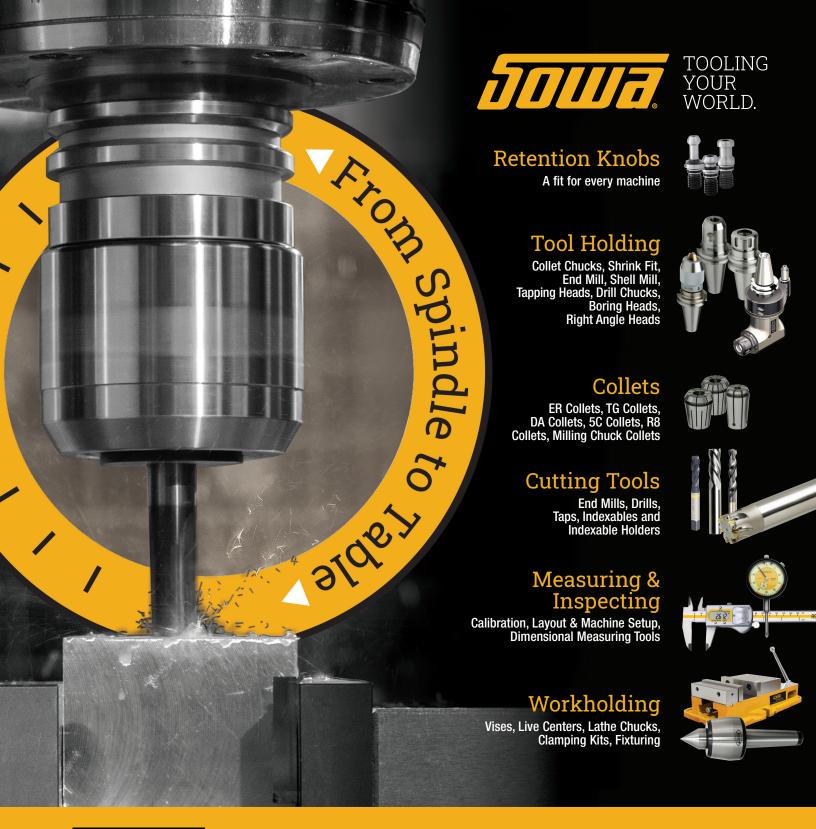


Workholding



4" & 6" Vises										4-5
8" Vises										5
Modular Vises										5-6
Parts & Accessories										6
Double Clamp Vises										7
Jaws										8
Modular Vises for 5-A	∖xi	s	Mί	ac	hi	ne	S			9
Risers										10





Explore all of our rotary tooling systems.

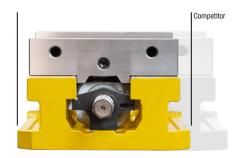
Sowa Tool offers a large SKU offering of a wide range of quality rotary tooling: End Mill Holders, Collet Chucks & Collets, Shell Mill & Face Mill Holders, Shrink Fit Holders, Tap Holders, Driven Tooling & Angle Heads.





With the GS100G 4" Precision Milling Machine Vise, a smaller version of the 6" Vise we know you love.

10 YEAR WARRANTY



NARROW BODY STYLE*
to allow more vises on a machine table.
*compared to the competition



A larger, more durable **BEARING PACK** that does not protrude from the end of the vise body.



HOLD DOWN BOLT HOLES

allow for easy side by side mounting of multiple vises on a table.



MATCHED BED HEIGHTS within ±0.0005" allow for multiple vises to be easily used in parallel.

GS100G 4" & GS160G 6" Precision Milling Machine Vises

- stable workholding system that is stronger under pressure.
- · A new brush seal design keeps debris from penetrating the nut due to a more efficient chip evacuation system through both the body and ends of the vise, while not compromising on the strength of the body.
- Larger, more durable bearing pack engineered to deliver a highly Spherical Segment creates an all directional alignment and reduces jaw lift of the movable jaw, while the 4-bolt design of the fixed jaw enables stable clamping.
 - Reduced stress on body as a result of the pull-type design features also includes a spindle nut that does not protrude past the end of the body during clamping.

