, inspection, drilling and machining. Each pair is accurately machined with 90 degree Vee which is centered in true and square and parallel with the base to within 001" (.03 mm) can be precision ground to .0005" (.01mm) if so desired.

Finish :

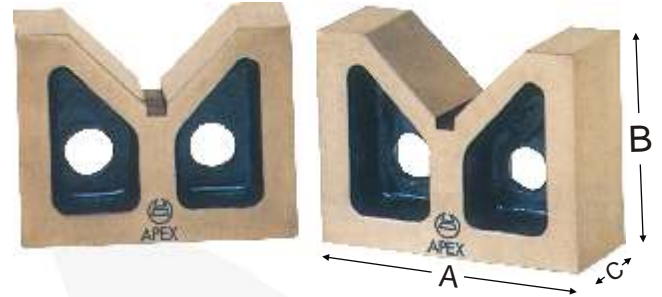
- Wrinkle black

Specifications 756

CODE 756	Width in mm 'A'	Height in mm 'B'	Thickness in mm 'C'	Weight (app. in Kgs.)
756-2	50	32	47	0.4
756-3	75	60	65	1.2
756-4	100	65	80	2
756-5	125	80	100	4
756-6	150	88	125	7
756-7	175	113	150	13
756-8	200	138	200	20
756-10	250	163	250	31
756-12	300	200	300	58

Specifications 756G

Width in mm 'A'	Height in mm 'B'	Thickness in mm 'C'
50	38	38
75	38	38
75	50	50
100	38	75
100	63	63
100	75	75
125	44	88
150	50	100
150	100	100



APEX Code 756G ▶

C.I.Vee Blocks
(Precision Ground)



APEX Code 779 ▶

Tool Maker's Vee Block & Clamping Sets-Precision

- Permissible height difference between matched pairs (5 Microns)
- Parallelism and Squareness of Vee Grooves with respect to all surfaces (8 Microns)
- Parallelism of opposite faces of Vee Blocks (8 Microns)
- Squareness of adjacent exterior faces of Vee Blocks (8 Microns)
- Flatness of working faces (5 Microns)



Features :

- Manufactured and numbered in matched pairs, each pair has two 90 degree Vees of different capacities which are identical to the Vees of its matching block. The Vees are ground central, parallel and square with the ends and sides.
- Each pair of vee Blocks comes complete with a pair of rigid and robust clamps.

Application :

- Useful for holding work securely during drilling, milling and grinding operations and also in layout and inspection work.

Accuracy :

- Permissible height difference between matched pairs within 5 microns
- Parallelism and squareness of Vee Grooves with respect to all surfaces within 8 microns
- Parallelism of opposite faces of Vee Blocks within 8 microns
- Squareness of adjacent exterior faces of vee Blocks within 8 microns
- Flatness of working faces within 5 microns

Construction :

- Made from finely selected tool steel fully hardened to 50-55 HRC.

Specifications

Code	Block Length (in mm)	Block Width (in mm)	Block Height (in mm)	Width Small Vee (in mm)	Width Large Vee (in mm)	Clamping Capacity
779-1	40	32	32	11	20	25
779-2	45	40	36	14	28	32
779-3	50	37	37	13	28	37
779-4	60	40	50	17	25	30
779-5	70	45	40	17	33	37
779-6	75	55	55	17	35	40
779-7	80	65	65	22	45	50
779-8	100	75	75	30	68	75



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APEX Code 780 ▶
Ultimate Vee Block &
Clamp Set



Features :

- Capable of being used on base, on end flat on either sides as the clamp is within the outside width of the block.
- Adjustable side screw with cap in the clamp supports the block and prevents tilting during drilling, milling or grinding operations.
- Four 3/8"-16 tapped holes, two in the base and one on each side allow attachment to an angle iron which can then be attached to a lathe face plate or held by a magnetic chuck
- Grooves at the stepped end, right angled to the base, provides handy means for holding shouldered stud, round Pins etc.

Construction :

- Manufactured from Selected Steel, Vee Blocks are fully hardened and ground.

Specifications

Code	Block Length MM	Block Height MM	Block Width MM	Clamping Capacity
780	90	48	48	33

◀ **APEX Code 778**
4 Way Vee Blocks-Cast Iron

Features :

- Manufactured and supplied in matched and numbered pairs.
- Each Block incorporates 4 different sized Vee's thereby supporting a wide range of sizes. This enables a single block to be used as a workholding device for supporting different sized jobs.
- The larger sizes incorporate a cavity on either sides for convenience in handling during usage.

Application :

- These are very useful for making and checking of cylindrical parts.

Construction :

- Made from close grained cast iron.
- These vee block are precisely ground and machined square and parallel.

Accuracy :

- Squareness and Parallelism of vee grooves with respect to base (30 Microns)



Squareness and Parallelism of Vee grooves with respect to base (30 Microns)

Specifications

CODE 778	Width (in mm)	Length (in mm)	Height (in mm)	Vee Capacity (in mm)
778-1	35	95	70	20x30x40x50
778-2	30	100	100	20x30x40x50
778-3	35	120	120	30x40x50x60
778-4	60	120	120	30x40x50x60
778-5	75	150	150	40x50x60x70
778-6	100	200	200	60x70x80x100



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◀ **APEX Code 769**
Magnetic Vee Blocks Soft(Pair)

◀ **APEX Code 769H**
Magnetic Vee Blocks Hardened(Pair)

Features :

- Designed for versatility and accuracy, these Vee Blocks are ideal for holding round or irregular shapes for scribing, grinding measuring, machining and testing applications.
- These can be used either ways, up or standing on end. All Vee's and faces can be energized or de energized simultaneously by turning the rotary action control knob. This feature enables the Vee Block to hold both itself and the work on any flat ferrous surface including a permanent magnetic chuck (without energizing the chuck)
- For Applications require two Vee Block matched & numbered pairs are available.

Specifications

Code		Size of V-Block		Holding Capacity (mm)
		Inch	mm	
769-1	-	2.5/8x2x2.3/8	65x60x50	38
769-2	769H-2	3.1/4x2.3/8x3.3/4	80x65x60	48
769-3	769H-3	4x3x3.3/4	100x95x75	62
769-4	769H-4	6x3x3.3/4	150x95x75	65
769-5	-	8x4x6	200x150x100	90

APEX Code 743 & 743F ▶

Permanent Magnetic Chucks Circular
(Size : 3", 4", 4.3/4", 6", 8", 9", 10", 12", 14", 18", 24")

Features :

- **Code 743**
Permanent Magnetic Chucks Circular
- **Code 743F**
Permanent Magnetic Chucks Circular



Specifications

Size in inches	4	4.3/4	6	8	9	10	12	14	18	24
Dia of Table (in mm) 743	100	120	150	200	225	250	300	350	450	600
No of Poles 743	3	4	4	5	5	5	6	8	10	12
No of Poles 743F	--	--	5	6	6	7	9	11	12	16
Working area of Table 743	70	85	110	170	180	200	250	300	390	525
Weight (app. in Kgs.) 743	4	5	7	14	15	19	26	45	75	115
Weight (app. in Kgs.) 743F	4	5	7	14	15	19	26	45	75	115



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APEX Code 742 ▼

Permanent Magnetic
Chucks Rectangular
(Size : 4"x8" to 12"x24")

Features :

- Suitable to work both in drift or wet grinding process.
- Extra thick top plates ensure many years of life even after frequent re-grinding.
- Supplied with side & end stops.
- High performance at a competitive price.

Application :

- Designed for application on surface grinding machine as well as to serve as a working aid on various Engineering working sites.



APEX Code 742F ▼

Fine Pole
(Size : 5"x10" to 8"x24")

Features :

- Fine (close) Pole Pitch For High clamping.



Specifications

Size in inches	4x8	4x12	5x10	6x10	6x12	6x14	6x18	6x24	8x12	8x14	6x18	8x18	8x24	10x24	12x24
Width of Table (in mm)	100	100	125	150	150	150	150	150	200	200	150	200	200	250	300
Length of Table (in mm)	200	300	250	250	300	350	450	600	300	350	450	450	600	600	600
No of Poles (Code 742)	5	7	5	5	6	8	10	12	6	8	10	10	12	12	12
No of Poles (Code 742F)	--	--	7	7	9	11	12	--	---	--	12	--	16	--	--
Working area of Table	70x	70x	95x	115x	115x	115x	115x	115x	165x	165x	115x	165x	165x	205x	255x
Code 742 & 742F	150	215	175	175	240	295	375	515	225	295	375	375	515	515	515
Weight (app. in Kgs.) Code 742	9	12	13	15	18	22	30	36	24	31	30	36	53	66	80
Weight (app. in Kgs.)Code 742F	--	--	13	15	18	22	30	--	--	--	30	--	53	---	---



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APEX Code764▶

Dial Comparator Stand
(Supplied without
dial guage)

Features :

- This range of comparators with a round anvil are especially useful for fast and efficient dimensional inspection on production parts.
- The longitudinal slide can be adjusted to different positions using the knurled steel knob. It moves along the ground steel pillar which is at accurate right angles to the base.
- The round anvil with a diameter of 60 mm is hardened to 50-55 HRC and ground for high accuracy. The flatness of the working face of the anvil is controlled to within 0.00008”)2 Microns)

Construction :

- The Comparator stand comprises of heavy duty base made from close grained cast iron precisely ground and machined providing a totally flat surface. All models are supplied with in a dial gauge.



Specifications

Code	Throat Depth MM	Measuring Range MM	Fine Adjustment MM	Pillar Dia. MM	Weight app. Kgs
764-3	75	120	3	25	3.250
764-8	60	90	--	25	3.350
764-5	45	30	--	--	2.250

APEX Code 781 ▼

Micrometer Stand



Features :

- An indispensable clamping device for precise and stable measurements, it is most useful to speed up production and quantity inspection jobs.
- Both clamping and positioning of the micrometer is achieved using a single clamp.
- It is highly useful for sorting parts in batch inspection and for incoming inspection purposes.
- the Stand allows the micrometer to be mounted in a stable manner for accurate undisturbed reading.

Construction :

- The body is made of close grained cast iron precisely machined to close accuracies.
- The swivel clamping pad is made from aluminium which helps eliminate any damage to the measuring device.

Finish : Powder Coated

Specifications

Base Dia(in mm)	110
Height (in mm)	100
Weight app. (in kgs.)	1.500



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▼ **APEX Code 741**

Mechanic's Bench Vice (Fixed Base)
(Size : 2.1/4", 2.1/2", 3", 3.1/2",
4", 4.1/2", 5", 6", 8", 10", 12")



Features :

- Industry's favorite Mechanic's Bench Vices for 40 years had been made better. It's more of a "workhorse" than ever and here are solid reasons why
- Massive Anvil: More anvil area than before and the largest of any Mechanic's Vice in the market.
- Precision machine component & bearing surface for smooth operation and reliability.
- **Code-741S** Swivel base rotates 360 degree can firmly be locked at any point.

Construction :

- Stressed Parts "Beefed - up" ! Areas of greatest stress have been strengthened with shock resisting C.I. casting for long dependable service.
- The large Diameter main screw fine pitched, square thread made of high grade steel.
- Long Forged Steel: Detachable and replaceable nut.
- Replaceable hardened steel serrated jaw plates guarantee a fast non-slip grip.

Finish : Enameled oxford blue

APEX Code 741S▶

Mechanic's Bench Vice
(Swivel Base)
(Size : 2.1/2", 3", 3.1/2",4",
4.1/2", 5", 6", 8")



Specifications

No.	00	0	1	2	3	4	5	6	8	10	12
Size in inches	2.1/4	2.1/2	3	3.1/2	4	4.1/2	5	6	8	10	12
Width of Jaws (in mm)	60	65	80	90	100	115	125	150	200	250	300
Opening of Jaws (in mm)	60	65	90	100	120	140	170	200	235	300	365
Depth of Jaws (in mm)	45	50	55	60	70	80	85	90	110	120	140
Weight (app. In Kgs) 741	3.7	4.4	6	8.5	15	16	20	25	40	70	79
Weight (app. in Kgs) 741S	--	5.9	8.3	10.9	18	19	24.2	30	48	--	-



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APEX Code 740 ▶

Heavy Duty Bench Vice (Fixed Base)
Deluxe (Double Rib)
(Size : 3", 3.1/2", 4", 4.1/2", 5", 6", 8")

Features :

- These vices have all the features of the Standard Mechanic's Vices Code 741 except its heavy duty & the slide is provided with double ribs to ensure long life accuracy.

