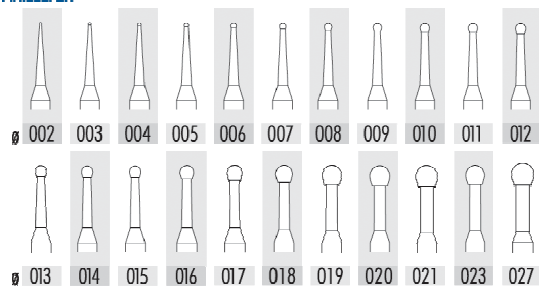


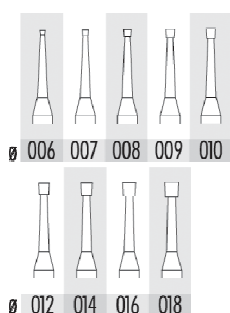
## Tungsten carbide burs, shank Ø 2.35 mm.

Order example : MSA22.400-xxxx  
(Extensions 3 digits = Ø head mm)

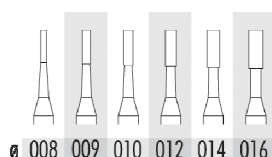
MSA22.400-008 = Ø head 0.80 mm  
MSA22.400-027 = Ø head 2.70 mm



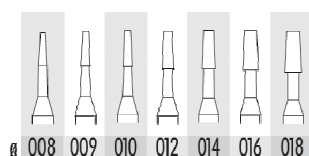
| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.400-002 | 123  | Round | 0.20 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.400-027 | 123  | Round | 2.70 mm | 0.001 |



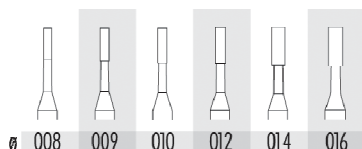
| MSA        | Type | Shape         | Ø head  | Kg    |
|------------|------|---------------|---------|-------|
| 22.401-006 | 124  | Inverted cone | 0.60 mm | 0.001 |
| ...        | ...  | ...           | ...     | ...   |
| 22.401-018 | 124  | Inverted cone | 1.80 mm | 0.001 |



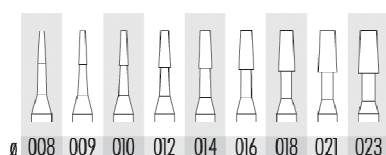
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.404-008 | 129  | Cylindrical | 0.80 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.404-016 | 129  | Cylindrical | 1.60 mm | 0.001 |



| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.405-008 | 130  | Cone  | 0.80 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.405-018 | 130  | Cone  | 1.80 mm | 0.001 |



| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.407-008 | 137  | Cylindrical | 0.80 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.407-016 | 137  | Cylindrical | 1.60 mm | 0.001 |



| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.408-008 | 138  | Cone  | 0.80 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.408-023 | 138  | Cone  | 2.30 mm | 0.001 |



## END MILLS

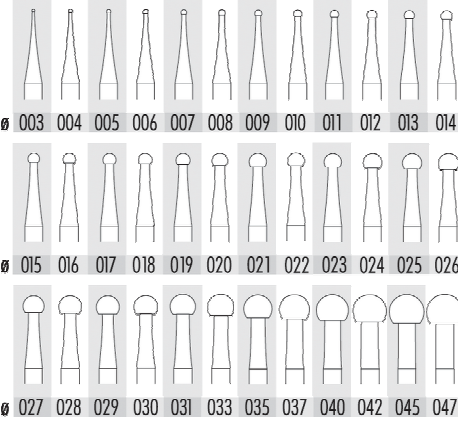


| MSA      | Type     | Length   | Ø head | Kg    |
|----------|----------|----------|--------|-------|
| 22.450   | Standard | 12.20 mm | 6 mm   | 0.002 |
| 22.450-F | Fine     | 12.20 mm | 6 mm   | 0.002 |

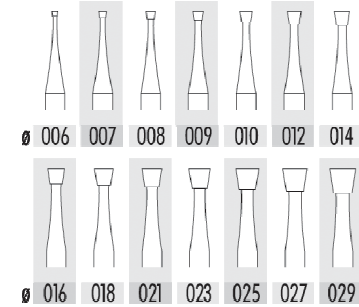
Tool steel burs, shank Ø 2.35 mm.

