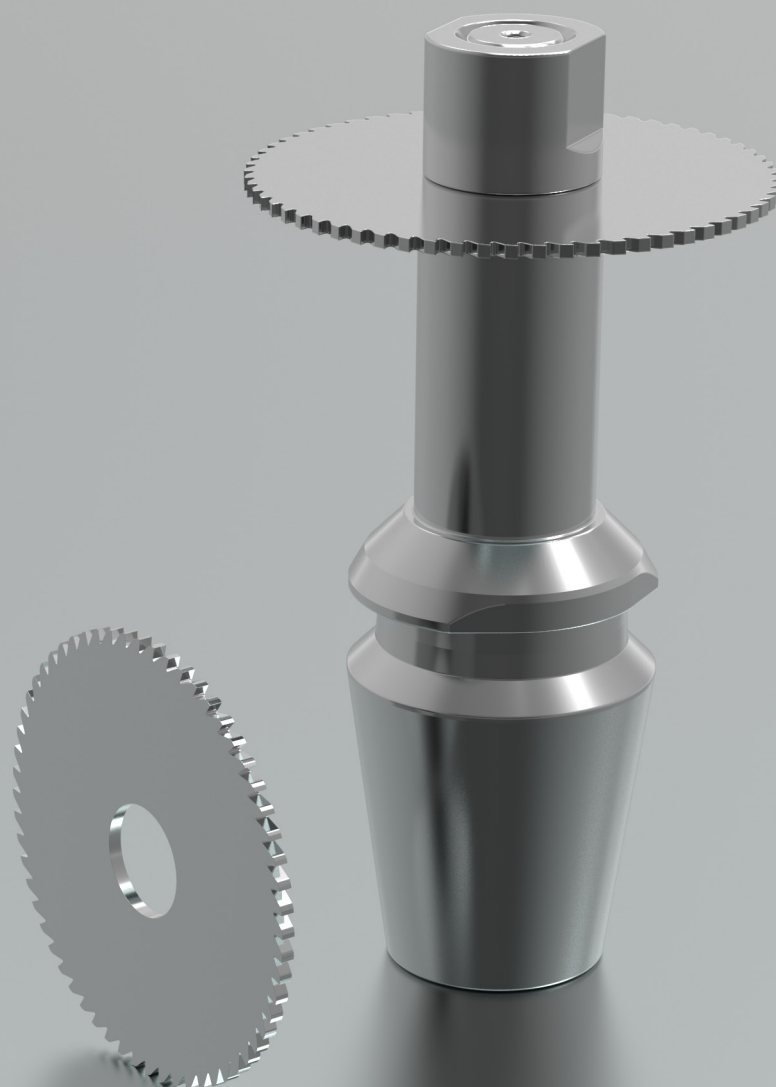


## **multidec**<sup>®</sup>-SAW

SOLID CARBIDE CIRCULAR SAW BLADES



**NOVELTY**

With multidec®-SAW, UTILIS is providing a range of versatile, high performance solid carbide circular saw blades that are ideal for flexible use in different production environments. They are the ideal choice for applications in metal processing, mechanical engineering and industrial manufacturing. With these powerful saw blades you are investing in a long-lasting and economical tool which will provide reliable, clean and precise cutting results at the highest level.

## Legend

### Dimensions

All dimensions are in millimeter (mm).

### Page information

□ 12... See page 12 and the following (example)

### Availability

- 12345** Standard articles
- 12345** Standard articles, new in this catalog
- 12345** Discontinued articles

### Order designation

| Order designation                                                                                      | Grade                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------|
| ⚠ To the designation of the selected type of product, the desired cutting material code must be added. | without coating<br><b>1</b><br>HMB |
| UMS 0120155 ... <b>1</b>                                                                               | Art. no.<br><b>556254</b> <b>2</b> |

**1** Order using order designation:  
UMS 0120155 HMB

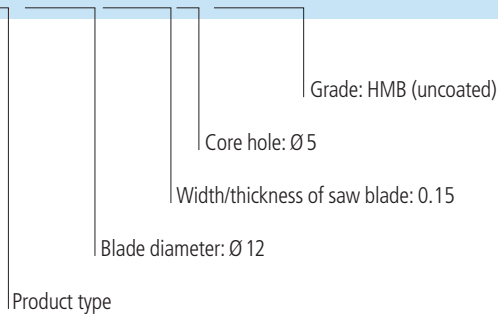
**2** Order using art. no.:  
**556254**

### Symbols for tool attributes



## Circular saw blade naming system

### UMS 0120155 HMB



|                                 |   |
|---------------------------------|---|
| Circular saw blade cutting data | 4 |
| Technical formulas              | 4 |
| Application tips                | 5 |