Construction :

- Nut : S.G. iron. Acme fine pitched thread screw.

Finish :

- Enameled smoke grey.



Specifications

No.	1	2	3	4	5	6	8
Size in inches	3	3.1/2	4	4.1/2	5	6	8
Width of Jaws (in mm)	80	90	100	115	125	150	200
Opening of Jaws (in mm)	90	100	120	140	170	200	235
Depth of Jaws (in mm)	55	60	70	80	85	90	110
Weight (app. in Kgs)	7	11	16	20	23	30	44

APEX Code 740S ▶

Heavy Duty Bench Vice Deluxe
(Double Rib) Swivel Base
(Size : 3", 3.1/2", 4", 4.1/2", 5", 6", 8")

Features :

- **740S:** Swivel base rotates 360° can firmly be locked at any point.

Finish :

- Enameled smoke grey.



Specifications

No.	1	2	3	4	5	6	8
Size in inches	3	3.1/2	4	4.1/2	5	6	8
Width of Jaws (in mm)	80	90	100	115	125	150	200
Opening of Jaws (in mm)	90	100	120	140	170	200	235
Depth of Jaws (in mm)	55	60	70	80	85	90	110
Weight (app. in Kgs)	10.4	13.3	20	23	28	36	56



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APEX Code 757 ▼

Tool Maker's Bench Vice
(Fixed Base)
(Size : 3",3.1/2",
4",5",6",8")



Features :

- The whole mechanism is designed for safety in depth so that the handle will bend before the body is over stressed. A margin of safety which we build into every Apex Vice.

Construction :

- Nut : bronze Acme Thread.

Finish :

- Enameled Opaline Green.

APEX Code 757S ▼

Tool Maker's Bench Vice
(Swivel Base) (Size : 3.1/2", 4",
5", 6", 8")



Features :

- 757S: Swivel base rotates 360° can firmly be locked at any point.

Finish :

- Enameled Opaline Green.

Specifications

No.	1	2	3	5	6	8
Size in inches	3	3.1/2	4	5	6	8
Width of Jaws (in mm)	80	90	100	125	150	200
Opening of Jaws (in mm)	90	100	120	170	200	235
Depth of Jaws (in mm)	55	60	70	85	90	110
Weight (app. in Kgs) 757	6.6	9	16.7	22	29	44
Weight (app. in Kgs) 757S	---	11	19.6	26.9	35.4	51



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▼ **APEX Code SG734**

Cross Rib Bench Vice
(Fixed Base)
(Size : 3", 4", 5", 6", 8")



Features :

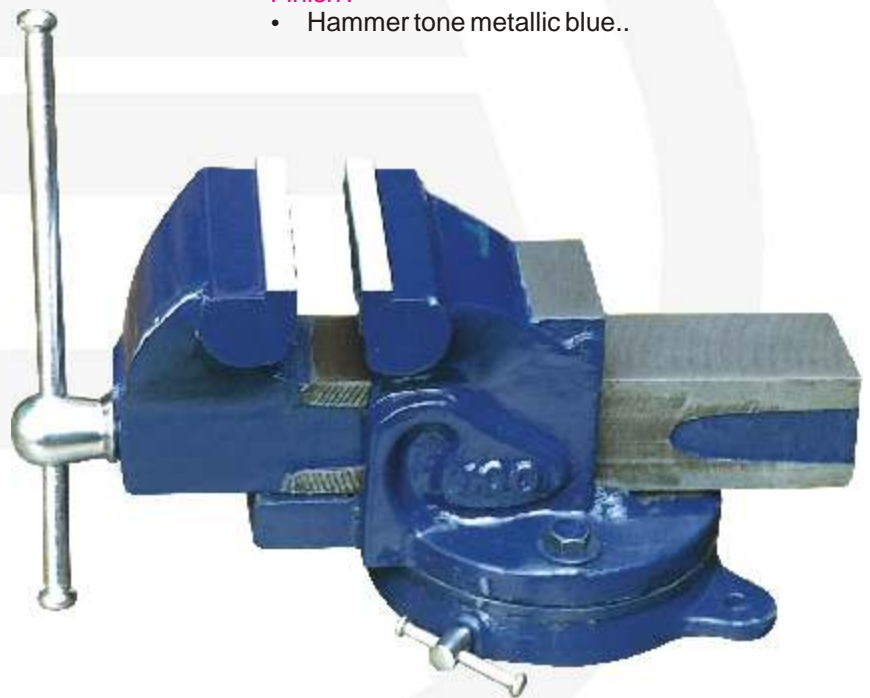
- Undoubtedly the most popular of the lot, these are a common sight in almost all workshop and garages. These are available with a fixed base for regular usage or a swivel base that allows rotation through 360° with firm locking at any position. The swivel base allows the vice to be adjusted to accept work of varying length.
- The Swivel base can be easily removed and vice converted back to a regular fixed base vice.
- Warning: These vices are designed for gripping / holding jobs and should not be used where heavy hammering is anticipated.

Finish :

- Hammer tone metallic blue..

APEX Code SG734S ▶

Cross Rib Bench Vice
(Swivel Base)
(Size : 3", 4", 5", 6", 8")



Code SG 734 : SG Ductile Iron Body.

Finish :

- Hammer tone metallic blue..

Specifications

Size in inches	3	4	5	6	8
Width of Jaws (in mm)	75	100	125	150	200
Opening of Jaws (in mm)	85	100	130	155	200
Depth of Jaws (in mm)	50	60	70	85	100
Weight (app. in Kgs) 734	4.9	8.3	12.5	20	31
Weight (app. in Kgs) 734S	6.5	10.3	15.5	25	39



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APEX Code 746▶

Machinist's Bench Vice
As Per IS-2586-1986
(Size : 2", 2.1/2", 3",
4", 5", 6")

Features :

- Made as per IS: Specification 2586-1986.
- NuT: C.I. conforming to minimum grade FG 200 of IS: 210-1978 or Phosphorus Nut Bronze conforming to IS: 28-1975.

Finish :

- Enameled smoke grey.



Specifications

Size in inches	2	2.1/2	3	4	5	6
Width of Jaws (in mm)	60	65	75	100	125	150
Opening of Jaws (in mm)	55	70	110	140	170	205
Depth of Jaws (in mm)	44	50	65	80	85	90
Weight (app.in Kgs)	3	4.5	7	15	20	25

APEX Code 739▼

Quick Action Bench Vice
(Size : 4", 4.1/2", 5", 6")

Features :

- The quick release mechanism disengages the main screw allowing rapid movement of the slide.
- Conventional plain screw may be used when desired.
- A time saving feature in repetitive work situations.
- Double rib slide High Quality fine pitched screw. Bronze nut for long life.

Application :

- Designed for fitting, filing and large assembly work, this vice is standard equipment for many industrial and training workshops.

Finish :

Enameled smoke grey.



Specifications

Size in inches	4	4.1/2	5	6
Width of Jaws (in mm)	100	115	125	150
Opening of Jaws (in mm)	120	140	165	235
Depth of Jaws (in mm)	65	75	85	90
Weight (app.in Kgs)	18.4	21	27	32



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APEX Code 759▼

All Steel Bench Vice
(Fixed Base)
(Size : 3", 4", 5", 6", 8")



Features :

- Designed to with-stand the more rigorous use-hot rolled-steel welded construction.
- **Code 759S:** With swivel base.

Finish : Amazon Green.

APEX Code 759S▼

All Steel Bench Vice
(Swivel Base)
(Size : 3", 4", 5", 6", 8")



Features :

- Accurate workmanship plus "APEX" design feature provide this vice great clamping strength and accuracy.
- **Rear Jaw Sliding:** The design of front jaw being stationary helps the additional muscular strength and never breaks like ordinary design.
- **Dove Tail Guide Ways:** Thus Positive locking to withstand heavy loads.
- **Nut & Screw:** Are held in Jig Bored Holes hence are within the perfect straight line and have no tension spring which provides free motion and does not strain the operator.
- **Front Mounting:** Holes are provided for Table and Mounts the vice with perfect rigidity.

Construction :

- **Body** is made of special high grade Casting to withstand any Shock load.
- **Forged Nut:** The Nut and the screw has been machined from high tensile steel forging. The Tropi Zodial Threads are machined on Thread wherling and has the same degree of Angle which give life long performance.
- **Jaws Hardened & Grong** with "v" Grooves :The grip is much more rigid with less torque at handle lever.

Finish : Enameled smoke grey.

Specifications

Size in inches	3	4	5	6	8
Width of Jaws (in mm)	75	100	125	150	200
Opening of Jaws (in mm)	85	100	130	155	200
Depth of Jaws (in mm)	50	60	70	85	100
Weight (app.in Kgs) 759	3.5	6	9.5	10	15.5
Weight (app.in Kgs) 759S	4.3	7	11	12.5	18.5

APEX Code 744▼

Engineer's Vice
(Size : 4", 5", 6")



Specifications

Size in inches	4	5	6
Width of Jaws (in mm)	100	125	150
Opening of Jaws (in mm)	60	90	125
Depth of Jaws (in mm)	45	70	75
Weight (app.in Kgs)	8.5	16	31



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▼ **APEX Code 718**

Table Vice
(Size : 1", 1.5/8", 2",
2.3/8", 3", 4")



Specifications

Size in inches	1	1.5/8	2	2.3/8	3	4
Width of Jaws (in mm)	25	40	50	60	75	100
Opening of Jaw (in mm)	20	20	30	30	35	35
Weight (app.in Kgs)	0.520	0.570	0.750	0.960	1.250	1.5

▼ **APEX Code 733S**

Table Vice With Clamp
(Swivel Base) (Deluxe Model)
(Size : 1.1/4", 1.5/8", 2",
2.3/8", 3")



Features :

- With integrated clamp which permits easy filing to work on bench or table.

Applaication :

- CRAFTSMAN'S VICES
- Ideal for use by WATCH MAKERS GOLD SMITHS MODEL MAKERS AND DYE ENTHUSIASTS for any light duty jobs.

Construction :

- Manufactured from high quality Grey iron casting, these are machined to close to tolerance resulting in smooth operation and reliability.
- Screw, handle & guide rods of high quality steel in Chrome Plated finish.

Code 733S : With Swivel Base.

Code 718: Wrinkle Black

Code 733 & 733S

Metallic Silver & Silver Grey.

Finish : Wrinkle Black

▼ **APEX Code 733**

Table Vice With Clamp
(Fixed Base) (Deluxe Model)
(Size : 1.1/4", 1.5/8", 2",
2.3/8", 3")



Specifications

Size in inches	1.1/4	1.5/8	2	2.3/8	3
Width of Jaws (in mm)	30	40	50	60	75
Opening of Jaws (in mm)	15	20	25	30	35
Weight (app.in Kgs) 733	0.450	0.670	0.770	1.320	1.900
Weight (app.in Kgs) 733S	0.700	0.900	1.150	1.740	2.980



APEX Code 716 ▼

Table Vice (Fixed Base)

(Size : 1.1/4",
1.5/8", 2",
2.3/8",
3")



Features :

- **Code 716** Hobbyist Vice for application that involve working in confined spaces.
- **Code 716S** With Swivel Base.

Finish : Metallic Silver & Steel Grey.

APEX Code 716S ▼

Table Vice (Swivel Base)

(Size : 1.1/4", 1.5/8",
2", 2.3/8", 3")



Specifications

Size in inches	1.1/4	1.5/8	2	2.3/8	3
Width of Jaws (in mm)	32	40	50	60	75
Opening of Jaws (in mm)	15	17	20	35	40
Weight (app.in Kgs) 716	0.450	0.650	0.800	1.200	2.120
Weight (app.in Kgs) 716S	0.670	0.750	1.100	1.670	2.920

▼ APEX Code 726

Hand Vice Steel

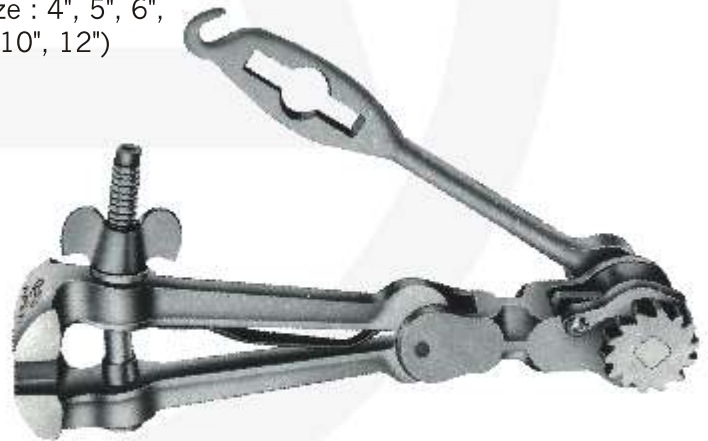
(Size : 3", 4", 5", 6", 8")



▼ APEX Code 727

Draw Vice Steel

(Size : 4", 5", 6",
8", 10", 12")



Features :

- The Vice can either be gripped in one hand or held between the jaws of a larger Vice thus allowing better access to the work peice. The jaws are tightened by means of a large wing nut.

