

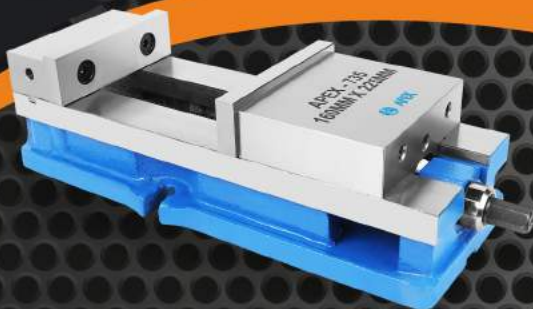


APEX[®]

SINCE 1959

An ISO 9001-2015 Company

PRECISION VICES
MACHINE VICES
BENCH VICES
DRILL VICES



WORK HOLDING EQUIPMENTS

Founded by Mr. SC Walia in 1959, Apex is a household name in the world of Hand and Machine Tools. Sixty five years of pure hard work, skill and excellence have commanded the Apex Legacy. Our reputation precedes us.

APEX INDUSTRIES is a leading manufacturer of high-quality Precision Vices, Machine Vices, Machine Tool Accessories, Bench Vices, Drill Vices & Clamping Elements dedicated to providing precision tools that empower craftsmen and professionals across various industries since 1959. With a rich history of innovation and a commitment to excellence, we have established ourselves as a trusted name in work holding solutions.

Our extensive product range includes:

**Precision Vices | Machine Vices | Machine Tools Accessories
Bench Vices | Drill Vices | Clamping Elements & Devices.**

We serve diverse industries PAN India including metalworking, woodworking, automotive, and construction. **APEX Vices** are trusted by professionals.

Our vices are used by a wide range of customers, from small workshops to large manufacturing plants.

We adhere to strict quality control measures and hold ISO 9001 : 2015 certification. Every vice undergoes rigorous testing to ensure it meets our high standards.

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.

Our 'MOTTO' is to Produce Quality Products, to sell on moderate rates, prompt delivery and to provide efficient service.

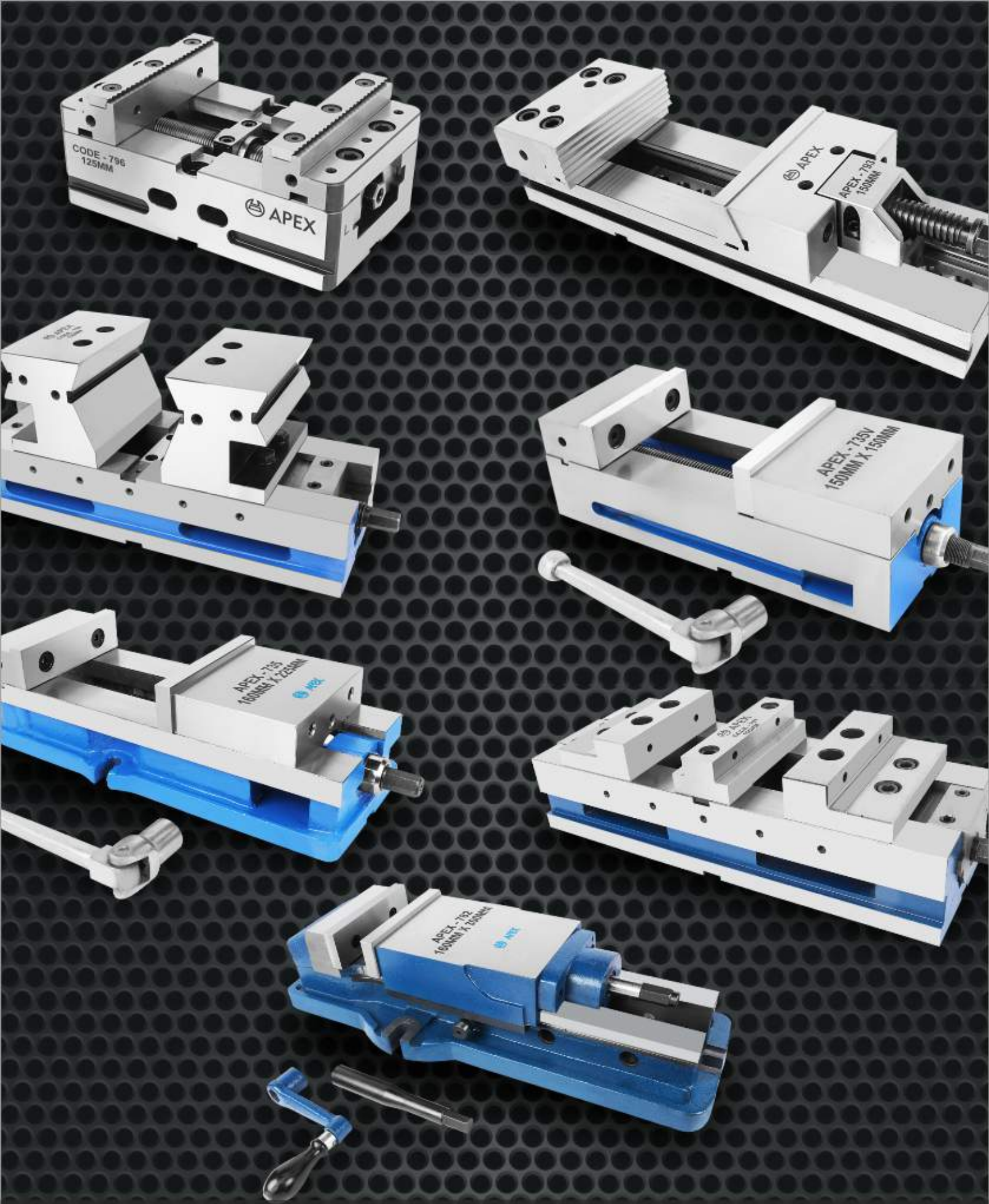


Dedicated to the memory
of beloved
LATE SH. S.C WALIA
The Founder Of
Apex Industries



INDEX

CODE	Item Name	Page No.	CODE	Item Name	Page No.
793	High Precision Modular Vice	05	SG 770	Collet Fixture	46
794	High Precision Modular Vice With Parallel Top Jaws	06	765	Tilting Indexing Device	46
795	Precision Two Piece Modular Vice	07	766	Indexing Collet Fixture	47
796	Precision 5-Axis Machine Vice	08	767	Indexing Collet Fixture	47
797	Multi Grip Machine Vice With Serrated Slide Ways	09	768	Universal Dividing Head	48
790	Precision Self Centering High Grip Shaft Vice	10	783	Indexing Milling Fixture - Horizontal & Vertical	49
791	Precision Self Centering High Grip Machine Vice	11	723	Tilting Table	50
792	Precision High Grip Machine Vice	12	723S	Tilting Table - Swivel Base	50
782	Precision Hydraulic Machine Vice	13	750	Swivel Angle Table	51
735	Tilt Lock Machine Vice	14	751 & 752	Angle Plates	51
735 V	Precision Tilt Lock Machine Vice	16	753 & 753G	Slotted Angle Plates - Webbed End	53
735 SCV	Self Centering Tilt Lock Machine Vice	17	754 & 754G	Slotted Angle Plates - Webbed End	53
771	All Steel Precision Grinding Vice	18	755	Giant Slotted Angle	54
772	Tool Makers Precision Screw Less Vice	18	777	Stepped Angle Plates	54
701	Tilting & Swiveling Vice	20	756 & 756G	C.I. Vee Blocks	55
749	Preci Tilting & Swiveling Vice	21	780	Ultimate Vee Block & Clamp Set	55
730	3 Way Universal Tilt & Swivel Angle Vice	21	769 & 769H	Magnetic Vee Blocks Soft / Hardened Pair	56
701A	Universal Precision Machine Vice	22	778	4 Way Vee Blocks	56
SG720	Precision Machine Vice	22	779	Tool Maker's Vice Block & Clamping Sets - Precision	57
703	Milling Machine Vice	23	743F	Permanent Magnetic Chucks	58
745	Milling Machine Vice - Deluxe Model	24	742F & 742T	Permanent Magnetic Chucks	58
748	Milling Machine Vice	25	764	Dial Comparator Stand	59
788	Heavy Duty Precision Machine Vice	26	781	Micrometer Stand	59
773	Extra Grip Machine Vice	27	714	Machinist Bench Vice	61
774	Hi Grip Machine Vice	28	734	Cross Rib Bench Vice	62
702	Shaper Vice	29	740	Heavy Duty Bench Vice Deluxe - Double Rib	63
761	Low Height Milling Machine Vice	29	741	Mechanic's Bench vice	64
709	Standard Rack Machine Vice (Heavy Duty)	30	746	Machinist Bench Vice	65
762	Super Opening Adjustable 2 Piece Milling Vice	30	739	Quick Action Bench Vice	65
736	Machine Clamps	31	757	Tool Maker's Bench Vice	66
724	Self Centering Shaft Vice	31	759	All Steel Bench Vice	67
719	Preci Self Centering Vice	33	744	Engineer's Vice	67
712	Precision Drill Vice	33	718	Table Vice	68
713	Drill Machine Vice	34	733 & 733S	Table Vice With Clamp	68
713 E	Drill Machine Vice - Economy Model	34	SG 787	Multipurpose Vice	70
SG 725	Drill Press Vice (German Type)	35	7285	Fabricated Steel Pipe Vice	70
SG 775	Precision Drill Press Vice	35	789	Clamp Vice	70
SG 760	Heavy Duty Drill Vice	36	716 & 716S	Table Vice - Fixed & Swivel Base	71
SG 710	Unigrip Machine Vice	36	726	Hand Vice Steel	71
717	Empire Machine Vice	37	727	Draw Vice Steel	71
717A	Empire Angle Machine Vice	37	729	Chain Pipe Vice	72
717AS	Empire Angle Machine Vice - Graduated Swivel Base	37	SG 731	Hinged Pipe Vice	72
704	Compound Angle Table - Round Table	39	728	Pipe Vice - Open Type	73
704R	Compound Angle Table - Rectangular Table	39	747 & 747R	All Steel Pipe Vice	73
706	Compound Sliding Table - Swivel Graduated Base	40	737	Wood Working Vice	74
706S	Single Sliding Table	40	737QR	Quick Release Wood Working Vice	74
705D	Compound Sliding Table - Swivel Graduated Base	40	738	Wood Worker's Vice	75
732	Compound Sliding Table - With Calibrated Wheels	40	738QR	Quick Release Wood Worker's Vice	75
707T	Compound Sliding Table	41	758	Economy Wood Worker's Vice	75
707A	Compound Sliding Table	41	501 & 501A	Bearing Puller - 2 & 3 Legs	76
708J	Jaws for Compound Sliding Table	41	501 PC	Bearing Puller D/F 3 Legs	76
711	Vertical Sliding Table	41	501 H	Bearing Puller 3 Legs - Hand Forged Steel	76
707	Compound Sliding Table	42	501 AH	Bearing Puller 2 Legs - Hand Forged Steel	76
708	Compound Sliding Table	42	502	G Clamps Malleable	77
708S	Single Sliding Table	42	503	Drop Forged G Clamps	77
722	Profiling Milling & Slotting Slide	43	504	Adjustable Tap Wrench	77
722D	Profiling Milling & Slotting Slide	43	505	Armature Bearing Puller Vice	77
721	Universal Compound Vice	43	506	Anvil	78
715	Rotary Milling Table	44	507	Drill Sleeves	78
715E	Rotary Milling Table - Horizontal & Vertical	44	508	Drill Chuck with Key	78
715H	Indexing Device for Rotary Tables	45			



PRECISION MACHINE VICES



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 793

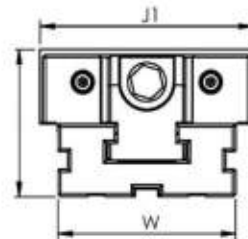
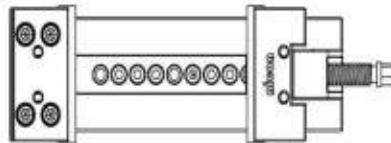
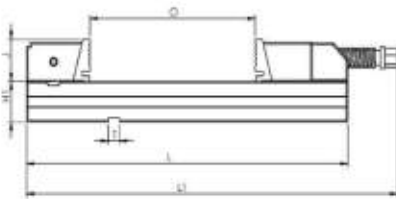
High Precision Modular Vice

FEATURES :