#### Circular saw blades

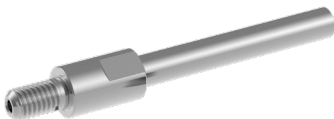
|            | d <sub>1</sub> | d <sub>2</sub> | b         |    |
|------------|----------------|----------------|-----------|----|
| UMS 012... | 12             | 5              | 0.15–1.00 | 6  |
| UMS 015... | 15             | 5              | 0.15–3.00 | 7  |
| UMS 020... | 20             | 5              | 0.15–3.00 | 8  |
| UMS 025... | 25             | 8              | 0.20–3.00 | 9  |
| UMS 030... | 30             | 8              | 0.20–3.00 | 10 |
| UMS 040... | 40             | 10             | 0.20–3.00 | 11 |
| UMS 050... | 50             | 13             | 0.20–3.00 | 12 |
| UMS 063... | 63             | 16             | 0.20–3.00 | 13 |
| UMS 080... | 80             | 22             | 0.50–3.00 | 14 |
| UMS 100... | 100            | 22             | 0.80–3.00 | 15 |



#### Monoblock ER tool holders

|                                                                                     |           |    |
|-------------------------------------------------------------------------------------|-----------|----|
|  | SAT-11... |    |
|                                                                                     | SAT-16... |    |
|                                                                                     | SAT-20... |    |
|                                                                                     |           | 16 |

#### Straight shank holders

|                                                                                     |          |    |
|-------------------------------------------------------------------------------------|----------|----|
|  | SAP-N... |    |
|                                                                                     |          | 17 |

#### Replacement and spare parts

|                                                                                     |         |       |
|-------------------------------------------------------------------------------------|---------|-------|
|  | SAN-... |       |
|                                                                                     |         | 16–17 |

| Materials                            | Uncoated HMB                 | Coolant                                       |
|--------------------------------------|------------------------------|-----------------------------------------------|
|                                      | Cutting speeds $v_c$ (m/min) | Recommended coolant                           |
| Steel<br>< 600 N/mm <sup>2</sup>     | 100–200                      | Cutting oil / Emulsion                        |
| Steel<br>600–800 N/mm <sup>2</sup>   | 80–150                       | Cutting oil / Emulsion                        |
| Steel<br>800–1000 N/mm <sup>2</sup>  | 60–120                       | Cutting oil / Emulsion                        |
| Steel<br>1000–1200 N/mm <sup>2</sup> | 40–80                        | Cutting oil / Emulsion                        |
| Stainless steel                      | 50–100                       | Cutting oil / Emulsion                        |
| Cast iron                            | 40–90                        | Cutting oil / Emulsion / Compressed air (dry) |
| Aluminum                             | 120–600                      | Cutting oil / Emulsion                        |
| Brass / Copper / Bronze              | 100–400                      | Cutting oil / Emulsion / Compressed air (dry) |
| Precious metals                      | 80–300                       | Cutting oil / Compressed air (dry)            |
| Plastics                             | 80–300                       | Compressed air (dry)                          |
| Heat-resistant alloys                | 20–60                        | Cutting oil / Emulsion                        |
| Titanium                             | 30–80                        | Cutting oil / Emulsion                        |

**Feed**

Feed  $f_z$  per tooth of between 0.003 and 0.03 depending on the diameter of the milling cutter / thickness / depth / coolant / machining process / machine type etc.

**Important remarks**

The cutting parameters are strongly influenced by external parameters, in particular by the stability of the machining process (tool holder, workpiece, workpiece clamping ...). Cutting parameters must be adapted to machining conditions.

**Technical formulas**

The following formula must be used to calculate the correct speed  $v_c$ :

Revolutions per minute (n)

