

Fraise en métal dur.



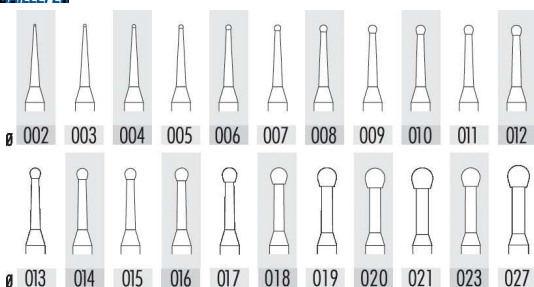
MSA	Longueur totale	Kg
22.558-270	25 mm (5 mm)	0.001

Fraise en métal dur pour pieds de cadran.  
- Corps Ø 3.00 ; coupe Ø 2.70 mm.

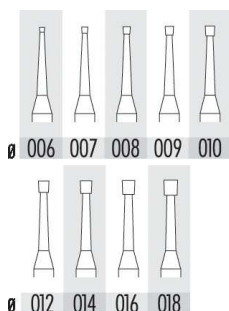
Fraises en carbure de tungstène, tige Ø 2.35 mm.

Exemple de commande : MSA22.400-xxx  
(Extensions 3 chiffres = Ø tête mm)

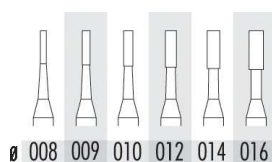
MSA22.400-002 = Ø tête 0.20 mm  
MSA22.400-027 = Ø tête 2.70 mm



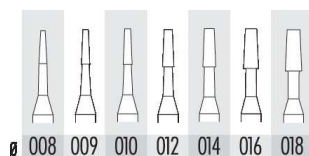
MSA	Type	Forme	Ø tête	Kg
22.400-002	123	Ronde	0.20 mm	0.001
...	...	...	...	...
22.400-027	123	Ronde	2.70 mm	0.001



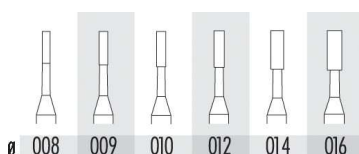
MSA	Type	Forme	Ø tête	Kg
22.401-006	124	Cône inversé	0.60 mm	0.001
...	...	...	...	...
22.401-018	124	Cône inversé	1.80 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.404-008	129	Cylindrique	0.80 mm	0.001
...	...	...	...	...
22.404-016	129	Cylindrique	1.60 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.405-008	130	Cône	0.80 mm	0.001
...	...	...	...	...
22.405-018	130	Cône	1.80 mm	0.001



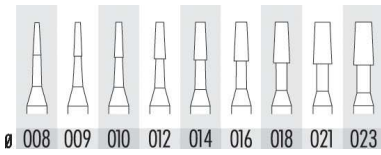
MSA	Type	Forme	Ø tête	Kg
22.407-008	137	Cylindrique	0.80 mm	0.001
...	...	...	...	...
22.407-016	137	Cylindrique	1.60 mm	0.001



# FRAISES

Exemple de commande : MSA22.400-xxx  
(Extensions 3 chiffres = Ø tête mm)

MSA22.400-008 = Ø tête 0.80 mm  
MSA22.400-023 = Ø tête 2.30 mm



MSA	Type	Forme	Ø tête	Kg
22.408-008	138	Cône	0.80 mm	0.001
...	...	...	...	...
22.408-023	138	Cône	2.30 mm	0.001

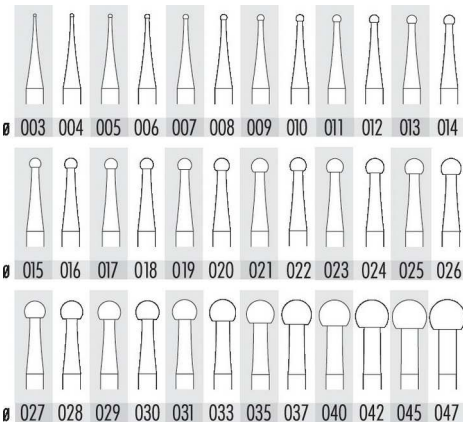


MSA	Type	Longueur	Ø tête	Kg
22.450	Standard	12.20 mm	6 mm	0.002
22.450-F	Fin	12.20 mm	6 mm	0.002