Order example : MSA22.300-xxxx  
(Extensions 3 digits = Ø head mm)

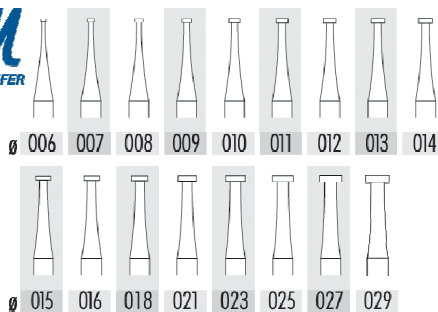
MSA22.300-003 = Ø head 0.30 mm  
MSA22.400-047 = Ø head 4.70 mm



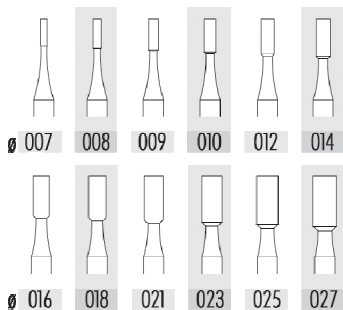
| MSA        | Type | Shape | Ø head   | Kg    |
|------------|------|-------|----------|-------|
| 22.300-003 | 23   | Round | 0.30 mm  | 0.001 |
| ...        | ...  | ...   | ...      | ...   |
| 22.300-100 | 23   | Round | 10.00 mm | 0.001 |

| MSA        | Type | Shape         | Ø head  | Kg    |
|------------|------|---------------|---------|-------|
| 22.301-006 | 24   | Inverted cone | 0.60 mm | 0.001 |
| ...        | ...  | ...           | ...     | ...   |
| 22.301-029 | 24   | Inverted cone | 2.90 mm | 0.001 |

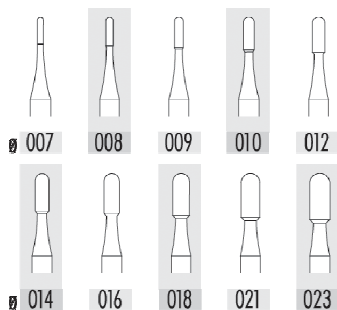


| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.302-006 | 25   | Wheel | 0.60 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.302-029 | 25   | Wheel | 2.90 mm | 0.001 |

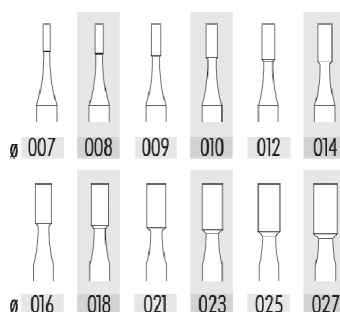


| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.303-007 | 26   | Cylindrical | 0.70 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.303-027 | 26   | Cylindrical | 2.70 mm | 0.001 |

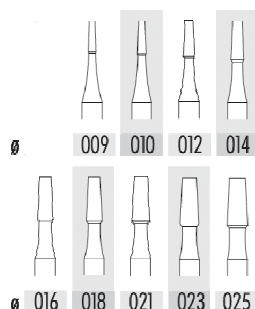




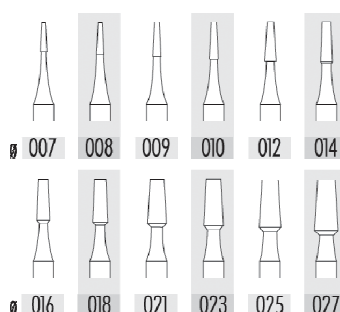
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.304-007 | 28   | Cylindrical | 0.70 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.304-023 | 28   | Cylindrical | 2.30 mm | 0.001 |



