

» Tungsten carbide end mills.



MSA	Size mm	Kg
22.566	125 x 81 x 50	0.260

Assortment of 12 tungsten carbide end mills and 11 steel pivots. The pivots work as a guide in the hole and the end mills trim the desired part. The pivots are interchangeable with every end mill. It can be used by hand or on a press (see pages 13 5 and 13 6).

Delivered in a wooden box with 1 tool holder MSA 22.568.

Replacement tungsten carbide end mills :

MSA	Length mm	o mm	Kg
22.566-F100	20	1.00	0.001
22.566-F120*	"	1.20	"
22.566-F150*	"	1.50	"
22.566-F175*	"	1.75	"
22.566-F180	"	1.80	"
22.566-F200*	"	2.00	"
22.566-F225*	"	2.25	"
22.566-F250*	"	2.50	"
22.566-F275*	"	2.75	"
22.566-F300*	"	3.00	"
22.566-F325*	"	3.25	0.002
22.566-F350*	"	3.50	"
22.566-F375*	"	3.75	"
22.566-F400*	"	4.00	"

* Delivered in the assortment MSA 22.566.

Replacement steel pivots :

MSA	Length mm	o mm (α)	Kg
22.566-P040	24.5	0.40	0.001
22.566-P050*	"	0.50	"
22.566-P060*	"	0.60	"
22.566-P070*	"	0.70	"
22.566-P080*	"	0.80	"
22.566-P090*	"	0.90	"
22.566-P100*	"	1.00	"
22.566-P110*	"	1.10	"
22.566-P120*	"	1.20	"
22.566-P130*	"	1.30	"
22.566-P140*	"	1.40	"
22.566-P150*	"	1.50	"

* Delivered in the assortment MSA 22.566.

Replacement tool holder :

MSA	Length mm	o mm	Kg
22.568	90	4.70	0.011



» Cone shape tungsten carbide reamers.



MSA	Size mm	Kg
22.567	125 x 81 x 50	0.250

Assortment of 12 cone shaped tungsten carbide reamers for holes fineishing. Suggested use with a press (see pages 13 8 and 13 9).

Delivered in a wooden box with 1 tool holder MSA 22.568.

Replacement tungsten carbide reamers :

MSA	N°	Length mm	o mm	Kg
22.567-053	53	25	0.53	0.001
22.567-054	54	"	0.54	"
22.567-055	55	"	0.55	"
22.567-069*	69	"	0.69	"
22.567-079*	79	"	0.79	"
22.567-089*	89	"	0.89	"
22.567-099*	99	"	0.99	"
22.567-109*	109	"	1.09	"
22.567-119*	119	"	1.19	"
22.567-129*	129	"	1.29	"
22.567-139*	139	"	1.39	"
22.567-149*	149	"	1.49	"
22.567-159*	159	"	1.59	"
22.567-169*	169	"	1.69	"
22.567-179*	179	"	1.79	"

* Delivered in the assortment MSA 22.567.

Replacement tool holder :

MSA	Length mm	o mm	Kg
22.568	90	4.70	0.011



» Tungsten carbide screw shoulder end mills with 5 cutters.



ASSORTMENT



MSA	Size mm	Kg
22.590	80 x 35 x 10	0.060

Assortment of 16 tungsten carbide screw shoulder end mills with 5 cutters, allowing the adjustment of the shoulder height of chronographer screws. Each end mill is easily replaceable thanks to a side screw holding it.

A protection lid is sold separately (not shown on picture).

Replacement parts :

MSA	Items	ø mm	Kg
22.590-040	End mill	0.40	0.002
22.590-045	"	0.45	"
22.590-050*	"	0.50	"
22.590-055*	"	0.55	"
22.590-060*	"	0.60	"
22.590-065*	"	0.65	"
22.590-070*	"	0.70	"
22.590-075*	"	0.75	"
22.590-080*	"	0.80	"
22.590-085*	"	0.85	"
22.590-090*	"	0.90	"
22.590-095*	"	0.95	"

MSA	Items	ø mm	Kg
22.590-100*	"	1.00	"
22.590-105	"	1.05	"
22.590-110*	"	1.10	"
22.590-115	"	1.15	"
22.590-120*	"	1.20	"
22.590-125	"	1.25	"
22.590-130*	"	1.30	"
22.590-140*	"	1.40	"
22.590-150*	"	1.50	"
22.590-160	"	1.60	"
22.590-170	"	1.70	"
22.590-180	"	1.80	"
22.590-190	"	1.90	"
22.590-200	"	2.00	"
22.590-A*	Base only	-	0.036

*Inclus dans MSA 22.590.

Accessories :

MSA	Items	Kg
22.590-B	Protection lid (not shown)	0.035
22.590-C	Side screw	0.001

» Double ended wheel countersinks.

ASSORTMENT



MSA	Size mm	Kg
22.561	75 x 125	0.044

Assortment of 6 polished hardened steel double ended wheel countersinks.

Delivered in a plastic pouch.

Diameters :

5.00/5.80 - 4.10/4.70 - 3.40/3.80 - 2.75/3.00 - 2.10/2.35 - 1.75/1.85 mm.

» Wheel countersinks.



ASSORTMENT



MSA	Size mm	Kg
22.565	125 x 81 x 50	0.290

Assortment of 14 wheel countersinks containing :

- 7 **tungsten carbide** wheel countersinks, specially conceived to release the mouldings (collets, screw openings...), mounted on a conical handle.

- 7 **ruby** wheel countersinks for polishing mouldings, mounted on a conical handle. It can be used with or without lubricants. Using the ruby wheel countersinks guarantees a smothering surface than ever.

Both countersinks must be used successively (1st tungsten carbide ; 2nd ruby) to obtain a perfect polish. Delivered in a wooden box with 2 tool holders MSA 22.564-030 and MSA 22.564-047 (for use by hand or on a press ; see pages 13 8 and 13 9).

Replacement tool holders :

MSA	Use	Length mm	ø mm	Kg
22.564-030	For hand use (1)	100	3.00	0.008
22.564-047	For press use (2)	90	4.70	0.012

Replacement tungsten carbide wheel countersinks :

MSA	Shank length mm	ø mm	Kg
22.562-150	25	1.50	0.001
22.562-200	"	2.00	"
22.562-250	"	2.50	"
22.562-300	"	3.00	"
22.562-350	"	3.50	"
22.562-400	"	4.00	"
22.562-450	"	4.50	"

Replacement ruby wheel countersinks :

MSA	Shank length mm	ø mm	Kg
22.563-150	25	1.50	0.001
22.563-200	"	2.00	"
22.563-250	"	2.50	"
22.563-300	"	3.00	"
22.563-350	"	3.50	"
22.563-400	"	4.00	"
22.563-450	"	4.50	"



MSA	Size mm	Kg
22.850-A	4 x 106	0.015

Double-ended cutter to trim screw ends \varnothing 2.5/4 mm.
Delivered in a plastic pouch.



MSA	Size mm	Kg
22.850-B	2.5 x 106	0.010

Double-ended cutter to trim screw ends \varnothing 0.9/1.3 mm.
Delivered in a plastic pouch.