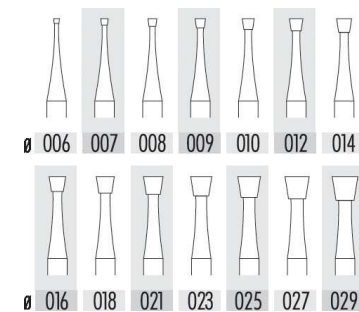
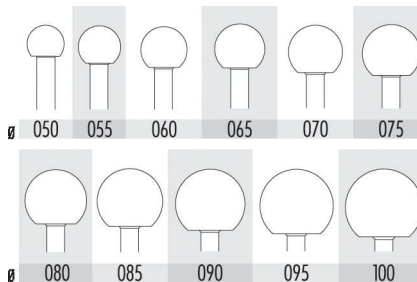
## Fraises en acier à outils, tige Ø 2.35 mm.

Exemple de commande : MSA22.300-xxx  
(Extensions 3 chiffres = Ø tête mm)

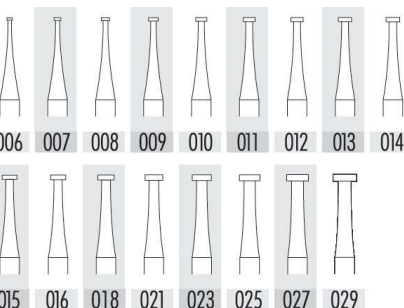
MSA22.300-003 = Ø tête 0.30 mm  
MSA22.300-100 = Ø tête 10.00 mm



MSA	Type	Forme	Ø tête	Kg
22.300-003	23	Ronde	0.30 mm	0.001
...	...	...	...	...
22.300-100	23	Ronde	10.00 mm	0.001

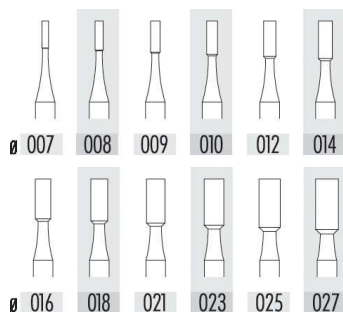


MSA	Type	Forme	Ø tête	Kg
22.301-006	24	Cône inversé	0.60 mm	0.001
...	...	...	...	...
22.301-029	24	Cône inversé	2.90 mm	0.001

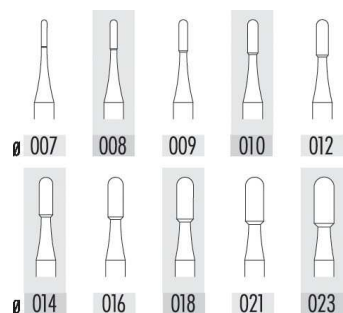


MSA	Type	Forme	Ø tête	Kg
22.302-006	25	Roue	0.60 mm	0.001
...	...	...	...	...
22.302-029	25	Roue	2.90 mm	0.001

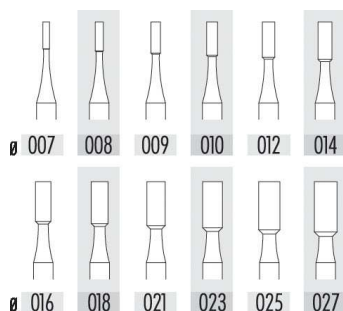




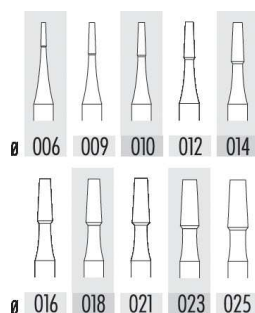
MSA	Type	Forme	Ø tête	Kg
22.303-007	26	Cylindrique	0.70 mm	0.001
...	...	...	...	...
22.303-027	26	Cylindrique	2.70 mm	0.001