- Modular Vice designed for precision milling, grinding and widely used with CNC Milling Machines.
- Both Jaw Plates are in pull-down angle. This ensures, during the clamping operation a down load run of the workpiece against the vice base and thus a precise and safely clamping.
- All components of vice are interchangeable with perfect alignment to provide different work to hold solutions.
- The space-saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vice.
- Four extra tapped hole with ground back jaw rear face increase maximum opening capacity with the addition of jaws extensions.
- EN - 353 steel, case hardened HRC 60 ± 2 is used in all body and accessories of vice to give maximum rigidity, high performance & no wear.
- Same Bed High Maintained for gang milling operations.
- Accuracy : 10 Microns

STANDARD ACCESSORIES :

- 1 Work Stopper, 1 Pair of standard 16 mm positioning key nuts
- 4 Clamps, T Allen key, 1 Box wrench



Size	L	W	H	O	L1	H1	J	J1	T	WEIGHT IN KGS.	CLAMPING PRESSURE IN KGS.
100 x 165	350	100	85	165	400	45	40	110	16	15	2500
150 x 225	450	125	100	225	520	50	50	150	16	27	4000
150 x 300	525	125	100	330	595	50	50	150	16	30	4000



Serrated Jaws



Soft Jaws



Intermediate Jaws



Extra Height Jaws

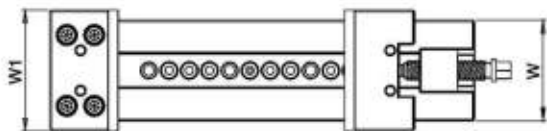
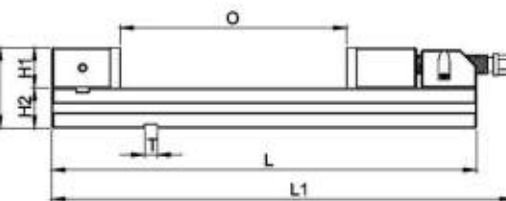
APEX CODE NO. 794

FEATURES :

- This Vice is designed for Precision Milling, Grinding, and widely used with CNC and standard milling machines.
- Both moving and fixed blocks are precision ground with parallelism accuracy 0.01 mm and thus a precise and safely clamping.
- All components of vice are interchangeable with perfect alignment to provide different work to hold solutions.
- The space-saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vice.
- Four extra tapped hole with ground back jaw rear face increase maximum opening capacity with the addition of jaws extensions.
- EN - 353 steel, case hardened HRC 60 ± 2 is used in all body and accessories of vice to give maximum rigidity, high performance & no wear.
- Same Bed High Maintained for gang milling operations.

STANDARD ACCESSORIES :

- 1 Work Stopper, 1 Pair of standard 16 mm positioning key nuts
- 4 Clamps, T Allen key, 1 Box wrench



Size	L	L1	H	H1	H2	O	W	W1	T	WEIGHT IN KGS.	CLAMPING PRESSURE IN KGS.
125 x 175	363	412	85	40	45	175	97	125	16	14.5	3000
150 x 225	450	515	100	50	50	225	125	150	16	26.5	4000
150 x 300	525	590	100	50	50	300	125	150	16	29	4000



Serrated Jaws



Soft Jaws



Intermediate Jaws



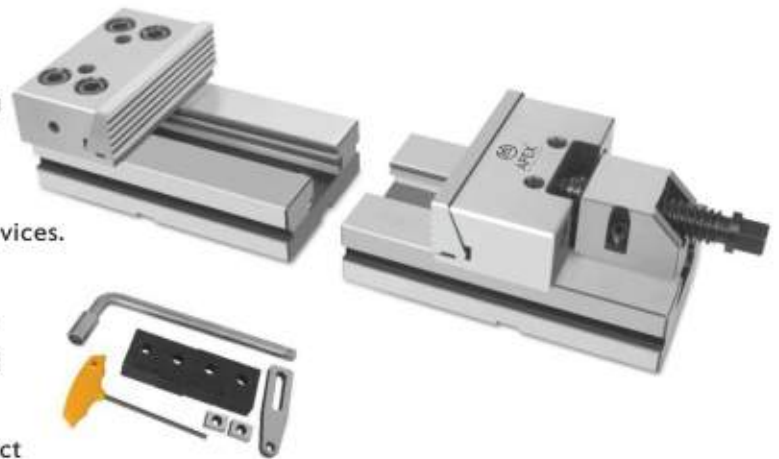
Extra Height Jaws

APEX CODE NO. 795

Precision Two Piece Modular Vice

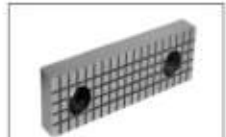
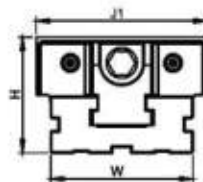
FEATURES :

- Two Piece Modular Vice designed for precision milling, grinding and widely used with CNC & Standard Milling Machines.
- Modular elements allow you perfect clamping even of big workpiece which need heaviest machining using the machine table as surface.
- This vice is solution for a lot of applications and a perfect complement or alternative to single or double vices.
- Both Jaw Plates are in pull-down angle. This ensures, during the clamping operation a down load run of the workpiece against the vice base and thus a precise and safely clamping.
- All components of vice are interchangeable with perfect alignment to provide different work to hold solutions.
- The space-saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vice.
- Four extra tapped hole with ground back jaw rear face increase maximum opening capacity with the addition of jaws extensions.
- En - 353 steel, case hardened HRC 60 ± 2 is used in all body and accessories of vice to give maximum rigidity, high performance & no wear.
- Same Bed High Maintained for gang milling operations.
- Accuracy : 10 Microns.



STANDARD ACCESSORIES :

- 1 Work Stopper, 1 Pair of standard 16 mm positioning key nuts
- 4 Clamps, T Allen key, 1 Box wrench



Serrated Jaws



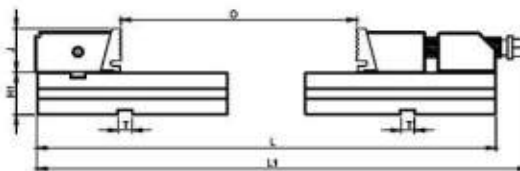
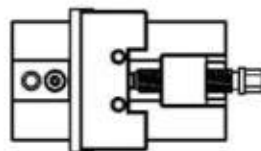
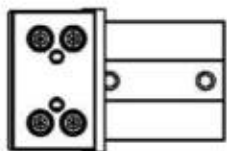
Soft Jaws



Intermediate Jaws



Extra Height Jaws



Size	L	W	H	O	L1	H1	J	J1	T	WEIGHT IN KGS.	CLAMPING PRESSURE IN KGS.
150	Unlimited	125	101	Assorted	Assorted	50	51	150	16	27	3000

APEX CODE NO. 796

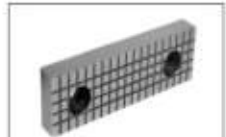
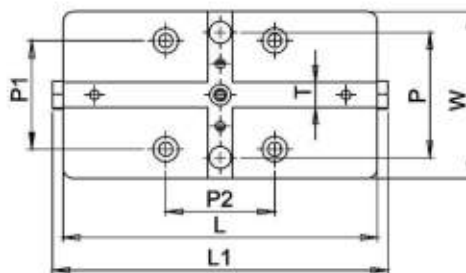
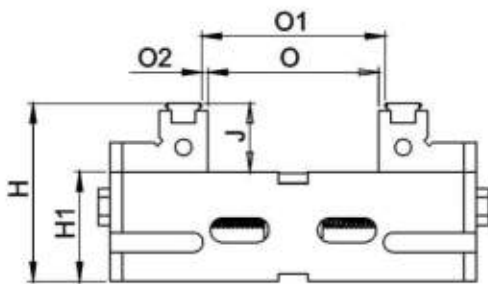
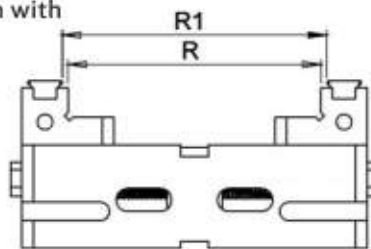
Precision 5-Axis Machine Vice

FEATURES :

- Self Centring 5-Axis Machine Vice designed for precision 4 and 5 Axis CNC Rotary Table usage, either in horizontal or vertical machining and widely used with Grinding & Precision Milling Machines.
- Vice precision of its centre repetition position is ± 0.02 mm.
- The space saving design and solid construction allow a maximum blocking ratio to total overall dimensions of the vice.
- EN - 353 steel, case hardened HRC 60 ± 2 is used in all body and accessories of vice to give maximum rigidity, high performance & no wear.
- All components of vice are interchangeable with perfect alignment to provide different work holding solutions.
- Minimum clamping depth of 3 mm gives enormous material savings.
- Maximum clamping pressure 5000 Kgs. approximate.
- Highest holding power at minimum clamping force.
- Vice allows application of short tools reduced vibration longer life to provide the best finish.
- Ideal for use in 3 Axis machining centres also for mass production with multiple vices setup.
- Same Bed High Maintained for gang milling operations.

STANDARD ACCESSORIES :

- 1 Work Stopper, 1 Pair of standard 16 mm positioning key nuts
- 4 Clamps, T Allen key, 1 Box wrench



Serrated Jaws



Soft Jaws



Intermediate Jaws



Extra Height Jaws

Size	L	L1	W	H	H1	J	T	P	P1	P2	O	O1	O2	R	R1	WEIGHT IN KGS.	CLAMPING PRESSURE IN KGS.
80	150	158	80	73	45	28	12	60	52	52	70	75	2.5	110	115	4.2	3000
125	210	211.5	125	89.5	57	32.5	16	100	96	96	110	116	3	160	166	11	5000

APEX CODE NO. 797

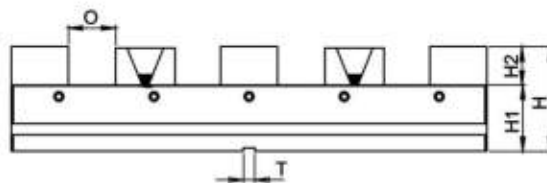
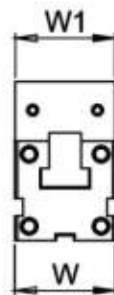
**Multi Grip Machine Vice
With Serrated Slide Ways**

FEATURES :

- Perfect vise for flexible clamping of multiple work pieces of various sizes. Hardened & ground serrated slide ways and fixed jaws for rigid clamping.
- The multi grip vises are totally new concept of modular clamping system able to maximize the machine table capacity and thus to increase its productivity.
- This system is designated for clamping several work pieces at the same time on the machine tool table, thus reducing tool changeover times.
- Highest accuracy in positioning and alignment ± 0.02 mm.
- Multi grip vises can be vertically assembled linked each other or clamped to specific work holding structures.
- EN - 353 steel, case hardened HRC 60 ± 2 is used in all body and accessories of vice to give maximum rigidity, high performance & no wear.
- Each vise supplied with 3 fixed jaws and 2 wedge clamps.
- Same Bed High Maintained for gang milling operations.

STANDARD ACCESSORIES :

- 4 Work Stopper, 2 Allen keys,
One Pair of standard 12 mm positioning key nuts.



CODE	L	H	H1	H2	O	W	W1	W2	T	WEIGHT IN KGS.	CLAMPING PRESSURE IN KGS.
797	500	110	70	40	45-50	70	69	60	12	22	5000



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 790

PRECISION SELF CENTERING HIGH GRIP SHAFT VICE

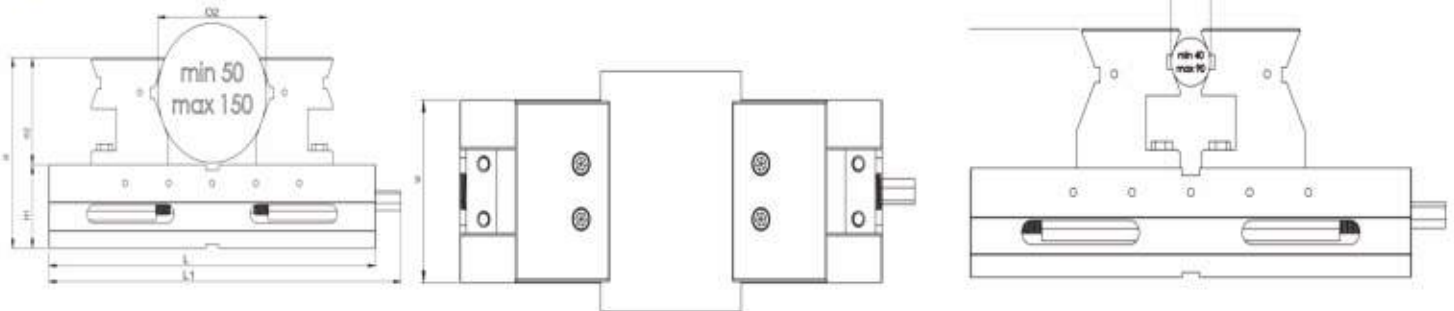
FEATURES :

- Self Centering Hi-Grip Shaft Vice designed for accurate centering for round jobs on Precision Milling Machine & widely used with CNC Machining Center.
- High-Grade FCD 60 grade Ductile Cast Iron Body (Unbreakable), Grounded Top & Bottom. This CNC Vice Securely Holds Round Jobs and can also use in various shapes of components with the help of different available optional jaws.
- Perfect Vice for Mass Production Environments. Bed Height Matched with Multiple Vice Orders.
- High Alloyed Quality Resistance Steel, Case Hardened HRC 60 ± 2 is used in Clamping Jaws to give High Performance & No Wear.
- Tenon & Tenon Slots Provided for Effortless Truing of Vice on Machine Table.
- High Clamping Force can achieve by Effortless handle movement which eliminates Hammering on vice handle.