$$n = \frac{v_c \cdot 1000}{d_1 \cdot \pi} \text{ [min}^{-1}\text{]}$$

**Explanation**

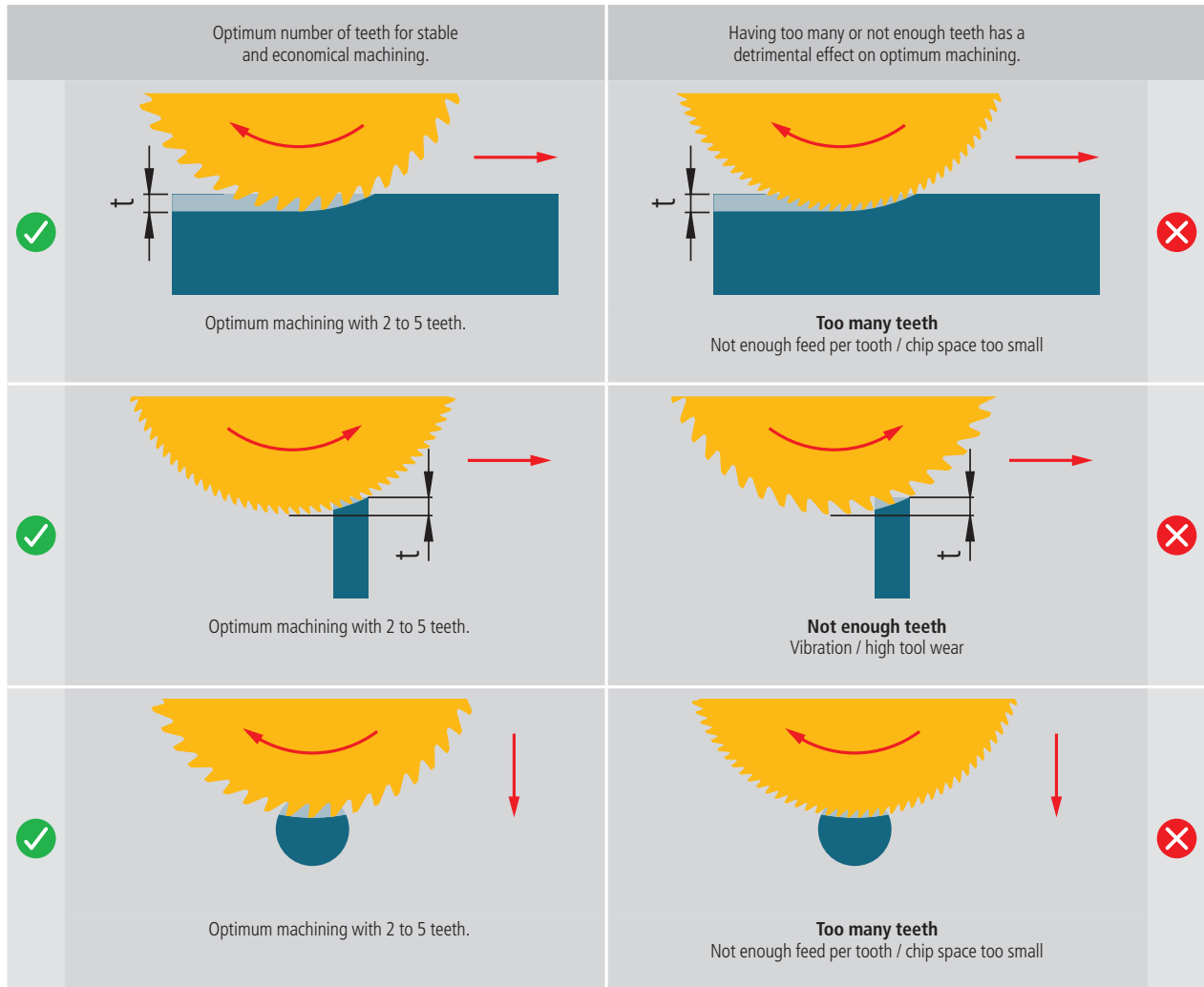
$d_1$  Tool diameter (mm)  
 $n$  Rotation speed (min<sup>-1</sup>)  
 $v_c$  Cutting speed (m/min)

**Example**

Milling of bronze with a **Ø63 mm** milling cutter and at a speed of **150 m/min**.

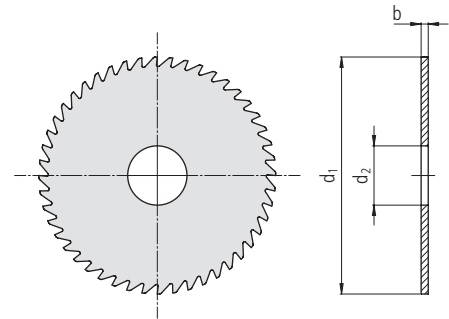
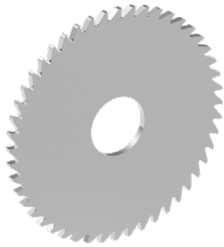
$$758.27 = \frac{150 \cdot 1000}{63 \cdot \pi} \text{ [min}^{-1}\text{]}$$

Basic rule: there must be 2 to 5 machining teeth in the workpiece.



## Solid carbide circular saw blades Ø 12

Fine tooth



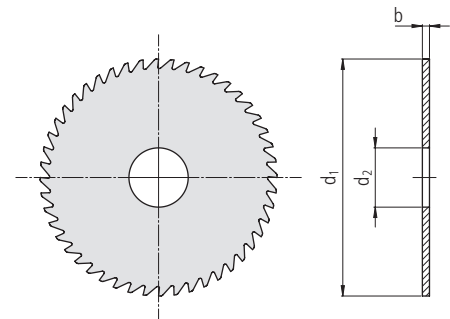
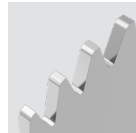
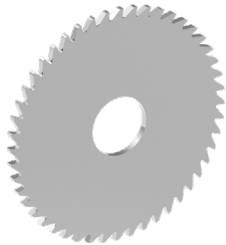
UMS 012...