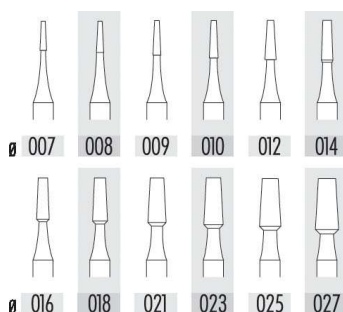
MSA	Type	Forme	Ø tête	Kg
22.304-007	28	Cylindrique	0.70 mm	0.001
...	...	...	...	...
22.304-023	28	Cylindrique	2.30 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.312-007	29	Cylindrique	0.70 mm	0.001
...	...	...	...	...
22.312-027	29	Cylindrique	2.70 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.305-009	30	Cône	0.90 mm	0.001
...	...	...	...	...
22.305-025	30	Cône	2.50 mm	0.001



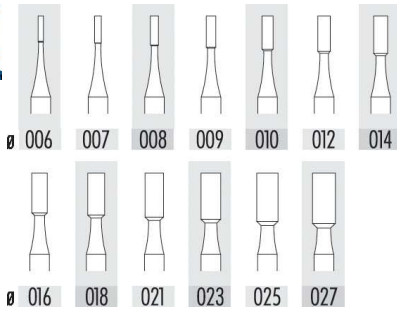
MSA	Type	Forme	Ø tête	Kg
22.313-007	31	Cône	0.70 mm	0.001
...	...	...	...	...
22.313-027	31	Cône	2.70 mm	0.001



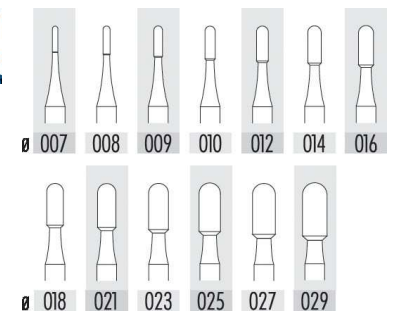
# FRAISES

Exemple de commande : MSA22.306-xxx  
(Extensions 3 chiffres = Ø tête mm)

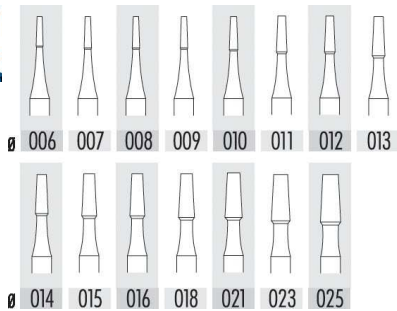
MSA22.306-006 = Ø tête 0.60 mm  
MSA22.308-027 = Ø tête 2.70 mm



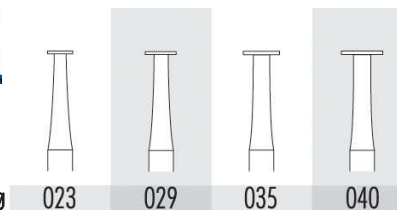
MSA	Type	Forme	Ø tête	Kg
22.306-006	34	Cylindrique	0.60 mm	0.001
...	...	...	...	...
22.306-027	34	Cylindrique	2.70 mm	0.001



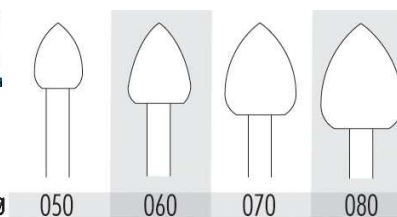
MSA	Type	Forme	Ø tête	Kg
22.308-007	36	Cylindrique	0.70 mm	0.001
...	...	...	...	...
22.308-029	36	Cylindrique	2.90 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.309-006	38	Cône	0.60 mm	0.001
...	...	...	...	...
22.309-025	38	Cône	2.50 mm	0.001

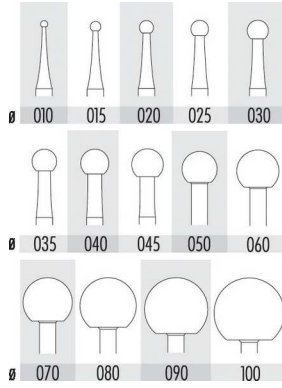


MSA	Type	Forme	Ø tête	Kg
22.311-023	45	Roue	2.30 mm	0.001
...	...	...	...	...
22.311-040	45	Roue	4.00 mm	0.001