STANDARD ACCESSORIES :

- 4 Side Clamps | 1 Box Wrench | 2 Positioning Key Nuts, 1 Work Stopper



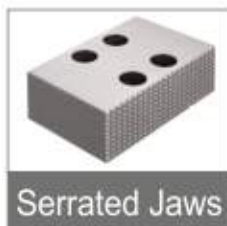
DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	H1	H2	Ø	O1	O2	T	Weight in Kgs.	Clamping Pressure in Kgs.
790	450	150	205	485	90	115	169.5	40-90	50-150	18	48	4000

Optional Jaws



Soft Jaws



Serrated Jaws



Stepped Jaws



Prismatic Jaws

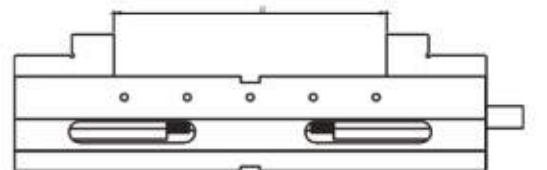
Note : The above data is subject to change without notice due to our continuing product improvement program.

APEX CODE NO. 791

PRECISION SELF CENTERING HIGH GRIP MACHINE VICE

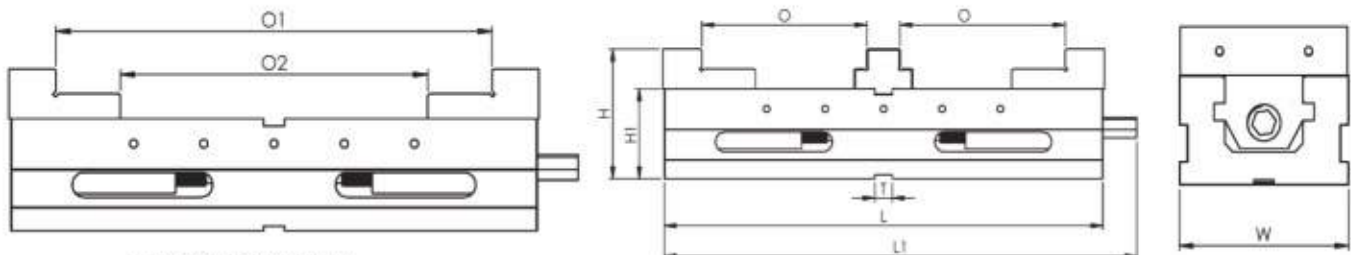
FEATURES :

- Self Centering Hi-Grip Machine Vice designed for Precision Milling, Grinding & Widely used with CNC Machining Center.
- The Jaws move towards the center. This always provide stable work piece centering settings.
- High Grade FCD 60 Ductile Cast Iron Body (Unbreakable), Grounded Top & Bottom. This CNC Vice securely holds Two Work Pieces for Maximum Productivity.
- Perfect Vice for Mass Production Enviroments.
- The Vice also quickly converts into a Wide Opening single Station CNC Vice with a Massive 375 mm Capacity.
- Bed Height matched with Multiple Vice Orders.
- High Alloyed Quality Resistance Steel, Case Hardened HRC 60 ± 2 is used in Clamping Jaws to give High Performance & No Wear.
- Accuracy in Parallelism & Squareness within 0.02/100 mm.
- Interchangeable Jaws Plates. Tenon & Tenon Slots provided for Effortless Truing of Vice on Machine Table.
- High Clamping Force can achieve by Effortless handle Movement which eliminates Hammering on Vice Handle.
- Maximum Clamping Force : 3500 Kgs.



STANDARD ACCESSORIES :

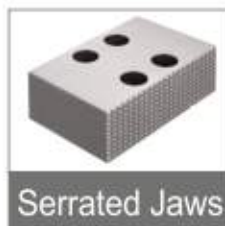
4 Side Clamps | 1 Box Wrench | 2 Positioning Key Nuts, 1 Work Stopper



DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	H1	O	O1	O2	T	Weight in Kgs.	Clamping Pressure in Kgs.
791	450	152	130	528	90	210	372	262	18	40	5000

Optional Jaws



APEX CODE NO. 792

PRECISION HIGH GRIP MACHINE VICE

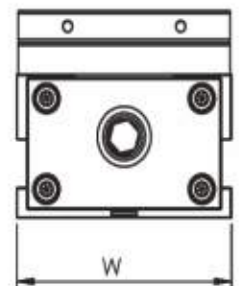
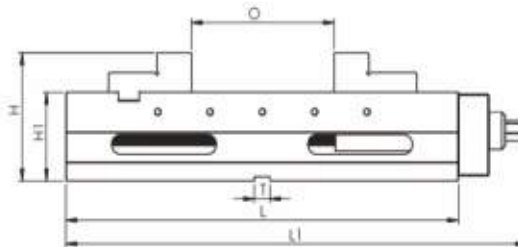
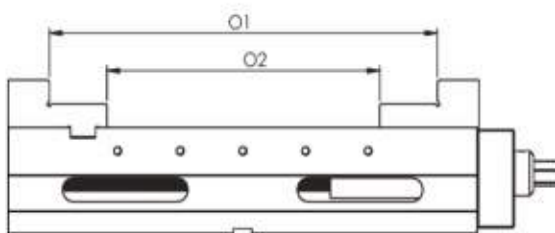
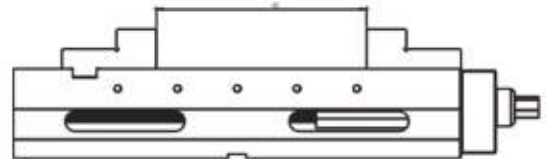
FEATURES :

- Hi-Grip Machine Vice designed for Precision Milling, Grinding & Widely used with CNC Machining Center.
- High-Grade FCO 60 Ductile Cast Iron Body (Unbreakable), Grounded Top & Bottom.
- Bed Height Matched with Multiple Vice Orders.
- High Alloyed Quality Resistance Steel, Case Hardened HRC 60 ± 2 is used in Clamping Jaws to give High Performance & No Wear.
- Accuracy in Parallelism & Squareness with in 0.002/100 mm.
- Interchangeable Jaws Plates.
- Tenon Tenon Slots Provided for Effortless Truing of Vice on Machine Table.
- High Clamping Force can be achieved by Effortless Handle Movement which eliminates Hammering on vice Handle.
- Maximum Clamping Force : 5000 Kg.



STANDARD ACCESSORIES :

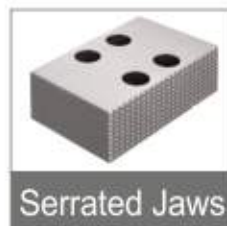
4 Side Clamps | 1 Box Wrench | 2 Positioning Key Nuts, 1 Work Stopper



DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	H1	O	O1	O2	T	Weight in Kgs.	Clamping Pressure in Kgs.
792	450	152	130	528	90	210	372	262	18	40	5000

Optional Jaws



APEX CODE NO. 782 & 782P
Fixed & Swivel Base

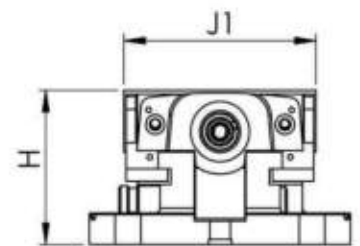
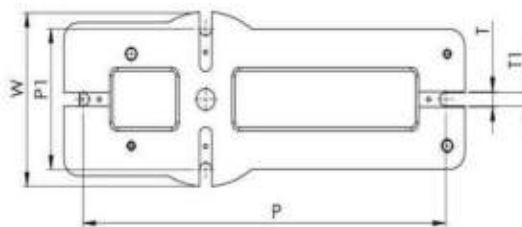
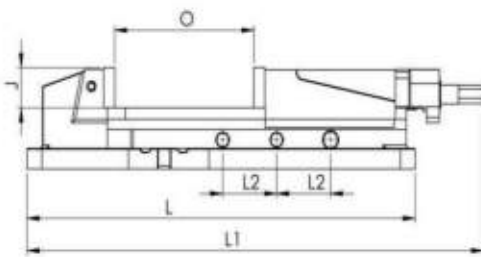
**Precision Hydraulic
Machine Vice**

FEATURES :

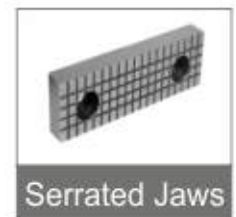
- Body made of high quality ductile cast iron to resist deflection or bending.
- Ruggedly constructed for milling drilling, shaping, grinding and many other machine shop applications.
- Hardened and ground sideways.
- Hydraulic booster system for maximum clamping pressure with minimum force.
- Hydraulic booster system is guaranteed for using 1 year limited.
- Quick clamping, locking & ease of operation.
- Also available in swivel base.
- Concealed spindle for protection against chip & dirt.
- Accuracy in squareness is 0.02/100 mm.
- Maximum clamping pressure is 4500 Kg.



Standard Accessories:
1 Crank Handle, 1 Extension Bar.



Size	L	W	H	O	L1	L2	J	J1	P	P1	T	T1	WEIGHT IN KGS. 782 P	WEIGHT IN KGS. 782	CLAMPING PRESSURE IN KGS.
150 x 200	530	205	119	210	650	75	48	150	480	165	18	17	37	47	4000
150 x 300	606	232	136	300	690	100	52	155	560	185	18	17	50	60	4500





APEX[®]
SINCE 1959

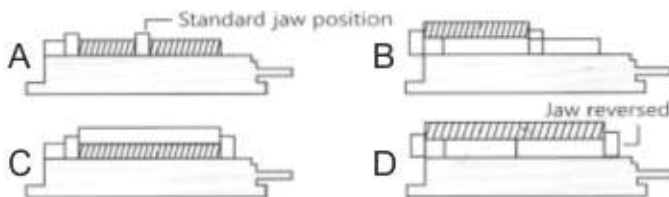
APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 735 & 735P

Fixed & Swivel Base
Unbreakable S.G. Iron Body

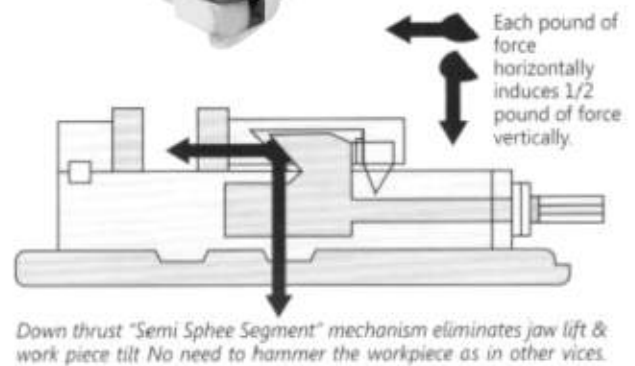
FEATURES :

- Tilt Lock Machine Vice designed for Precision Milling Machines and CNC Machining Centres.
- Sealed Bearing System induces clamping pressure and increases bearing life.
- Bearing part is stronger & more durable than our previous designed vices.
- Accuracy in parallelism & squareness within 0.02/100 mm.
- Flame hardened bed jaws maintain accuracy for long time.
- Ductile Cast Iron Body (Unbreakable).
- No work piece tilt after clamping.
- All parts interchangeable and available as spares.
- Same bed height and Re-designed nut with lighter weight.
- Tenons and tenon slots provided for effortless truing of vice on machine table.
- High clamping force can be achieved by effortless handle movement which eliminates hammering on handle.
- Available with Swivel base also.



Examples of clamping with different jaw mounting positions possible.