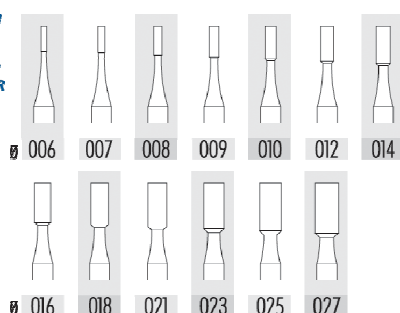
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.312-007 | 29   | Cylindrical | 0.70 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.312-027 | 29   | Cylindrical | 2.70 mm | 0.001 |



| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.305-009 | 30   | Cone  | 0.90 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.305-025 | 30   | Cone  | 2.50 mm | 0.001 |



| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.313-007 | 31   | Cone  | 0.70 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.313-027 | 31   | Cone  | 2.70 mm | 0.001 |



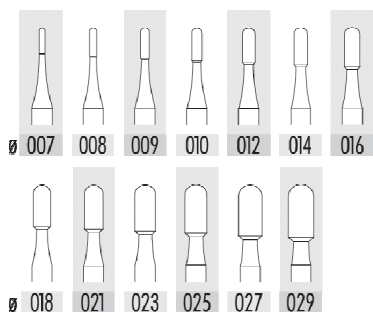
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.306-006 | 34   | Cylindrical | 0.60 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.306-027 | 34   | Cylindrical | 2.70 mm | 0.001 |



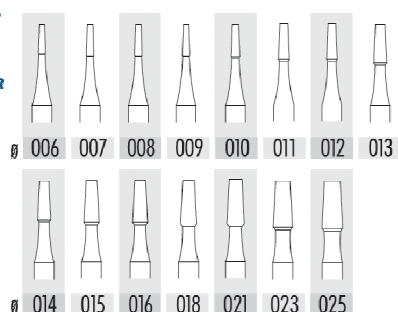
## END MILLS

Order example : MSA22.308-xxxx  
(Extensions 3 digits = Ø head mm)

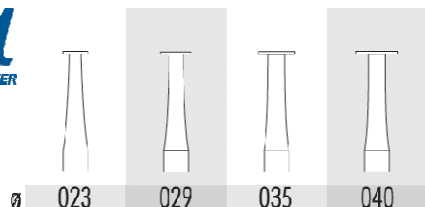
MSA22.308-007 = Ø head 0.70 mm  
MSA22.308-029 = Ø head 2.90 mm



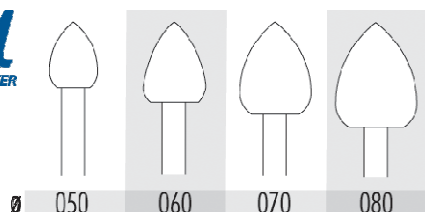
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.308-007 | 36   | Cylindrical | 0.70 mm | 0.001 |
| ...        | ...  | ...         | ...     | ...   |
| 22.308-029 | 36   | Cylindrical | 2.90 mm | 0.001 |



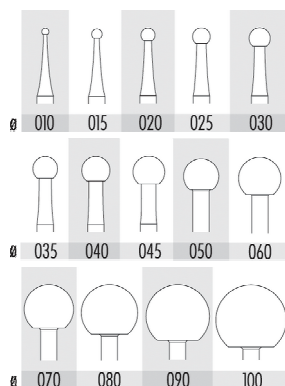
| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.309-006 | 38   | Cone  | 0.60 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.309-025 | 38   | Cone  | 2.50 mm | 0.001 |



| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.311-023 | 45   | Wheel | 2.30 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.311-040 | 45   | Wheel | 4.00 mm | 0.001 |