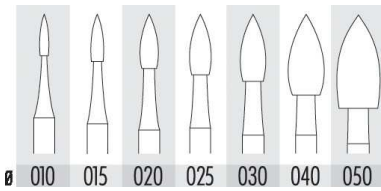


MSA	Type	Forme	Ø tête	Kg
22.211-050	83	Ogive	5.00 mm	0.001
...	...	...	...	...
22.211-080	83	Ogive	8.00 mm	0.001

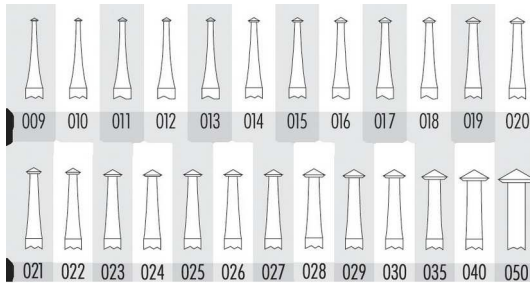




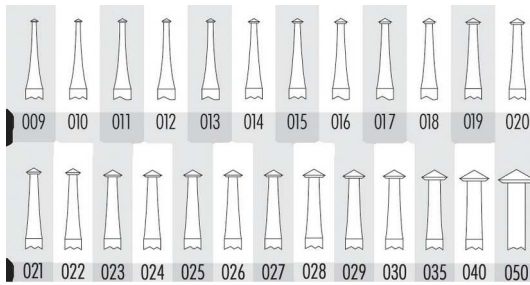
MSA	Type	Forme	Ø tête	Kg
22.100-010	A	Ronde fine	1.00 mm	0.001
...	...	...	...	...
22.100-100	A	Ronde fine	10.00 mm	0.001



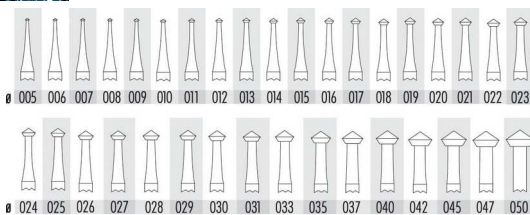
MSA	Type	Forme	Ø tête	Kg
22.102-010	G	Flamme fine	1.00 mm	0.001
...	...	...	...	...
22.102-050	G	Flamme fine	5.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.103-009	H	Double cône 120°	0.90 mm	0.001
...	...	...	...	...
22.103-050	H	Double cône 120°	5.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.121-005	HB	Double cône 70°	0.50 mm	0.001
...	...	...	...	...
22.121-037	HB	Double cône 70°	3.70 mm	0.001

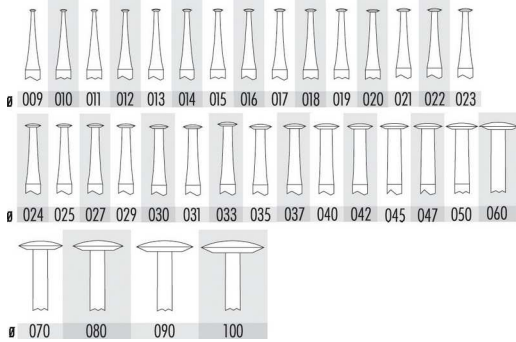


MSA	Type	Forme	Ø tête	Kg
22.104-005	HD	Double cône 90°	0.50 mm	0.001
...	...	...	...	...
22.104-050	HD	Double cône 90°	5.00 mm	0.001

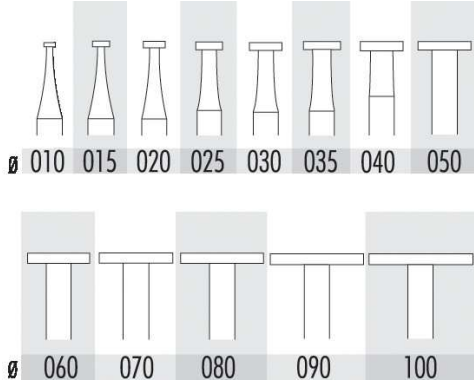


Exemple de commande : MSA22.105-xxx  
(Extensions 3 chiffres = Ø tête mm)