Application :

- These vices are best suited for working on small jobs.

Construction :

- Manufactured from S.G. Ductile Iron.
- The steel main screw is plated which prevents corrosion.

Finish : Metallic silver.

Specifications

Specifications	Code 726					Code 727					
	3	4	5	6	8	4	5	6	8	10	12
Size in inches	3	4	5	6	8	4	5	6	8	10	12
Length Overall (in mm)	75	100	125	150	200	170	220	250	320	385	450
Opening of Jaws (in mm)	15	20	22	25	40	35	40	50	55	70	95
Width of Jaws (in mm)	30	35	40	50	55	35	40	50	55	70	95
Weight (app.in Kgs)	0.180	0.280	0.430	0.530	0.830	1.100	1.470	1.900	2.700	4.900	6.200



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◀ **APEX Code 729**
Chain Pipe Vice
(Size : 2",3",4",6",8")

Features :

- If the main feature of the hinged vice is speed of operation, the feature which distinguishes the chain vice is very powerful grip. The Pipe rests on a "V" formed by the two sets of forged heat treated steel jaws.
- The High tensile steel chain is then looped over the pipe, locked into a slot between the jaws and tensioned by a handle and screw; a strong rigid three-point location which renders the pipe immovable.
- Compact and easy to store away.

Construction :

- Body SG ductile Iron.

Finish :

- Metallic Silver.

Specifications

Pipe Dia Capacity (in inch.)	2	3	4	6	8
Pipe Dia Capacity (in mm)	50	75	100	150	200
Weight (app. in Kgs.)	1.7	2.5	4.1	8.4	10.5

Features :

- Hinged Pipe vice so called because the frame (containing the main screw and top jaw) and the base are hinged together.
- To grip a pipe the frame is hinged back and the pipe loacted on the lower jaw. When the frame is hinged own a locking hook automatically engages onto the side of the base holding the vice firmly shut. Ideal for fast repetitive work.

Construction :

- The replaceable steal jaws are accurately machined, hardened and tempered.
- The handle and main screw is also made of steal while the frame and base is made of strong SG ductile Iron.

Finish :

- Enameled oxford blue.

APEX Code SG731 ▶

Hinged Pipe Vice
(Size : 1.1/2", 2", 2.1/2",
3.1/2", 4.1/2", 6")



Specifications

Pipe Dia Capacity (in inch.)	1.1/2	2	2.1/2	3.1/2	4.1/2	6
Pipe Dia Capacity (in mm)	40	50	60	85	115	150
Weight (app. in Kgs.)	2.7	4.1	5.7	7	11	21



Features :

- Apex Pipe Vices are designed to endure the heaviest pipe work fitted with long jaws, these vices will hold pipes firmly without any crushing or bending.
- The base is provided with three bolt holes to facilitate fastening to bench or post.
- Guaranteed against defect in material or workmanship.

Construction :

- Frame & Jaws are made of shock resisting cast iron.
- Main screw is made of high grade steel.

Finish :

- Enameled oxford blue.

SG 728 : SG Ductile Iron Body

Finish :

- Hammer tone metallic Blue

APEX Code 728 ▶

Pipe Vice (Open Type)
(Size : 1.1/4", 2",3",4",6",8")

APEX Code SG 728

Pipe Vice (Open Type)
(Size : 2", 3", 4")



▼ APEX Code 747

All Steel Pipe Vice
(Square Pillar)
(Size : 1.1/2", 2",3",4",6")

▼ APEX Code 747R ▼

All Steel Pipe Vice
(Round Pillar)
(Size : 1.1/2", 2",3",4")



Specifications

No.	1	2	3	4	6	8
Size in inches	1.1/4	2	3	4	6	8
Pipe Dia Capacity Min (in mm)	3	7	7	10	50	50
Pipe Dia Capacity Max (in mm)	30	50	75	100	150	200
Weight (app. in Kgs.) 728	5	8	14	18	44	92
Weight (app. in Kgs.) SG 728		6.5	11	15		

Features :

- The moveable jaw is running into square steel bars.

Construction :

- All steel body replaceable accurately machined hardened & tempered jaws.

Finish : Yellow

Code 747R

- These vices have all the features of Code 747 except the base is made of high graded cast Iron & moveable jaw is running into round steel bars.

Finish : Enameled oxford blue.

Specifications

Pipe Dia Capacity (in inch.)	1.1/2	2	3	4	6
Pipe Dia Capacity (in mm)	40	50	75	100	150
Weight (app. in Kgs) 747	2	3.6	6	7.2	10
Weight (app. in Kgs) 747R	4.5	5.3	10	20	---



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Features :

- Accurately machined housing assure smooth sliding movement.
- Vice jaws equipped with a "TOE". IN" feature. When fully closed, the jaws meet only at the top to provide even clamping on the whole depth of the work peice.
- Square body seating provides easy fitment under the bench top so that jaws are flush with the bench top.
- Body and sliding jaw have provision for attaching wooden liners to protect the vice, work peice and working tools.

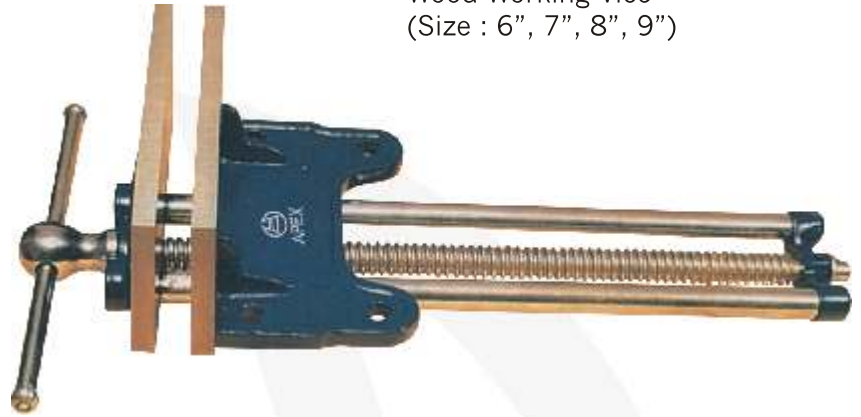
Construction :

- These are manufactured from close-grained grey cast iron for long trouble free service.
- Accurately filled solid steel guide rods reduce wear and tear giving the vices a smooth and true parallel action, free of side or cross deflection.
- The steel main screw has buttress threads for smooth, accurate and responsive adjustment.

Finish : Enameled oxford blue.

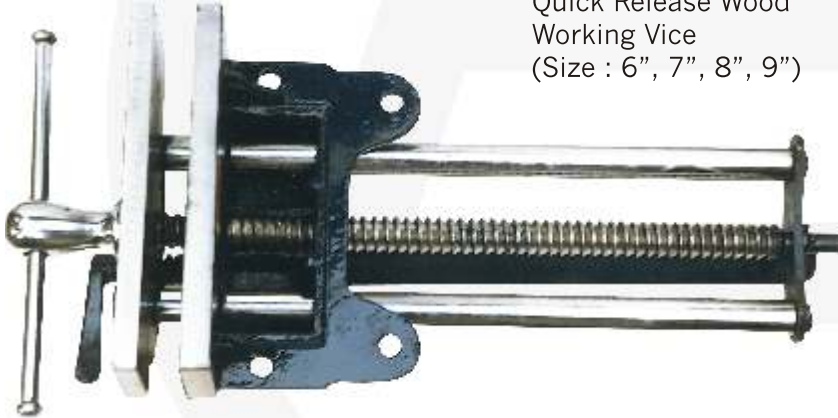
▼ **APEX Code 737**

Wood Working Vice
(Size : 6", 7", 8", 9")



▼ **APEX Code 737QR**

Quick Release Wood Working Vice
(Size : 6", 7", 8", 9")



Features :

- Equipped with the quick release mechanism.
- Squeeze the trigger and a quick release vice can be opened and closed without using the main screw. Large and small work peices can be quickly interchanged, while releasing the trigger returns the machanism to normal for fine adjustment.
- A very useful feature in repetitive work situations.

Finish : Enameled oxford blue.

Features :

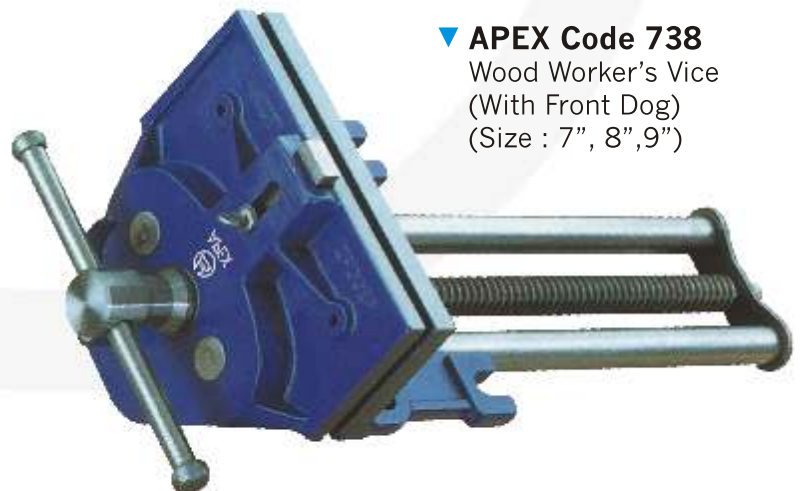
- Vices are equipped with an adjustable front dog which when used in conjunction with a bench stop allows oversize work peices too large to be held between the jaws, to be securely held. This useful addition provides a normal vice and a tail vice in one tool.

Finish :

Hammer tone mid grey.

▼ **APEX Code 738**

Wood Worker's Vice
(With Front Dog)
(Size : 7", 8", 9")



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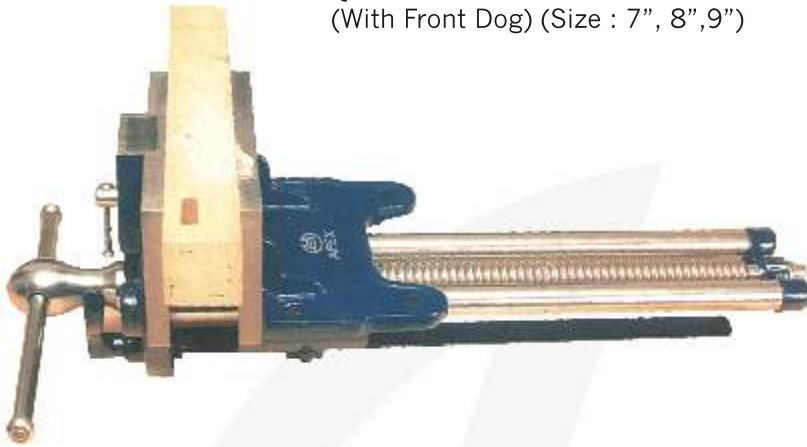
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▼ **APEX Code 738QR**

Quick Release Wood Worker`s Vice
(With Front Dog) (Size : 7", 8",9")



Features : Code 738QR

- Equipped with the quick release mechanism.
- These vices have all the features of the Code 737QR except are equipped with an adjustable front dog.

Finish : Hammer tone mid grey.