| Order designation | Grade           |             | Dimensions     |                      |      |    |  |  |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|----|--|--|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z  |  |  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |    |  |  |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |    |  |  |  |  |  |  |
| UMS 0120155 ...   | 556254          |             | 12             | 5                    | 0.15 | 48 |  |  |  |  |  |  |
| UMS 0120205 ...   | 556255          |             | 12             | 5                    | 0.20 | 48 |  |  |  |  |  |  |
| UMS 0120255 ...   | 556256          |             | 12             | 5                    | 0.25 | 48 |  |  |  |  |  |  |
| UMS 0120305 ...   | 556257          |             | 12             | 5                    | 0.30 | 48 |  |  |  |  |  |  |
| UMS 0120355 ...   | 556258          |             | 12             | 5                    | 0.35 | 48 |  |  |  |  |  |  |
| UMS 0120405 ...   | 556259          |             | 12             | 5                    | 0.40 | 48 |  |  |  |  |  |  |
| UMS 0120455 ...   | 556260          |             | 12             | 5                    | 0.45 | 40 |  |  |  |  |  |  |
| UMS 0120505 ...   | 556261          |             | 12             | 5                    | 0.50 | 40 |  |  |  |  |  |  |
| UMS 0120605 ...   | 556262          |             | 12             | 5                    | 0.60 | 40 |  |  |  |  |  |  |
| UMS 0120705 ...   | 556263          |             | 12             | 5                    | 0.70 | 40 |  |  |  |  |  |  |
| UMS 0120805 ...   | 556264          |             | 12             | 5                    | 0.80 | 32 |  |  |  |  |  |  |
| UMS 0120905 ...   | 556265          |             | 12             | 5                    | 0.90 | 32 |  |  |  |  |  |  |
| UMS 0121005 ...   | 556266          |             | 12             | 5                    | 1.00 | 32 |  |  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 15

Fine tooth



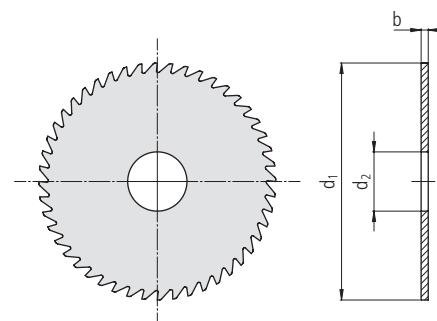
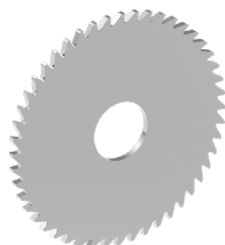
UMS 015...

| Order designation | Grade           |             | Dimensions     |                      |      |    |  |  |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|----|--|--|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z  |  |  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |    |  |  |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |    |  |  |  |  |  |  |
| UMS 0150155 ...   | 556267          |             | 15             | 5                    | 0.15 | 64 |  |  |  |  |  |  |
| UMS 0150205 ...   | 556268          |             | 15             | 5                    | 0.20 | 64 |  |  |  |  |  |  |
| UMS 0150255 ...   | 556269          |             | 15             | 5                    | 0.25 | 64 |  |  |  |  |  |  |
| UMS 0150305 ...   | 556270          |             | 15             | 5                    | 0.30 | 64 |  |  |  |  |  |  |
| UMS 0150355 ...   | 556271          |             | 15             | 5                    | 0.35 | 64 |  |  |  |  |  |  |
| UMS 0150405 ...   | 556272          |             | 15             | 5                    | 0.40 | 64 |  |  |  |  |  |  |
| UMS 0150455 ...   | 556273          |             | 15             | 5                    | 0.45 | 48 |  |  |  |  |  |  |
| UMS 0150505 ...   | 556274          |             | 15             | 5                    | 0.50 | 48 |  |  |  |  |  |  |
| UMS 0150605 ...   | 556275          |             | 15             | 5                    | 0.60 | 48 |  |  |  |  |  |  |
| UMS 0150705 ...   | 556276          |             | 15             | 5                    | 0.70 | 48 |  |  |  |  |  |  |
| UMS 0150805 ...   | 556277          |             | 15             | 5                    | 0.80 | 40 |  |  |  |  |  |  |
| UMS 0150905 ...   | 556278          |             | 15             | 5                    | 0.90 | 40 |  |  |  |  |  |  |
| UMS 0151005 ...   | 556279          |             | 15             | 5                    | 1.00 | 40 |  |  |  |  |  |  |
| UMS 0151105 ...   | 556280          |             | 15             | 5                    | 1.10 | 40 |  |  |  |  |  |  |
| UMS 0151205 ...   | 556281          |             | 15             | 5                    | 1.20 | 40 |  |  |  |  |  |  |
| UMS 0151305 ...   | 556282          |             | 15             | 5                    | 1.30 | 40 |  |  |  |  |  |  |
| UMS 0151405 ...   | 556283          |             | 15             | 5                    | 1.40 | 40 |  |  |  |  |  |  |
| UMS 0151505 ...   | 556284          |             | 15             | 5                    | 1.50 | 40 |  |  |  |  |  |  |
| UMS 0151605 ...   | 556285          |             | 15             | 5                    | 1.60 | 40 |  |  |  |  |  |  |
| UMS 0151705 ...   | 556286          |             | 15             | 5                    | 1.70 | 28 |  |  |  |  |  |  |
| UMS 0151805 ...   | 556287          |             | 15             | 5                    | 1.80 | 28 |  |  |  |  |  |  |
| UMS 0151905 ...   | 556288          |             | 15             | 5                    | 1.90 | 28 |  |  |  |  |  |  |
| UMS 0152005 ...   | 556289          |             | 15             | 5                    | 2.00 | 28 |  |  |  |  |  |  |
| UMS 0152505 ...   | 556290          |             | 15             | 5                    | 2.50 | 28 |  |  |  |  |  |  |
| UMS 0153005 ...   | 556291          |             | 15             | 5                    | 3.00 | 28 |  |  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 20