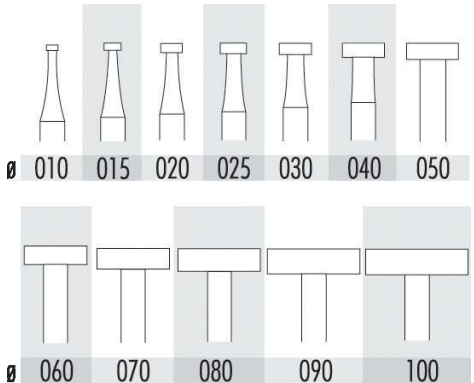
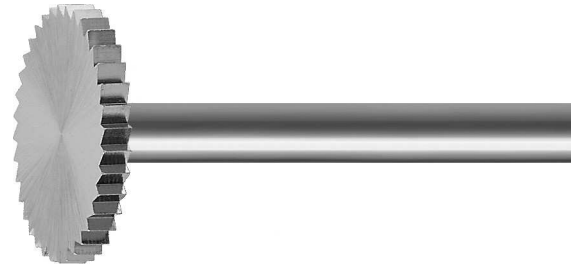
MSA22.105-009 = Ø tête 0.90 mm  
MSA22.105-100 = Ø tête 10.00 mm



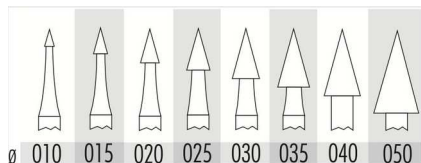
MSA	Type	Forme	Ø tête	Kg
22.105-009	HH	Lentille	0.90 mm	0.001
...	...	...	...	...
22.105-100	HH	Lentille	10.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.107-010	K	Roue	1.00 mm	0.001
...	...	...	...	...
22.107-100	K	Roue	10.00 mm	0.001

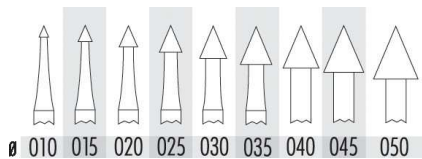


MSA	Type	Forme	Ø tête	Kg
22.110-010	KK	Roue	1.00 mm	0.001
...	...	...	...	...
22.110-100	KK	Roue	10.00 mm	0.001

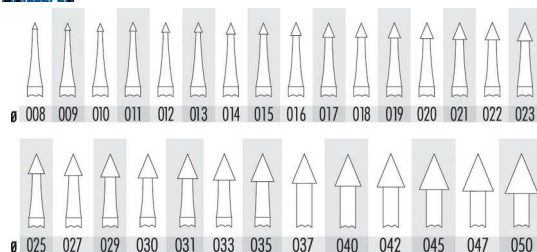


MSA	Type	Forme	Ø tête	Kg
22.112-010	N	Cône 30°	1.00 mm	0.001
...	...	...	...	...
22.112-050	N	Cône 30°	5.00 mm	0.001

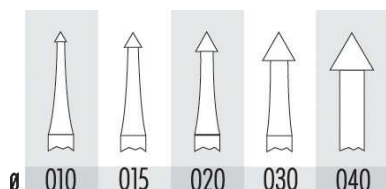




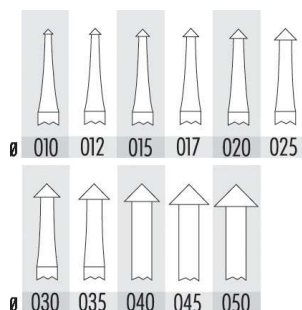
MSA	Type	Forme	Ø tête	Kg
22.113-010	NN (fine)	Cône 45°	1.00 mm	0.001
...	...	...	...	...
22.113-050	NN (fine)	Cône 45°	5.00 mm	0.001



