

Pin vices are used to firmly hold items such as winding stems, cutting and smoothing broaches, drills, taps, wires, screws, etc.

Choosing a square or hexagonal head model will assure you a tighter fit.



Pin vice with fluted hollow brass handle and **square head** to prevent rolling on bench. Delivered with 2 steel chucks.

MSA	Tightening mm	Length mm	Kg
02.001-01	0 à 1.5	70	0.022
02.001-02	0 à 1.8	80	0.025
02.001-03	0 à 2.3	90	0.030
02.001-04	0 à 2.8	100	0.040
02.001-05	0 à 3.0	110	0.050
02.001-06	0 à 3.5	120	0.060
02.001-07	0 à 4.0	130	0.080
02.001-08	0 à 5.0	140	0.094

ASSORTMENT



MSA	Kg
02.026	0.212

Assortment of 4 pin vices MSA 02.001-02,-04,-06 -08. Pin vice with fluted hollow brass handle and **square head** to prevent rolling on bench. Delivered with 2 steel chucks in a plastic pouch.



Pin vice with fluted hollow brass handle and **round head**. Delivered with 2 steel chucks.

MSA	Serrage mm	Longueur mm	Kg
02.002-01	0 à 1.5	70	0.020
02.002-02	0 à 1.8	80	"
02.002-03	0 à 2.3	90	0.030
02.002-04	0 à 2.8	100	0.040
02.002-05	0 à 3.0	110	0.045
02.002-06	0 à 3.5	120	0.060
02.002-07	0 à 4.0	130	0.070
02.002-08	0 à 5.0	140	0.093



Pin vice with fluted hollow brass thin handle and **round head** ø 5 mm. Delivered with 2 steel chucks.

MSA	Serrage mm	Longueur mm	Kg
02.003-01	0 à 0.8	80	0.012
02.003-02	"	90	0.015
02.003-03	"	100	"
02.003-04	"	110	"
02.003-05	"	120	0.017



MSA	Tightening mm	Length mm	Kg
02.004	0 to 2.8	110	0.040

Double ended pin vice with fluted hollow nickel-plated handle and 2 **hexagonal heads** to prevent rolling on bench. Delivered with 2 steel chucks.



MSA	Tightening mm	Length mm	Kg
02.005	0 to 2.5	110	0.033

Double ended pin vice with fluted nickel-plated handle and 2 **round heads**. Delivered with 2 steel chucks.



MSA	Tightening mm	Length mm	Kg
02.012	0 to 2.8	110	0.038

Double ended pin vice with fluted hollow nickel-plated handle and 2 knurled **round heads**. Delivered with 2 steel chucks.



MSA	Tightening mm	Length mm	Kg
02.014-02	0.0 à 0.8	80	0.013
02.014-04	0.0 à 1.0	100	0.025
02.014-06	1.4 à 2.5	120	"

Pin vice with fluted hollow brass handle and **round head**. Delivered with 1 steel chuck.



MSA	ø mm	Length mm	Kg
02.006-020	0.20	115	0.017
02.006-025	0.25	"	"
02.006-030	0.30	"	"
02.006-035	0.35	"	"
02.006-040	0.40	"	"
02.006-045	0.45	"	"
02.006-050	0.50	"	"
02.006-055	0.55	"	"
02.006-060	0.60	"	"
02.006-065	0.65	"	"
02.006-070	0.70	"	"
02.006-080	0.80	"	"
02.006-090	0.90	"	"
02.006-095	0.95	"	"
02.006-100	1.00	"	"
02.006-110	1.10	"	"
02.006-120	1.20	"	"

Balance screw hardened steel pin vice, knurled nickel-plated handle. Delivered with a sliding locker for an easy and quick tightening with one hand.



MSA	Length mm	Kg
02.007	110	0.015

Forked pin vice with knurled nickel-plated handle. Delivered with a sliding locker for an easy and quick tightening with one hand.



MSA	Tightening mm	Length mm	Kg
02.018	1.8 to 3.0	62	0.018

Pin vices with fluted hollow nickel-plated handle \varnothing 7 mm and **round head**. Delivered with 1 steel chuck.



MSA	Crowns	Model	Length mm	Kg
02.008-01	\varnothing 3 to 5 mm	Small	75	0.031
02.008-02	\varnothing 5 to 7 mm	Large	"	"
02.008-03	\varnothing 4 to 6 mm	Medium	"	"

Winding crowns pin vice with knurled nickel-plated handle. Specially made for winding watches, crowns from \varnothing 3 to 7 mm, according to the upper table.