Fine tooth



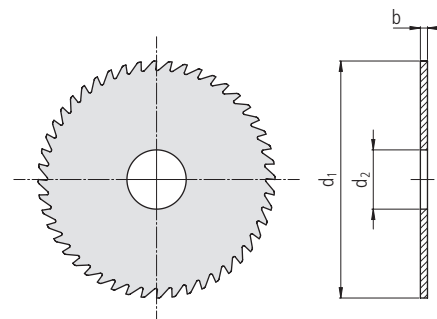
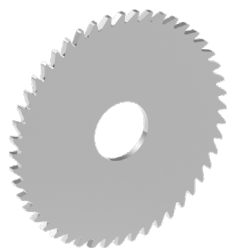
UMS 020...

| Order designation | Grade           |             | Dimensions     |                      |      |    |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |    |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |    |  |  |  |  |
| UMS 0200155 ...   | 556292          |             | 20             | 5                    | 0.15 | 80 |  |  |  |  |
| UMS 0200205 ...   | 556293          |             | 20             | 5                    | 0.20 | 80 |  |  |  |  |
| UMS 0200255 ...   | 556294          |             | 20             | 5                    | 0.25 | 64 |  |  |  |  |
| UMS 0200305 ...   | 556295          |             | 20             | 5                    | 0.30 | 64 |  |  |  |  |
| UMS 0200355 ...   | 556296          |             | 20             | 5                    | 0.35 | 64 |  |  |  |  |
| UMS 0200405 ...   | 556297          |             | 20             | 5                    | 0.40 | 64 |  |  |  |  |
| UMS 0200455 ...   | 556298          |             | 20             | 5                    | 0.45 | 48 |  |  |  |  |
| UMS 0200505 ...   | 556299          |             | 20             | 5                    | 0.50 | 48 |  |  |  |  |
| UMS 0200605 ...   | 556300          |             | 20             | 5                    | 0.60 | 48 |  |  |  |  |
| UMS 0200705 ...   | 556301          |             | 20             | 5                    | 0.70 | 48 |  |  |  |  |
| UMS 0200805 ...   | 556302          |             | 20             | 5                    | 0.80 | 40 |  |  |  |  |
| UMS 0200905 ...   | 556303          |             | 20             | 5                    | 0.90 | 40 |  |  |  |  |
| UMS 0201005 ...   | 556304          |             | 20             | 5                    | 1.00 | 40 |  |  |  |  |
| UMS 0201105 ...   | 556305          |             | 20             | 5                    | 1.10 | 40 |  |  |  |  |
| UMS 0201205 ...   | 556306          |             | 20             | 5                    | 1.20 | 40 |  |  |  |  |
| UMS 0201305 ...   | 556307          |             | 20             | 5                    | 1.30 | 40 |  |  |  |  |
| UMS 0201405 ...   | 556308          |             | 20             | 5                    | 1.40 | 40 |  |  |  |  |
| UMS 0201505 ...   | 556309          |             | 20             | 5                    | 1.50 | 40 |  |  |  |  |
| UMS 0201605 ...   | 556310          |             | 20             | 5                    | 1.60 | 40 |  |  |  |  |
| UMS 0201705 ...   | 556311          |             | 20             | 5                    | 1.70 | 32 |  |  |  |  |
| UMS 0201805 ...   | 556312          |             | 20             | 5                    | 1.80 | 32 |  |  |  |  |
| UMS 0201905 ...   | 556313          |             | 20             | 5                    | 1.90 | 32 |  |  |  |  |
| UMS 0202005 ...   | 556314          |             | 20             | 5                    | 2.00 | 32 |  |  |  |  |
| UMS 0202505 ...   | 556315          |             | 20             | 5                    | 2.50 | 32 |  |  |  |  |
| UMS 0203005 ...   | 556316          |             | 20             | 5                    | 3.00 | 32 |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 25

Fine tooth



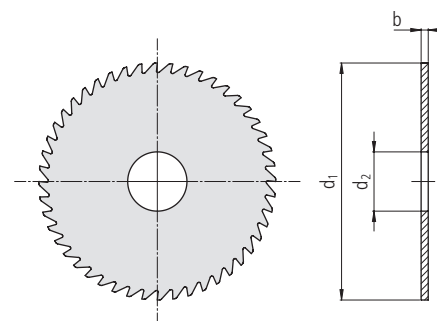
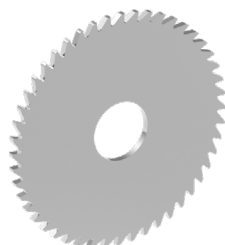
UMS 025...