Newly redesigned, **GS TOOLING GS100G &** GS160G Vises

are packed with industry-leading



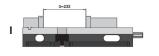
	Part Description	GS100G Code No.	GS160G Code No.
	#2 Main Screw	327321	327322
	#4 Sliding Spindle Nut	327323	327324
	#5 Movable Jaw	327325	327326
	#6 Fixed Jaw	327327	327328
	#7 Jaw Plate (2pcs)	327329	327330
	Repair Kit - Consists of #8 segment, #20 bearing, #21 o-ring, 2pc #10 brush, 2pc #19 c-clip	327331	327332
	Handle Assembly - Consists of #11 socket, #12 bar, #13 pin	327333	327334
	#14 Slide Cover (Back)	327335	327336
R	#14 Slide Cover (Front)	-	327338
Y	#16 Bolt for Jaw Plate (Piece)	327339	327340
	#17 Bolt (Long) for Fixed Jaw	327341	327342

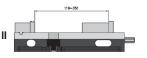
(Inch) F Т C D Ε G Н ī Κ L N 0 U Code No. Model M Weight GS100G 125 3 37 2 25 1 75 0.55 0.5 1 24 0.55 0.69 2.5 30 86lbs 327319 5 4 137 1 14 2 56 3 1 6.5 GS160G 16.8 7.3 6 18.4 4.37 1.54 3.56 2.875 2.31 0.725 0.725 4 1.75 0.75 9.1 0.94 3.875 68.34lbs 327320

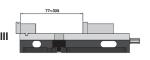
10 YEA

WARRAN

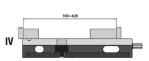
Capacity







#18 Bolt (Short) for Fixed Jaw



327343

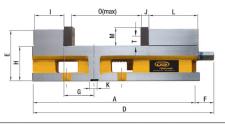
327344

GS100G	6.5"	3.65~10.18"	2.3~8.83"	5.95~12.48"
u3100u	166mm	92.7~250.7mm	58.45~224.45mm	151.15~317.15mm
GS160G	0~9.1"	4.68~13.82"	3.03~12.16"	7.72~16.85"
u3100u	0~232mm	119~351mm	77~309mm	196~428mm

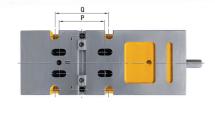
GSV60 6" Versatile Vise

- 6" vise with 6-1/2" opening
- · High accuracy vise for single station CNC centres specially designed to prevent workpiece lift
- 2 operating positions for Vertical Machine Centres: Upright & Lay Down
- 1 operating position for Horizontal Machine Centres: Horizontal
- Bed height: 81mm ±0.012mm (3.189" ±0.0005")
- Material: FCD-60
- Weight: 68lbs / 31kq

LIFETIME WARRANTY!







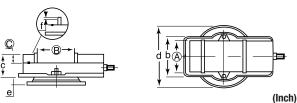
Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	T	U	Weight	Code No.
385	152.45	151	431.8	118.7	46.8	69.84	81	69.9	18	18	114.3	44.5	19	163	107.95	127	127	23.8	98.4	31kg	382620

GS675 6" Precision Milling Machine Vise



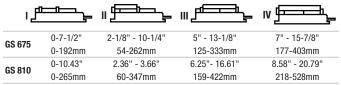
- Vises are matched (Bed Height: 2.875")
- $\bullet\,$ An integral key and large fasteners reduce deflection by 50%
- 4-jaw plate positions allow extra capacity with the jaw plates in the outside position
- The swivel base is graduated 360° in one degree increments
- Chip cover protects leadscrew from damage
- The quality movable jaw does not lift off the bed, and the deflection of the stationary jaw is minimized





Model	Jaw Width A	Jaw Open B	С	0.A.L.	b	С	d	е	f	Plain Ship Wt	Code No.
GS675	6	7.5	1.77	17.2	9.13	4.6	12	1.65	0.39	80lbs	327275M
Jaw Plate	s (2pcs)										327330
Swivel Ba	se Only										327280
Replacem	ent Hand	le									327334
Main Scre	w, Collar	& Collar	Set Sc	rew for	GS675						327284
Chip Cove	r										327338
Vise Nut fo	or GS675										327288
Jaw Plate	Screws (4pcs)									327286
Ball Beari	ng Thrust	Collar									327292