ASSORTMENT



MSA	Kg
02.025	0.088

Assortment of 3 pin vices MSA 02.016, 02.020-03 and 04. With fluted hollow nickel-plated handle and **round head**.



MSA	Serrage mm	Longueur mm	Kg
02.015-01	0 à 1.5	70	0.022
02.015-02	0 à 1.8	80	"
02.015-03	0 à 2.3	90	0.030
02.015-04	0 à 2.8	100	0.040
02.015-05	0 à 3.0	110	"
02.015-06	0 à 3.5	120	"
02.015-07	0 à 4.0	130	0.080
02.015-08	0 à 5.0	140	0.094

Pin vice with fluted hollow nickel-plated handle and **square head** to prevent rolling on bench. Delivered with 2 steel chucks.



MSA	Tightening mm	Length mm	Kg
02.098	0 to 1.1	60	0.013

Mini cutting broaches holder pin vice with knurled hollow handle made of black steel and **round head**. Delivered with 1 steel chuck.



MSA	Tightening mm	Length mm	Kg
02.099	0 to 1.0	50	0.008

Mini cutting broaches holder pin vice with fluted hollow handle made of aluminium. Delivered with 1 steel chuck.



MSA	Tightening mm	Length mm	Kg
02.016	0 to 0.7	110	0.015

Thin pin vice with conical fluted nickel-plated handle and **round head**. Delivered with 1 steel chuck.



MSA	Serrage	Longueur mm	Kg
02.020-01	0 à 1.5	70	0.020
02.020-02	0 à 1.8	80	"
02.020-03	0 à 2.3	90	0.025
02.020-04	0 à 2.8	100	0.030
02.020-05	0 à 3.0	110	0.045
02.020-06	0 à 3.5	120	0.050
02.020-08	0 à 5.0	140	0.096

Pin vice with fluted hollow nickel-plated handle and **round head**. Delivered with 2 steel chucks.



MSA	Tightening mm	Length mm	Kg
02.017	0.8 to 1.5	60	0.009

Pin vice with fluted hollow nickel-plated handle \varnothing 6 mm and **round head**. Delivered with 1 steel chuck.



MSA	Tightening mm	Length mm	ø Stem mm	Kg
02.035	0 à 1.2	55	2.35	0.005

Pin vice with black finished adapter and **round head**, delivered with 1 steel chuck. For manual use on a lathe or a drilling machine,...



MSA	Tightening mm	Length mm	Kg
02.030	0 to 1.5	110	0.031

Crown pin vice with knurled hollow nickel-plated handle. Delivered with a sliding locker for an easy and quick tightening with one hand.



MSA	Model	Tightening mm	Kg
02.036	Medium	0 to 1.0 – 0.9 to 1.6 – 1.5 to 2.4	0.028
02.037	Large	0 to 1.3 – 1.1 to 2.3 – 1.7 to 3.0	"

Pin vice with black finished adapter and **round head**. For manual use or on lathe or on drilling machine. Delivered with 3 interchangeable steel chucks. Length 80 mm, ø stem 2.35 mm.



MSA	Tightening mm	Length mm	Kg
02.021	0 to 0.7	110	0.015

Thin pin vice with conical and fluted brass handle and round head. Delivered with 1 steel chuck.



MSA	ø mm	Length mm	Kg
02.022-080	0.8	120	0.048
02.022-090	0.9	"	"
02.022-100	1.0	"	"
02.022-120	1.2	"	"
02.022-125	1.25	"	"
02.022-130	1.3	"	"
02.022-140	1.4	"	"
02.022-145	1.45	"	"
02.022-150	1.5	"	"
02.022-160	1.0	"	"
02.022-170	1.0	"	"
02.022-175	1.75	"	"
02.022-180	1.8	"	"
02.022-200	2.0	"	"
02.022-220	2.2	"	"
02.022-250	2.5	"	"
02.022-300	3.0	"	"
02.022-350	3.5	"	"

Pin vice for Barrel axle with nickel plated hexagonal handle and a sliding locker for easy and quick tightening in one hand.



MSA	Length mm	Kg
02.029	105	0.020

Knurled steel broach ø **4.70 mm**, for use with staking tools, illustrated on pages 13 5 to 13 8. Delivered with 1 adjustment ring and 4 easily interchangeable tightening chucks, ø 0.80, 1.00, 1.20 and 1.50 mm.