Code 758 :

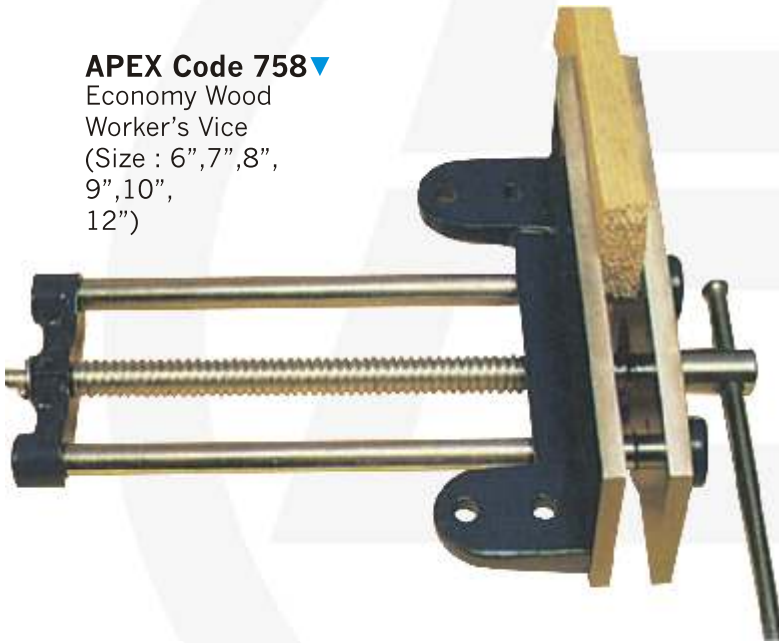
- Range of light weight vices for Handy Man, who needs compact vice for smaller work.

Always : Use vice of proper size & capacity to hold the work object.

Finish : Hammer tone mid grey.

APEX Code 758▼

Economy Wood
Worker`s Vice
(Size : 6",7",8",
9",10",
12")



Specifications for 737, 737QR, 738, 738QR, 758, 758T

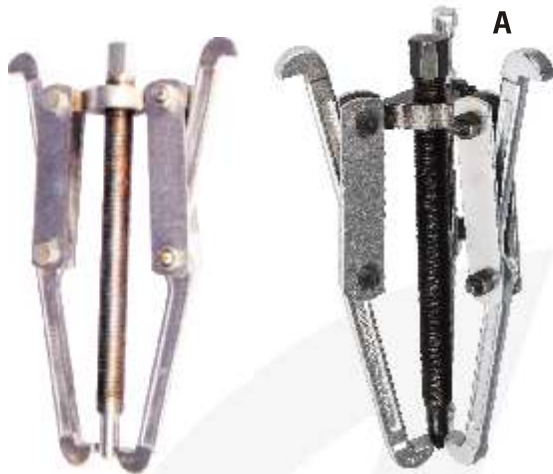
Size in inches	6	7	8	9	10	12
Width of Jaws (in mm)	150	175	200	225	250	300
Opening of Jaws (in mm) 737 & 737QR	180	230	260	330	---	---
Opening of Jaws (in mm) 738 & 738QR	---	230	260	330	----	----
Opening of Jaws (in mm) 758	125	150	175	200	225	275
Weight (app. in Kgs) 737	4.6	8.1	10.5	15.3	--	----
Weight (app. in Kgs) 737QR	5.5	8.7	11.3	15.8	--	-
Weight (app. in Kgs) 738	--	9.8	11.5	17.4	--	-
Weight (app. in Kgs) 738QR	-	10.3	12	17.9	--	-
Weight (app. in Kgs) 758	2.5	3.3	5.4	7.1	8.2	9



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◀ **APEX Code 501**
Bearing Puller
3 Legs Universal Drop
Forged Steel

◀ **APEX Code 501A**
Bearing Puller
2 Legs Universal Drop
Forged Steel

Features :

- Reversible type pullers.
- Drop Forged chrome plated steel.
- Adjustable legs for internal and external pulling of gears and bearing etc.

Finish :

Bright & Auto Black.

Specifications

Size in inches	3	4	6	8	10	12
Weight in Kgs. 501	.490	.775	1.100	1.350	2.400	3.000
Weight in Kgs. 501A	.325	.525	1.000	1.200	2.000	2.500

APEX CODE 502 ▶
G. Clamps Malleable

Features :

- Manufactured from ductile SG iron casting.
- Fine thread screw.
- Suitable for wood working and metal working applications.

Finish :

Burnished Oxford Blue.



Specifications

Size in inches	2	3	4	5	6	8	10	12
Weight in Kgs.	.310	.490	1.000	.825	1.200	1.700	2.700	3.500



◀ **APEX CODE 503**
Drop Forged
G. Clamps

Features :

- Drop forged steel body with ribs for added strength and rigidity.
- Fine thread screw
- These suitable for all industrial applications and construction jobs.

Finish : Auto Black

Specifications

Size in inches	2	3	4	6	8	10	12
Weight in Kgs.	.320	.620	1.000	1.700	2.700	4.000	5.000

APEX CODE 504 ▶
Adj. Tap Wrench
(Auto Black Drop Forged
Carbon Steel Hardened &
Tempered)

Features :

- Manufactured from Drop forged carbon steel hardened & tempered.
- Suitable for hand tapping Operations.

Finish : Auto Black



Specifications

Size in inches	1/4	3/8	1/2	3/4	1"	1 1/4	1 1/2	2
Weight in Kgs.	.125	.135	.310	.600	1.100	1.200	3.500	4.000



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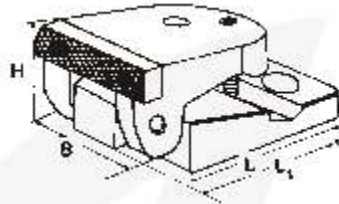
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APEX Code 901 ▼
Lever Clamp



Features :

- Suitable for machining of large object where entire surface is to be kept free from obstruction.
- No limitation of job size because of two piece construction.
- Maximum clamping force with minimum effort.
- Radial serrated Jaw assures firm clamping.
- Used for clamping jobs having uneven & unmachined surface.
- To fix the job rigidly, long base plate with two T-Nuts is used. This avoids reduction of clamping pressure due to slippage.

Application :

- Used on milling, shaping, drilling machines & surface grinders etc.
- Useful to clamp the job having height more than 60 mm.

Construction :

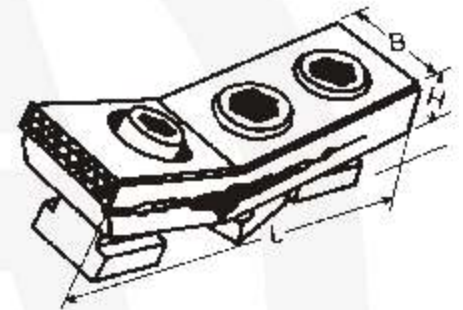
- Main body of S. G. Iron, clamping Jaw & Base plate made of Hardened steel.

Finish : Black oxidized & powder coated.

Specifications in mm

T - Slot Size	L	L1	B	H	Height of Job MM	Pressure max kN		Weight App. Kgs.
12 to 20	100	135	60	65	More than 60	15	7.5	2

▼ **APEX Code 902**
Flat Clamp



Features :

- Positive clamping of flat jobs irrespective of the size.
- Low height & side clamping, leaving the entire top surface free for machining.
- Springs are provided for quick release of clamping force & jaw.
- Spherical washer is used in plate clamp to avoid it from swivelling.
- Useful for clamping the job whose height is one to two mm more than the thickness of plate clamp.
- Due to low height it is suitable for clamping work piece with small contact area e.g. plates, flats.
- Supplied with Screws and T-Nuts of respective sizes

Application :

- For Side holding of thick plates on milling, shaping planing machine etc.

Construction :

- Made of Hardened steel.

Finish : Black Oxidized.

Specifications in mm

Code 902	T- Slot	L	B	H	Allen Key	Approx. Pressure kN		Weight App. Kgs.
902-8	8	85	25	12	5	10	5	0.250
902-10	10	85	25	12	6	10	5	0.250
902-12	12	115	30	15	8	15	7.50	0.500
902-14	14	115	30	15	10	15	7.50	0.500
902-16	16	135	40	20	10	20	10	1.000
902-18	18	135	40	20	10	20	10	1.000
902-20	20	200	50	25	12	30	15	2.250
902-22	22	200	50	25	16	30	15	2.250



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APEX Code 903 ▶

Taper Clamp

Features :

- Low height side clamps which leave the entire surface free for machining.
- Improved design of the clamping jaw applies wedge type action thereby exerting equal side & downward pressure with maximum clamping force. The compound movement of the two jaws creates the drawing action.
- More than one pair employed to hold longer / wider work piece.
- Effective & rigid clamping of flat job is done irrespective of the size of job.
- Supplied with screws and T-Nuts of respective sizes.

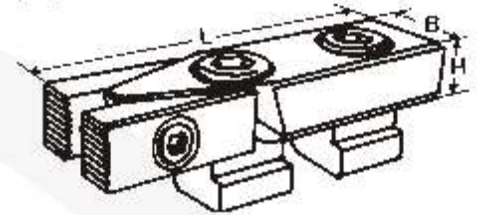
Application :

- Used on milling, planing & where high clamping force is required.

Construction :

- Made of Hardened steel.

Finish : Black Oxidized.

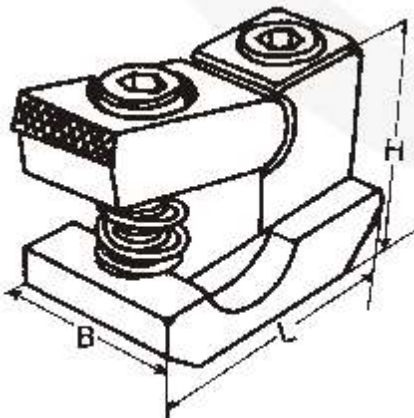


Specifications in mm

Code 903	T- Slot	L	B	H	Allen Key	Approx. Pressure kN		Weight App. Kgs.
903-8	8	75	25	12	5	10	5	0.250
903-10	10	75	25	12	6	10	5	0.280
903-12	12	110	30	15	8	15	7.50	0.500
903-14	14	110	30	15	10	15	7.50	0.500
903-16	16	115	40	20	10	20	10	1.000
903-18	18	115	40	20	10	20	10	1.000
903-20	20	160	50	25	12	30	15	1.750
903-22	22	160	50	25	16	30	15	1.750

APEX Code 904 ▼

Slot Clamp



Features :

- Useful to hold the thin plates from 5 to 9 mm thickness & clamp positively due to its very low height.
- Major part of clamp body occupied inside T- Slot to achieve low height advantage.
- Enables complete surface to be machined in one setting.
- Main body is made of brass to save the machine bed from rusting & clamping jaw is made of heat treated alloy steel for strength & durability.
- Suitable for jobs which require low to medium clamping force.
- Supplied with screws of respective sizes.

Application :

- Used on milling, planing & where high clamping force is required.

Construction :

- Body made of brass, clamping jaw made of hardened steel.

Finish : Black Oxidized.

Specifications in mm

Code 904	T- Slot	L	B	H	Allen Key	Approx. Pressure kN Kgs.		Weight App.
904-12	12	40	20	25	5	6	3.00	0.100
904-14	14	43	23	28	5	7	3.50	0.125
904-16	16	47	23	28	6	8	4.00	0.175
904-18	18	50	29	35	6	10	5.00	0.225



Features :

- Stepless clamp Easy to use for fast coverage of several ranges of work height without additional supports. Low space requirement on machine table.
- Swiveling half piece assures perfect clamping.
- Heavy duty design and specially suitable for clamping of press and punching tools.
- Supplied with clamping pad, T-Bolt, Washer & Hex Nut.

Application :

- Used where limited machine table space is available & milling, shaping, planing machine.

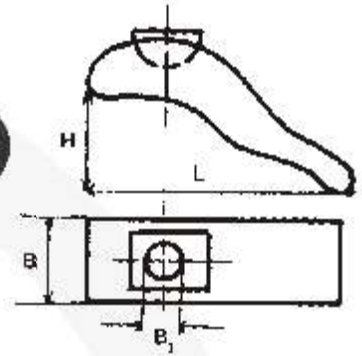
Construction :

- Main body of S.G. Iron T Bolts & Hex Nut made of Toughened C 45.

Finish : Yellow passivated & powder coated.