Capacity



GS810 8" Precision Milling Machine Vise



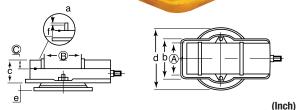


 4-jaw plate positions allow extra capacity with the jaw plates in the outside position

• The swivel base is graduated 360° in one degree increments

 Chip cover protects leadscrew from damage

 The other quality movable jaw does not lift off the bed, and the deflection of the stationary jaw is minimized



Model	Jaw Width A	Jaw Open B	С	0.A.L.	b	С	d	е	f	Plain Ship Wt	Code No.
GS810	8	10.0	2.25	21.8	11.62	5.55	15.0	1.85	0.43	158lbs	327300
Swivel B	ase Only										327310
Jaw Plat	es										327311
Replacer	ment Har	ndle									327305

GS Plain Base Modular Vises



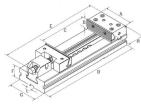
Manufactured under rigid quality control. As a result of the high standard construction, GS Vises can be depended upon to maintain their accuracy under the most severe operating conditions. The modular design and the concept of interchangeability makes possible a wide variety of set up combinations.

- · High accuracy
- · Unlimited clamping range
- High quality alloy steel
- High clamping pressure
- No jaw lift
- · All vises are matched



Model	Jaw Width (A)	Opening (C)	Jaw Height (B)	Code No.
1	4	4	1.2	382005
2	5	6	1.6	382010
3	6	8	1.97	382015
3	6	12	1.97	382017
4	7	8	2.4	382020
4	7	12	2.4	382025
4	7	16	2.4	382030
4	7	20	2.4	382032
5	8	8	2.6	382035
5	8	12	2.6	382040
5	8	16	2.6	382045
5	8	20	2.6	382050
5	8	24	2.6	382052
6	12	8	3.2	382055
6	12	12	3.2	382060
6	12	16	3.2	382065
6	12	20	3.2	382070
6	12	24	3.2	382075
6	12	28	3.2	382080
6	12	32	3.2	382085

Modular Vise Specs



(Inch)

								,
Vise Size	Code No.	D	Е	F	G	Н	ı	Kgs
4 x 4	382005	10.63	12.5	1.378	2.95	3.07	0.628	6.8
5 x 6	382010	13.583	16.4	1.575	3.8	3.04	0.64	12.9
6 x 6	382015	16.535	20.86	1.968	4.92	3.574	0.64	25.5
6 x 12	382017	20.472	20.86	1.968	4.92	3.574	0.64	29
7 x 8	382020	17.913	24.80	2.283	5.8	3.876	0.64	37
7 x 12	382025	21.85	24.80	2.283	5.8	3.876	0.64	42
7 x 16	382030	25.787	24.80	2.283	5.8	3.876	0.64	47
7 x 20	382032	29.724	24.80	2.283	5.8	3.876	0.64	52
8 x 8	382035	19.488	28.74	2.756	6.8	4.536	0.64	64
8 x 12	382040	23.425	28.74	2.756	6.8	4.536	0.64	69
8 x 16	382045	27.362	28.74	2.756	6.8	4.536	0.64	74
8 x 20	382050	31.299	28.74	2.756	6.8	4.536	0.64	79
8 x 24	382052	35.236	28.74	2.756	6.8	4.536	0.64	84
12 x 8	382055	21.063	32.67	3.07	7.67	4.74	0.64	95
12 x 12	382060	25.000	32.67	3.07	7.67	4.74	0.64	105
12 x 16	382065	28.937	32.67	3.07	7.67	4.74	0.64	115
12 x 20	382070	32.874	32.67	3.07	7.67	4.74	0.64	125
12 x 24	382075	36.811	32.67	3.07	7.67	4.74	0.64	135
12 x 28	382080	40.748	32.67	3.07	7.67	4.74	0.64	145
12 x 32	382085	44.685	32.67	3.07	7.67	4.74	0.64	155