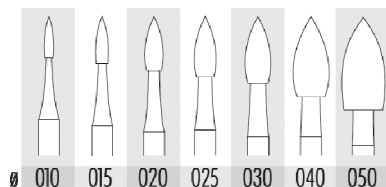


| MSA        | Type | Shape | Ø head  | Kg    |
|------------|------|-------|---------|-------|
| 22.211-050 | 83   | Bud   | 5.00 mm | 0.001 |
| ...        | ...  | ...   | ...     | ...   |
| 22.211-080 | 83   | Bud   | 8.00 mm | 0.001 |

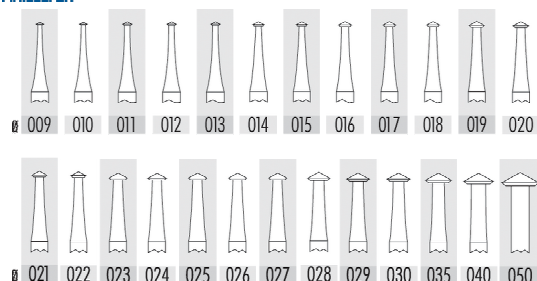


| MSA        | Type | Shape      | Ø head   | Kg    |
|------------|------|------------|----------|-------|
| 22.100-010 | A    | Fine round | 1.00 mm  | 0.001 |
| ...        | ...  | ...        | ...      | ...   |
| 22.100-100 | A    | Fine round | 10.00 mm | 0.001 |

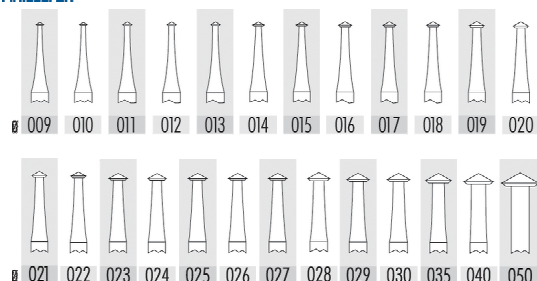
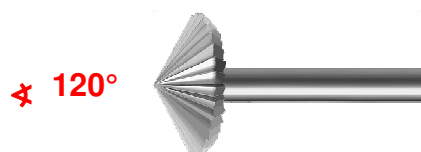




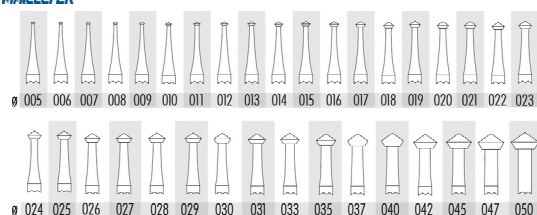
| MSA        | Type | Shape      | Ø head  | Kg    |
|------------|------|------------|---------|-------|
| 22.102-010 | G    | Fine flame | 1.00 mm | 0.001 |
| ...        | ...  | ...        | ...     | ...   |
| 22.102-050 | G    | Fine flame | 5.00 mm | 0.001 |



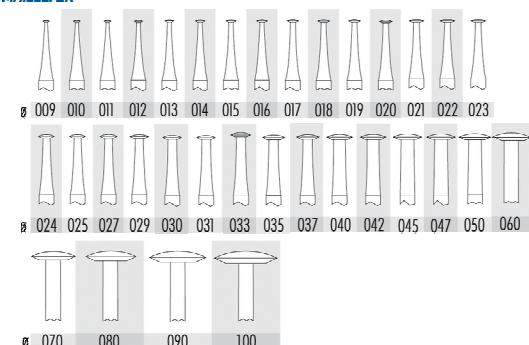
| MSA        | Type | Shape            | Ø head  | Kg    |
|------------|------|------------------|---------|-------|
| 22.103-009 | H    | Double cone 120° | 0.90 mm | 0.001 |
| ...        | ...  | ...              | ...     | ...   |
| 22.103-050 | H    | Double cone 120° | 5.00 mm | 0.001 |



| MSA        | Type | Shape           | Ø head  | Kg    |
|------------|------|-----------------|---------|-------|
| 22.121-005 | HB   | Double cone 70° | 0.50 mm | 0.001 |
| ...        | ...  | ...             | ...     | ...   |
| 22.121-037 | HB   | Double cone 70° | 3.70 mm | 0.001 |



| MSA        | Type | Shape           | Ø head  | Kg    |
|------------|------|-----------------|---------|-------|
| 22.104-005 | HD   | Double cone 90° | 0.50 mm | 0.001 |
| ...        | ...  | ...             | ...     | ...   |
| 22.104-050 | HD   | Double cone 90° | 5.00 mm | 0.001 |