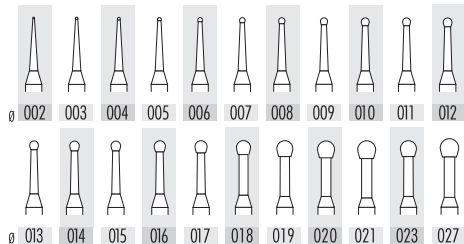
MSA	Size mm	Kg
22.850-C	4 x 106	0.016

Double-ended cutter to trim screw ends \varnothing 3/4 mm.
Delivered in a plastic pouch.

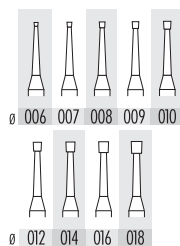
» Tungsten carbide burs, shank \varnothing 2.35 mm.

Order example: MSA 22.400-xxx
Extensions
(3 digits)
= \varnothing head mm

Example: MSA 22.400-008 = \varnothing 0.80 mm
MSA 22.400-023 = \varnothing 2.30 mm



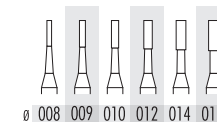
MSA	Type	Shape	Kg
22.400-xxx	123	Round	0.001



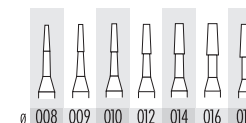
MSA	Type	Shape	Kg
22.401-xxx	124	Inverted cone	0.001



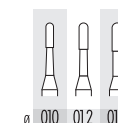
MSA	Type	Shape	Kg
22.403-xxx	128	Cylinder	0.001



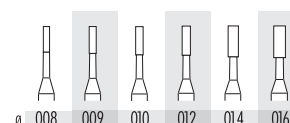
MSA	Type	Shape	Kg
22.404-xxx	129	Cylinder	0.001



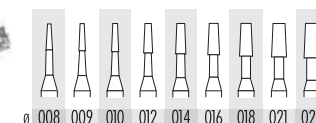
MSA	Type	Shape	Kg
22.405-xxx	130	Cone	0.001



MSA	Type	Shape	Kg
22.406-xxx	136	Cylinder	0.001



MSA	Type	Shape	Kg
22.407-xxx	137	Cylinder	0.001



MSA	Type	Shape	Kg
22.408-xxx	138	Cone	0.001



MSA	Type	Length mm	\varnothing mm	Kg
22.450	Standard	12.2	060	0.002
22.450-F	Fine	12.2	060	0.002

Tungsten carbide bur.

Tool steel burs, shank \varnothing 2.35 mm.

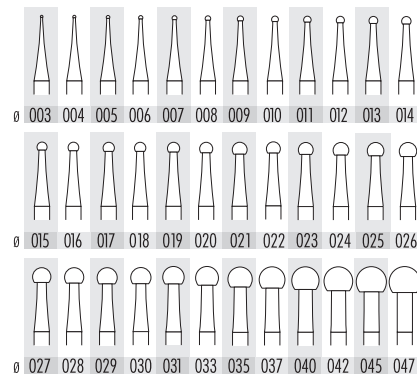
Order example: MSA 22.300-xxx

Extensions
(3 digits)
= \varnothing head mm

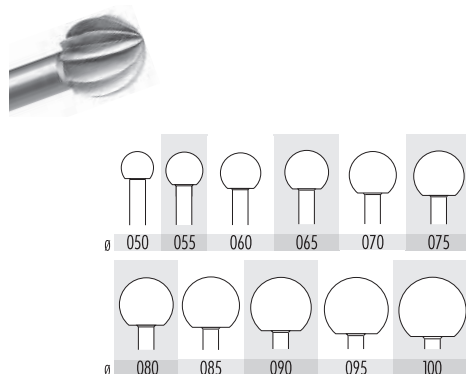
Example: MSA 22.300-008 = \varnothing 0.80 mm

MSA 22.300-025 = \varnothing 2.50 mm

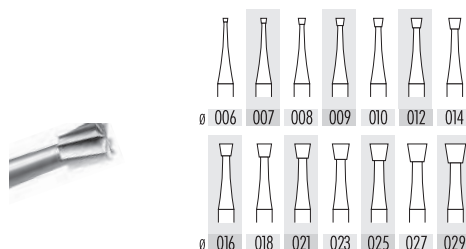
MSA 22.300-100 = \varnothing 10.00 mm



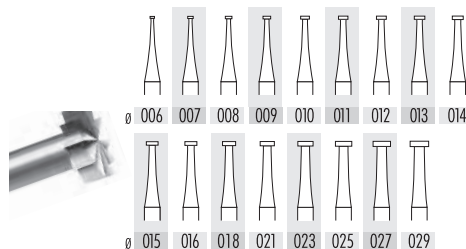
MSA	Type	Shape	Kg
22.300-xxx	23	Round	0.001



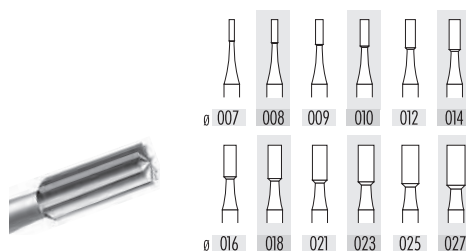
MSA	Type	Shape	Kg
22.300-xxx	25	Wheel	0.001



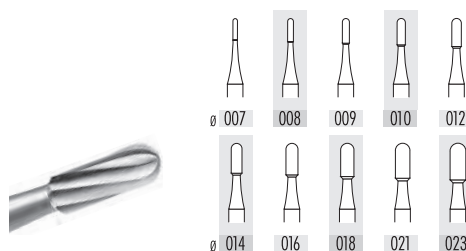
MSA	Type	Shape	Kg
22.301-xxx	24	Inverted cone	0.001



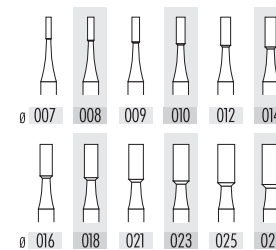
MSA	Type	Shape	Kg
22.302-xxx	25	Wheel	0.001



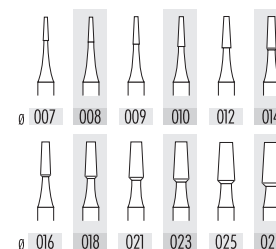
MSA	Type	Shape	Kg
22.303-xxx	26	Cylinder	0.001



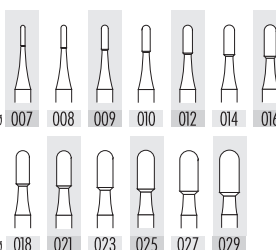
MSA	Type	Shape	Kg
22.304-xxx	28	Cylinder	0.001



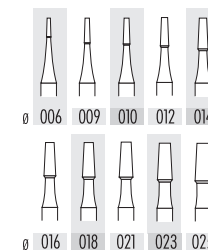
MSA	Type	Shape	Kg
22.312-xxx	29	Cylinder	0.001