Parts For GS 8" Precision Milling Machine Vises



Description	Code No.
Main Screw, Collar & Collar Set Screw	327306
Ball Bearing Thrust Collar	327292
Needle Bearing Thrust Collar	327307
Chip Cover	327308
Vise Nut	327309
Jaw Plate Screws (4pcs)	327312

Workholding, Clamping & Fixturing

Parts & Accessories For GS Modular Vises











Mechanical Blocking Device

Swivel Base

Extension Base

Moveable Jaw Section and Base

Fixed Jaw Section and Base

Part Description	#1 Code No.	#2 Code No.	#3 Code No.	#4 Code No.	#5 Code No.	#6 Code No.
Swivel Base	382380	382385	382390	382395	382400	382405
Extension Base	382260	382265	382270	382275	382280	382285
Mechanical Blocking Device	382470	382475	382480	382485	382490	382495
Moveable Jaw	382412	382417	382422	382427	382432	382437
Fixed Jaw	382410	382415	382420	382425	382430	382435
Main Screw	382850	382852	382854	382856	382859	382860
T-Wrench	382820	382822	382824	382826	382828	382830
Box Wrench	382874	382876	382878	382880	382882	382884
Vise Holding Jaws (Pair)	382685	382690	382695	382700	382705	382710
Positioning Keys	382655	382660	382665	382670	382675	382680
Work Stop	382770	382775	382780	382785	382790	382795
Jaw Plate for Fixed Jaw	382862	382864	382866	382868	382870	382872
Jaw Plate for Moveable Jaw	382863	382865	382867	382869	382871	382873
Lock Screw for Blocking Device	382471	382476	382481	382486	382491	382496
	M6x1 x 25mm	M12x1 x 25mm	M14x2 x 35mm	M12x1.75 x 40mm	M20x2.5 x 60mm	M20x2.5mm x 50mm
	382472		382482			
	M8x1.25 x 25mm		M12x1.75 x 30mm			
Chrome Locking Ball for	382473					
Blocking Device	9/16" dia.					
Pre-Assembled Groups						
Overall Length	5.5"	6.30"	9"	10"	12"	13.75"
Leadscrew Overhang	2.08"	2.3"	2.8"	2.0"	3"	2.16"
Moveable Jaw Section and Base Assembly	382290	382295	382300	382305	382310	382315

Prismatic Jaws





Model No.	Code No.
#3	382890
#4	382892
#5	382894

Modular Vise w/ Quick Interchangeable Pulldown Jaws





No tools needed for quick hand change of downward jaw plates



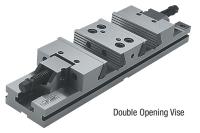


Description	Code No.
6 x 8 Modular Vise	382896
Pair Soft Jaws	382897

GS Modular Vises — **Single & Double Opening**



- High accuracy
- No length limitations
- Unlimited clamping range
- No jaw lift
- High quality alloy steel
- Low profile
- High clamping pressure
- All vises are matched
- Mechanical and pneumohydraulic blocking devices
- Extra long base



Model	Opening	0.A.L.	Jaw Width	Weight (kg)	Code No.
Single Openin	g Modular Vise				
1	11.4	18	4	10	382101
2	12.6	20.5	5	17	382102
3	14.7	23	6	31	382103
3	18.11	27	6	34	382104
4	16	26	7	46	382105
4	20	30	7	51	382106
5	24	36	8	92	382110
Double Openir	ng Modular Vise				
3	2 x 4.3	23	6	38	382153
3	2 x 6.3	27	6	41	382154
4	2 x 6.7	30	7	63	382156
5	2 x 10	40	8	107	382172
6	2 x 6.3	35	12	154	382175
6	2 x 16	55	12	194	382180