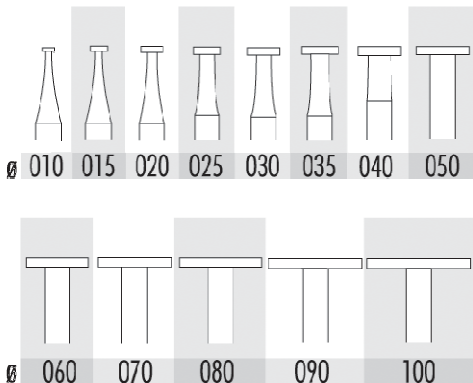
| MSA        | Type | Shape | Ø head   | Kg    |
|------------|------|-------|----------|-------|
| 22.105-009 | HH   | Lens  | 0.90 mm  | 0.001 |
| ...        | ...  | ...   | ...      | ...   |
| 22.105-100 | HH   | Lens  | 10.00 mm | 0.001 |



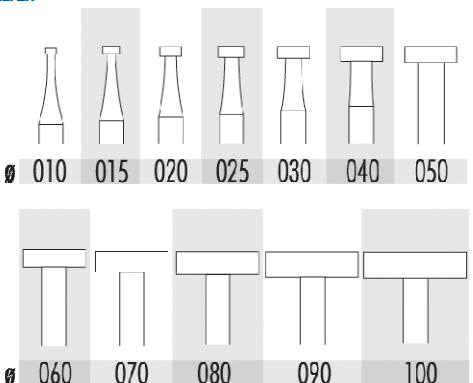
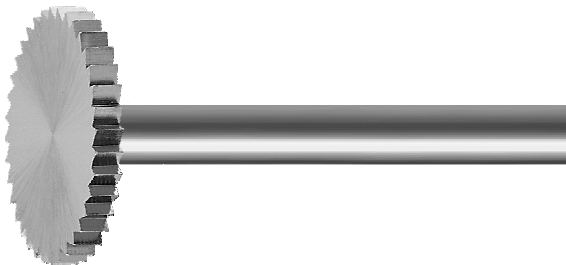
# END MILLS

Order example : MSA22.107-xxxx  
(Extensions 3 digits = Ø head mm)

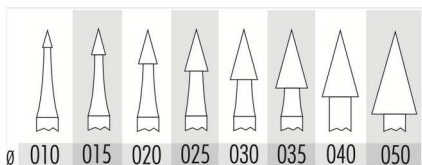
MSA22.107-010 = Ø head 0.10 mm  
MSA22.107-100 = Ø head 10.00 mm



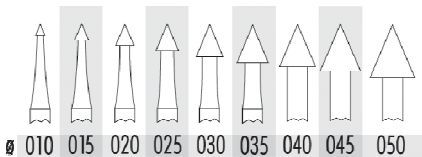
| MSA        | Type | Shape | Ø head   | Kg    |
|------------|------|-------|----------|-------|
| 22.107-010 | K    | Wheel | 1.00 mm  | 0.001 |
| ...        | ...  | ...   | ...      | ...   |
| 22.107-100 | K    | Wheel | 10.00 mm | 0.001 |



| MSA        | Type | Shape | Ø head   | Kg    |
|------------|------|-------|----------|-------|
| 22.110-010 | KK   | Wheel | 1.00 mm  | 0.001 |
| ...        | ...  | ...   | ...      | ...   |
| 22.110-100 | KK   | Wheel | 10.00 mm | 0.001 |