| Order designation | Grade           |             | Dimensions     |                      |      |    |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |    |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |    |  |  |  |  |
| UMS 0250208 ...   | 556317          |             | 25             | 8                    | 0.20 | 80 |  |  |  |  |
| UMS 0250258 ...   | 556318          |             | 25             | 8                    | 0.25 | 80 |  |  |  |  |
| UMS 0250308 ...   | 556319          |             | 25             | 8                    | 0.30 | 80 |  |  |  |  |
| UMS 0250358 ...   | 556320          |             | 25             | 8                    | 0.35 | 64 |  |  |  |  |
| UMS 0250408 ...   | 556321          |             | 25             | 8                    | 0.40 | 64 |  |  |  |  |
| UMS 0250458 ...   | 556322          |             | 25             | 8                    | 0.45 | 64 |  |  |  |  |
| UMS 0250508 ...   | 556323          |             | 25             | 8                    | 0.50 | 64 |  |  |  |  |
| UMS 0250608 ...   | 556324          |             | 25             | 8                    | 0.60 | 64 |  |  |  |  |
| UMS 0250708 ...   | 556325          |             | 25             | 8                    | 0.70 | 48 |  |  |  |  |
| UMS 0250808 ...   | 556326          |             | 25             | 8                    | 0.80 | 48 |  |  |  |  |
| UMS 0250908 ...   | 556327          |             | 25             | 8                    | 0.90 | 48 |  |  |  |  |
| UMS 0251008 ...   | 556328          |             | 25             | 8                    | 1.00 | 48 |  |  |  |  |
| UMS 0251108 ...   | 556329          |             | 25             | 8                    | 1.10 | 48 |  |  |  |  |
| UMS 0251208 ...   | 556330          |             | 25             | 8                    | 1.20 | 48 |  |  |  |  |
| UMS 0251308 ...   | 556331          |             | 25             | 8                    | 1.30 | 40 |  |  |  |  |
| UMS 0251408 ...   | 556332          |             | 25             | 8                    | 1.40 | 40 |  |  |  |  |
| UMS 0251508 ...   | 556333          |             | 25             | 8                    | 1.50 | 40 |  |  |  |  |
| UMS 0251608 ...   | 556334          |             | 25             | 8                    | 1.60 | 40 |  |  |  |  |
| UMS 0251708 ...   | 556335          |             | 25             | 8                    | 1.70 | 40 |  |  |  |  |
| UMS 0251808 ...   | 556336          |             | 25             | 8                    | 1.80 | 40 |  |  |  |  |
| UMS 0251908 ...   | 556337          |             | 25             | 8                    | 1.90 | 40 |  |  |  |  |
| UMS 0252008 ...   | 556338          |             | 25             | 8                    | 2.00 | 40 |  |  |  |  |
| UMS 0252508 ...   | 556339          |             | 25             | 8                    | 2.50 | 40 |  |  |  |  |
| UMS 0253008 ...   | 556340          |             | 25             | 8                    | 3.00 | 32 |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 30

Fine tooth



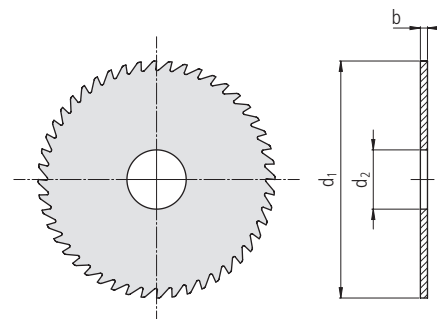
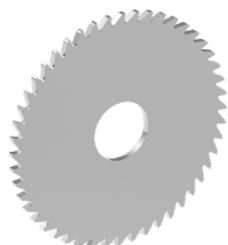
UMS 030...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |
| UMS 0300208 ...   | 556341          |             | 30             | 8                    | 0.20 | 100 |  |  |  |  |
| UMS 0300258 ...   | 556342          |             | 30             | 8                    | 0.25 | 100 |  |  |  |  |
| UMS 0300308 ...   | 556343          |             | 30             | 8                    | 0.30 | 80  |  |  |  |  |
| UMS 0300358 ...   | 556344          |             | 30             | 8                    | 0.35 | 80  |  |  |  |  |
| UMS 0300408 ...   | 556345          |             | 30             | 8                    | 0.40 | 80  |  |  |  |  |
| UMS 0300458 ...   | 556346          |             | 30             | 8                    | 0.45 | 80  |  |  |  |  |
| UMS 0300508 ...   | 556347          |             | 30             | 8                    | 0.50 | 80  |  |  |  |  |
| UMS 0300608 ...   | 556348          |             | 30             | 8                    | 0.60 | 64  |  |  |  |  |
| UMS 0300708 ...   | 556349          |             | 30             | 8                    | 0.70 | 64  |  |  |  |  |
| UMS 0300808 ...   | 556350          |             | 30             | 8                    | 0.80 | 64  |  |  |  |  |
| UMS 0300908 ...   | 556351          |             | 30             | 8                    | 0.90 | 64  |  |  |  |  |
| UMS 0301008 ...   | 556352          |             | 30             | 8                    | 1.00 | 64  |  |  |  |  |
| UMS 0301108 ...   | 556353          |             | 30             | 8                    | 1.10 | 48  |  |  |  |  |
| UMS 0301208 ...   | 556354          |             | 30             | 8                    | 1.20 | 48  |  |  |  |  |
| UMS 0301308 ...   | 556355          |             | 30             | 8                    | 1.30 | 48  |  |  |  |  |
| UMS 0301408 ...   | 556356          |             | 30             | 8                    | 1.40 | 48  |  |  |  |  |
| UMS 0301508 ...   | 556357          |             | 30             | 8                    | 1.50 | 48  |  |  |  |  |
| UMS 0301608 ...   | 556358          |             | 30             | 8                    | 1.60 | 48  |  |  |  |  |
| UMS 0301708 ...   | 556359          |             | 30             | 8                    | 1.70 | 48  |  |  |  |  |
| UMS 0301808 ...   | 556360          |             | 30             | 8                    | 1.80 | 48  |  |  |  |  |
| UMS 0301908 ...   | 556361          |             | 30             | 8                    | 1.90 | 48  |  |  |  |  |
| UMS 0302008 ...   | 556362          |             | 30             | 8                    | 2.00 | 48  |  |  |  |  |
| UMS 0302508 ...   | 556363          |             | 30             | 8                    | 2.50 | 40  |  |  |  |  |
| UMS 0303008 ...   | 556364          |             | 30             | 8                    | 3.00 | 40  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø40