Tilt Lock Machine Vice



Opening of Jaws in Different Jaw Positions

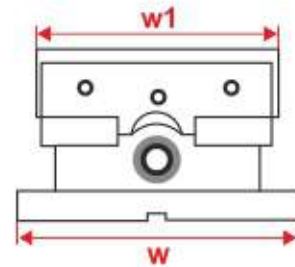
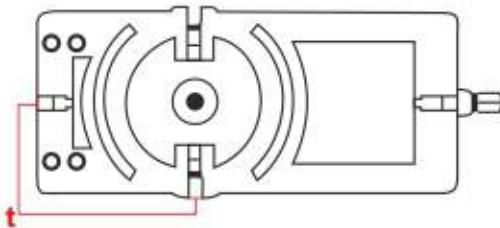
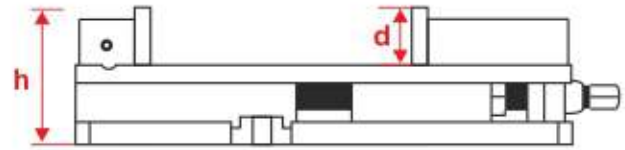
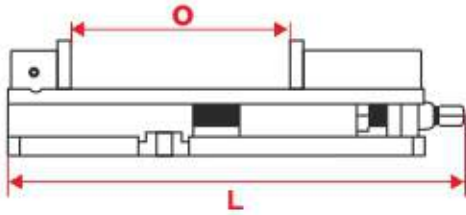
Size in inches	4"x 4"	5"x 5"	6"x 7"	6"x 9"	8"x 10"	8"x 12"	12"x 16"
Width of Jaws	105mm	130mm	160mm	160mm	210mm	210mm	300mm
Opening of Jaws A	140mm	140mm	195mm	240mm	250mm	310mm	402mm
Opening of Jaws B	205mm	205mm	270mm	320mm	330mm	390mm	490mm
Opening of Jaws C	225mm	270mm	340mm	390mm	430mm	485mm	615mm
Opening of Jaws D	275mm	335mm	420mm	470mm	510mm	570mm	700mm

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS



Technical Specification

Model	Jaw Width	Max. Jaw Opening With Standard Jaw Position	Jaw Depth	Overall Length	Overall Width	Overall Height	Tenon Slot	Net Weight Fixed Base	Net Weight Swivel Base	Clamping Pressure in Kgs.
In Drawing	w1	o	d	L	w	h	t			
4"x 4"	105	105	35	355	190	100	16	16.5 Kgs.	22.500 Kgs.	1500
5"x 5"	130	140	45	390	185	130	20	24 Kgs.	31.600 Kgs.	2000
6"x 7"	160	195	50	460	185	130	20	35 Kgs.	42.600 Kgs.	2500
6"x 9"	160	240	50	510	180	130	20	37 Kgs.	46.900 Kgs.	2500
8"x 10"	210	250	60	555	355	154	20	61 Kgs.	74 Kgs.	4000
8"x 12"	210	310	60	615	250	155	20	63 Kgs.	75.500 Kgs.	4000
12"x16"	300	402	70	760	350	165	20	110 Kgs.	135 Kgs.	4000

OPTIONAL JAWS (Available at extra cost)
(Against order only)



Soft Jaws



Stepped Jaws



Prismatic Jaws



Serrated Jaws



Diamond Teeth Jaws



Aluminium Jaws



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 735 V

Precision Tilt Lock Machine Vice

IDEAL FOR VERTICAL MACHINING CENTER (VMC)



FEATURES :

- The Vice can be Used Vertically or on either side.
- Accuracy in Parallelism & Squareness within 0.02mm/100mm.
- Tilt Lock action avoids workpiece tilt after clamping.
- Concealed spindle for protection against chips and dirt.
- Quick Action of clamping & locking for ease of operation.
- Interchangeable spare parts.
- Tenon Slot are provided on bottom of vice for easy truing.

CONSTRUCTION :

- Made out of Nodular Cast Iron Body (S.G. Iron)
- Jaw Plates are made of Steel Grade-EN-31
- Hardened & Ground to 50-52 H.R.C.
- Sealed Bearing System for increased Bearing Life
- Flame Hardened Bed



Performs Side Vertically Also in Series

Technical Specifications

Size in inches	6
Width of Jaws (mm)	150
Depth of Jaws (mm)	45
Opening of Jaws (mm)	155
Opening of Jaws Reversed (mm)	390
Height Overall (mm)	120
Length Overall (mm)	455
Weight (Approx in Kgs.)	758
	30



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 735SCV

Self Centering Tilt Lock Machine Vice



FEATURES :

- Self Centring Tilt Lock Jaw Vice designed for Precision Milling Machines and CNC Machining Centres.
- S.G. Ductile Cast Iron Body
- Sealed bearing system induces clamping pressure and increases bearing life.
- Accuracy in parallelism & squareness within 0.02/100 mm.
- No work piece tilt after clamping.
- The high clamping force can be achieved by effortless handle movement which eliminates hammering on a handle.
- All parts are interchangeable and available as spares.



Performs Side Vertically Also in Series

Technical Specifications

Size in mm	150
Width of Jaws (mm)	154
Depth of Jaws (mm)	47
Opening of Jaws (mm)	160
Height Overall (mm)	122
Length Overall (mm)	486
Tenon Slot (mm)	18
Clamping Pressure (In Kgs.)	2000
Weight (Approx in Kgs.)	34.15

APEX CODE NO. 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 & 772 :

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

ACCURACY 771 & 772 :

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

APEX CODE NO. 772 & 772T

Tool Makers Precision Screw Less Vice

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.



Technical Specifications

Size in inches	3	4	6
Width of Jaws (mm)	75	95	150
Opening of Jaws (mm)	100	130	175
Depth of Jaws (mm)	40	45	50
Length Overall (mm)	200	235	360
Height Overall (mm)	70	90	90
Weight (Approx in Kgs.)	5.220	9.500	30

CONSTRUCTION 771T & 772T :

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

ACCURACY 771T & 772T :

- Parallelism : within 8 microns
- Perpendicularity : within 12 Microns



Technical Specifications

Size in inches	3	4	6
Width of Jaws (mm)	75	100	150
Opening of Jaws (mm)	90	130	200
Depth of Jaws (mm)	35	45	50
Length Overall (mm)	190	240	350
Height Overall (mm)	75	85	240
Weight (Approx in Kgs.)	4	8	19



MACHINE VICES



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 701 & SG 701

Tilting & Swiveling Vice

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 Steel 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** : Steel 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.
- **Code SG701** : Ductile Cast Iron Body (Unbreakable).

Technical Specifications

Size in inches	4	6	8
Width of Jaws (mm)	100	150	200
Depth of Jaws (mm)	40	50	60
Opening of Jaws (mm)	100	150	200
Length Overall (mm)	345	510	620
Height Overall (mm)	150	200	230
Width Overall (mm)	180	250	280
Tenon Slot Size (mm)	16	20	20
Weight (Approx in Kgs.)	19	42	76





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 749, SG 749

Preci Tilting & Swiveling Vice

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 Steel Nut.
- Tenon Slot machined in back as standard for CNC use.
- Swivel base graduated through 360°
- Vertical tilting capacity 90°
- **SG749** : Ductile Cast Iron Body (Unbreakable)



Technical Specifications

Size in inches	4	6
Width of Jaws (mm)	100	150
Depth of Jaws (mm)	40	50
Opening of Jaws (mm)	100	150
Length Overall (mm)	345	510
Height Overall (mm)	150	200
Width Overall (mm)	180	250
Tenon Slot Size (mm)	16	20
Weight (Approx in Kgs.)	20	49

APEX CODE NO. 730

3 Way Universal Tilt & Swivel Angle Vice

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.
- (Dovetailed Slide) Vee sideways adjustable for giving prolonged working life.

Technical Specifications

Size in inches	4	6
Width of Jaws (mm)	100	150
Depth of Jaws (mm)	40	55
Opening of Jaws (mm)	100	150
Length Overall (mm)	390	545
Height Overall (mm)	195	310
Width Overall (mm)	230	275
Tenon Slot Size (mm)	20	20
Weight (Approx in Kgs.)	30	65





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG 701A

Universal Precision Machine Vice

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 :

- Ductile Cast Iron Frame (Unbreakable).
- 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.

Technical Specifications

CODE	SG701A	SG701A	SG 720	SG 720
Size in inches	4	6	4	6
Width of Jaws (mm)	100	150	100	150
Depth of Jaws (mm)	25	40	25	40
Opening of Jaws (mm)	65	115	65	115
Length Overall (mm)	270	405	305	470
Height Overall (mm)	170	225	100	120
Width Overall (mm)	110	155	110	155
Tenon Slot Size (mm)	16	16	16	16
Weight (Approx in Kgs.)	10	25	7	18



APEX CODE NO. SG 720

Precision Machine Vice (Swivel Base)

Unbreakable S.G. Iron Body





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 703 & 703P

Fixed & Swivel Base

APEX CODE NO. SG 703 & SG 703P

Unbreakable S.G. Iron Body

Milling Machine Vice

FEATURES :

- (Dovetailed Slide) Vee sideways adjustable for giving prolonged working life.
- 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, Steel nut contained in totally enclosed sliding jaw.
- Complete with all steel handle.



Technical Specifications

Size in inches	3	4	6	6	8	10	12
Width of Jaws (mm)	75	100	150	160	200	250	300
Depth of Jaws (mm)	38	40	55	55	60	70	75
Opening of Jaws (mm)	75	100	150	235	200	250	300
Length Overall (mm)	285	320	485	550	605	725	820
Height Overall (mm) 703P	70	85	112	115	128	140	145
Height Overall (mm) 703	100	115	145	145	178	190	195
Width Overall (mm) 703P	135	155	245	245	300	350	425
Width Overall (mm) 703	155	175	280	280	330	370	450
Tenon Slot Size (mm)	13	16	20	20	20	-	-
Weight (Approx in Kgs.) 703	9.200	16.550	44.500	49.400	85	125	173
Weight (Approx in Kgs.) 703P	6.800	11.600	34.200	38.950	63	96	133.300



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 745 & 745P

Fixed & Swivel Base

Milling Machine Vice Deluxe Model

FEATURES :

- Tilt Lock Machine Vice design is beam like 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.



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 748 & 748P

Fixed & Swivel Base

APEX CODE NO. SG 748 & SG 748P

Unbreakable S.G. Iron Body

Milling Machine Vice

FEATURES :

- (Dovetailed Slide) Vee sideways adjustable for giving prolonged working life.
 - 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 :

- Ductile Cast Iron Body (Unbreakable).
- High tensile Stress Relieved quality casting, precision ground hardened & tempered steel jaws plates.
- ACME thread interchangeable screw, hot stamped steel nut contained in totally enclosed sliding jaw.
- Complete with all steel handle.

Technical Specifications

Size in inches	4	6	8
Width of Jaws (mm)	100	150	200
Depth of Jaws (mm)	40	50	60
Opening of Jaws (mm)	100	150	200
Length Overall (mm)	317	480	615
Height Overall (mm) 748P	85	110	135
Height Overall (mm) 748	120	145	190
Width Overall (mm) 748P	155	245	300
Width Overall (mm) 748	170	280	325
Tenon Slot Size (mm)	16	20	20
Weight (Approx in Kgs.) 748	18	46	86
Weight (Approx in Kgs.) 748P	12	34	65





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

FEATURES :

- Heavy Duty Precision Machine Vice
Ductile S.G. Iron Body.
- Trouble Free Performance.
- Accuracy in squareness within 0.02 / 100 mm.
- Jaw Plates are made out of Tool Steel.
- Fully Hardened and Ground.