◀ **APEX Code 905**
Stepless Height Adjustable Clamp



Specifications in mm

Code 905	B ₁	Clamping Height H	B	L	Weight App. Kgs.
905-1212	17	0-50	50	138	1.500
905-1412	17	0-50	50	138	1.500
905-1616	17	0-65	50	138	1.500
905A-1616	21	0-75	60	175	2.740
905-1816	17	0-65	50	138	1.500
905A-1816	21	0-75	60	175	2.740
905-2020	21	0-85	60	175	3.000
905-2220	21	0-95	60	175	3.000

▼ **APEX Code 907**
Low Height Clamp



Features :

- Rapid clamping & unclamping of work piece by quick action of the eccentric lever.
- Downward & forward action of the jaw ensures the positive clamping of the workpiece.
- Possible to do machining operation in one setting over the whole area of the work piece without moving the clamp
- Supplied with one Screw & One T-Nut of choice suitable for 12,14,16,18 mm T-Slot (User to indicate the size)

Application :

- Used in the construction of fixtures as standard, fast clamping & unclamping element to simplify the clamping system.
- Used on drilling, milling , cutting machines.

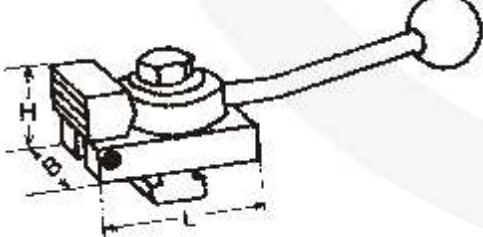
Construction :

- Made of hardened steel.

Finish : Black Oxidized.

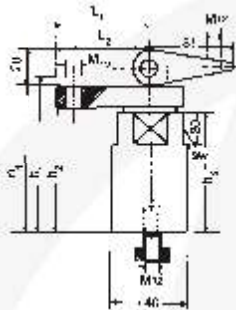
Specifications in mm

Jaw of movement MM	L	B	H	T-slot	Pressure max kN	Weight App.. Kgs.
4	62	48	38	12 to 18	7	0.900





▼ **APEX Code 906**
Down Thrust Clamp



◀ **APEX Code 906E**
Cylinder

Specifications Code 906E (Separate Cylinder)

Code	Size	H	D	Spanner Required	Weight App. Kgs.
906E					
906E - 35	35	35	40	36 A/F	0.250
906E - 70	70	70	40	36 A/F	0.500

Features :

- Occupies very little space due to its compact construction.
- Rapid clamping & unclamping by hand with positive down thrust by means of threaded spindle & eccentric lever.
- Clamping height can be steplessly adjusted & increased simply by using height adjustment cylinders.
- Spring is provided for quick release of clamping pad.
- Eccentric lever gives clamping stroke of 1.5 mm to clamping pad which results downward thrust of 10 KN.
- Easy and quick clamping of work piece by swivelling away the clamping pad.
- Useful for mass production where clamping / declamping is to be done within a fraction of second.
- **Code 906 E:** Height adjustable cylinder for increasing the clamping height is available.

Application :

- Due to fast clamping & unclamping with positive down ward force it is widely used on machine tool pallets, NC machines etc. with or without T-nut. Used as standard clamping element in the construction of fixtures.
- Any T slotted table or with hole having M 12 threading on any machine

Construction :

- Made of hardened steel.

Finish : Black Oxidized.

Specifications in mm

Code 906	Size in mm	T-Slot	Job Height which could be clamped		h2	h3	l1	l2	Dia of Cylinder
			Min h1	Max h4					
906-105	105	14 to 18	70	105	72	93-128	55	43	40
906-135	135	14 to 18	100	135	98	123-158	55	43	40

Code 906	Maxi Ht. Of clamp	Pressure kN	Spanner required	Weight App. Kgs.
906-105	140	10	36 A/F	1.400
906-135	170	10	36 A/F	1.700

Features :

- With the aid of support lugs / self aligning pads even small height jobs can be clamped.
- Full 360° range rotation facilitates loading and unloading of work piece.

Application :

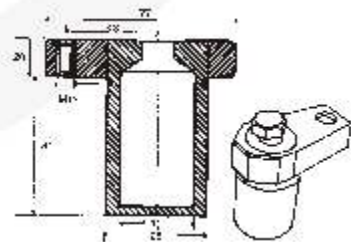
- Used for jigs and Fixtures.
- Used for clamping of jobs from top where side clamping is likely to deform the component.
- Can mount in the fixture plates.

Construction :

- Heat Treated steel

Finish : Precision ground, black Oxidized.

▼ **APEX Code 908**
Low Down Thrust Clamp



Specifications

Code 908	Size	11	12	H	d1	d2	T	M
908	50	43	77	31	19	28	20	M12

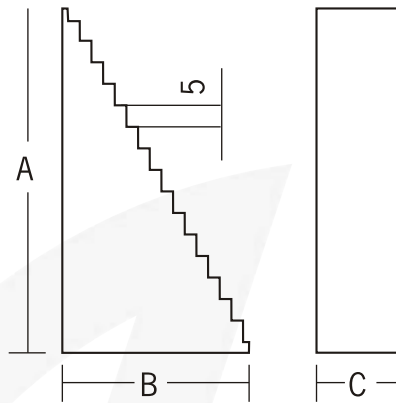


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▼ **APEX Code 909**
Step Blocks Universal



Features :

- Used to obtain required supporting heights.
- Any combination keep the accurate parallelism.
- Positive locking.

Application :

- Used as supporting block on any machine.

Construction :

- Hardened and tempered steel R=80/90 kg/mm²

Finish :

Black Oxidized/Powder Coated.

Code 909S : Step block set (16 pcs) in metallic steel box

APEX Code 909S ▶
Step Block Set



Specifications in mm

Code 909	A	B	C	Fixing height	
				Max.	Min.
909-1	33	24	30	51	22
909-2	66	40	30	107	39
909-3	131	73	30	208	71

Code 909S Contents of Set

909-1 (4 Prs.), 909-2 (2 Prs.), 909-3 (2 Prs.) Total 16 Pcs.

APEX Code 910 ▶
Height plates Adjustable

Features :

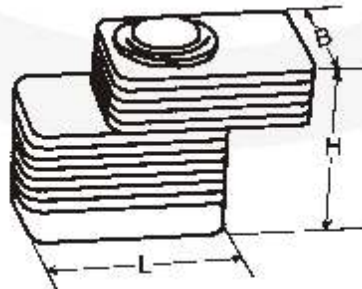
- Extra height could be achieved by stacking the blocks.
- Supporting height is achieved instantaneously with quick adjustment of plates.
- May be used with or without exact height setter.

Application :

- Used on machines as supporting height block or spacers.

Construction : Carbon Steel

Finish : Black Penetrated.



Specifications

Code	Plate thickness	H	B	L	Weight App. Kgs.
910-225	2	25	35	50	0.350
910-250	2	50	35	50	0.650
910-275	2	75	35	50	1.000
910-2100	2	100	35	50	1.300
910-2125	2	125	35	50	1.600
910-2150	2	150	35	50	1.900
910-425	4	25	50	60	0.600
910-450	4	50	50	60	1.100
910-475	4	75	50	60	1.600
910-4100	4	100	50	60	2.100
910-4125	4	125	50	60	2.600
910-4150	4	150	50	60	3.100
910-4200	4	200	50	60	3.600



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◀ **APEX Code 912**

Steel Parallels
As Per IS 4241:1990

Features :

- Ground in matched pairs for equal height support
- Matched pairs are marked with identical serial numbers.
- All sides are chamfered.

Application :

- Used as precision packing supports under jobs or fixtures.

Construction :

Suitable alloy steel, hardened & tempered to 55-60 HRC.

Finish : Ground

Specifications in mm

Code	Size (mm)	Parallelism
912-1	5 x 10 x 100	0.010
912-2	10 x 20 x 125	0.010
912-3	15 x 30 x 150	0.010
912-4	20 x 40 x 200	0.010
912-5	25 x 50 x 250	0.012
912-6	30 x 60 x 300	0.012
912-7	40 x 80 x 350	0.020
912-8	50 x 100 x 400	0.020

Features :

- Useful for clamping the job from top or bottom.
- The ball swivels and provides contact with no damage to uneven surface.

Application :

- Used as stops, supports & thrust elements in jigs & fixtures. They can also be fitted to existing clamping elements.

Construction :

Body Steel Heat Treated - Ball Hardened.

Finish : Black Oxidized

APEX Code 913 ▶

Self Aligning Pad (With Ribbed ball)

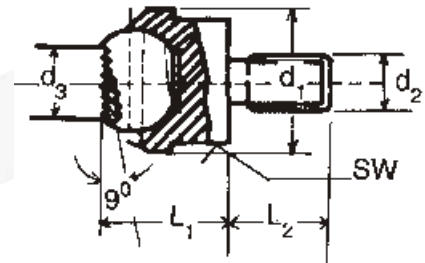
APEX Code 913P ▼

Self Aligning Pad (With plain ball)



Specifications in mm

With Male Thread C, F										
Code 913 Ribbed	Code Plain 913P	d1	d2	d3	L1	L2	Ball	A/F SW	Max. Load Cap. kN (For static load only)	Weight app. Kgs.
913-1	913P-1	13	M8	7.2	13	8	10	11	10	0.013
913-2	913P-2	20	M10	10.5	18	10	16	17	25	0.040
913-3	913P-3	20	M12	10.5	18	12	16	17	25	0.040
913-4	913P-4	30	M16	20	27	16	25	27	90	0.100
913-5	913P-5	50	M20	34.5	35	20	40	11	165	0.550

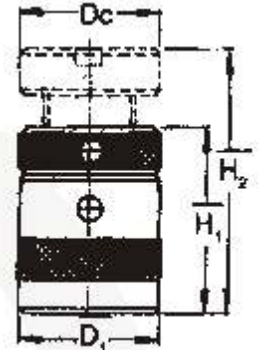




APEX Code 911 ▶

Screw Jack Having Steel Body and Flat Support

- Centering hole dia 12 mm provided for pads.
- Spindle: Trapezoidal Thread
- Material: Carbon Steel Heat Treated blackened.
- Self locking with end stop body.
- All types of pads can be used for numerous adaptations. Coupling pad P-6 useful to pile up height of screw jack Code 911-2 and 911-3.



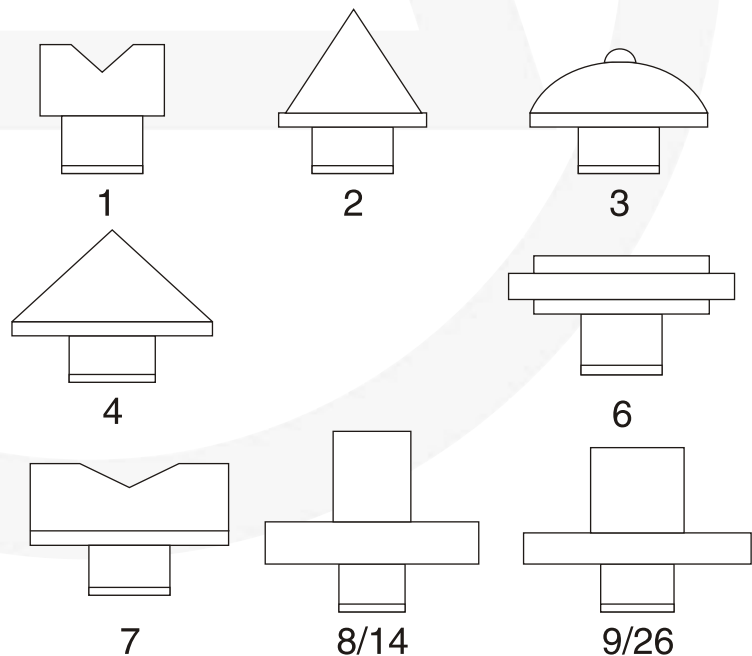
Specifications in mm

Code	Range H1 H2	Base Dia - D1	Cap Dia DC	Static Load Max - Kn	Wt. Kg.
911-1	40-50	32	32	12	0.230
911-2	50-70	50	50	60	0.600
911-3	70-100	50	50	60	0.800
911-4	100-140	70	65	100	2.500
911-5	140-210	80	70	165	4.560
911-6	190-300	98	80	350	9.100

▼ **APEX Code P911**

Pads For Screw Jacks

- Locating pin size of pads : 12 mm dia.
- Designed for wide range of application.
- Material : Medium carbon steel, heat treated to 25-30 HRC hardness, blackened.