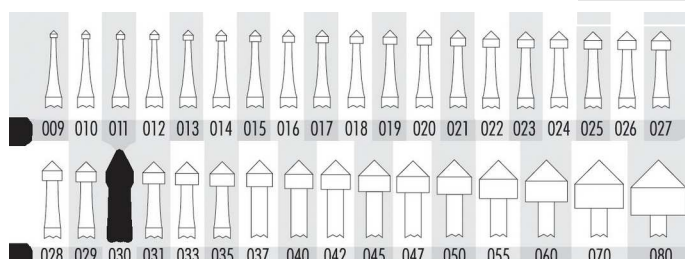
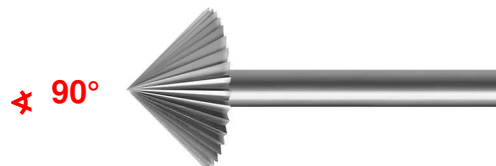
MSA	Type	Forme	Ø tête	Kg
22.123-008	NN (grossier)	Cône 45°	0.80 mm	0.001
...	...	...	...	...
22.123-050	NN (grossier)	Cône 45°	5.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.114-010	O	Cône 60°	1.00 mm	0.001
...	...	...	...	...
22.114-040	O	Cône 60°	4.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.115-010	P	Cône 90°	1.00 mm	0.001
...	...	...	...	...
22.115-050	P	Cône 90°	5.00 mm	0.001



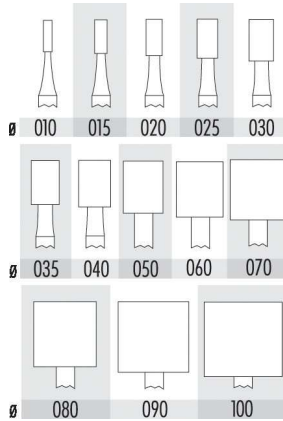
MSA	Type	Forme	Ø tête	Kg
22.116-009	Q	Cylindrique pointue	0.90 mm	0.001
...	...	...	...	...
22.116-080	Q	Cylindrique pointue	8.00 mm	0.001



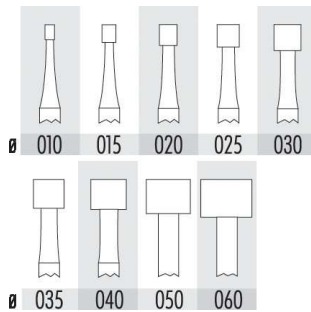
# FRAISES

Exemple de commande : MSA22.117-xxx  
(Extensions 3 chiffres = Ø tête mm)

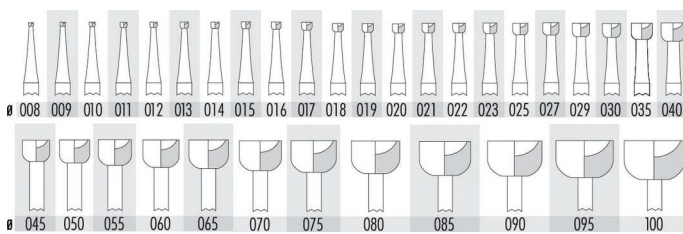
MSA22.117-010 = Ø tête 0.10 mm  
MSA22.117-100 = Ø tête 10.00 mm



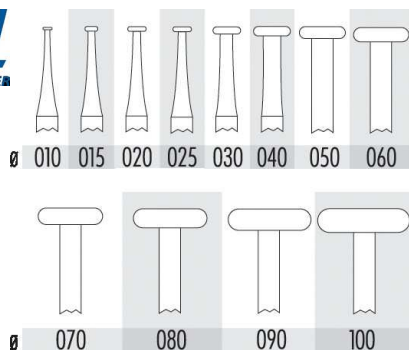
MSA	Type	Forme	Ø tête	Kg
22.117-010	R	Cylindrique	1.00 mm	0.001
...	...	...	...	...
22.117-100	R	Cylindrique	10.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.122-010	RR	Cylindrique	1.00 mm	0.001
...	...	...	...	0.001
22.122-060	RR	Cylindrique	6.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.119-008	S	Cylindrique creuse	0.80 mm	0.001
...	...	...	...	...
22.119-100	S	Cylindrique creuse	10.00 mm	0.001