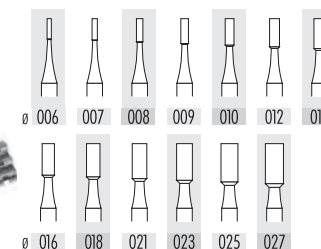
MSA	Type	Shape	Kg
22.313-xxx	31	Cone	0.001



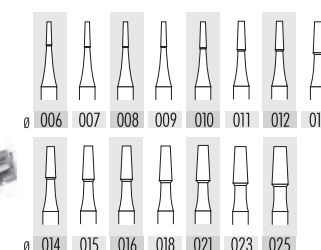
MSA	Type	Shape	Kg
22.308-xxx	36	Cylinder	0.001



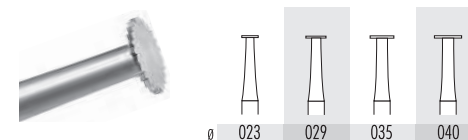
MSA	Type	Shape	Kg
22.305-xxx	30	Cone	0.001



MSA	Type	Shape	Kg
22.306-xxx	34	Cylinder	0.001

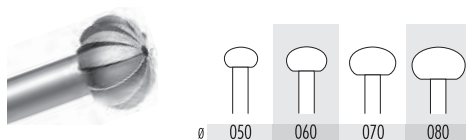


MSA	Type	Shape	Kg
22.309-xxx	38	Cone	0.001

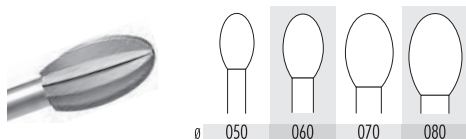


MSA	Type	Shape	Kg
22.311-xxx	45	Wheel	0.001

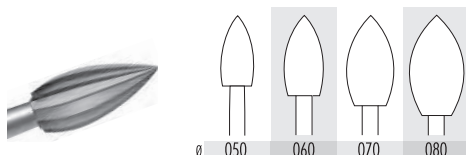
➤ Tool steel burs, shank ø 2.35 mm.



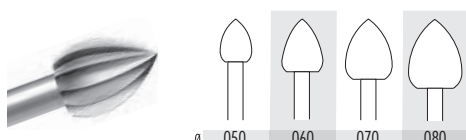
MSA	Type	Shape	Kg
22.201-xxx	77	Oval	0.001



MSA	Type	Shape	Kg
22.202-xxx	78	Cylinder	0.001



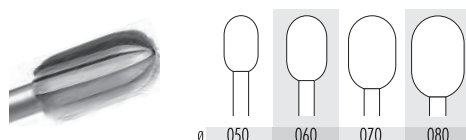
MSA	Type	Shape	Kg
22.203-xxx	79	Egg	0.001



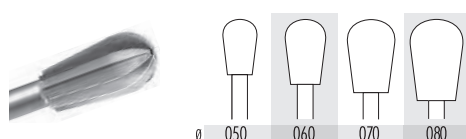
MSA	Type	Shape	Kg
22.204-xxx	80	Pear	0.001



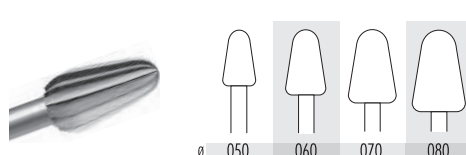
MSA	Type	Shape	Kg
22.210-xxx	81	Flame	0.001



MSA	Type	Shape	Kg
22.205-xxx	82	Long bud	0.001



MSA	Type	Shape	Kg
22.211-xxx	83	Bud	0.001



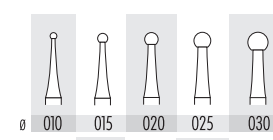
MSA	Type	Shape	Kg
22.212-xxx	83	Bud	0.001



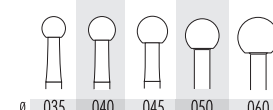
MSA	Type	Shape	Kg
22.213-xxx	83	Bud	0.001



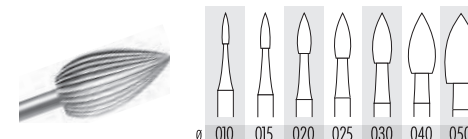
MSA	Type	Shape	Kg
22.214-xxx	83	Bud	0.001



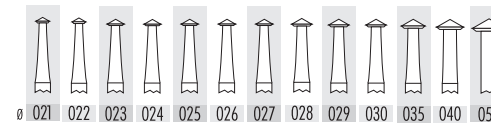
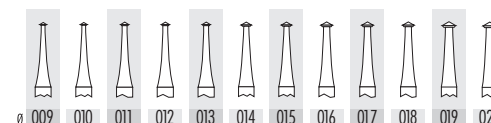
MSA	Type	Shape	Kg
22.124-xxx	FK	Krause	0.001



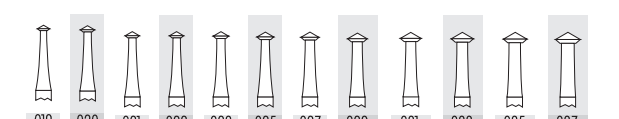
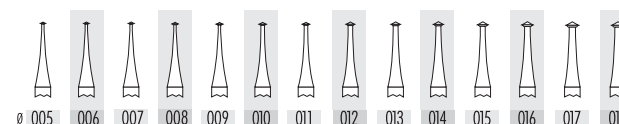
MSA	Type	Shape	Kg
22.100-xxx	A	Round, fine	0.001