Replacement chucks :

MSA	ø mm
02.019-060	0.60
02.019-080	0.80
02.019-100	1.00
02.019-110	1.10
02.019-120	1.20
02.019-150	1.50



MSA	Length mm	Kg
02.019	105	0.026

Knurled steel broach ø **6.00 mm**, for manual use or mounted on a lathe. Delivered with 4 easily interchangeable tightening chucks, ø 0.80, 1.00, 1.20 et 1.50 mm. Precise tightening and steady.

Replacement chucks :

MSA	ø mm
02.019-060	0.60
02.019-080	0.80
02.019-100	1.00
02.019-110	1.10
02.019-120	1.20
02.019-150	1.50

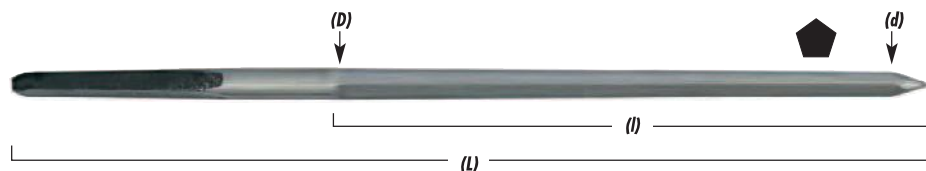
» Drills are piercing tools that work with a nut or a chord.



MSA	Tightening mm	Length mm	Kg
02.009	0 to 0.8	100	0.020

Drill or drill holder for piercing. Tool with helicoidally grooves that works with a nut as it moves up and down. Delivered with 1 steel chuck.

➤ To enlarge holes, broaches are used. They have a five-sided tapered shaft with sharp cutting edges.



MSA	N°	Total length mm (L)	Useful length mm (l)	ø mm (D)	ø mm (d)	Kg
02.100-01	01	162	107	5.75	4.80	0.030
02.100-02	02	160	105	5.50	4.50	"
02.100-04	04	158	104	5.25	4.30	"
02.100-08	08	156	103	5.00	4.10	"
02.100-12	12	154	102	4.75	3.80	"
02.100-16	16	151	100	4.50	3.60	"
02.100-18	18	149	99	4.25	3.40	"
02.100-22	22	147	98	4.00	3.10	"
02.100-26	26	145	97	3.75	2.70	"
02.100-28	28	142	96	3.50	2.60	"
02.100-30	30	140	95	3.25	2.40	"
02.100-31	31	138	93	3.00	2.20	"
02.100-32	32	135	91	2.90	2.10	0.020
02.100-35	35	132	89	2.80	2.05	"
02.100-36	36	129	87	2.70	2.00	"
02.100-38	38	127	85	2.60	1.90	"
02.100-40	40	125	82	2.50	1.80	"
02.100-41	41	122	80	2.40	1.75	"
02.100-42	42	119	78	2.30	1.70	"
02.100-44	44	116	76	2.20	1.60	"
02.100-45	45	113	74	2.10	1.50	"
02.100-46	46	110	72	2.00	1.40	"
02.100-48	48	107	70	1.90	1.30	"

MSA	N°	Total length mm (L)	Useful length mm (l)	ø mm (D)	ø mm (d)	Kg
02.100-49	49	104	68	1.80	1.20	0.010
02.100-51	51	101	65	1.70	1.15	"
02.100-52	52	98	63	1.60	1.10	"
02.100-53	53	95	61	1.50	1.00	"
02.100-54	54	92	59	1.40	0.90	"
02.100-55	55	89	57	1.30	0.80	"
02.100-56	56	86	54	1.20	0.70	"
02.100-58	58	83	52	1.10	0.63	"
02.100-60	60	80	50	1.00	0.57	"
02.100-62	62	77.5	48	0.95	0.54	"
02.100-64	64	75	47	0.90	0.50	"
02.100-65	65	72.5	46	0.85	0.48	"
02.100-66	66	70.5	44	0.80	0.45	0.001
02.100-68	68	88	42	0.75	0.41	"
02.100-70	70	66	41	0.70	0.37	"
02.100-71	71	64	40	0.65	0.34	"
02.100-72	72	62	38	0.60	0.30	"
02.100-74	74	60	37	0.55	0.28	"
02.100-75	75	58	36	0.50	0.25	"
02.100-76	76	56	34	0.45	0.20	"
02.100-78	78	54	33	0.40	0.15	"
02.100-79	79	52	32	0.35	0.13	"
02.100-80	80	50	31	0.30	0.10	"