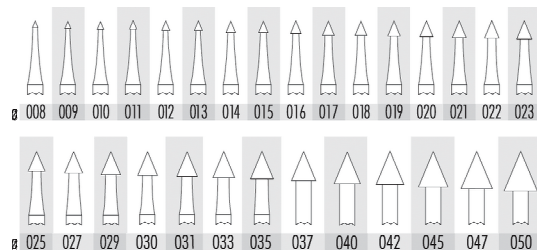


| MSA        | Type | Shape    | Ø head  | Kg    |
|------------|------|----------|---------|-------|
| 22.112-010 | N    | Cone 30° | 1.00 mm | 0.001 |
| ...        | ...  | ...      | ...     | ...   |
| 22.112-050 | N    | Cone 30° | 5.00 mm | 0.001 |

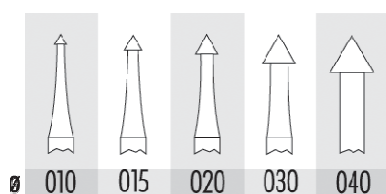


| MSA        | Type      | Shape    | Ø head  | Kg    |
|------------|-----------|----------|---------|-------|
| 22.113-010 | NN (fine) | Cone 45° | 1.00 mm | 0.001 |
| ...        | ...       | ...      | ...     | ...   |
| 22.113-050 | NN (fine) | Cone 45° | 5.00 mm | 0.001 |

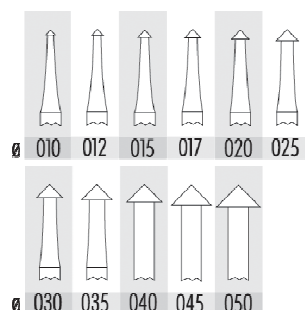




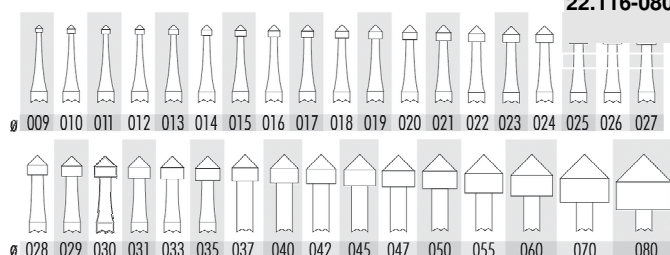
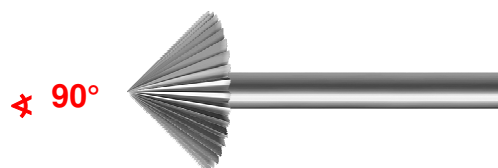
| MSA        | Type        | Shape    | Ø head  | Kg    |
|------------|-------------|----------|---------|-------|
| 22.123-008 | NN (coarse) | Cone 45° | 0.80 mm | 0.001 |
| ...        | ...         | ...      | ...     | ...   |
| 22.123-050 | NN (coarse) | Cone 45° | 5.00 mm | 0.001 |



| MSA        | Type | Shape    | Ø head  | Kg    |
|------------|------|----------|---------|-------|
| 22.114-010 | O    | Cone 60° | 1.00 mm | 0.001 |
| ...        | ...  | ...      | ...     | ...   |
| 22.114-040 | O    | Cone 60° | 4.00 mm | 0.001 |



| MSA        | Type | Shape    | Ø head  | Kg    |
|------------|------|----------|---------|-------|
| 22.115-010 | P    | Cone 90° | 1.00 mm | 0.001 |
| ...        | ...  | ...      | ...     | ...   |
| 22.115-050 | P    | Cone 90° | 5.00 mm | 0.001 |



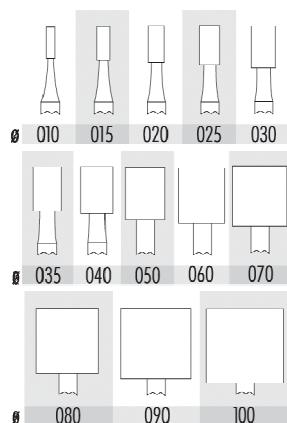
| MSA        | Type | Shape                 | Ø head  | Kg    |
|------------|------|-----------------------|---------|-------|
| 22.116-009 | Q    | Cylindrical sharpened | 0.90 mm | 0.001 |
| ...        | ...  | ...                   | ...     | ...   |
| 22.116-080 | Q    | Cylindrical sharpened | 8.00 mm | 0.001 |