Code
P911-1
P911-2
P911-3
P911-4
P911-6
P911-7
P911-8/14
P911-9/26



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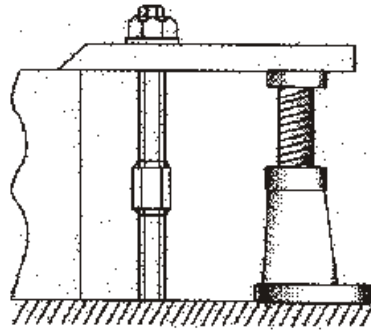
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APEX Code SF911 ▶

Screw Jack Having Single Side Flange (and Ring Lock Nut) (S.G. Iron Housing Carbon Steel Spindle)

- Centering hole dia, 12 mm.
- Bottom Flange can be bolted to the T-Slot for stability.
- Spindle: Carbon Steel Trapezoidal Thread
- Housing: High Tensile SG IRON.
- Pads Code P911-8/14 and 9/26 can be used for safe locating of U-Clamps.

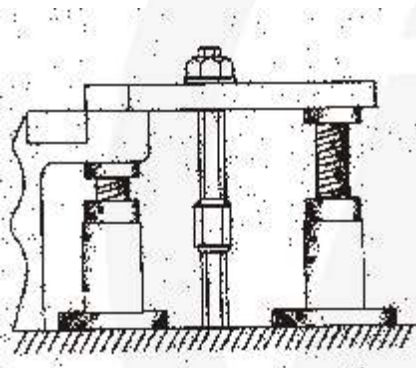


Specifications in mm

Code	Range		Barrel Dia	Slot Width	Base	Static Load-kN	Wt. Kg.
	H1	H2					
SF911-1	100-140		50	18	75x110	60	1.870
SF911-2	140-200		50	18	75x110	60	2.230

APEX Code HD911 ▼

Heavy Duty Screw Jack (Having Brass Locking Screw)



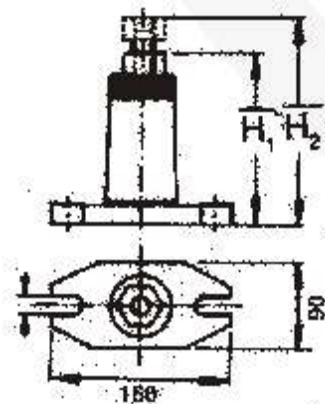
- Centering hole dia 12 mm
- Designed to be used for Heavy production shop.
- Useful completion for large clamping heights.
- Spindle: Carbon Steel Trapezoidal Thread
- Housing: High Tensile SG Iron.
- Pads Code P911-8/14 and 9/26 can be used for safe locating of U- Clamps.

Specifications in mm

Code	Range		Barrel Dia	Slot Width	Base	Static Load-kN	Wt. Kg.
	H1	H2					
HD911-1	200-300		70	26	190x220	80	9.500
HD911-2	280-460		70	26	190x220	60	10.750
HD911-3	430-750		70	26	190x220	50	14.950
HD911-4	320-450		90	26	190x220	80	15.950
HD911-5	410-720		90	26	190x220	60	19.200

APEX Code DS911 ▼

Screw Jack Having Double Side Flange



- Centering hole dia 12 mm.
- More base area provided to compensate for height.
- Spindle: Carbon Steel Trapezoidal Thread
- Housing: High Tensile SG IRON.
- Pads Code P911-8/14 and 9/26 can be used for safe locating of U- Clamps.

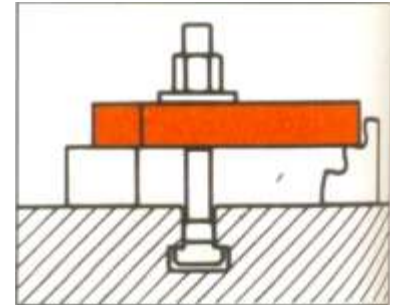
Specifications in mm

Code	Range		Barrel Dia	Slot Width	Base	Static Load-kN	Wt. Kg.
	H1	H2					
DS911-1	200-320		50	22	90x160	40	4.000
DS911-2	320-550		50	22	90x160	25	5.450



APEX Code 914T ▶

Strap Clamp as per IS 4292-1984
(In accordance with the
DIN 6314 Standard)



Applications :

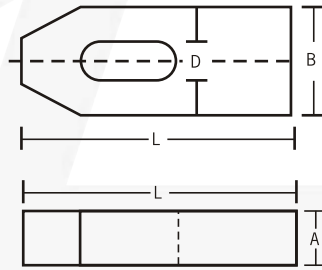
- Widely used on most of machines for clamping work pieces of various sizes
- As illustrated

Construction :

- Hardened and tempered steel R=80/90 kg/mm²

Finish :

Black Oxidized/Powder Coated.

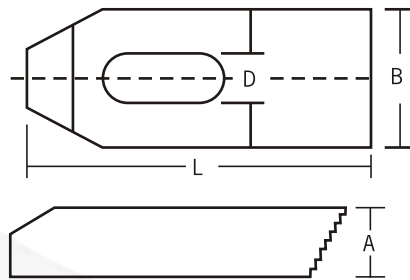
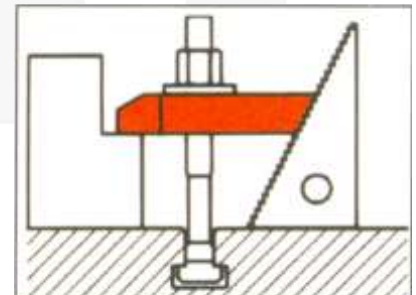


Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
914T-1	9x 60	12	25	M8
914T-2	11x 80	15	30	M10
914T-3	14 x 100	20	40	M12
914T-4	14 x 125	20	40	M12
914T-5	18 x 125	25	50	M16
914T-6	18 x 160	25	50	M16
914T-7	22 x 160	30	60	M20
914T-8	22 x 200	30	60	M20
914T-11	26 x 200	35	70	M24
914T-12	26 x 250	40	70	M24

APEX Code 915 ▶

Stepped Strap Clamp



Construction :

- Hardened and tempered steel R=80/90 kg/mm²
- Longer versions are used for large clamping distances due to large T-slot distance or enlarged work depth, i.e. on engraving Machines.

Finish :

Black Oxidized/Powder Coated.

Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
915-1	11x 80	15	30	M10
915-2	14 x 100	20	40	M12
915-3	14 x 125	20	40	M12
915-4	18 x 125	25	50	M16
915-5	18 x 160	25	50	M16
915-6	22 x 160	30	60	M20
915-7	22 x 200	30	60	M20
915-8	26 x 200	30	70	M24



APEX Code 916 ▶
Open-End Strap Clamp
(As Per IS 4293-1984)
(In accordance with the
DIN 6315B Standard)



Features :

- Widely used for repetitive clamping applications frequent insertion and removal of part being clamped.
- Holding of press-tool and huge castings / dies while machining
- As illustrated.

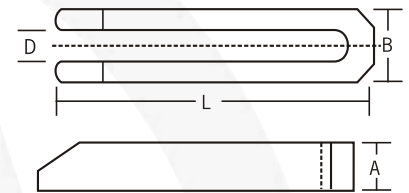
Construction :

- Hardened and tempered steel
R=80/90 kg/mm² .

Finish : Black Penetrated.

Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
916-1	11x 100	20	31	M10
916-2	14 x 125	25	38	M12
916-3	14 x 160	25	38	M12
916-4	14 x 200	25	38	M12
916-5	18 x 160	30	48	M16
916-6	18 x 200	30	48	M16
916-7	18 x 250	30	48	M16
916-8	22 x 200	40	62	M20
916-9	22 x 250	40	62	M20
916-10	22 x 315	40	62	M20
916-11	26 x 200	40	66	M24
916-12	26 x 250	40	66	M24
916-13	26 x 315	40	66	M24



Application :

- Suitable to use as an off set clamp on most of the machines
- As illustrated.
- Holding of press-tool and huge castings / dies while machining

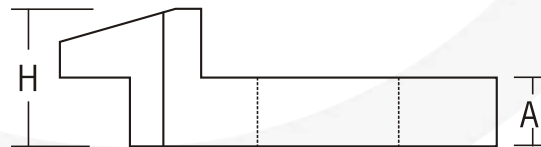
Construction :

- Hardened and tempered steel
R=80/90 kg/mm² .

Finish :

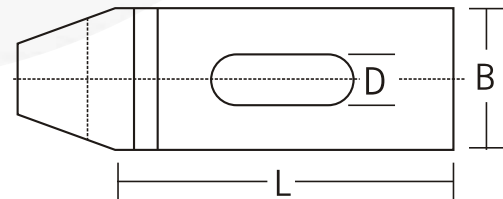
Black Oxidized/Powder Coated.

APEX Code 917 ▶
Goose Neck Clamp
(As Per IS 4279-1975)



Specifications in mm

Code	D x L	A	B	H	Suitable for Screw Size
917-1	11 x 100	15	30	30	M10
917-2	14 x 125	20	40	40	M12
917-3	18 x 160	25	50	50	M16
917-4	22 x 200	30	60	60	M20
917-5	26 x 250	35	70	80	M24

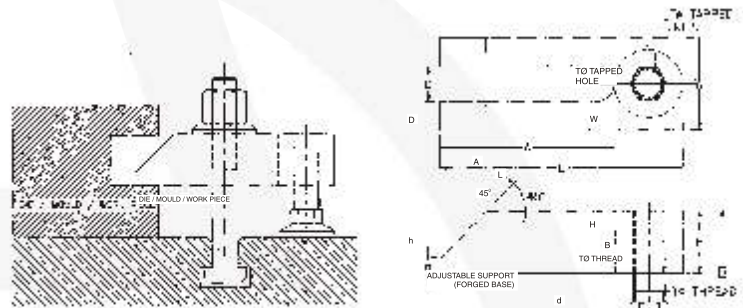
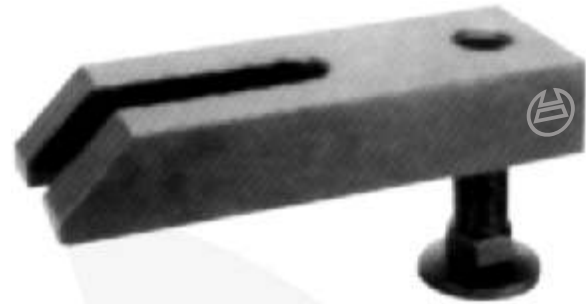




APEX Code 935 ▶

Open End Mould Clamp
With Adjustable Support
(For Plastic Injection Moulding &
Pressure Die Casting Machines)

- Open end mould clamp straps having threaded adjustable support at the rear which can be adjusted to required height.
- Most useful where mould/die is clamped in vertical position.
- Convenient to the operator as other loose supports tend to fall down while setting.
- Large diameter forged base gives rigid clamping support and ensures machine bed safety.



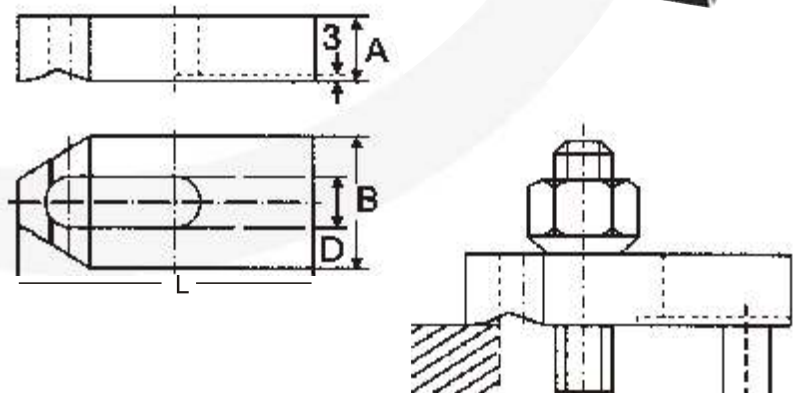
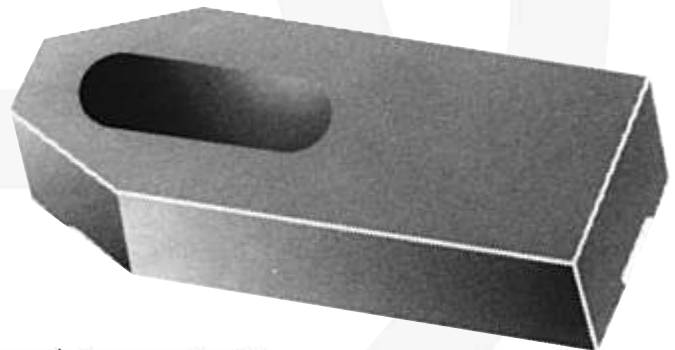
Specifications in mm

Code	Suitable For Bolt	L	A	W	H	H	TØ Tapped Hole	DØ	B
935-1	M-12	110	80	38	25	6	M-12	30	60
935-2	M-16	125	90	48	32	8	M-16	35	70
935-3	M-20	160	100	60	38	10	M-20	40	80
935-4	M-24	200	110	73	38	10	M-24	50	85

APEX Code 936 ▶

Slotted Clamp
(As per IS:6082-1985)

- Material: Carbon Steel, hardened & tempered to 24-32 HRC hardness, chemically blackened.
- Application: Suitable as clamping element in work holding fixture.