Fine tooth



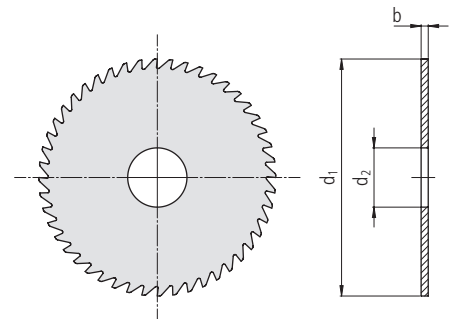
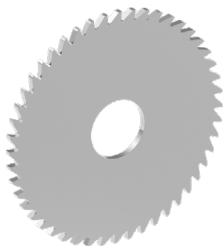
UMS 040...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |
| UMS 04002010 ...  | 556365          |             | 40             | 10                   | 0.20 | 128 |  |  |  |  |
| UMS 04002510 ...  | 556366          |             | 40             | 10                   | 0.25 | 100 |  |  |  |  |
| UMS 04003010 ...  | 556367          |             | 40             | 10                   | 0.30 | 100 |  |  |  |  |
| UMS 04003510 ...  | 556189          |             | 40             | 10                   | 0.35 | 100 |  |  |  |  |
| UMS 04004010 ...  | 556190          |             | 40             | 10                   | 0.40 | 100 |  |  |  |  |
| UMS 04004510 ...  | 556191          |             | 40             | 10                   | 0.45 | 80  |  |  |  |  |
| UMS 04005010 ...  | 556177          |             | 40             | 10                   | 0.50 | 80  |  |  |  |  |
| UMS 04006010 ...  | 556178          |             | 40             | 10                   | 0.60 | 80  |  |  |  |  |
| UMS 04007010 ...  | 556179          |             | 40             | 10                   | 0.70 | 80  |  |  |  |  |
| UMS 04008010 ...  | 556180          |             | 40             | 10                   | 0.80 | 80  |  |  |  |  |
| UMS 04009010 ...  | 556181          |             | 40             | 10                   | 0.90 | 64  |  |  |  |  |
| UMS 04010010 ...  | 556182          |             | 40             | 10                   | 1.00 | 64  |  |  |  |  |
| UMS 04011010 ...  | 556183          |             | 40             | 10                   | 1.10 | 64  |  |  |  |  |
| UMS 04012010 ...  | 556184          |             | 40             | 10                   | 1.20 | 64  |  |  |  |  |
| UMS 04013010 ...  | 556185          |             | 40             | 10                   | 1.30 | 64  |  |  |  |  |
| UMS 04014010 ...  | 556186          |             | 40             | 10                   | 1.40 | 64  |  |  |  |  |
| UMS 04015010 ...  | 556187          |             | 40             | 10                   | 1.50 | 64  |  |  |  |  |
| UMS 04016010 ...  | 556188          |             | 40             | 10                   | 1.60 | 64  |  |  |  |  |
| UMS 04017010 ...  | 556206          |             | 40             | 10                   | 1.70 | 48  |  |  |  |  |
| UMS 04018010 ...  | 556207          |             | 40             | 10                   | 1.80 | 48  |  |  |  |  |
| UMS 04019010 ...  | 556208          |             | 40             | 10                   | 1.90 | 48  |  |  |  |  |
| UMS 04020010 ...  | 556209          |             | 40             | 10                   | 2.00 | 48  |  |  |  |  |
| UMS 04025010 ...  | 556210          |             | 40             | 10                   | 2.50 | 48  |  |  |  |  |
| UMS 04030010 ...  | 556211          |             | 40             | 10                   | 3.00 | 48  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 50