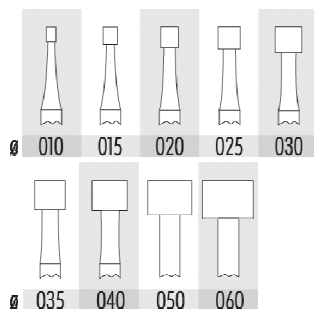
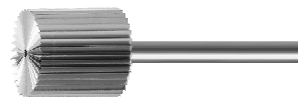
## END MILLS

Order example : MSA22.117-xxxx  
(Extensions 3 digits = Ø head mm)

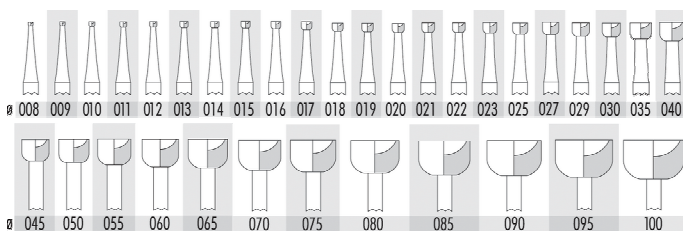
MSA22.117-010 = Ø head 0.10 mm  
MSA22.117-100 = Ø head 10.00 mm



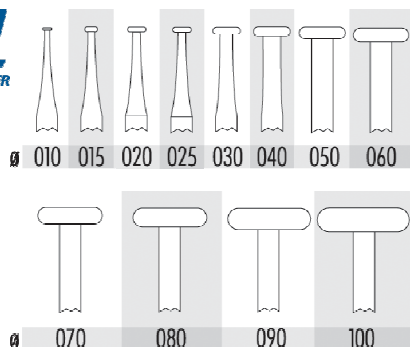
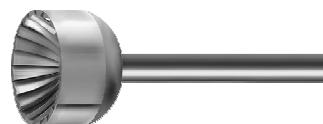
| MSA        | Type | Shape       | Ø head   | Kg    |
|------------|------|-------------|----------|-------|
| 22.117-010 | R    | Cylindrical | 1.00 mm  | 0.001 |
| ...        | ...  | ...         | ...      | ...   |
| 22.117-100 | R    | Cylindrical | 10.00 mm | 0.001 |



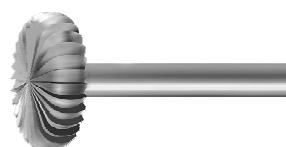
| MSA        | Type | Shape       | Ø head  | Kg    |
|------------|------|-------------|---------|-------|
| 22.122-010 | RR   | Cylindrical | 1.00 mm | 0.001 |
| ...        | ...  | ...         | ...     | 0.001 |
| 22.122-060 | RR   | Cylindrical | 6.00 mm | 0.001 |



| MSA        | Type | Shape | Ø head   | Kg    |
|------------|------|-------|----------|-------|
| 22.119-008 | S    | Cup   | 0.80 mm  | 0.001 |
| ...        | ...  | ...   | ...      | ...   |
| 22.119-100 | S    | Cup   | 10.00 mm | 0.001 |



| MSA        | Type | Shape         | Ø head   | Kg    |
|------------|------|---------------|----------|-------|
| 22.118-010 | Y    | Beveled wheel | 1.00 mm  | 0.001 |
| ...        | ...  | ...           | ...      | 0.001 |
| 22.118-100 | Y    | Beveled wheel | 10.00 mm | 0.001 |