MSA	Type	Shape	Kg
22.102-xxx	G	Flame, fine	0.001

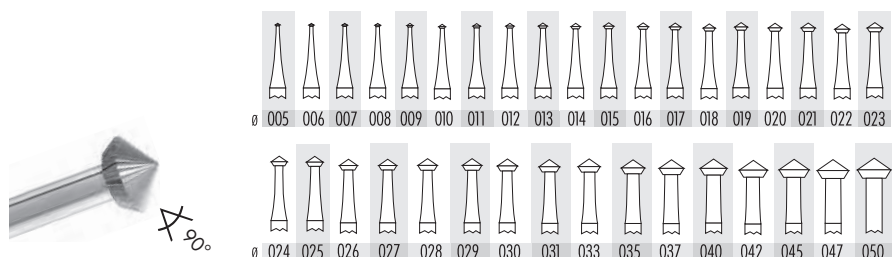


MSA	Type	Shape	Kg
22.103-xxx	H	Bearing cutter 120°	0.001

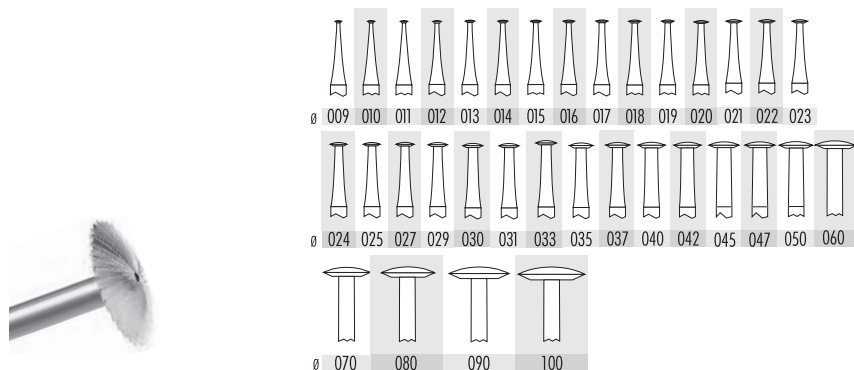


MSA	Type	Shape	Kg
22.121-xxx	HB	Bearing cutter 70°	0.001

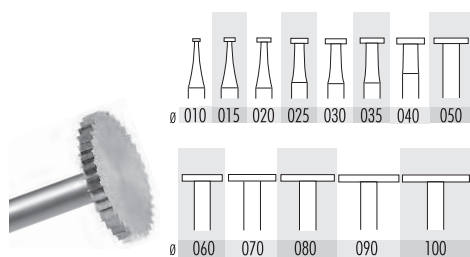
» Tool steel burs, shank \varnothing 2.35 mm.



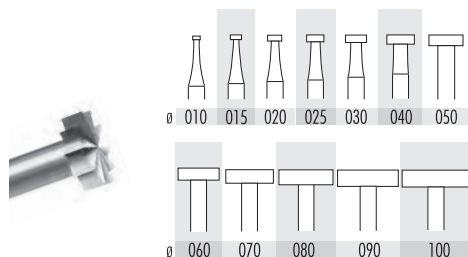
MSA	Type	Shape	Kg
22.104-xxx	HD	Bearing Cutter 90°	0.001



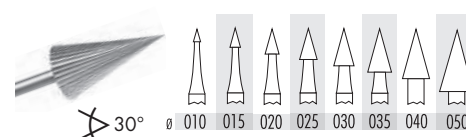
MSA	Type	Shape	Kg
22.105-xxx	HH	Lens	0.001



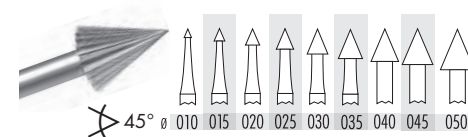
MSA	Type	Shape	Kg
22.107-xxx	K	Wheel	0.001



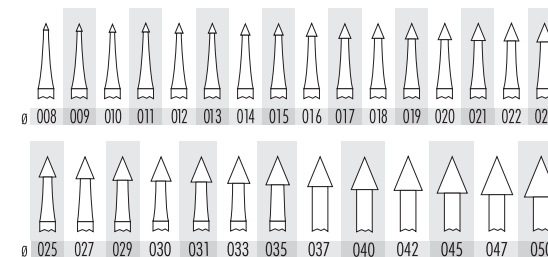
MSA	Type	Shape	Kg
22.110-xxx	KK	Wheel	0.001



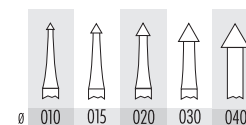
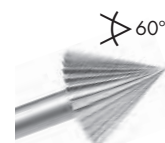
MSA	Type	Shape	Kg
22.112-xxx	N	Cone 30°	0.001



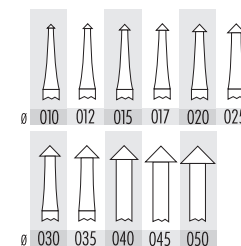
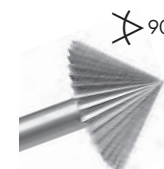
MSA	Type	Shape	Kg
22.113-xxx	NN (fine)	Cone 45°	0.001



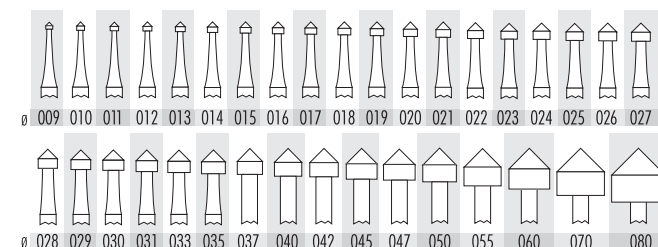
MSA	Type	Shape	Kg
22.123-xxx	NN (rough)	Cone 45°	0.001



MSA	Type	Shape	Kg
22.114-xxx	O	Cone 60°	0.001

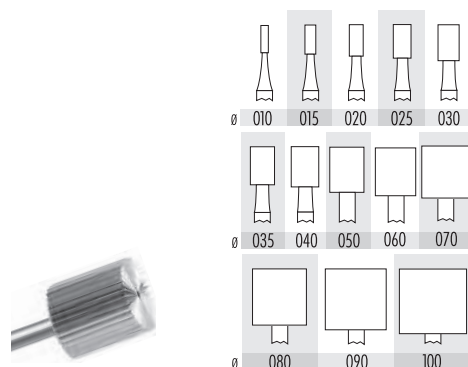


MSA	Type	Shape	Kg
22.115-xxx	P	Cone 90°	0.001

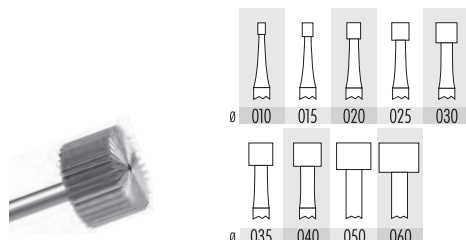


MSA	Type	Shape	Kg
22.116-xxx	Q	Stone setting	0.001

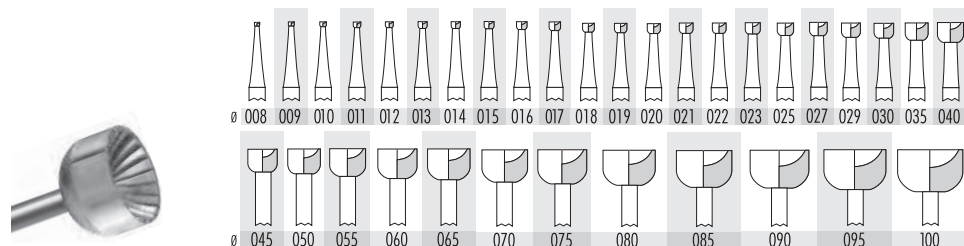
» Tool steel burs, shank ø 2.35 mm.