APEX CODE NO. 788 & 788P

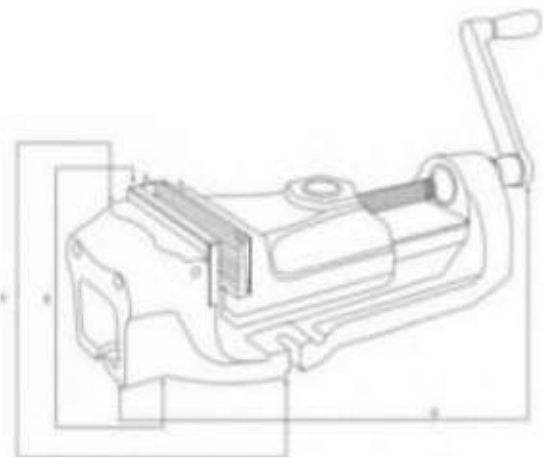
Fixed & Swivel Base
Unbreakable S.G. Iron Body

**Heavy Duty Precision
Machine Vice**



Technical Specification

Size (in inches)	6
Width of Jaws (in mm)	160
Opening of Jaws (in mm)	150
Depth of Jaws (in mm)	54
Length overall in mm	550
Height overall (788P)	135
Height overall (788)	175
Width Overall (788P)	230
Width Overall (788)	270
Tenon Slot Size in mm	20
Weight (Approx.) in Kgs. 788P	43
Weight (Approx.) in Kgs. 788	54





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 773 & 773P

Fixed & Swivel Base

APEX CODE NO. SG 773 & SG 773P

Unbreakable S.G. Iron Body

Extra Grip Machine Vice

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 :

- Ductile Cast Iron Body (Unbreakable).
- 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



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 774 & 774P

Fixed & Swivel Base

APEX CODE NO. SG 774 & SG 774P

Unbreakable S.G. Iron Body

Hi Grip Machine Vice

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 :

- Ductile Cast Iron Body (Unbreakable).
- 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

Technical Specifications

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



APEX CODE NO. 702 & 702P

**Shaper Vice With Serrated Jaws
(Fixed & Swivel Base)**

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.



Technical Specifications

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

APEX CODE NO. 761

Low Height Milling Machine Vice

Technical Specifications

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 709

Standard Rack Machine Vice (Heavy Duty)

FEATURES :

- 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.



Technical Specifications

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

APEX CODE NO. 762

Super Opening Adjustable 2-Piece Milling Vice

Technical Specifications

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG 736

Machine Clamps

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 :

- Ductile Cast Iron Body (Unbreakable).
- Clamping Jaw made of Hardened Steel



Technical Specifications

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

APEX CODE NO. 724

Self Centering Shaft Vice

FEATURES :

- 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.



Technical Specifications

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



DRILL VICES



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 719 & 719P

Fixed & Swivel Base

Preci Self Centering Vice

FEATURES :

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



Technical Specifications

Size in inches	4	6
Width of Jaws (mm)	100	150
Depth of Jaws (mm)	35	50
Opening of Jaws (mm)	100	150
Length Overall (mm) 719P	250	310
Length Overall (mm) 719	260	330
Height Overall (mm) 719P	95	115
Height Overall (mm) 719	130	160
Width Overall (mm) 719P	155	205
Width Overall (mm) 719	175	240
Tenon Slot Size (mm)	16	20
Weight (Approx in Kgs.) 719P	11	22
Weight (Approx in Kgs.) 719	14	29

APEX CODE NO. 712

Precision Drill Vice (Deluxe Model)

FEATURES :

- 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



Technical Specifications

Size in inches	4	6	8
Width of Jaws (mm)	100	150	200
Opening of Jaws (mm)	140	220	280
Depth of Jaws (mm)	40	55	60
Height Overall (mm)	80	110	130
Length Overall (mm)	350	460	585
Width Overall (mm)	205	255	315
Weight (Approx in Kgs.)	11	26	51



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG 713, 713

Drill Machine Vice

FEATURES :

- Manufactured from unbreakable alloy steel, these drill vices have been designed for powerful clamping for drilling, tapping, reaming.
- Fine acme thread lead screw.
- Continuous screw giving powerful grip on work.
- The base is slotted enabling the vice to be bolted to drill press tables, assisting in quick & accurate positioning.
- Moving Jaws is plain & fixed is provided with one vertical & one horizontal 90° V-Grooves.



Technical Specifications

Size in inches	3	4	5	6	8	10	12
Width of Jaws (mm)	75	100	125	160	210	250	310
Depth of Jaws (mm)	44	44	50	50	66	85	85
Opening of Jaws (mm)	100	125	145	170	230	345	390
Width Overall (mm)	130	171	190	222	283	350	400
Height Overall (mm)	68	75	80	85	103	135	135
Length Overall (mm)	250	295	330	375	395	525	670
Weight (Approx in Kgs.)	4	7	9.800	14	19.5	44	55

APEX CODE NO. 713 E

Drill Machine Vice (Economy Model)

Unbreakable S.G. Iron Body

FEATURES :

- Manufactured from unbreakable alloy steel, these drill vices have been designed for powerful clamping for drilling, tapping, reaming.
- Fine acme thread lead screw.
- The base is slotted enabling the vice to be bolted to drill press tables, assisting in quick & accurate positioning.
- Moving Jaws is plain & fixed is provided with one vertical & one horizontal 90° V-Grooves.



Technical Specifications

Size in inches	3	4	5	6	8
Width of Jaws (mm)	75	100	125	150	210
Depth of Jaws (mm)	44	44	50	60	65
Opening of Jaws (mm)	85	125	150	160	205
Width Overall (mm)	130	165	192	230	275
Height Overall (mm)	65	70	80	95	110
Length Overall (mm)	240	280	310	360	445
Weight (Approx in Kgs.)	3.500	5.300	6.5	11.800	17.500

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG725

Drill Press Vice (German Type)

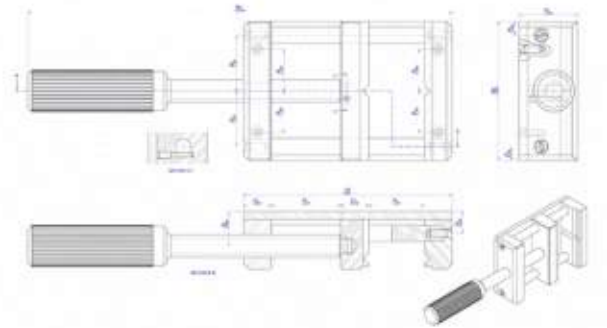
S.G. Iron Body

FEATURES :

- Manufactured from high quality Ductile Cast Iron (Unbreakable).
- Drill Press have been designed for powerful clamping for safe drilling, tapping, reaming,
- Easy to operate and provide optimal performance.
- Quality – guarantees Reliability, durability and precision
- Fine acme thread lead screw
- Horizontal & Vertically V Grooved Jaws
- The Base is slotted enabling the vice to be bolted.
- Jaws hardened and ground
- Powder coated finish

Technical Specifications

Size in inches	3	4	5	6	8
Width of Jaws (mm)	80	100	125	150	200
Depth of Jaws (mm)	30	30	35	35	35
Opening of Jaws (mm)	80	100	130	155	200
Width Overall (mm)	140	153	182	202	250
Height Overall (mm)	52	55	60	60	63
Length Overall (mm)	235	275	355	395	505
Weight (Approx in Kgs.)	2.3	3.1	5.0	6.5	10.3



APEX CODE NO. 775 & SG 775

Precision Drill Press Vice

FEATURES :

- 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 :

- Ductile Cast Iron Body (Unbreakable).
- Manufactured from close grained cast iron.
- Jaws are hardened & ground.



Technical Specifications

Size in inches	4	6
Width of Jaws (mm)	100	150
Opening of Jaws (mm)	105	170
Depth of Jaws (mm)	35	50
Height Overall (mm)	70	100
Length Overall (mm)	335	440
Width Overall (mm)	200	260
Weight (Approx in Kgs.)	18	22



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG760

Heavy Duty Drill Vice

FEATURES :

- 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)
- Ductile Cast Iron Body (Unbreakable).

Technical Specifications

Size in inches	3	4	6
Width of Jaws (mm)	75	100	150
Opening of Jaws (mm)	80	115	160
Depth of Jaws (mm)	50	65	70
Height Overall (mm)	72	95	119
Length Overall (mm)	235	285	350
Width Overall (mm)	145	185	245
Weight (Approx in Kgs.)	5	9	18



APEX CODE NO. 710 & SG 710

Unigrip Machine Vice

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.
- Ductile Cast Iron Body (Unbreakable).



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 717

Empire Machine Vice

FEATURES :

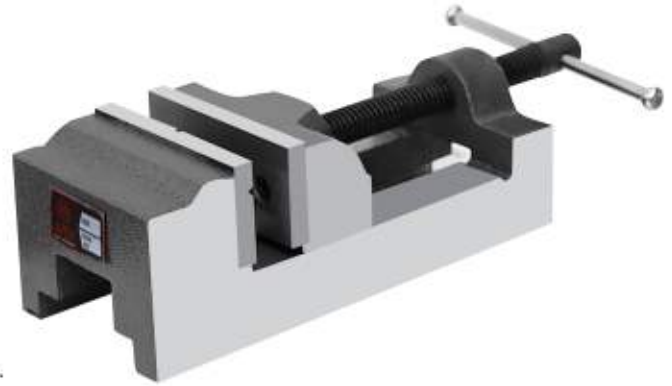
- All the sides of Body are Ground. Perfectly parallel and square to ensure complete alignment of Jaws. They can be used horizontal, Vertical and longitudinal positions.

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.

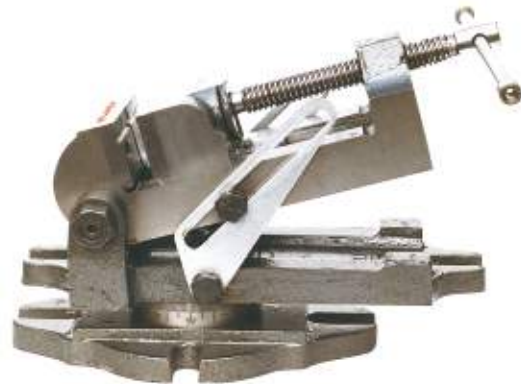
APEX CODE NO. 717A

Empire Angle Machine Vice



APEX CODE NO. 717AS

**Empire Angle Machine Vice
Having Graduated Swivel Base**



Technical 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 (mm)	40	65	75	100	65	75	65	75
Depth of Jaws (mm)	22	30	40	45	30	40	30	40
Opening of Jaws (mm)	35	65	85	100	65	85	65	85
Length Overall (mm)	130	210	235	295	230	275	230	275
Height Overall (mm)	45	60	75	80	85	100	115	130
Width Overall (mm)	40	65	76	102	90	105	110	130
Weight (Approx in Kgs.)	0.8	2.4	4	6.5	4	6	5	7



TABLES & INDEXING DEVICES



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 704

Compound Angle Table (Round Table)

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.



APEX CODE NO. 704R

Compound Angle Table (Rectangular Table)

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.



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 706

Compound Sliding Table
Swivel Graduated Base



APEX CODE NO. 706S

Single Sliding Table
3/8" Cross Slots



FEATURES :

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

Technical Specifications

CODE	706		706S		705D
Size in inches	6 x 6	8 x 8	6 x 6	8 x 8	12 x 8
Table Size (mm)	150 x 150	200 x 200	150 x 150	200 x 200	300 x 200
Height Overall (mm)	102	102	57	62	120
Length Overall (mm)	300	350	300	350	510
Tenon Slot Size (mm)	10	10	10	10	13
Travel Bothways (mm)	100 x 100	125 x 125	Single	Single	200 x 125
Swivel Graduation	360°	360°	-	-	360°
Weight (Approx in Kgs.)	16	18	9	10	35

APEX CODE NO. 705D

Compound Sliding Table
Swivel Graduated Base



Technical Specifications

CODE	732
Size in inches	12 x 6
Table Size (mm)	300 x 150
Height Overall (mm)	115
Length Overall (mm)	440
Tenon Slot Size (mm)	13
Travel Bothways (mm)	200 x 115
Sliding Travel (mm)	-
Swivel Graduation	-
Width of Jaws (mm)	85
Depth of Jaws (mm)	45
Wheel Graduation (inch)	0.001
Weight (Approx in Kgs.)	18

APEX CODE NO. 732

Compound Sliding Table
With Calibrated Wheels

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 707T

Compound Sliding Table

With Calibrated Wheels & Swivel Graduated Base



APEX CODE NO. 707A

Compound Sliding Table

With Calibrated Wheels & Swivel Graduated Base



APEX CODE NO. 711

Vertical Sliding Table

With Calibrated Wheels & Swivel Graduated Base

Code 711 :

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



Technical Specifications

CODE	707T & 707A		
Size in inches	12 x 12	12 x 20	16 x 16
Table Size (mm)	300 x 300	300 x 500	400 x 400
Height Overall (mm)	115	143	143
Length Overall (mm)	510	750	645
Tenon Slot Size (mm)	13	16	16
Travel Bothways (mm)	200 x 200	300 x 400	300 x 300
Sliding Travel (mm)	-	-	-
Swivel Graduation	360°	360°	360°
Width of Jaws (mm)	105	150	150
Depth of Jaws (mm)	45	50	50
Wheel Graduation (inch)	0.002	0.002	0.002
Weight (Approx in Kgs.)	45	95	105

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

Code 708 Jaws : Suitable for Above.