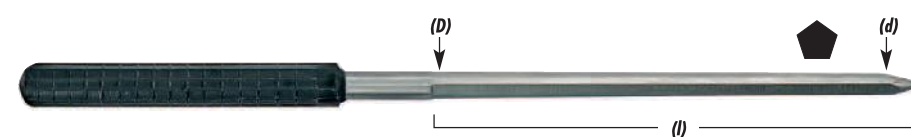
5 side conical cutting broach, **without handle**, made of tool steel. The taper is 1:100. The numbers correspond to the measurements from the English screw-plate (STUBS) and in mm. Size (D) is measured slightly below largest portion of cutting edges.

ASSORTMENT



MSA	Size mm	Mini/Maxi	Kg
02.150	60 x 133	From 0.60 to 2.00 mm	0.013

Assortment of 6 5 side cutting broaches with plastic handle. Contents : ø 0.60, 0.80, 1.00, 1.30, 1.60 and 2.00 mm.



MSA	N°	Useful length mm (l)	ø mm (D)	ø mm (d)	Kg
02.170-01	01	107	5.75	4.80	0.035
02.170-02	02	105	5.50	4.50	0.025
02.170-04	04	104	5.25	4.30	0.020
02.170-08	08	103	5.00	4.10	"
02.170-12	12	102	4.75	3.80	"
02.170-16	16	100	4.50	3.60	0.015
02.170-18	18	99	4.25	3.40	"
02.170-22	22	98	4.00	3.10	0.010
02.170-26	26	97	3.75	2.70	"
02.170-28	28	96	3.50	2.60	"
02.170-30	30	95	3.25	2.40	"
02.170-31	31	93	3.00	2.20	0.005
02.170-32	32	91	2.90	2.10	"
02.170-35	35	89	2.80	2.05	"
02.170-36	36	87	2.70	2.00	0.004
02.170-38	38	85	2.60	1.90	"
02.170-40	40	82	2.50	1.80	"
02.170-41	41	80	2.40	1.75	0.003
02.170-42	42	78	2.30	1.70	"
02.170-44	44	76	2.20	1.60	"
02.170-45	45	74	2.10	1.50	0.002
02.170-46	46	72	2.00	1.40	"

MSA	N°	Useful length mm (l)	ø mm (D)	ø mm (d)	Kg
02.170-48	48	70	1.90	1.30	0.002
02.170-49	49	68	1.80	1.20	0.001
02.170-51	51	65	1.70	1.15	"
02.170-52	52	63	1.60	1.10	"
02.170-53	53	61	1.50	1.00	"
02.170-54	54	49	1.40	0.90	"
02.170-55	55	57	1.30	0.80	"
02.170-56	56	54	1.20	0.70	"
02.170-58	58	52	1.10	0.63	"
02.170-60	60	50	1.00	0.57	"
02.170-64	64	47	0.90	0.50	"
02.170-66	66	44	0.80	0.45	"
02.170-70	70	41	0.70	0.37	"
02.170-72	72	38	0.60	0.30	"
02.170-75	75	36	0.50	0.25	"
02.170-78	78	33	0.40	0.15	"
02.170-80	80	31	0.30	0.10	"
02.170-020	020	20	0.20	0.07	"
02.170-015	015	18	0.15	0.05	"
02.170-010	010	17	0.10	0.04	"
02.170-008	008	16	0.08	0.03	"
02.170-005	005	15	0.05	0.02	"

5 side conical cutting broach, **with plastic handle**, made of tool steel. The taper is 1:100. The numbers correspond to the measurements from the English screw-plate (STUBS) and in mm.

ASSORTMENT



MSA	Size mm	Mini/Maxi	Kg
02.151	60 x 133	From 0.40 to 1.40 mm	0.010

Assortment of 6 5 side cutting broaches with plastic handle. Contents : ø 0.40, 0.60, 0.80, 1.00, 1.20 and 1.40 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.152	15 x 15 x 152	From 0.70 to 3.00 mm	0.029

Assortment of 6 5 side cutting broaches with plastic handle. Contents : \varnothing 0.70, 1.00, 1.50, 2.00, 2.50 and 3.00 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.153	15 x 15 x 152	From 1.20 to 3.00 mm	0.030