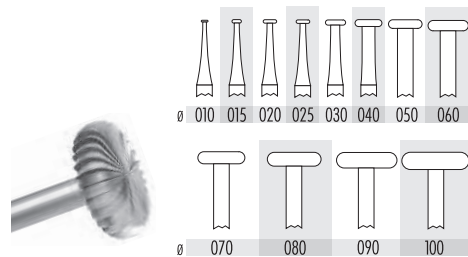
MSA	Type	Shape	Kg
22.117-xxx	R	Cylinder	0.001



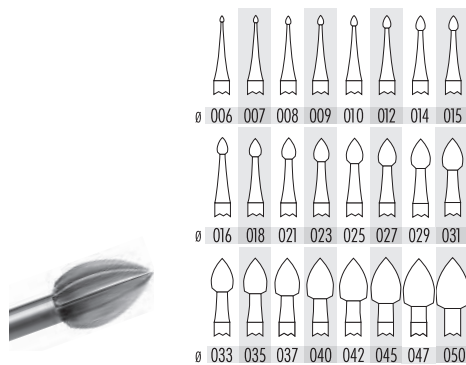
MSA	Type	Shape	Kg
22.122-xxx	RR	Cylinder	0.001



MSA	Type	Shape	Kg
22.119-xxx	S	Cup	0.001



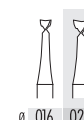
MSA	Type	Shape	Kg
22.118-xxx	Y	Beveled wheel	0.001



MSA	Type	Shape	Kg
22.120-xxx	Z	Bud	0.001

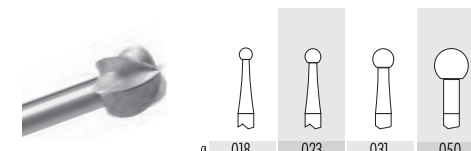
» Wax-carving steel burs, shank ø 2.35 mm.

Order example : MSA 22.360-xxx
Extensions
(3 digits)
= ø head mm



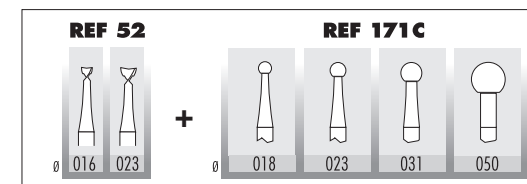
MSA	Type	Shape	Kg
22.360-xxx	52	Inverted cone	0.001

Example : MSA 22.360-023 = ø 2.30 mm
MSA 22.361-050 = ø 5.00 mm



MSA	Type	Shape	Kg
22.361-xxx	171C	Round	0.001

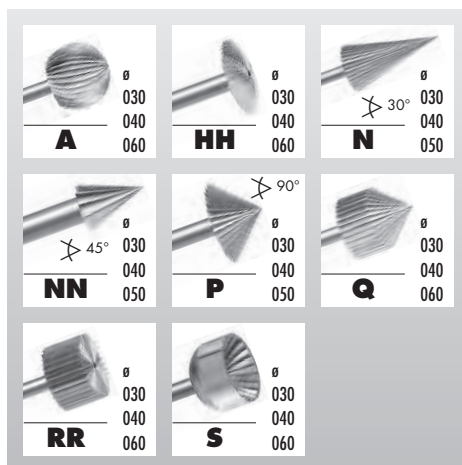
ASSORTMENT



MSA	Type	Contents	Kg
22.365	1445	52+171C	0.006

» Tool steel burs, shank ø 2.35 mm.

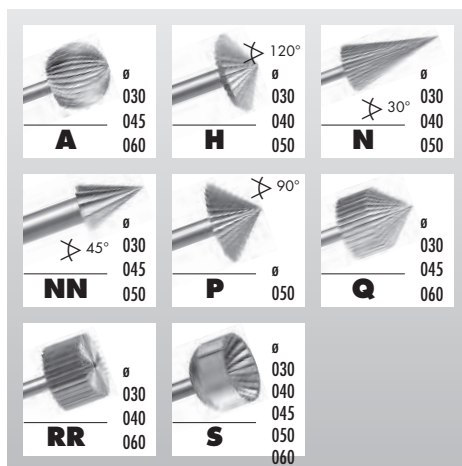
ASSORTMENT of 24 burs



MSA	Type	Shank ø mm	Kg
22.500	1235	2.35	0.090

Delivered on a plastic round base with plastic lid.

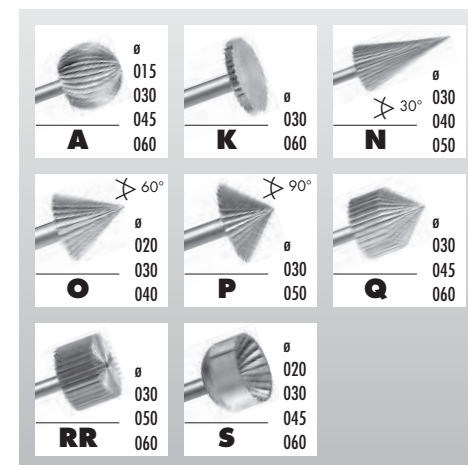
ASSORTMENT of 24 burs



MSA	Type	Shank ø mm	Kg
22.510	3235	2.35	0.090

Delivered on a plastic round base with plastic lid.

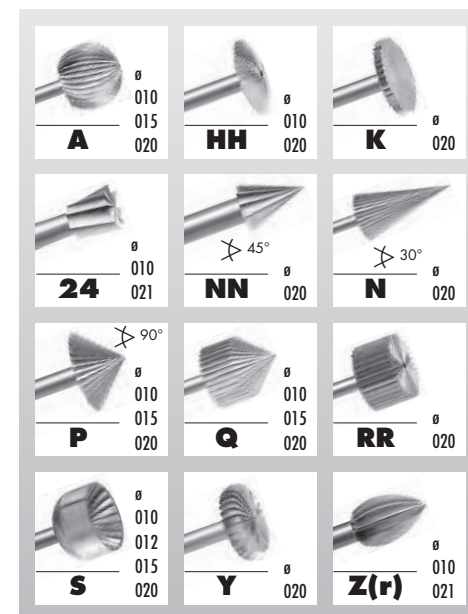
ASSORTMENT of 24 burs



MSA	Type	Shank ø mm	Kg
22.515	4235	2.35	0.090

Delivered on a plastic round base with plastic lid.

ASSORTMENT of 24 burs



MSA	Type	Shank ø mm	Kg
22.520	8235	2.35	0.090

Delivered on a plastic round base with plastic lid.

Order example:

MSA 22.712-xxxx

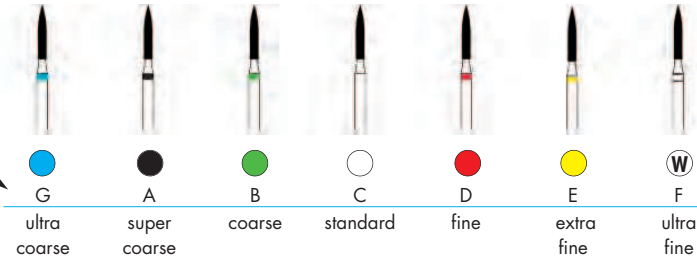
Extensions
(3 digits + 1 letter)

ø head mm grain

ø 1,6

19-24 mm

Echelle : 1/1



MSA Type
22.712-xxxx 813

	-	-014A	-016A
●	-	-014B	-016B
○	-010C	-014C	-016C
●	-	-014D	-016D
ø head	1.0	1.4	1.6
L head	1.5	1.6	1.9

MSA Type
22.713-xxxx 813L

	-014A	-016A
●	-014B	-016B
○	-014C	-016C
●	-014D	-016D
ø head	1.4	1.6
L head	3.0	3.0