APEX CODE NO. 708J

Jaws for Compound Sliding Table



Technical Specifications

CODE	711
Size in inches	7 x 10
Table Size (mm)	175 x 250
Height Overall (mm)	270
Length Overall (mm)	465
Tenon Slot Size (mm)	13
Travel Bothways (mm)	-
Sliding Travel (mm)	180
Swivel Graduation	180°
Width of Jaws (mm)	-
Depth of Jaws (mm)	-
Wheel Graduation (inch)	0.002
Weight (Approx in Kgs.)	23.5



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 707

Compound Sliding Table
With Calibrated Wheels & Swivel Graduated Base

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

CONSTRUCTION :

- 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.

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.

APEX CODE NO. 708

Compound Sliding Table
With Calibrated Wheels & Swivel Graduated Base



Technical Specifications

CODE	708			708S		707
	6 x 6	8 x 8	10 x 10	6 x 6	8 x 8	12 x 8
Size in inches	6 x 6	8 x 8	10 x 10	6 x 6	8 x 8	12 x 8
Table Size (mm)	150 x 150	200 x 200	250 x 250	150 x 150	200 x 200	300 x 200
Height Overall (mm)	102	102		57	62	120
Length Overall (mm)	300	350		300	350	510
Tenon Slot Size (mm)	10	10		10	10	13
Travel Bothways (mm)	100 x 100	125 x 125		Single	Single	200 x 125
Sliding Travel (mm)	-			-	-	-
Swivel Graduation	360°	360°		-	-	360°
Width of Jaws (mm)	85	85		85	85	105
Depth of Jaws (mm)	45	45		45	45	45
Wheel Graduation (inch)	0.001	0.001		0.001	0.001	0.002
Weight (Approx in Kgs.)	18	19		11	12	40

APEX CODE NO. 708S

Single Sliding Table
With Calibrated Wheels





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 722

Profiling Milling & Slotting Slide

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.

Technical Specifications

CODE	722	722D
Size in Inches	18 x 5	18 x 5
Size of Table (mm)	450 x 125	450 x 125
Length of Stroke (mm)	115	115
Longitudinal Travel (mm)	230	230
Cross Travel (mm)	135	135
Working Area of Table (mm)	400 x 90	400 x 90
Size of T-Slot (mm)	10	10
Height of Centre (mm)	-	75
Between Centre (mm)	-	215
Direct Dividing Plate Division	-	1-30,34,39,46,48
Wheel Calibration (inches)	.001	.001
Height Overall (mm)	140	270
Weight (App. in Kgs.)	33	39

FEATURES :

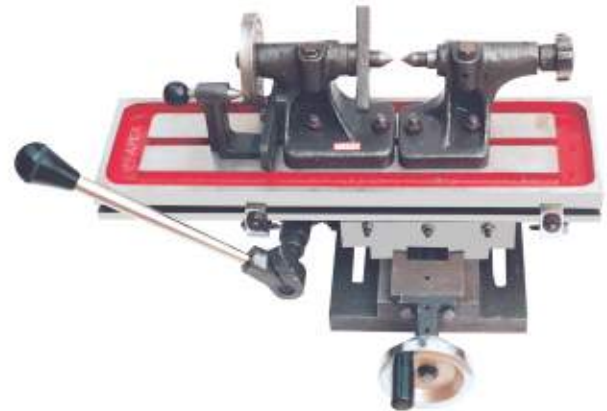
- Use these Vices on your Drilling machines for cutting Keyways, doing light jobs, making milling attachment for your lathe, making cross-sides for your wood lathes and numerous other uses. Vice fits on any Drilling Machine.



APEX CODE NO. 722D

Profiling Milling & Slotting Slide

Having Indexing Dividing Head & Tail Stock



APEX CODE NO. 721

Universal Compound Vice

Technical Specifications

	4	5
Size in inches	4	5
Width of Jaws (mm)	100	125
Depth of Jaws (mm)	55	55
Opening of Jaws (mm)	135	135
Length Overall (mm)	440	440
Height Overall (mm)	170	170
Width Overall (mm)	420	420
Travel Bothways (mm)	175 x 150	175 x 150
Weight (Approx in Kgs.)	17.500	19



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 715

Rotary Milling Table

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

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.

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.



APEX CODE NO. 715E

Rotary Milling Table

Horizontal & Vertical

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

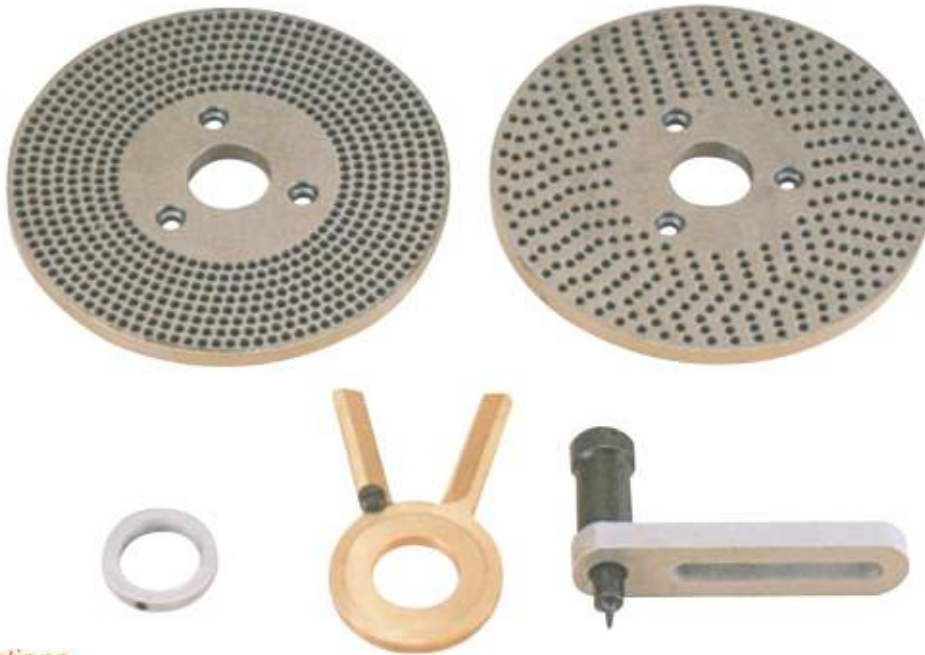
APEX CODE NO. 715H

Indexing Device for Rotary Tables

(For Code 715 & 715E)

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.



Technical Specifications

Size in inches	6	8	10	12	15	18	20
Dia of Table (mm)	150	200	250	300	375	450	500
Tblt T-Slot Size (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 Caliberation (In minutes)	2	2	2	1	1	1	1
Height Overall (mm)	95	105	110	130	135	160	160
715 & 715E - Horizontal							
Height Overall (mm)	240	300	365	425	530	620	620
715E - Vertical							
Base to Centre 715H	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 (Approx in Kgs.) 715	14	23	36	55	95	162	177
Weight (Approx in Kgs.) 715E	16	27	42	65	100	175	187
Weight (Approx in Kgs.) 715H	2.5	2.5	2.5	3.5	3.5	3.5	3.5

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG 770

Collet Fixture

(For Traub A-25 & A-42 & Herbert 2-D Collets)

FEATURES :

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

CONSTRUCTION :

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



Technical Specifications

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

APEX CODE NO. 765

Tilting Indexing Device

Having 3 Jaws Chuck Mounting



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.

APPLICATION :

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



Technical Specifications

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

Note : The above data is subject to change without notice due to our continuing product improvement program.

APEX CODE NO. 766

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

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.



APEX CODE NO. 767

Indexing Collet Fixture
Having 3 Jaws Chuck Mounting

FEATURES :

- This is similar to Code 766 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.



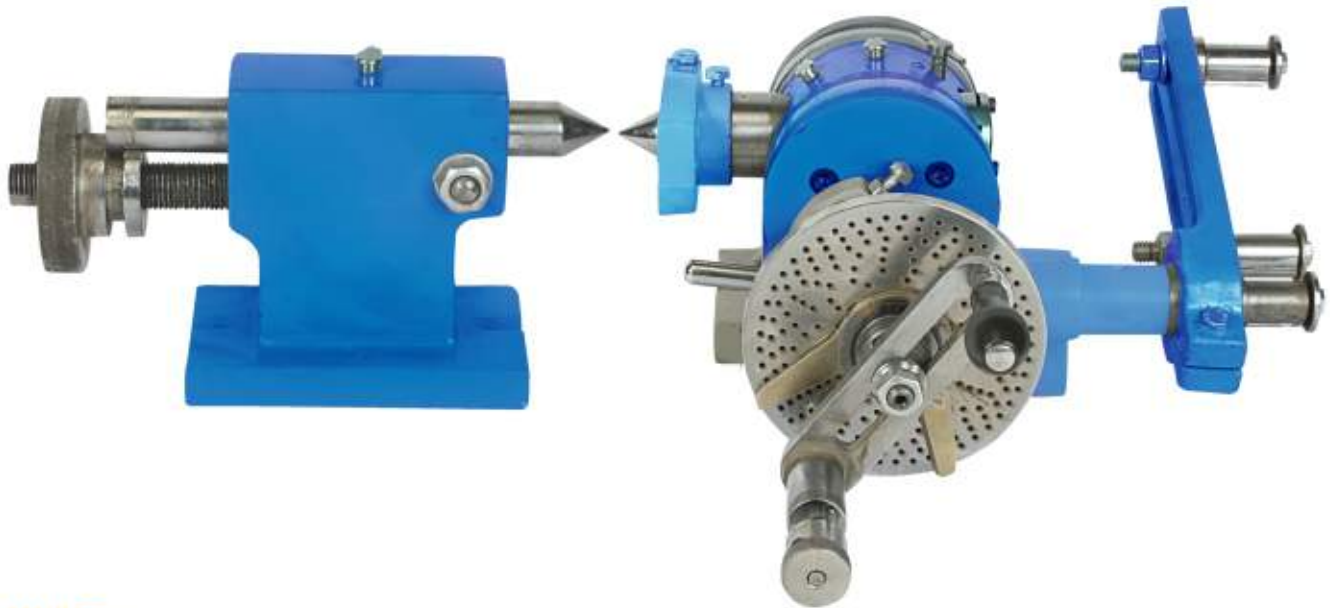
Technical Specifications

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



APEX CODE NO. 768

Universal Dividing Head



FEATURES :

- Dividing head can divide in any angle by the direct, in-direct, or differend methods. The ratio between the worm and the worm gear is 1:40.
- Dividing Head are designed for Tool Room as well as the production purpose.
- Accurate, recision, little backlash, fine appearance and strong structure so can assure smooth rotation.

Technical Specification

Center Height	115mm	127mm	140mm	165mm	190mm
Worm Gear Ratio	1:40	1:40	1:40	1:40	1:40
Spindle Bore Size in mm	20	20	32	38 to 75	55 to 75
Spindle Taper Degree	9	9	9	9	9
Overall Height Vertical Position in mm	215	225	265	325	36
Length of Base in mm	175	175	240	265	29
Width of Base in mm	150	150	175	215	232
Gear Set D.P.	14	14	14	12	12
Number of Indexing	Side A - 11,16,19,25,37,41,49 Side B - 13,17,18,27,33,43,51			Side A - 7,13,16,19,20,23,27,31,33,39,47,53 Side B - 9,11,15,17,18,21,29,37,41,49,51	
Weight (in Kgs.)	45	50	66	95	115
Set of Gears	24,24,28,32,36,40,44,48,56,64,72,86,100				



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 783

Indexing Milling Fixture - Horizontal & Vertical **With Chuck & Tail Stock**



FEATURES :

- Entire range of horizontal, vertical indexing milling operations can be done with our range of products.
- Job Clamping is fast, indexing is quick thereby increasing production efficiency.
- Indexing Fixture models covers the advantage of conventional Dividing Head and Rotary Table put together.
- Movable Parts are Hardened & Ground for long life.
- Indexing accuracy is precise and products can be used on SURFACE GRINDER also.
- Tail Stock with lead screw movement is provided for center support of Long shaft /Jobs.
- Tail Stock Center is sliding in hardened and accurately ground bushes.
- In most models, 24 indexing positions are provided.
- There is also a graduated collar with 1 deg least count which facilitates odd degree indexing also.