Assortment of 6 5 side cutting broaches with plastic handle. Contents : \varnothing 1.20, 1.50, 1.80, 2.20, 2.50 and 3.00 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.155	44 x 60	From 0.05 to 0.55 mm	0.010

Assortment of 12 extra thin cutting broaches with plastic handle. Contents : \varnothing 0.05, 0.08, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50 and 0.55 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.160	65 x 205	From 2.20 to 6.00 mm	0.110

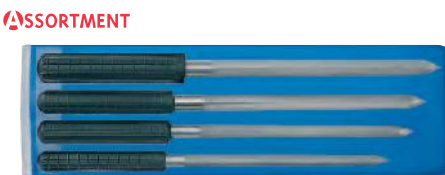
Assortment of 6 5 side cutting broaches with plastic handle. Contents : large models for alarm-clocks and clocks, \varnothing 2.20, 2.50, 3.00, 4.00, 5.00 and 6.00 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.161	65 x 205	From 1.50 to 7.00 mm	0.112

Assortment of 6 5 side cutting broaches with plastic handle. Contents : large models for watches, alarm-clocks and clocks \varnothing 1.50, 2.20, 3.00, 4.00, 5.50 and 7.00 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.162	75 x 250	From 7.00 to 10.50 mm	0.330

Assortment of 4 5 side cutting broaches with plastic handle. Contents: extra large models for alarm-clocks and clocks, \varnothing 7.00, 8.00, 9.25 and 10.50 mm.

Smoothing broaches are used for polishing the holes.



MSA	N°	Useful length mm (l)	\varnothing mm (D)	\varnothing mm (d)	Kg
02.250-01	01	107	5.75	4.80	0.035
02.250-02	02	105	5.50	4.50	"
02.250-04	04	104	5.25	4.30	"
02.250-08	08	103	5.00	4.10	"
02.250-12	12	102	4.75	3.80	"
02.250-16	16	100	4.50	3.60	0.030
02.250-18	18	99	4.25	3.40	"
02.250-22	22	98	4.00	3.10	"
02.250-26	26	97	3.75	2.70	"
02.250-28	28	96	3.50	2.60	"
02.250-30	30	95	3.25	2.40	0.025
02.250-31	31	93	3.00	2.20	"
02.250-32	32	91	2.90	2.10	"
02.250-35	35	89	2.80	2.05	"
02.250-36	36	87	2.70	2.00	"
02.250-38	38	85	2.60	1.90	0.020
02.250-40	40	82	2.50	1.80	"
02.250-41	41	80	2.40	1.75	"
02.250-42	42	78	2.30	1.70	"
02.250-44	44	76	2.20	1.60	"

MSA	N°	Useful length mm (l)	\varnothing mm (D)	\varnothing mm (d)	Kg
02.250-45	45	74	2.10	1.50	0.015
02.250-46	46	72	2.00	1.40	"
02.250-48	48	70	1.90	1.30	"
02.250-49	49	68	1.80	1.20	"
02.250-51	51	65	1.70	1.15	"
02.250-52	52	63	1.60	1.10	0.010
02.250-53	53	61	1.50	1.00	"
02.250-54	54	59	1.40	0.90	"
02.250-55	55	57	1.30	0.80	"
02.250-56	56	54	1.20	0.70	"
02.250-58	58	52	1.10	0.63	0.001
02.250-60	60	50	1.00	0.57	"
02.250-64	64	47	0.90	0.50	"
02.250-66	66	44	0.80	0.45	"
02.250-70	70	41	0.70	0.37	"
02.250-72	72	38	0.60	0.30	"
02.250-75	75	36	0.50	0.25	"
02.250-78	78	33	0.40	0.15	"
02.250-80	80	31	0.30	0.10	"

Smoothing broach, with plastic handle, made of tool steel. The taper is 1:100.

The numbers correspond to the measurements from the English screw-plate (STUBS) and in mm. The diameter is measured just beneath the largest round section of the broach.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.220	60 x 133	From 0.60 to 2.00 mm	0.013

Assortment of 6 smoothing broaches with plastic handle. Contents : \varnothing 0.60, 0.80, 1.00, 1.30, 1.60 et 2.00 mm.



ASSORTMENT

MSA	Size mm	Mini/Maxi	Kg
02.221	60 x 133	From 0.40 to 1.40 mm	0.010

Assortment of 6 smoothing broaches with plastic handle. Contents : \varnothing 0.40, 0.60, 0.80, 1.00, 1.20 et 1.40 mm.