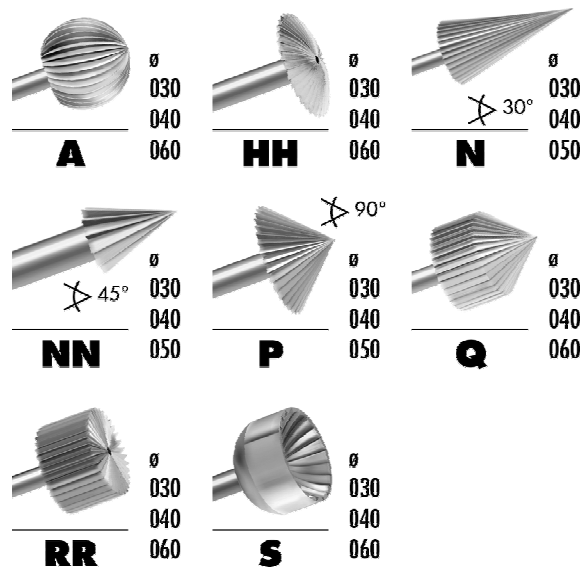


Assortments of 24 tool steel burs, delivered in a plastic box.



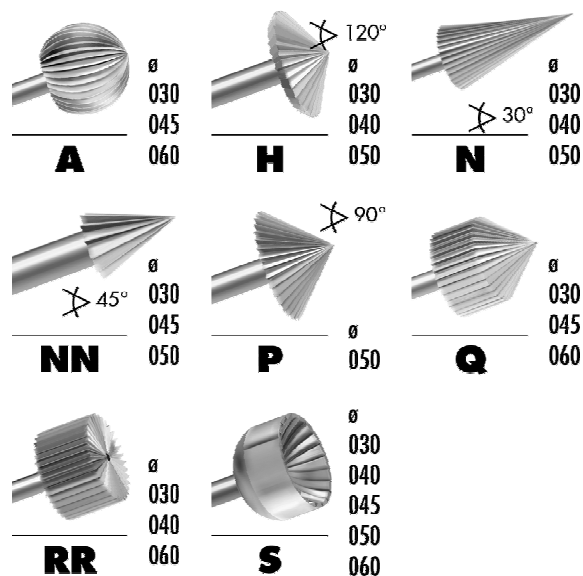
ASSORTMENT

| MSA    | Type | Ø shank | Kg    |
|--------|------|---------|-------|
| 22.500 | 1235 | 2.35 mm | 0.090 |



ASSORTMENT

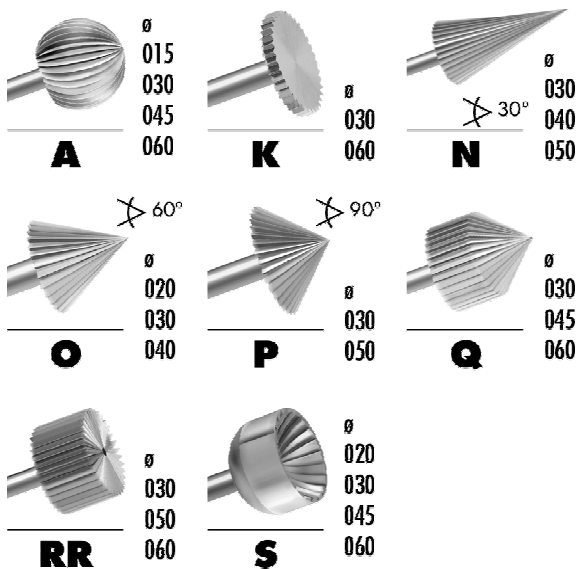
| MSA    | Type | Ø shank | Kg    |
|--------|------|---------|-------|
| 22.510 | 3235 | 2.35 mm | 0.090 |





ASSORTMENT

| MSA    | Type | Ø shank | Kg    |
|--------|------|---------|-------|
| 22.515 | 4235 | 2.35 mm | 0.090 |



ASSORTMENT

| MSA    | Type | Ø shank | Kg    |
|--------|------|---------|-------|
| 22.520 | 8235 | 2.35 mm | 0.090 |