MSA Type
22.714-xxxx 811

	-031A	-
●	-031B	-040B
○	-031C	-040C
ø head	3.1	4.0
L head	4.0	6.0

MSA Type
22.734-xxxx A369

	-023A
●	-023B
○	-023C
●	-023D
●	-023E
ø head	2.3
L head	5.7

MSA Type
22.735-xxxx 392

	-016C
○	-016D
●	-016E
ø head	1.6
L head	5.0

MSA Type
22.736-xxxx 832

	-027C
○	-027D
●	-027E
ø head	2.7
L head	2.7

MSA Type
22.715-xxxx 815

	-012B	-016B	-	-
●	-012C	-016C	-018C	-023C
ø head	1.2	1.6	1.8	2.3
L head	0.5	0.7	0.7	0.8

MSA Type
22.716-xxxx 816

	-012C	-016C	-018C
○	-012C	-016C	-018C
ø head	1.2	1.6	1.8
L head	1.5	1.8	2

MSA Type
22.737-xxxx 817

	-033B	-040B	-050B
●	-033C	-040C	-050C
ø head	3.3	4.0	5.0
L head	0.7	0.7	0.7

MSA Type
22.717-xxxx 818

	-	-040B	-050B
●	-	-040C	-050C
ø head	3.3	4.0	5.0
L head	1.0	1.0	1.0

MSA Type
22.738-xxxx 819

	-040C
○	-040C
ø head	4.0
L head	1.3

MSA Type
22.718-xxxx 820

	-040C	-050C
○	-040C	-050C
ø head	4.0	5.0
L head	2	2

MSA Type
22.719-xxxx 909

	-	-040A	-
●	-033B	-040B	-
○	-033C	-040C	-050C
ø head	3.3	4.0	5.0
L head	1	1.7	2.2

MSA Type
22.720-xxxx 825

	-	-	-040B
●	-018C	-025C	-040C
ø head	1.8	2.5	4.0
L head	0.8	0.9	1.1

MSA Type
22.721-xxxx 826

	-018C
○	-018C
ø head	1.8
L head	3

MSA Type
22.722-xxxx 379

	-	-	-023G
●	-014A	-018A	-023A
●	-014B	-018B	-023B
○	-014C	-018C	-023C
●	-014D	-018D	-023D
●	-014E	-018E	-023E
⊗	-014F	-018F	-023F
ø head	1.4	1.8	2.3
L head	3	3.5	4.5

Order example:

MSA 22.723-xxxx

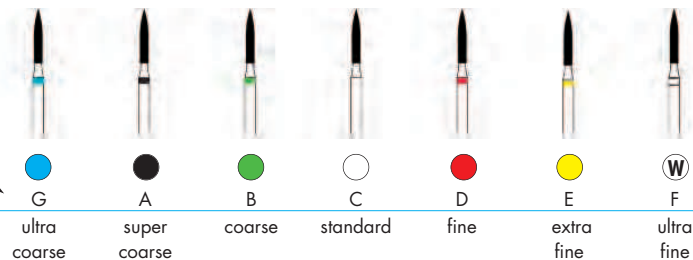
Extensions
(3 digits + 1 letter)

ø head mm

grain

ø 1,6

Echelle : 1/1



MSA Type
22.723-xxxx 368

MSA	Type	ø head	L head
-	-023G	1.6	3.5
-	-023A	2.1	5
-	-023B	2.3	5
-	-023C		
-	-023D		
-	-023E		
-	-023F		

MSA Type
22.739-xxxx A368

MSA	Type	ø head	L head
-	-023B	2.3	5
-	-023C		
-	-023D		
-	-023E		

MSA Type
22.724-xxxx 890

MSA	Type	ø head	L head
-	-016B	1.6	4
-	-016C		
-	-016D		
-	-016E		
-	-016F		

MSA Type
22.740-xxxx 853

MSA	Type	ø head	L head
-	-008C	0.8	3
-	-008D		
-	-008E		
-	-008F		

MSA Type
22.726-xxxx 883

MSA	Type	ø head	L head
-	-010B	1.0	3
-	-010C		
-	-010D		

MSA Type
22.727-xxxx 889

MSA	Type	ø head	L head
-	-009B	0.9	3.5
-	-009C	1.0	4.5
-	-009D		
-	-009E		
-	-009F		

MSA Type
22.728-xxxx 860

MSA	Type	ø head	L head
-	-010A	1.0	4
-	-010B	1.2	5
-	-010C	1.4	5
-	-010D	2.5	6
-	-010E		
-	-010F		

MSA Type
22.729-xxxx 862

MSA	Type	ø head	L head
-	-012G	0.9	8
-	-012A	1.0	8
-	-012B	1.2	8
-	-012C	1.4	8
-	-012D	1.6	8

MSA Type
22.730-xxxx 863

MSA	Type	ø head	L head
-	-014G	1.0	10
-	-014A	1.2	10
-	-014B	1.4	10
-	-014C	1.6	10
-	-014D	1.8	10
-	-014E		
-	-014F		

MSA Type
22.731-xxxx 888

MSA	Type	ø head	L head
-	-012A	1.2	8
-	-012B		
-	-012C		
-	-012D		
-	-012E		

MSA Type
22.725-xxxx 899

MSA	Type	ø head	L head
-	-021A	2.1	6.5
-	-021B	2.7	7
-	-021C	3.1	7
-	-021D		
-	-021E		
-	-021F		

MSA Type
22.741-xxxx 835

MSA	Type	ø head	L head
-	-009A	0.8	3
-	-009B	0.9	3
-	-009C	1.0	4
-	-009D	1.2	4
-	-009E	1.4	4
-	-009F	1.6	4
-	-009G	2.7	5

Order example:

MSA 22.742-xxxx

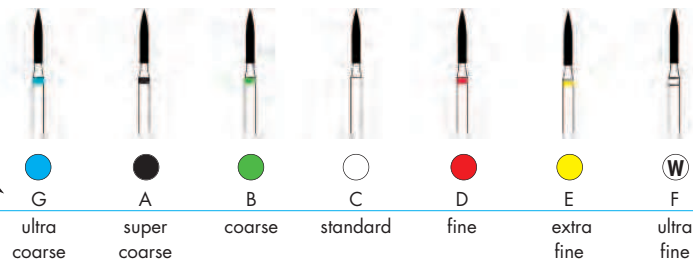
Extensions
(3 digits + 1 letter)

ø head mm

grain

ø 1,6

Echelle : 1/1



MSA Type
22.742-xxxx 836

●	-	-012G	-014G	-027G
●	-010A	-012A	-014A	-
●	-010B	-012B	-014B	-018B
○	-010C	-012C	-014C	-018C
●	-010D	-012D	-014D	-018D
ø head	1.0	1.2	1.4	1.8
L head	6	6	6	7

MSA Type
22.743-xxxx 837

●	-	-	-014G	-016G
●	-010A	-012A	-014A	-016A
●	-010B	-012B	-014B	-016B
○	-010C	-012C	-014C	-016C
●	-010D	-012D	-014D	-016D
ø head	1.0	1.2	1.4	1.6
L head	7	8	8	8