Technical Specification

Sr. No.	Model No.	Length (mm)	Width (mm)	Height (mm)	Std. Indexing Positions	Approx. Weight (kg)	Center Height	Chuck Details	Indexing Accuracy
1	IMF H/V 080	200	110	185	24	24	85	With 80 mm 3 jaws chuck	0.03 15 s
2	IMF H/V 100	200	110	185	24	25	85	With 100 mm 3 jaws chuck	0.03 15 s
3	IMF H/V 125	200	110	185	24	30	85	With 125 mm 3 jaws chuck	0.03 15 s
4	IMF H/V 160	225	140	240	24	45	120	With 160 mm 3 jaws chuck	0.03 15 s
5	IMF H/V 200	225	140	240	24	50	140	With 200 mm 3 jaws chuck	0.03 15 s



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 723

Tilting Table

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.



APEX CODE NO. 723S

Tilting Table

(Swivel Base)

FEATURES :

- 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.



Technical Specifications

Size in inches	5 x 7	7 x 10	10 x 15
Size of Table (mm)	125 x 175	175 x 250	250 x 375
Height Overall (mm) 723	98	135	174
Height Overall (mm) 723S	135	180	225
Width Overall (mm)	230	320	470
Length Overall (mm)	315	410	560
T-Slot Size (mm)	13	16	16
Calibration 723	0 to 90°	0 to 90°	0 to 90°
Swivel Graduation 723S	360°	360°	360°
Weight (Approx in Kgs.) 723	9	22	45
Weight (Approx in Kgs.) 723S	14	35	84



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 750

Swivel Angle Table

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.



Technical Specifications

Size in inches	5 x 6	6 x 8	8 x 10	10 x 12	12 x 15
Size of Table (mm)	125 x 150	150 x 200	200 x 250	250 x 300	300 x 375
Overall Height (mm)	110	130	165	210	230
Tenon Slot Size (mm)	13	13	13	16	16
Weight (Approx in Kgs.)	6.50	11.50	23	42	70

APEX CODE NO. 751 & 752

Angle Plates

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.

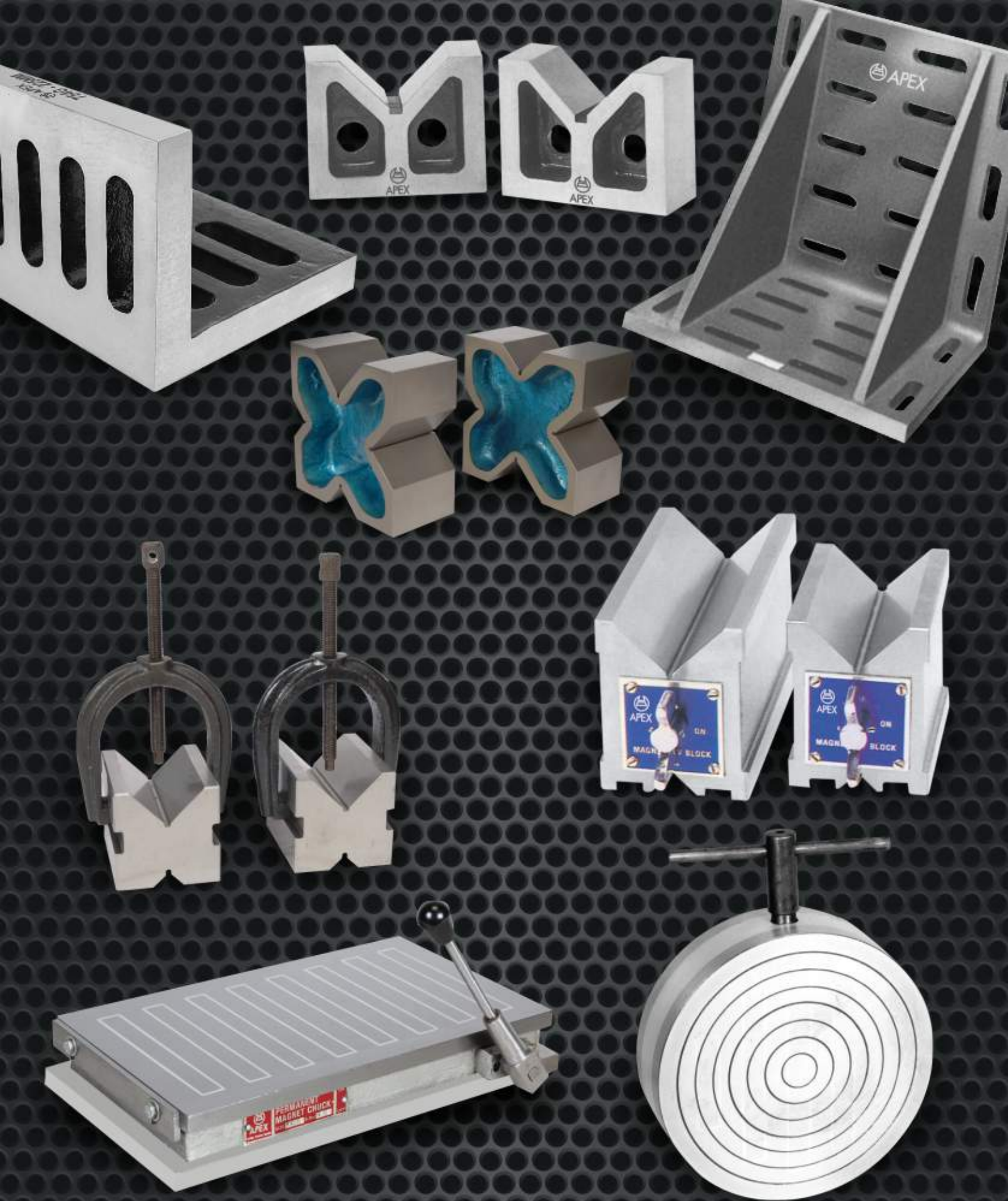
Code 751 : Machined

Code 752 : Precision Ground



Technical Specifications

CODE 751	CODE 752	Size in inches	Weight (App. in Kgs.)
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



ANGLE PLATES & MAGNETIC CHUCKS



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 753 & 753G

Slotted Angle Plates

Webbed End

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.
- These are provided with convenient clamping slots for mounting and are widely used for machining lay out and inspection.
- Supplied in two types webbed end have side webs & an open end.

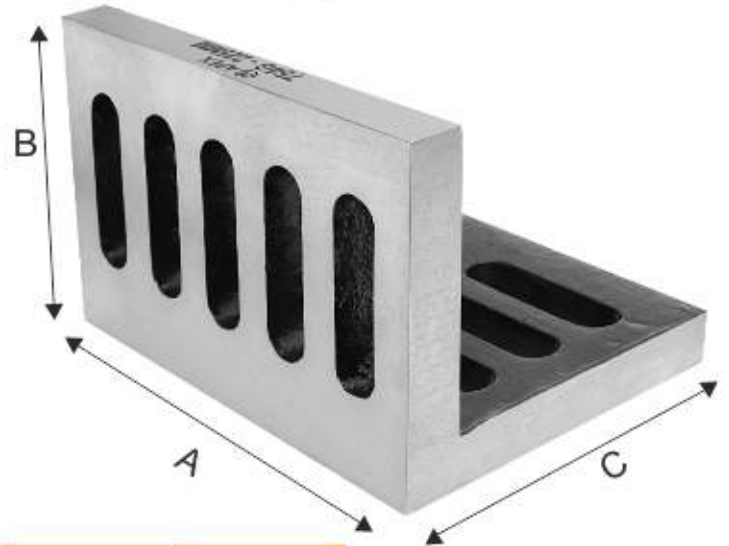
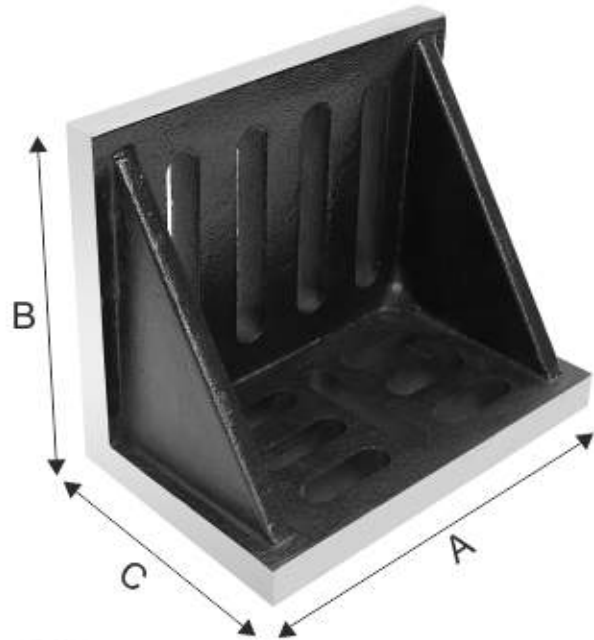
Code 753 & 754 : Machined

Code 753G & 754G : Precision Ground

APEX CODE NO. 754 & 754G

Slotted Angle Plates

Open End



Technical Specifications

CODE 753	CODE 754	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[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 755

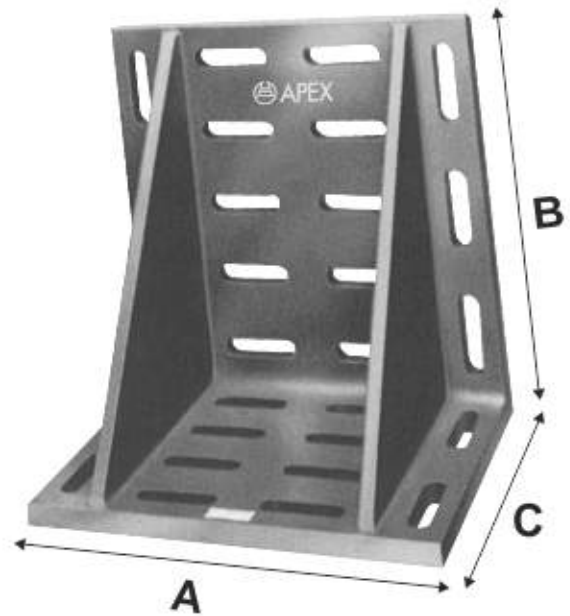
Giant Slotted Angle Plates Machined

FEATURES :

- Machined on outside faces and with cored slots arranged for maximum clamping versatility.
- APEX 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.

Technical Specifications

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



APEX CODE NO. 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)



Technical Specifications

Size in inches	Size in mm	Thread Spec. of Tapped Holes
3 x 3 x 3	75 x 75 x 75	1/4" BSW
4 x 4 x 4	100 x 100 x 100	5/16" BSW



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 756
C.I Vee Blocks
Machined

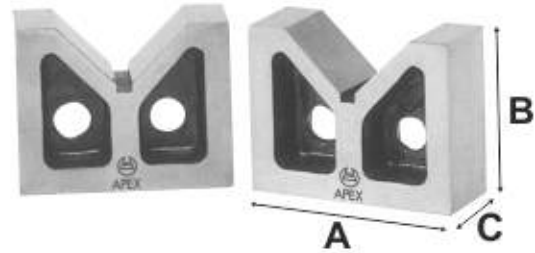
FEATURES :

- 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.

APEX CODE NO. 756G
C.I Vee Blocks
Precision Ground

Technical Specifications - 756

CODE	Width in mm 'A'	Height in mm 'B'	Thickness in mm 'C'	Weight (in Kgs.) 756
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



Technical 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 NO. 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.



Technical Specifications

CODE	Block Length (mm)	Block Width (mm)	Block Height (mm)	Clamping Capacity
780	90	48	48	33



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 769

Magnetic Vee Blocks Soft (Pair)

APEX CODE NO. 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.



Technical Specifications

CODE	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 NO. 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)

Technical Specifications

CODE	Width in mm	Height in mm	Length 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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 779

Tool Maker's Vee Block & Clamping Sets - Precision

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.



Technical Specifications

CODE	Block Length (mm)	Block Width (mm)	Block Height (mm)	Width Small Vee (mm)	Width Large Vee (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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 743F

Permanent Magnetic Chucks

**Circular
Close Pole**

Technical Specifications

Size in inches	6	8	9	10	12	14	18	24
Dia of Table (mm)	150	200	225	250	300	350	450	600
No. of Poles	6	6	6	7	9	11	12	16
Working Area of Table	110	170	180	200	250	300	390	525
Weight (Approx in Kgs.)	7	14	15	19	26	45	75	115



APEX CODE NO. 742F & 742T

Permanent Magnetic Chucks

**Rectangular
Fine (Close) Pole**

FEATURES :

- Fine (close) Pole Pitch For High clamping.
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.

742T : Through Pole Pitch For High clamping.