Double Clamp Vise

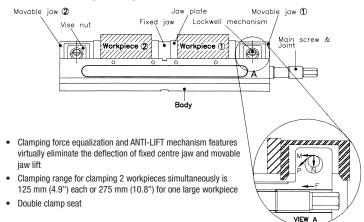
- Double clamp set one handle can simultaneously operate two moveable jaws and clamps 2 workpieces of same or different size or one large workpiece
- This model can increase efficiency and productivity of CNC machines
- The movable jaw ANTI-LIFT mechanism provides alignment to workpiece without jaw lift
- There are 6 kinds of clamping ways to meet
- The whole body is precisely ground and height tolerance is within \pm 0.025mm (±0.001"), therefore several vises can be lined up for production
- The vise is made of FDC-80.000 psi (55kg/cm2) Ductile iron, and slide ways are hardened to 45HRC
- The rigid construction prevents base distortion

•	workpieces of different shapes and sizes	Precision made to high accuracy standard			
	Model No.		Code No.		
	4" - TLD-40G/HV		382610		
	6" - TLD-60G/HV		382600		

Movable Jaw Movable Jaw Auto-Adjusted Jaw Plate Workpieces Body



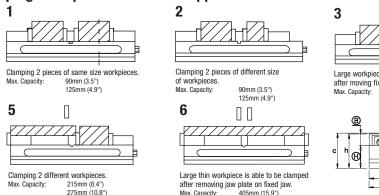
ANTI-LIFT MECHANISM

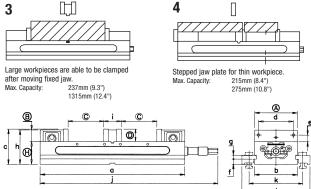


ANTI-LIFT Mechanism

- N: Gravity
- P: Resultant 45° component force forces the workpiece down while clamping
- F: Direction of jaw movement

Clamping Examples For Different Applications:

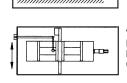




Dimensional Information For Double Clamp Vises:

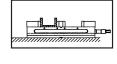
(mm/in.) Guide Weight Model No. C D Н g Block (kg/lb) TLD-40G 103 33 31 430 195 90 38 405 104 101.5 63.5 13 96.5 63.5 55 143 18 20 (TLD-40HV) 0.709 44 4.05 1.29 3.54 1.49 15.9 4.09 3.99 2.5 0.68 0.51 1.22 3.79 2.5 2.16 16.9 5.62 7.67 TLD-60G 41.5 123.5 98.42 82.55 48 152 125 44.5 520 23.8 16 126.5 64 639 193 245 18 154 18 (TLD-60HV) 2.52 5.98 4.9 1.75 20.47 4.98 3.87 0.94 0.7 0.63 4.86 3.25 25.15 7.59 9.64 0.709 105.6

TLD-40G, TLD-60G; match vise, TLD-40HV, TLD-60H (horizontal and vertical 2 way) Inspection Specification:

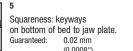


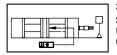
Parallelism: running face to bottom of bed. Guaranteed: (0.0004")

Parallelism: keyways on bottom of bed to jaw plate.

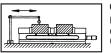


Squareness: between running face and jaw plate. Guaranteed: (0.0012")





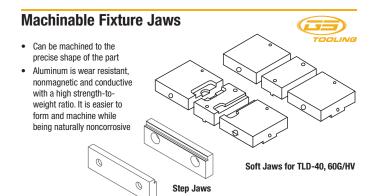
Squareness both sides to fixed jaw plate. 0.02 mm Guaranteed:



Parallelism: running face of the test block to bottom. 0.02 mm (0.0008")

(0.0008")

Workholding, Clamping & Fixturing



Description	Code No.
4" aluminum soft jaws	382612
4" step jaws	382614
6" aluminum soft jaws (10mm key)	382602
6" aluminum soft jaws (14mm key)	382609
6" sten jaws	382604

Steel Jaw Plate Set

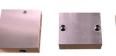
Steel offers high tensile strength and corrosion resistance.



Description	Code No.
6" steel jaw plate set (4pcs) for TLD60	382617

Steel Jaw Sets

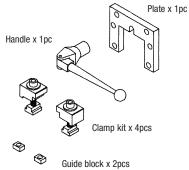
Steel offers high tensile strength and corrosion resistance.