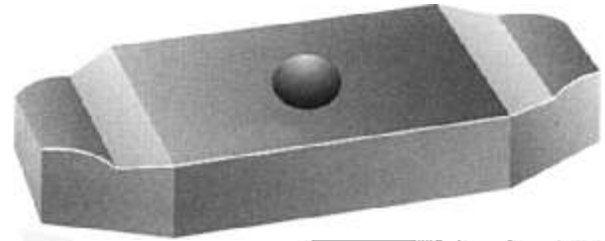
Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
936-1	11x75	16	30	M10
936-2	11x95	16	30	M10
936-3	14x100	20	40	M12
936-4	14x115	20	40	M12
936-5	18x120	25	50	M16
936-6	18x135	25	50	M16
936-7	22x140	30	60	M20
936-8	22x150	30	60	M20
936-9	26x200	35	70	M24
936-10	26x240	35	70	M24



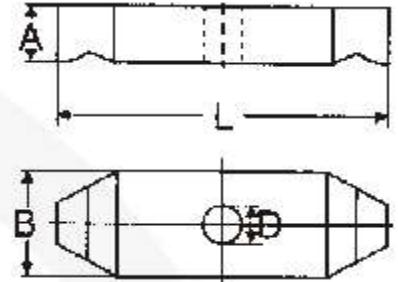
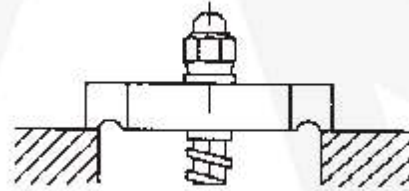
APEX Code 937 ▶
Double Ended Clamp
(As per IS:6080-1985)

- Material: Carbon Steel, hardened & tempered to 24-32 HRC hardness, chemically blackened.
- Application: For working holding on machine beds.



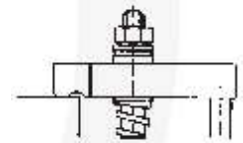
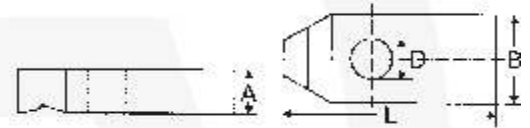
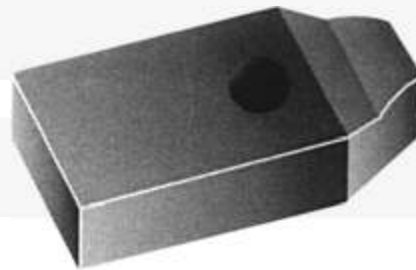
Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
937-1	11x60	16	30	M10
937-2	11x85	16	30	M10
937-3	14x100	20	40	M12
937-4	14x125	20	40	M12
937-5	18x125	25	50	M16
937-6	18x150	25	50	M16
937-7	22x150	30	60	M20
937-8	22x200	30	60	M20



APEX Code 938 ▶
Plain Clamp
(As Per IS:6081-1971)

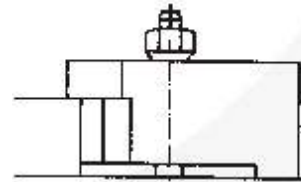
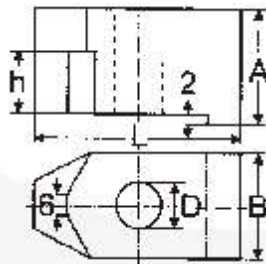
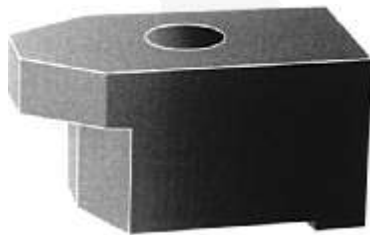
- Material: Carbon Steel, hardened & tempered to 24-32 HRC hardness, chemically blackened.
- Application: Working holding on machine beds.



Specifications in mm

Code	D x L	A	B	Suitable for Screw Size
938-1	11x70	16	30	M10
938-2	14x80	20	40	M12
938-3	18x100	25	50	M16
938-4	22x120	30	60	M20
938-5	26x150	35	70	M24

APEX Code 939 ▼
Table Clamp
(As per IS:5251-1984)



Specifications in mm

Code	DxL	L	B	H	Suitable For Screw Size
939-1	11x23	50	25	13	M10
939-2	11x30	50	25	20	M10
939-3	14x26	60	30	13	M12
939-4	14x33	60	30	20	M12
939-5	18x35	75	40	20	M16
939-6	18x40	75	40	25	M16
939-7	22x40	90	45	20	M20
939-8	22x45	90	45	25	M20

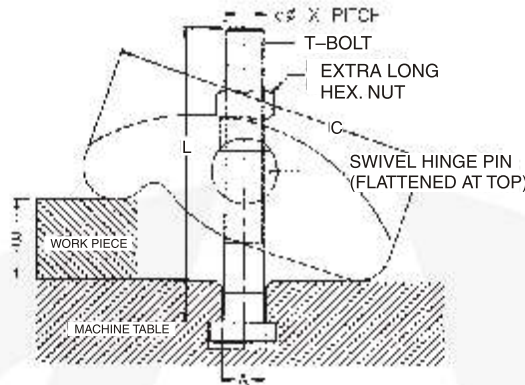
- Material: Carbon Steel, hardened & tempered to 24-32 HRC hardness, chemically blackened.
- Application: For tool plate holding and as holding element in jigs & fixtures.



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◀ APEX Code 933

Universal Strap Clamp
(with T-bolt & Special Nut)
(For Power Presses, Milling, Drilling, Shaping, Boring Machines Etc.)

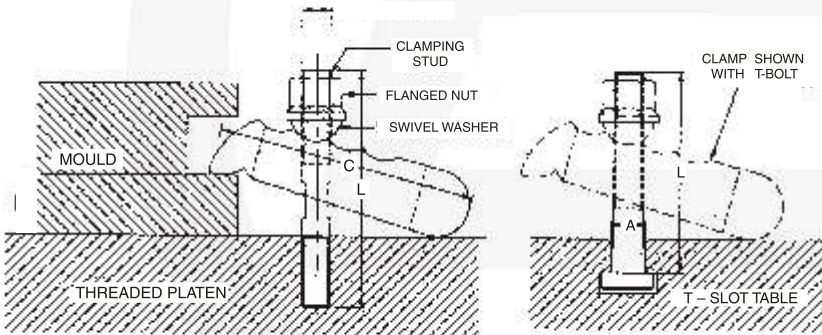
- Useful for job clamping on 'T' slot table of Drilling, Milling, Shaping, Boring and Power Press etc.
- No support is required at the rear of the clamp. Since the body of the clamp is self-positioning.
- The body positions itself with the help of swivel hinge according to the thickness of the workpiece.

Specifications in mm

Code	T-slot Size	T-bolt Size	Clamping Range	Clamp Size
933-1	12	M12x100	0-60	105x42
933-2	14	M12x100	0-60	105x42
933-3	16	M16x160	0-80	130x50
933-4	18	M16x160	0-80	130x50
933-5	20	M20x160	0-100	160x55
933-6	22	M20x160	0-100	160x55
933-7	24	M24x250	0-120	190x65
933-8	28	M24x250	0-120	190x65

APEX Code 934 ▼

Mould Clamp
(For Plastic Injection Moulding & Pressure Die Casting Machines.)



- Specially designed for low height applications, such as clamping of moulds on plastic injection moulding machines & pressure die casting machines.
- The compact front portion of the clamp enables it to penetrate in the limited area of the mould and clamp it.
- No support is required at the rear of the clamp as the rear portion rests on the platen and front holds the mould.

- Flanged nut is tightened on the swivel washer which takes care of the positioning of the clamp body.
- The positioning of forged swivel washer on required curved groove enables the operator to set the centre distance between the clamping portion and the clamping bolt as per the nearest tapped hole available on platen (where there are no T-slots).

With T-bolt & Flanged Nut

Code	T-slot Size	T-bolt Size	Clamping Range	Clamp Size
934-5	12	M12x100	0-35	110x50
934-6	14	M12x100	0-35	110x50
934-7	16	M16x160	0-40	135x60
934-8	18	M16x160	0-40	135x60
934-9	20	M20x160	0-50	160x70
934-10	22	M20x160	0-50	160x70
934-11	24	M24x250	0-60	180x80
934-12	28	M24x250	0-60	180x80

With Clamping Stud & Flanged Nut

Code	Stud Size	Clamping Range	Clamp Size
934-1	12x100	0-35	110x50
934-2	16x125	0-40	135x60
934-3	20x175	0-50	160x70
934-4	24x200	0-60	180x80



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APEX Code 920 ▶

Hex Nut

(In accordance with the
DIN 6330B)

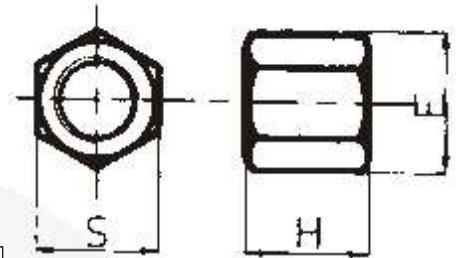
Application :

- Widely used on most of shop-floor machines, jig-fixtures, hydraulic equipments etc.
- Additional thickness covers more thread length effecting better clamping, flat end used with plain washer, spherical end used along with conical seal washer.

Construction :

- Hardened and tempered steel
R=80/90 kg/mm² Class 8.8 (8G).

Finish : Burnished.



Specifications in mm

Code	Screw Thread	S	E	H
920-1	M8	13	15.0	12
920-2	M10	17	19.6	15
920-3	M12	19	20.9	18
920-4	M16	24	27.7	24
920-5	M20	30	34.6	30
920-6	M24	36	41.6	36
920-7	M30	46	53.1	45

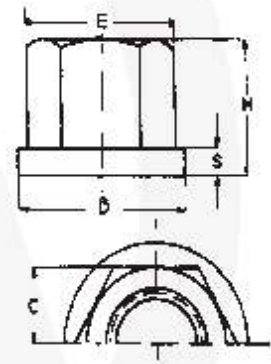
APEX Code 921 ▶

Flanged Nut

(As Per IS:7795-1975)

Specifications in mm

Code	Screw Thread	C	H	S	D	E
921-1	M8	13	12	3.5	18	15.0
921-2	M10	17	15	4	22	19.6
921-3	M12	19	18	4	25	21.9
921-4	M16	24	24	5	31	27.7
921-5	M20	30	30	6	37	34.6
921-6	M24	36	36	6	45	41.6



Construction :

- Hardened and tempered steel Class 8.8 (8G)
R=80/90 kg/mm²

Finish : Burnished

APEX Code 922 ▶

Coupling Nut

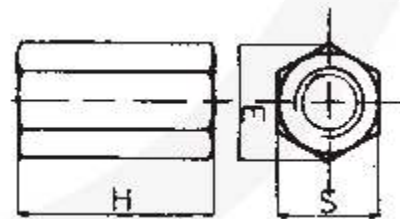
Application :

- To couple the studs for the purpose of increasing the length.

Construction :

- Hardened and tempered steel
Class 8.8 (8G) R=80/90 kg/mm²

Finish : Burnished.