742F



742T

Technical Specifications

Size in inches	4x6	4x8	5x10	6x10	6x12	6x14	6x18	6x24	8x12	8x14	8x16	8x18	8x24	10x24	12x24
Width of Table (mm)	100	100	125	150	150	150	150	150	200	200	150	200	200	250	300
Length of Table (in mm)	150	200	250	250	300	350	450	600	300	350	400	450	600	600	600
No. of Poles	4	6	7	7	9	11	12	16	9	10	12	14	18	18	18
Working Area of Table	70x100	70x150	95x175	115x175	115x240	115x295	115x375	115x515	165x225	165x295	115x375	165x375	165x515	205x515	255x515
Weight (Approx in Kgs.)	7	9	13	15	18	22	30	36	24	30	32	36	53	66	80



APEX CODE NO. 764

**Dial Comparator Stand
Supplied Without Dial Gauge**

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.

APEX CODE NO. 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.



Technical Specifications

CODE	Throat Depth mm	Measuring Range (mm)	Fine Adjustment mm	Pillar Dia mm	Weight (in Kgs.) 756
764-3	75	120	3	25	3.250
764-8	60	90	-	25	3.350
764-5	45	30	-	-	2.250



Technical Specifications

Base Dia (mm)	110
Height (mm)	100
Weight (Approx. in Kgs.)	1.500



BENCH VICES



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX Code No. SG 714 & SG 714S

Machinist Bench Vice

**Fixed & Swivel Base
Unbreakable S.G. Iron Body**

CONSTRUCTION :

- Stressed Parts "Beefed - up" ! Areas of greatest stress have been strengthened with shock resisting Ductile Cast Iron (Unbreakable) Casting for long dependable service.
- The Large Diameter main screw fine pitched,
- Square Thread made of high grade steel.
- Long Steel Floating Detachable and replaceable nut. Replaceable hardened steel serrated jaw plates guarantee a fast non-slip grip.

FEATURES :

- Massive Anvil: More Anvil Area than before and the largest of any Machinist Bench Vice in the market.
- Precision machine component & bearing surface for smooth operation and reliability.



Technical Specifications

No.	1	3	4	5	6	8	10	12	16
Size in inches	3	4	4-1/2	5	6	8	10	12	16
Width of Jaws (mm)	75	100	115	125	150	200	250	300	400
Opening of Jaws (mm)	85	130	135	150	175	225	255	310	400
Depth of Jaws (mm)	60	75	75	80	85	115	110	130	150
Weight (Approx in Kgs.) 714	5	10	11	15	18	26	42	54	75
Weight (Approx in Kgs.) 714S	6	11.3	12.5	16.5	19.5	31	45	56	-

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG734 & SG734S

Cross Rib Bench Vice

Fixed & Swivel Base

Unbreakable S.G. Iron Body



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.
- Long Steel Floating Detachable and replaceable nut.
- Warning: These vices are designed for gripping / holding jobs and should not be used where heavy hammering is anticipated.
- Ductile Cast Iron Body (Unbreakable).

Technical Specifications

Size in inches	3	4	5	6	8
Width of Jaws (mm)	75	100	125	150	200
Opening of Jaws (mm)	85	100	130	155	200
Depth of Jaws (mm)	50	60	70	85	100
Weight (Approx in Kgs.) 757	4.9	8.3	12.5	20	31
Weight (Approx in Kgs.) 757S	6.5	10.3	15.5	25	39



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 740 & 740S

Heavy Duty Bench Vice Deluxe (Double Rib)

Fixed & Swivel Base

FEATURES :

- Industry's favorite Mechanic's Bench Vices for 65 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.
- It is heavy duty & the slide is provided with double ribs to ensure long life accuracy.



CONSTRUCTION :

- Stressed Parts "Beefed - up" ! Areas of greatest stress have been strengthened with shock resisting S.G.I. casting for long dependable service.
- The large Diameter main screw fine pitched, square thread made of high grade steel.
- Long Steel Floating Detachable and replaceable nut.
- Replaceable hardened steel serrated jaw plates 25-30 HRC guarantee a fast non-slip grip.



Technical 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 (mm)	80	90	100	115	125	150	200
Opening of Jaws (mm)	90	100	120	140	170	200	235
Depth of Jaws (mm)	55	60	70	80	85	90	110
Weight (Approx in Kgs.) 740	7	11	16	20	23	30	44
Weight (Approx in Kgs.) 740S	10.4	13.3	20	23	28	36	56

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 741 & 741S

Mechanic's Bench Vice

Fixed & Swivel Base

FEATURES :

- Industry's favorite Mechanic's Bench Vices for 65 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 S.G.I. casting for long dependable service.
- The large Diameter main screw fine pitched, square thread made of high grade steel.
- Long Steel Floating Detachable and replaceable nut.
- Replaceable hardened steel serrated jaw plates 25-30 HRC guarantee a fast non-slip grip.



Technical 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 (mm)	60	65	80	90	100	115	125	150	200	250	300
Opening of Jaws (mm)	60	65	90	100	120	140	170	200	235	300	365
Depth of Jaws (mm)	45	50	55	60	70	80	85	90	110	120	140
Weight (Approx in Kgs.) 741	3.7	4.4	6	8.5	15	16	20	25	40	70	79
Weight (Approx in Kgs.) 741S	--	5.9	8.3	10.9	18	19	24.2	30	48	--	--

Note : The above data is subject to change without notice due to our continuing product improvement program.



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 746

Machinist's Bench Vice

As Per IS 2586:1986

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.



Technical Specifications

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

APEX CODE NO. 739

Quick Action Bench Vice

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.



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 757 & 757S

Tool Maker's Bench Vice

Fixed & Swivel Base



FEATURES :

- The whole mechanism is designed for safety in depth so that the handle will bend before the body is overstressed. A margin of safety which we build into every Apex Vice.
- **757S:** Swivel base rotates 360° can firmly be locked at any point.

CONSTRUCTION :

- Nut : bronze Acme Thread.

Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 759 & 759S
All Steel Bench Vice
Fixed & Swivel Base

FEATURES :

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

Technical Specifications

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



APEX CODE NO. 744
Engineer's Vice

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 performance.
- Jaws Hardened & Grong with "v" Grooves :The grip is much more rigid with less torque at handle lever.



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 718

Table Vice

FEATURES :

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

APPLICATION :

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

Technical Specifications

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



APEX CODE NO. 733 & 733s

Table Vice With Clamp

**Deluxe Model
Fixed & Swivel Base**



Technical Specifications

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



PIPE VICES & OTHERS



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. SG 787

Multipurpose Vice

Ductile Cast Iron Body (Unbreakable)



Technical Specifications

Material Type	Tensile Strength (PSI)	Overall Weight	Jaws Type	Jaws Hardness	Jaws Width (inches)	Total Jaws Opening (inch)	Throat Depth inches	Clamping Pressure in Ton	Vice Screw Threading Type	Paint Process	Slide Round Movement	Swivel Base Movement
SGI 400/12	80000	18.6 Kgs.	Hardened Jaws	45-50 HRC	5"	4.1/2"	3.1/4"	1.5	20mm x 15.1/2" (4tpi Acme Type)	180 Degree Heat Cross Hetch Test	Adjustable Fixed Screw & 360 degree movement	360 Degree

APEX CODE NO. 728S

Fabricated Steel Pipe Vice

(Open Type)

CODE	Size in mm	Size in inches
728S-2	50	2
728S-3	75	3
728S-4	100	4



APEX CODE NO. 789

Clamp Vice

(For Hand Pump)
M.S. Steel Body

CODE	Size in mm	Size in inches
789-2	50	2
789-3	75	3





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 716 & 716S

Table Vice
Fixed & Swivel Base

FEATURES :

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

Technical Specifications

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



APEX CODE NO. 726
Hand Vice Steel

APEX CODE NO. 727
Draw Vice Steel

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.

Technical Specifications

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 729

Chain Pipe Vice

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 :

- Ductile Cast Iron Body (Unbreakable).

Technical Specifications

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



APEX CODE NO. SG731

Hinged Pipe Vice

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 located 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 :

- Ductile Cast Iron Body (Unbreakable).
- 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.

Technical Specifications

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





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 728

Pipe Vice (Open Type)

APEX CODE NO. SG 728

Pipe Vice (Open Type)

Unbreakable S.G. Iron Body

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 material or workmanship.

CONSTRUCTION :

- Ductile Cast Iron Body (Unbreakable).
- Frame & Jaws are made of shock resisting cast iron.
- Main screw is made of high grade steel.

Technical Specifications

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



APEX CODE NO. 747

**All Steel Pipe Vice
Square Pillar**

APEX CODE NO. 747R

**All Steel Pipe Vice
Round Pillar**

FEATURES :

- The moveable jaw is running into square steel bars.
- **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.

CONSTRUCTION :

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



CODE 747



CODE 747R

Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 737 **Wood Working Vice**

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 piece 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.



APEX CODE NO. 737QR **Quick Release Wood Working Vice**

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.





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 738

Wood Worker's Vice With Front Dog

FEATURES :

- Vices are equipped with an adjustable front dog which
- when used in conjunction with a bench stop allows oversized work pieces 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.



APEX CODE NO. 738QR

Quick Release Wood Worker's Vice

FEATURES :

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



APEX CODE NO. 758

Economy Wood Worker's Vice

FEATURES :

- 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.



Technical Specifications

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



APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 501
Bearing Puller - 3 Legs
APEX CODE NO. 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.



Technical Specifications

Size in inches	3	4	6	8	10	12
Weight (Approx in Kgs.) 501	0.490	0.775	1.100	1.350	2.400	3.000
Weight (Approx in Kgs.) 501A	0.325	0.525	1.000	1.200	2.000	2.500

APEX CODE NO. 501 PC
Bearing Puller D/F 3 Legs
Double Hole Powder Coated

Technical Specifications

Size in inches	3	4	6	8
Size in mm	75	100	150	200



APEX CODE NO. 501 H
Bearing Puller 3 Legs
Hand Forged Steel

Technical Specifications

Size in inches	14	16	18	20	22	24
Size in mm	350	400	450	500	550	600



APEX CODE NO. 501 AH
Bearing Puller 2 Legs
Hand Forged Steel

Technical Specifications

Size in inches	14	16	18	20	22	24
Size in mm	350	400	450	500	550	600





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS

APEX CODE NO. 502
G Clamp Malleable

FEATURES :

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



Technical Specifications

Size in inches	2	3	4	5	6	8	10	12
Weight (Approx in Kgs.)	0.310	0.490	1.000	0.825	1.200	1.700	2.700	3.500

APEX CODE NO. 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.



Technical Specifications

Size in inches	2	3	4	6	8	10	12
Weight (Approx in Kgs.)	0.320	0.620	1.000	1.700	2.700	4.000	5.000

APEX CODE NO. 504
Adjustable Tap Wrench
Auto Black Drop Forged
Carbon Steel Hardened & Tempered

FEATURES :

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



Technical Specifications

Size in inches	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
Weight (Approx in Kgs.)	0.125	0.135	0.310	0.600	1.100	1.200	3.500	4.000

APEX CODE NO. 505
Armature Bearing
Puller Vice

CODE	Size in mm	Size in inches	Weight (in Kgs.)
505-3	75	3	3.600





APEX[®]
SINCE 1959

APEX improves man's & machine's ability
WORK HOLDING EQUIPMENTS



APEX CODE NO. 506
Anvil

CODE	Weight in Kgs.	CODE	Weight in Kgs.
506-1	1 Kgs.	506-8	30 Kgs.
506-2	2 Kgs.	506-9	40 Kgs.
506-3	5 Kgs.	506-10	50 Kgs.
506-4	10 Kgs.	506-11	60 Kgs.
506-5	15 Kgs.	506-12	70 Kgs.
506-6	20 Kgs.	506-13	75 Kgs.
506-7	25 Kgs.	506-14	100 Kgs.



APEX CODE NO. 507
Drill Sleeves
Workshop Grade

CODE	M.T. No.	CODE	M.T. No.
507-1	0-1	507-9	4-2
507-2	2-1	507-10	5-1
507-3	3-2	507-11	5-2
507-4	4-3	507-12	5-3
507-5	5-4	507-13	6-2
507-6	6-5	507-14	6-3
507-7	3-1	507-15	6-4
507-8	4-1		



APEX CODE NO. 508
Drill Chuck with Key

CODE	Size in inches
508	1/2"



APEX[®]

S I N C E 1 9 5 9

An ISO 9001-2015 Company



APEX INDUSTRIES

Khewat No. 106, Randhawa Masanda
Road Gadaipur, Jalandhar-144 004
Punjab (INDIA)

+91-98143-00531
+91-94639-00531

info@apexmachinevices.com
apex1959@gmail.com

www.apexvices.com
www.apexmachinevices.com



follow us on
www.facebook.com/apexvices