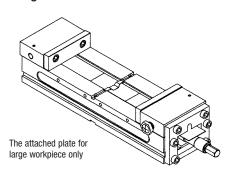


Description	Code No.
4" steel jaw set for TLD40	382615
6" steel jaw set for TLD60	382605

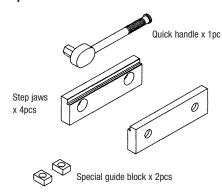
Standard Accessories

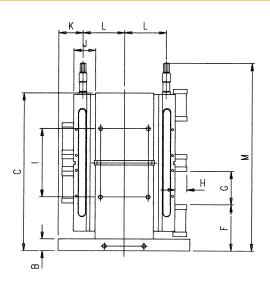


Usage of "Plate"



Optional Accessories





Α

Jig Block Dimensional Specifications

(mm/in.)

Model NO.	Use Vise	Pallet Size	Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N	Р	Weight (kg/lb)
GS-40-4C	TLD-40	400 x 400	400	40	500	110	180	168	90	38	203	63.5	75.5	124.5	543	104	506	118
GS-40-4C	TLD-40	400 x 400	15.74	1.57	19.68	4.33	7.08	6.61	3.54	1.49	7.99	2.5	2.907	4.90	21.3	4.09	19.92	259.6
GS-60-4C	TLD-60	500 x 500	500	45	600	140	220	175	125	44.5	260	82.5	92	158	714	154	628	233
GS-60-4C	TLD-60	500 x 500	19.68	1.77	23.62	5.51	8.66	6.88	4.92	1.75	10.23	3.25	3.62	6.25	28.11	6.02	24.72	512.6



GS Multi-Tasking Modular Vises for 5-Axis Machining Centers

The MULTI-TASKING range of vises has been specially designed for 5-axis machines. Working on 5 sides of the workpiece, it allows the best optimization of the machining cycle. Thanks to the compact design this kind of vise can be installed on all machining centres. The use of GRIP jaws is strongly recommended with multitasking vises.

- · Self-centering or eccentric
- · Eccentric jaw adjustment in steps of 2mm
- Highest accuracy in positioing and alignment (±0.02mm) due to ground rack teeth on both the base and the fixed jaws
- Minimum deflection
- Solid, rigid construction and maximum clamping ratio to the total length
- · Positioning through ground holes or keyways
- · All case hardened to 60HRC for durability

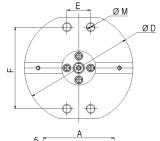
Ф





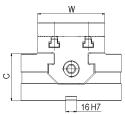
Type 1 & 2

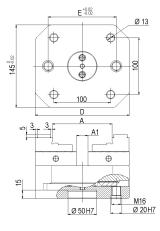
Type 3
Vise shown with riser

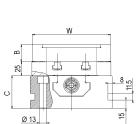


Ф

Type 1 & 2







Type 3

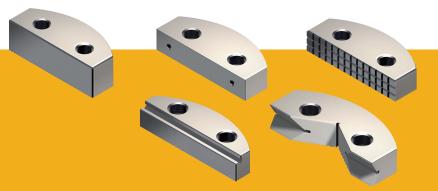
	Type 1	Type 2	Type 3x166	Type 3x266
Code No.	382520	382522	382524	382526
A	74	104	108	208
A1	-	-	20	60
W	74	99	138	138
В	15	20	30	30
С	50	70	58	58
øD/D	120	160	166	266
E	5	35	120	200
F	92	120	-	-
G	20	25	-	-
Н	20	40	-	-
øL H7	20	20	-	-
M	9	11	-	-
kg	4.9	11	13	20
kN	16	20	30	30



Also available:

Smooth, Soft, Serrated, Step, Prismatic, and Grip Jaws

Call for more information



Workholding, Clamping & Fixturing

Steel Risers Allow greater access to machine hard to reach areas of the workpiece