Specifications in mm

Code	Screw Thread	S	E	H
922-1	M10	17	19.6	30
922-2	M12	19	21.9	36
922-3	M16	24	27.7	48
922-4	M20	30	34.6	60
922-5	M24	36	41.6	72
922-6	M30	46	53.1	90



APEX Code 923 ▶

T-Slot Nut (As Per IS 2015-1977)
(In accordance with
DIN 508 Standard)

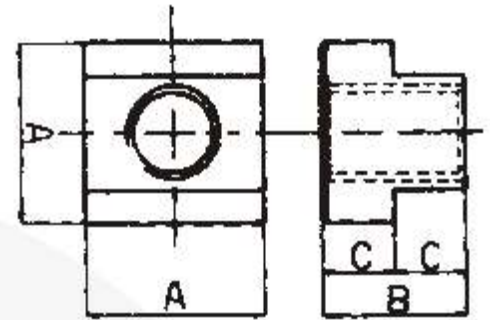
Application :

- For use along with studs for work holding fixtures etc.
- Useful of the machines having 'T' Slots, jig fixtures, hydraulic elements, assorted setting elements and adopters.

Construction :

- Hardened and tempered steel Class 8.8 (8G)
R=80/90 kg/mm².

Finish : Burnished.



Specifications in mm

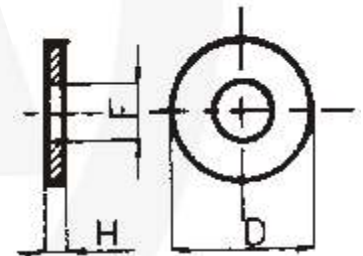
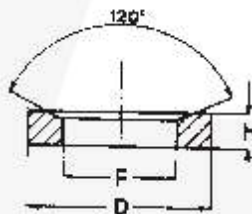
Code	Screw Thread	x slot	A	B	C
923-0	M6	8	13	10	6
923-1	M8	10	15	12	6
923-2	M10	12	18	14	7
923-3	M12	14	22	16	8
923-3A	M12	16	25	18	9
923-3B	M12	18	28	20	10
923-5	M16	18	28	20	10
923-5A	M16	20	32	24	12
923-5B	M16	22	35	28	14
923-7	M20	22	35	28	14
923-7A	M20	28	44	36	18
923-9	M24	28	44	36	18

APEX Code 926 ▼

Spherical Washer with
Conical Seat (As Per IS 4297-1996)

APEX Code 925 ▼

Plain Washer
(In Accordance
with DIN 6340)



Application :

- It acts as a ball and socket in clamping system to correct minor misalignment of parts being clamped.

Construction :

- Hardened and tempered steel R=80/90 kg/mm² Class 8.8 (8G) .

Finish : Burnished.

Application :

- Widely used in most of the clamping system

Construction :

- Hardened and tempered steel R=80/90 kg/mm² .

Finish : Burnished.

Specifications in mm

Code	Size	F	D	H
926-1	M8	8.4	17	3.5
926-2	M10	10.5	21	4.2
926-3	M12	13	24	5.0
926-4	M16	17	30	6.2
926-5	M20	21	36	7.5
926-6	M24	25	44	9.5
926-7	M30	31	56	12

Specifications in mm

Code	For Screw	F	D	H
925-1	M8	8.4	23	4
925-2	M10	10.5	28	4
925-3	M12	13	35	5
925-4	M16	17	45	6
925-5	M20	21	50	6
925-6	M24	25	60	8
925-7	M30	31	68	10



APEX Code 928 ▶

C-Washer

As Per IS:4291:1996

Features :

- Knurled outside Diameter for easy Gripping while insertion or removal.

Application :

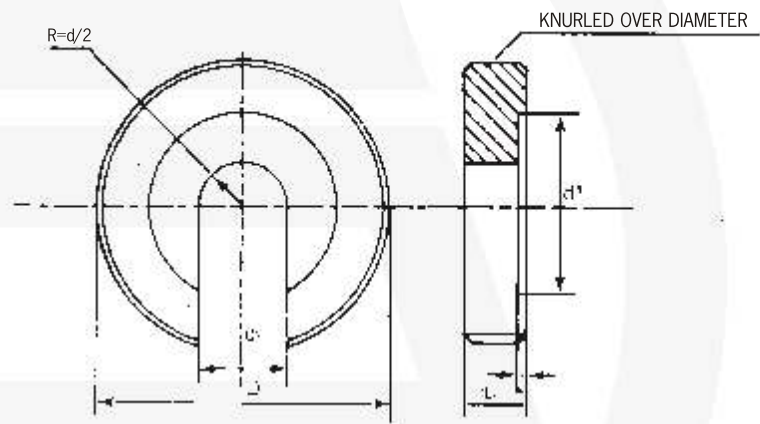
- In the construction of fixtures having special application as spacer or clamping element because it could be swung out of the way and the part can be inserted or removed quickly.

- As illustrated.

Construction :

- Steel Heat treated to 40 to 45 HRC.

Finish : Black Oxidized



Specifications in mm

Code	For Bolt of	D	d	d1	t	l
928						
928-1	M8	28	8.4	21	7	1
928-2	M10	34	10.5	25	8	1.2
928-3	M12	40	13	30	9	1.8
928-4	M16	56	17	37	12	1.8
928-5	M20	64	21	45	14	2
928-6	M24	75	25	52	16	2
928-7	M30	90	31	61	18	2



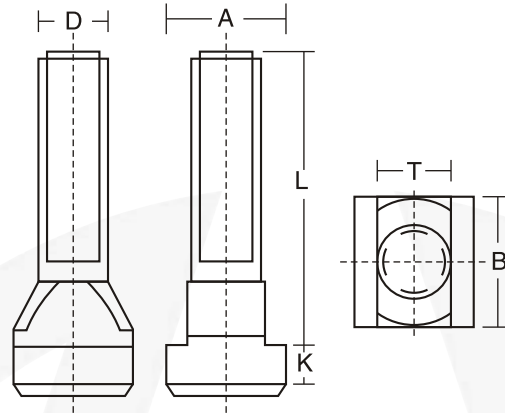
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APEX Code 929 ▼

T-Bolts
(As Per IS:2014-1977)



Application :

- Suitable as clamping element on T-slotted heads.

Construction :

- R=80/90 kg/mm² Highly resistant steel. Class 8.8 (8G)

Finish : Burnished

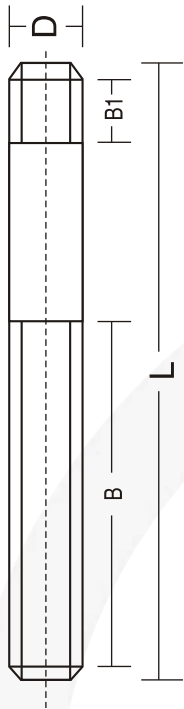
Specifications in mm

Code	T. Size x Thread	Length mm	K	A x B	Code	T. Size x Thread	Length mm	K	A x B		
					929-32		80				
					929-33		100				
929-5	10MM x M10	40	6	15x15	929-34	18MM x M16	125	10	28x28		
929-5A		50			929-35		160				
929-6		65			929-36		200				
929-7		80			929-37		250				
929-8		100			929-37A		320				
929-9		12MM x M12			50		7			18x18	929-38
929-10	65		929-39	100							
929-11	80		929-40	125							
929-12	100		929-41	160							
929-13	125		929-42	200							
929-14	160		929-43	250							
929-15	200		929-43A	320							
929-15a	250		929-44	80	14	35x35					
929-16	50		929-45	100							
929-17	65		929-46	125							
929-18	80	929-47	160								
929-19	100	929-48	200								
929-20	125	929-49	250								
929-21	160	929-50	320								
929-22	200	929-51	100	16			40x40				
929-23	250	929-52	125								
929-23A	320	929-53	160								
929-24	65	929-54	200								
929-25	80	929-55	250								
929-26	100	929-56	320								
929-27	125	929-57	400								
929-28	160	929-58	100		18	44x44					
929-29	200	929-59	125								
929-30	250	929-60	160								
929-30A	320	929-61	200								
929-31	18MM x M16	65	929-62	250							
			929-63	320							
			929-64	400							



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◀ APEX Code 930
Clamping Stud

Application :

- Used in jig-fixtures, hydraulic equipments as one of the clamping elements.

Construction :

- Hardened and tempered steel R=80/90 kg/mm²

Finish : Burnished

Specifications in mm

Code	Thread x Length	B	B1
930-0	M8 x 32	15	
930-1	40	20	
930-2	50	30	
930-3	63	40	11
930-4	80	50	
930-5	100	63	
930-6	M10 x 50	25	
930-7	63	32	
930-8	80	50	13
930-9	100	63	
930-10	125	75	
930-10A	160	100	
930-10B	200	125	
930-11	M12 x 50	25	
930-12	63	32	
930-13	80	50	
930-14	100	63	
930-15	125	75	15
930-16	160	100	
930-17	200	125	
930-17A	250	160	
930-17B	315	180	
930-18	M16 x 63	32	19
930-19	80	50	
930-20	100	63	

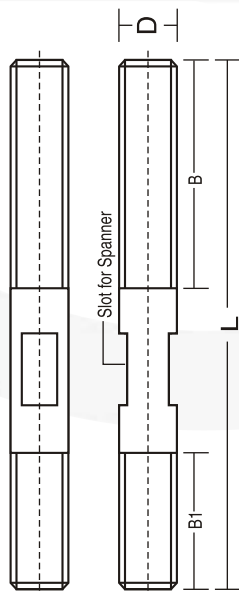
Code	Thread x Length	B	B1
930-21	M16 x 125	75	
930-22	160	100	
930-23	200	125	19
930-24	250	160	
930-24A	315	180	
930-25	M20 x 80	32	
930-26	100	60	
930-27	125	70	
930-28	160	100	
930-29	200	125	27
930-30	250	160	
930-31	315	180	
930-32	400	245	
930-32A	450	290	
930-33	500	315	
930-34	M24 x 100	45	
930-35	125	70	
930-36	160	100	
930-37	200	125	
930-38	250	160	35
930-39	315	200	
930-40	400	250	
930-40A	450	315	
930-41	500	315	

APEX Code 930S ▶

Clamping Stud With Slot
(Hardened & Tempered)
For Machine Beds Having
Tapped Holes.



- Have flattened middle portion for tightening and loosening with the help of an open ended spanner.
- Have longer threaded length on one side for longer insertion in the tapped holes of threaded platens of moulding machines.



Code	dE X L	B1	B
930S-1	M12 x 100	30	40
930S-2	M12 x 125		50
930S-3	M12 x 150		65
930S-4	M12 x 175		80
930S-5	M16 x 125	40	50
930S-6	M16 x 150		65
930S-7	M16 x 175		80
930S-8	M16 x 200		100
930S-8A	M20 x 125	50	50
930S-9	M20 x 150		60
930S-10	M20 x 175		70
930S-11	M20 x 200		80
930S-11A	M24 x 150	60	60
930S-12	M24 x 175		70
930S-13	M24 x 200		80
930S-14	M24 x 225		90



▶ **APEX Code 931**

Clamping Kit-34 Pcs.
(with Adjustable Plates & Strap Clamps)

- Economical Housed in a elegant metallic steel box, following table shows the contents suitable for different T-slot size.

Consists of :

Code	T-Slot Nuts Code 923 4 Pcs.	Clamping Studs Code 930 4 Pcs. Each	Flanged Nuts Code 921 4 Pcs.	Coupling Nuts Code 922 2Pcs.	Strap Clamp Code 914 2 Pcs. Each	Height Plates Adjustable Code 910 2 Pcs. Each
931-1	14-12 M	M12x80	M12	M12	12x100 12x125	2-50 2-100
931-2	16-12 M	M12x100				
931-3	18-12 M	M12x160 M12x200				
931-4	18-16 M	M16x80 M16x100 M16x160 M16x200	M16	M16	16x125 16x160	

▶ **APEX Code 932**

Clamping Kit-58 Pcs.
With step Block & Stepped Strap Clamps)

- Available in powder coated metallic steel rack which can be hanged or kept on the table. Each kit contains all important elements required to clamp a variety of work piece.



Consist of :

Code	T-Slot Nuts Code 923 6 Pcs.	Clamping Studs Code 930 4 Pcs. Each	Flanged Nuts Code 921 6 Pcs.	Coupling Nuts Code 922 4 Pcs.	Stepped Strap Clamp Code 915 2Pcs. Each	Step Blocks Code 909 2 Pairs (4 Pcs.) Each
932-1	14-12 M	M12x63 M12x80	M12	M12	12x80	1 2 Pairs 2 2 Pairs 3 2 Pairs
932-2	16-12 M	M12x100 M12x125			12x100 12x125	
932-3	18-12 M	M12x160 M12x200				
932-4	18-16 M	M16x80 M16x100 M16x125 M16x160 M16x200 M16x250	M16	M16	16x100 16x125 16x150	