MSA Type
22.744-xxxx 842

●	-	-014G	-016G	-018G
●	-012B	-014B	-016B	-018B
○	-012C	-014C	-016C	-018C
●	-012D	-014D	-016D	-
ø head	1.2	1.4	1.6	1.8
L head	10	10	10	10

MSA Type
22.745-xxxx 838

●	-	-	-	-012G
●	-	-	-010A	-012A
●	-	-	-010B	-012B
○	-008C	-009C	-010C	-012C
●	-	-	-010D	-012D
ø head	0.8	0.9	1.0	1.2
L head	3	3	4	4

MSA Type
22.746-xxxx 880

●	-012G	-	-	-
●	-012A	-014A	-016A	-018A
●	-012B	-014B	-016B	-018B
○	-012C	-014C	-016C	-018C
●	-012D	-014D	-016D	-
●	-	-014E	-	-
ø head	1.2	1.4	1.6	1.8
L head	6	6	6	6

MSA Type
22.747-xxxx 881

●	-	-	-014G	-018G
●	-010A	-012A	-014A	-016A
●	-010B	-012B	-014B	-016B
○	-010C	-012C	-014C	-016C
●	-010D	-012D	-014D	-016D
●	-	-012E	-014E	-016E
⊗	-	-012F	-	-
ø head	1.0	1.2	1.4	1.6
L head	8	8	8	8

MSA Type
22.748-xxxx 882

●	-012A	-014A
●	-012B	-014B
○	-012C	-014C
●	-012D	-014D
●	-012E	-014E
ø head	1.2	1.4
L head	10	10

MSA Type
22.749-xxxx 884

●	-012A
●	-012B
○	-012C
●	-012D
●	-012E
ø head	1.2
L head	6

MSA Type
22.750-xxxx 885

●	-	-012A	-014A
●	-	-012B	-014B
○	-010C	-012C	-014C
●	-	-012D	-014D
●	-	-012E	-014E
ø head	1.0	1.2	1.4
L head	8	8	8

MSA Type
22.751-xxxx 886

●	-012A	-014A	-
●	-012B	-014B	-016B
○	-012C	-014C	-016C
●	-012D	-014D	-016D
●	-012E	-014E	-
ø head	1.2	1.4	1.6
L head	10	10	10

MSA Type
22.752-xxxx 876

●	-010B
○	-010C
●	-010D
●	-010E
ø head	1.0
L head	5

MSA Type
22.753-xxxx 877

●	-	-010A	-012A
●	-	-010B	-012B
○	-009C	-010C	-012C
●	-	-010D	-012D
●	-	-010E	-
ø head	0.9	1.0	1.2
L head	6	6	6

Order example:

MSA 22.754-xxxx

Extensions
(3 digits + 1 letter)

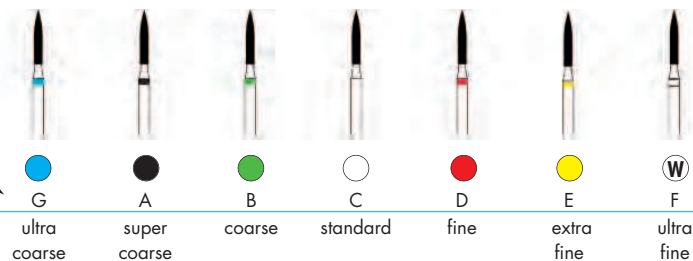
ø head mm

grain

ø 1,6

19-24 mm

Echelle : 1/1



MSA Type
22.754-xxxx 878

●	-	-010G	-012G	-014G	-
●	-	-010A	-012A	-014A	-016A
●	-	-010B	-012B	-014B	-016B
○	-009C	-010C	-012C	-014C	-016C
●	-	-010D	-012D	-014D	-016D
●	-009E	-010E	-012E	-014E	-
ø head	0.9	1.0	1.2	1.4	1.6
L head	8	8	8	8	8

MSA Type
22.755-xxxx 879

●	-	-012G	-	-	-
●	-010A	-012A	-014A	-016A	-
●	-010B	-012B	-014B	-016B	-
○	-010C	-012C	-014C	-016C	-
●	-010D	-012D	-014D	-016D	-
●	-010E	-012E	-014E	-	-
ø head	1.0	1.2	1.4	1.6	-
L head	10	10	10	10	-

MSA Type
22.758-xxxx 847

●	-012G	-	-016G	-018G	-
●	-012A	-014A	-016A	-018A	-021A
●	-012B	-014B	-016B	-018B	-021B
○	-012C	-014C	-016C	-018C	-021C
●	-012D	-014D	-016D	-018D	-021D
●	-	-	-016E	-	-
ø head	1.2	1.4	1.6	1.8	2.1
L head	8	8	8	8	8

MSA Type
22.759-xxxx 848

●	-012G	-	-016G	-018G	-
●	-012A	-014A	-016A	-018A	-
●	-012B	-014B	-016B	-018B	-023B
○	-012C	-014C	-016C	-018C	-023C
●	-012D	-014D	-016D	-018D	-023D
●	-	-	-016E	-	-023E
ø head	1.2	1.4	1.6	1.8	2.3
L head	10	10	10	10	10

MSA Type
22.760-xxxx 849

●	-	-	-012G
●	-	-	-012A
●	-	-010B	-012B
○	-009C	-010C	-012C
●	-009D	-	-012D
●	-	-010E	-
ø head	0.9	1.0	1.2
L head	4	4	4

MSA Type
22.761-xxxx A855

●	-012B
○	-012C
●	-012D
ø head	1.2
L head	6

MSA Type
22.762-xxxx 855

●	-	-014G
●	-012A	-014A
●	-012B	-014B
○	-012C	-014C
●	-012D	-014D
ø head	1.2	1.4
L head	7	7

MSA Type
22.756-xxxx 845

●	-	-	-012A	-014A	-	-	-
●	-	-010B	-012B	-014B	-016B	-	-
○	-009C	-010C	-012C	-014C	-016C	-018C	-021C
●	-	-	-012D	-	-	-	-
ø head	0.9	1.0	1.2	1.4	1.6	1.8	2.1
L head	3	4	4	4	4	4	4

MSA Type
22.757-xxxx 846

●	-012A	-016A	-018A	-
○	-012B	-016B	-018B	-025B
○	-012C	-016C	-018C	-025C
●	-012D	-016D	-018D	-025D
●	-	-	-018E	-
⊗	-	-	-018F	-
ø head	1.2	1.6	1.8	2.5
L head	6	6	6	7

MSA Type
22.700-xxxx 856

●	-012G	-014G	-016G	-018G	-023G
●	-012A	-014A	-016A	-018A	-023A
●	-012B	-014B	-016B	-018B	-023B
○	-012C	-014C	-016C	-018C	-023C
●	-012D	-014D	-016D	-018D	-023D
●	-	-014E	-016E	-	-023E
ø head	1.2	1.4	1.6	1.8	2.3
L head	8	8	8	8	7