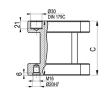






Type 1 & 2

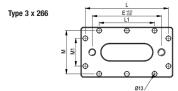
Type 3 x 166

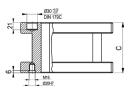


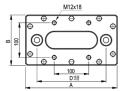




Type 3 x 166







Model	Α	В	C	D	E	L	L1	M	M1	ØJ	kg	Code No
Type 1	119	-	130	-	-	92	-	35	-	50 H7	6	382521
Type 2	158	-	130	-	-	120	-	35	-	50 H7	10	382523
Type 3x166	166	145	145	120	120	140	60	126	70	50 H7	14	382525
Type 3x266	266	125	145	200	200	240	160	125	80	-	21.5	382527

Allow greater access to machine hard to reach areas of the workpiece

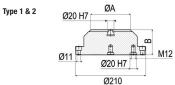
Type 3 x 166

Type 3 x 266

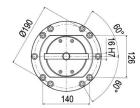




Type 1 & 2

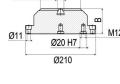


සු සු B

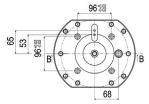


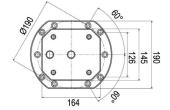


Type 3 x 166



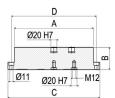
D Ø20 H7 Ш Ø11 M12 Ø20 H7 С

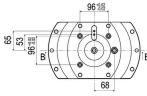


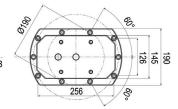




Type 3 x 266







Model	Α	В	C	D	kg	Code No
Type 1	Ø120	50	-	-	3	382531
Type 1	Ø120	75	-	-	4.5	382532
Type 1	Ø120	100	-	-	5.4	382533
Type 2	Ø160	50	-	-	3.5	382534
Type 2	Ø160	75	-	-	4.9	382535
Type 2	Ø160	100	-	-	6.4	382536

Model	Α	В	C	D	kg	Code No
Type 3 x 166	166	50	230	190	3.8	382541
Type 3 x 166	166	75	230	190	5.3	382542
Type 3 x 166	166	100	230	190	6.8	382543
Type 3 x 266	266	50	310	286	5.8	382544
Type 3 x 266	266	75	310	286	8.3	382545
Type 3 x 266	266	100	310	286	10.7	382546



Welcome to the family!



Sowa Tool's premium brand delivers top-tier quality and performance that rivals or exceeds the best in the world. These products offer premium features and dependability, at shockingly affordable prices, making them an ideal choice for applications where accuracy and speed matter most.

ASIMETO

Sowa's family of metrology solutions deliver absolute confidence born from its European engineering, and each tool beginning its journey in our ISO 17025 accredited labs. This premium heritage product priced at a non-premium price, delivers significant value for your money.



With our Sowa branded tools, we bring to our customers high performance cutting tools engineered to deliver superior tool life, machining efficiency & quality while still offering maximum value for your money.

SKODA

Sowa Tool's exclusive line of generalpurpose live centres with its roots in European quality that deliver excellent accuracy, rigidity, and durability at a price point that suits most budgets. Sowa carries a wide range of in-stock standard models to suit most common turning applications.



Sowa Tool's exclusive line of European universal boring and facing heads offer superior accuracy and precision for all your facing and boring applications. They feature an easy-to-adjust design, durable castings, and precision spindle bearings for a consistently accurate finish.



Our approach to this brand ensures that our customers receive the best value for their investment by delivering a broad assortment of cutting tools at an exceptional value. These tools typically apply to less demanding applications seen on the standard shop floor where the cost of the tool has the greatest influence on the selection process.



we understand the needs of machining processes,

and our extensive product lines offer a comprehensive solution. Our goal is to provide customers with the cost benefits of a single-source supplier, while remaining committed to delivering the highest quality products.

Ask for them by name!



Sowa Tool & Machine Co. Ltd.

Canadian Headquarters 500 Manitou Drive, Kitchener, ON, N2C 1L3 US Headquarters 101-137 Overhill Drive, Mooresville, NC 28117 Shop Online:

www.SowaTool.com

sales@sowatool.com TF: 1-800-265-8221