MSA	Type	Forme	Ø tête	Kg
22.118-010	Y	Roue biseautée	1.00 mm	0.001
...	...	...	...	0.001
22.118-100	Y	Roue biseautée	10.00 mm	0.001



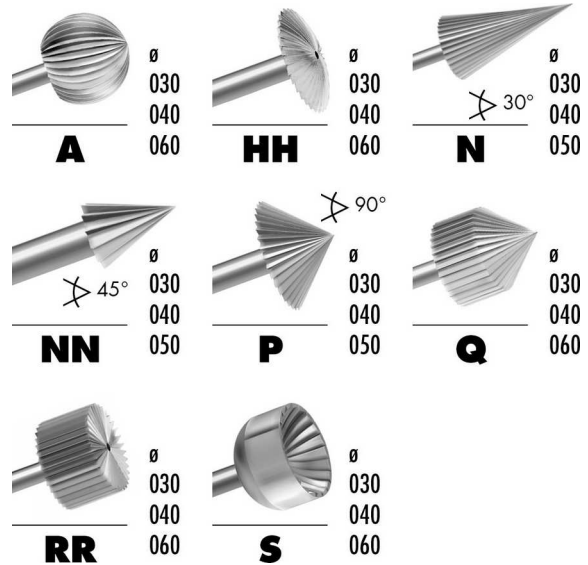


Assortiments de 24 fraises en acier à outils, livrés dans 1 boîte en plastique.



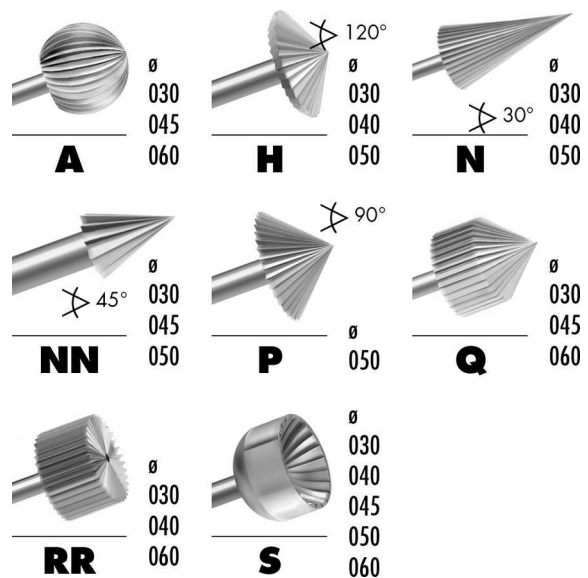
ASSORTIMENT

MSA	Type	Ø tige	Kg
22.500	1235	2.35 mm	0.090



ASSORTIMENT

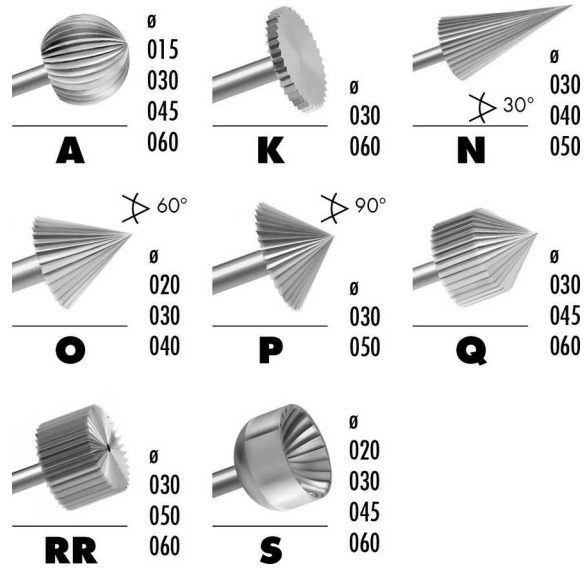
MSA	Type	Ø tige	Kg
22.510	3235	2.35 mm	0.090





ASSORTIMENT

MSA	Type	Ø tige	Kg
22.515	4235	2.35 mm	0.090



ASSORTIMENT

MSA	Type	Ø tige	Kg
22.520	8235	2.35 mm	0.090