MSA Type
22.763-xxxx 856L

●	-023G
●	-023A
●	-023B
○	-023C
●	-023D
ø head	2.3
L head	8

MSA Type
22.764-xxxx A856

●	-021G	-023G
●	-021A	-023A
●	-021B	-023B
○	-021C	-023C
●	-021D	-023D
●	-021E	-023E
ø head	2.1	2.3
L head	8	8

Order example:

MSA 22.765-xxxx

Extensions
(3 digits + 1 letter)

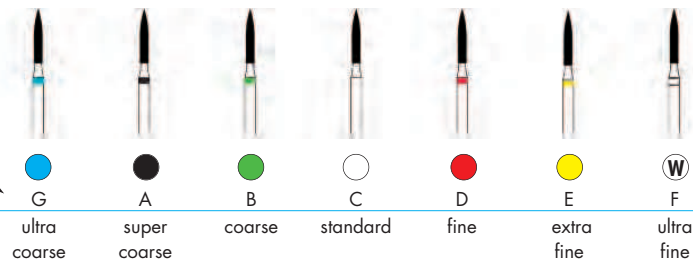
ø head mm

grain

ø 1,6

19-24 mm

Echelle : 1/1



MSA	Type
22.765-xxxx	850

	-012G	-014G	-016G	-018G	-023G
●	-012A	-014A	-016A	-018A	-023A
●	-012B	-014B	-016B	-018B	-023B
○	-012C	-014C	-016C	-018C	-023C
●	-012D	-014D	-016D	-018D	-023D
●	-012E	-	-016E	-	-023E
ø head	1.2	1.4	1.6	1.8	2.3
L head	10	10	10	10	10

MSA	Type
22.766-xxxx	852

	-	-012A
●	-	-012B
○	-010C	-012C
●	-010D	-012D
●	-010E	-012E
⊗	-010F	-012F
ø head	1.0	1.2
L head	4	6

MSA	Type
22.769-xxxx	859L

	-012C
○	-012C
ø head	1.2
L head	11

Order example:

MSA 22.800-xxxx

Extensions
(3 digits + 1 letter)

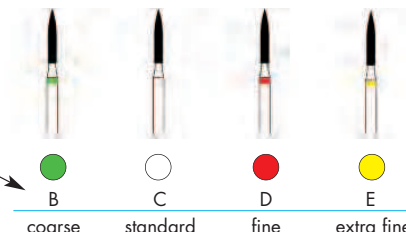
ø head mm

grain

ø 2,35

44.5-53 mm

Echelle : 1/1



MSA	Type
22.800-xxxx	858

	-012C	-016C
○	-012D	-016D
ø head	1.2	1.6
L head	8	8

MSA	Type
22.801-xxxx	859

	-014C
○	-014C
ø head	1.4
L head	10

MSA	Type
22.802-xxxx	909

	-	-040A	-
●	-	-040B	-
○	-033C	-040C	-050C
ø head	3.3	4.0	5.0
L head	1	1.7	2.2

MSA	Type
22.803-xxxx	825

	-	-	-040B
○	-018C	-025C	-040C
ø head	1.8	2.5	4.0
L head	0.8	0.9	1.1

MSA	Type
22.767-xxxx	858

	-	-014A	-	-
●	-012B	-014B	-016B	-018B
○	-012C	-014C	-016C	-018C
●	-012D	-014D	-016D	-
●	-012E	-014E	-016E	-
⊗	-	-014F	-	-
ø head	1.2	1.4	1.6	1.8
L head	8	8	8	8

MSA	Type
22.768-xxxx	859

	-010A	-012A	-014A	-016A	-018A
●	-010B	-012B	-014B	-016B	-018B
○	-010C	-012C	-014C	-016C	-018C
●	-010D	-012D	-014D	-016D	-018D
●	-010E	-012E	-014E	-016E	-018E
⊗	-	-012F	-	-016F	-018F
ø head	1.0	1.2	1.4	1.6	1.8
L head	10	10	10	10	10

➤ Diamond burs, shank ø 2.35 mm.

ASSORTMENT of 20 burs



MSA	Size mm	Kg
22.530	100 x 60 x 15	0.055

Assortment of 20 diamond burs. A variety of shapes are available for multiple uses.

» SPIREC HSS-E micro-drills, high speed steel.

Total length 25 mm :

MSA	Shank ø mm	ø mm	Progression mm
22.630-xxx	1.0	from ø 0.05 to ø 0.79	0.01
22.630-xxx	1.5	from ø 0.80 to ø 1.45	0.01

Total length 38 mm :

MSA	Shank ø mm	ø mm	Progression mm
22.630-xxx	2.0	from ø 1.50 to ø 1.98	0.05*

*For MSA 22.630-1.58, the shank ø is 1.587 mm and for MSA 22.630-1.98, the shank ø is 1.984 mm.

Total length 43 mm :

MSA	Shank ø mm	ø mm	Progression mm
22.630-xxx	2.5	from ø 2.00 to ø 2.45	0.05*

*For MSA 22.630-2.38, the shank ø is 2.384 mm.

Total length 46 mm :

MSA	Shank ø mm	ø mm	Progression mm
22.630-xxx	3.0	from ø 2.50 to ø 3.17	0.05*

*For MSA 22.630-2.77, the shank ø is 2.778 mm and for MSA 22.630-3.17, the shank ø is 3.175 mm.

» See other tempered tool steel drills, with shanks ø 2.35 mm page 22 31.

» TITEX HSS micro-drills, standard for universal use.



» MSA 22.660-xxx, please precise the ø when you place your.

MSA	ø mm	Progression mm
22.660-xxx	from ø 0.020 to ø 0.199	0.01
22.660-xxx	from ø 0.200 to ø 16.5	0.05

» YAMAMOTO HSS micro-drills.



» MSA 22.670-xxx, please precise the ø when you place your.

MSA	ø mm	Progression mm
22.670-xxx	from ø 0.010 to ø 1.50	0.01

» SPIREC micro-drills in hardened steel.



» MSA 22.640-xxx, please precise the ø when you place your.

Total length 25 mm :

MSA	Shank ø mm	ø mm	Progression mm
22.640-xxx	1.0	from ø 0.10 to ø 0.79	0.01
22.640-xxx	1.5	from ø 0.80 to ø 1.00	0.01
22.640-xxx	1.5	from ø 1.05 to ø 1.55	0.05

» Tempered tool steel drills, shank ø 2.35 mm.



» MSA 22.610-xxx, please precise the ø when you place your.

MSA	Type	ø mm	Progression mm
22.610-xxx	58PM	from ø 0.05 to ø 2.3	0.01

» Tungsten carbide drills, shank ø 2.35 mm.



» MSA 22.412-xxx, please precise the ø when you place your.

MSA	Type	ø mm	Progression mm
22.412-xxx	58MD	from ø 0.05 to ø 2.3	0.01

» Diamond drills, shank ø 2.35 mm.



» MSA 22.650-xxx, please precise the ø when you place your.

MSA	ø mm	Progression mm
22.650-xxx	from ø 0.7 to ø 1.5	0.1