Fine tooth



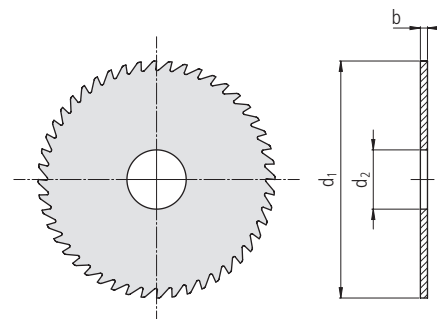
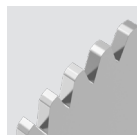
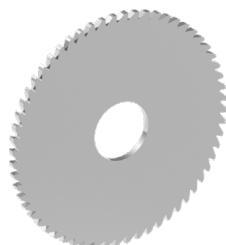
UMS 050...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |
| UMS 05002013 ...  | 556212          |             | 50             | 13                   | 0.20 | 128 |  |  |  |  |
| UMS 05002513 ...  | 556213          |             | 50             | 13                   | 0.25 | 128 |  |  |  |  |
| UMS 05003013 ...  | 556214          |             | 50             | 13                   | 0.30 | 128 |  |  |  |  |
| UMS 05003513 ...  | 556215          |             | 50             | 13                   | 0.35 | 100 |  |  |  |  |
| UMS 05004013 ...  | 556216          |             | 50             | 13                   | 0.40 | 100 |  |  |  |  |
| UMS 05004513 ...  | 556217          |             | 50             | 13                   | 0.45 | 100 |  |  |  |  |
| UMS 05005013 ...  | 556218          |             | 50             | 13                   | 0.50 | 100 |  |  |  |  |
| UMS 05006013 ...  | 556219          |             | 50             | 13                   | 0.60 | 100 |  |  |  |  |
| UMS 05007013 ...  | 556220          |             | 50             | 13                   | 0.70 | 80  |  |  |  |  |
| UMS 05008013 ...  | 556221          |             | 50             | 13                   | 0.80 | 80  |  |  |  |  |
| UMS 05009013 ...  | 556222          |             | 50             | 13                   | 0.90 | 80  |  |  |  |  |
| UMS 05010013 ...  | 556223          |             | 50             | 13                   | 1.00 | 80  |  |  |  |  |
| UMS 05012013 ...  | 556224          |             | 50             | 13                   | 1.20 | 80  |  |  |  |  |
| UMS 05015013 ...  | 556225          |             | 50             | 13                   | 1.50 | 64  |  |  |  |  |
| UMS 05016013 ...  | 556226          |             | 50             | 13                   | 1.60 | 64  |  |  |  |  |
| UMS 05018013 ...  | 556227          |             | 50             | 13                   | 1.80 | 64  |  |  |  |  |
| UMS 05020013 ...  | 556228          |             | 50             | 13                   | 2.00 | 64  |  |  |  |  |
| UMS 05025013 ...  | 556229          |             | 50             | 13                   | 2.50 | 64  |  |  |  |  |
| UMS 05030013 ...  | 556230          |             | 50             | 13                   | 3.00 | 48  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø63

Fine tooth



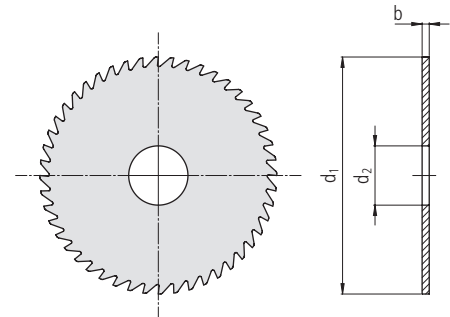
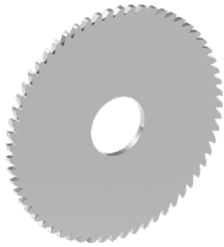
UMS 063...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |
| UMS 06302016 ...  | 556231          |             | 63             | 16                   | 0.20 | 160 |  |  |  |  |
| UMS 06302516 ...  | 556232          |             | 63             | 16                   | 0.25 | 128 |  |  |  |  |
| UMS 06303016 ...  | 556233          |             | 63             | 16                   | 0.30 | 128 |  |  |  |  |
| UMS 06303516 ...  | 556234          |             | 63             | 16                   | 0.35 | 128 |  |  |  |  |
| UMS 06304016 ...  | 556235          |             | 63             | 16                   | 0.40 | 128 |  |  |  |  |
| UMS 06304516 ...  | 556236          |             | 63             | 16                   | 0.45 | 128 |  |  |  |  |
| UMS 06305016 ...  | 556237          |             | 63             | 16                   | 0.50 | 128 |  |  |  |  |
| UMS 06306016 ...  | 556238          |             | 63             | 16                   | 0.60 | 100 |  |  |  |  |
| UMS 06307016 ...  | 556239          |             | 63             | 16                   | 0.70 | 100 |  |  |  |  |
| UMS 06308016 ...  | 556240          |             | 63             | 16                   | 0.80 | 100 |  |  |  |  |
| UMS 06309016 ...  | 556241          |             | 63             | 16                   | 0.90 | 100 |  |  |  |  |
| UMS 06310016 ...  | 556242          |             | 63             | 16                   | 1.00 | 100 |  |  |  |  |
| UMS 06312016 ...  | 556243          |             | 63             | 16                   | 1.20 | 80  |  |  |  |  |
| UMS 06315016 ...  | 556244          |             | 63             | 16                   | 1.50 | 80  |  |  |  |  |
| UMS 06316016 ...  | 556245          |             | 63             | 16                   | 1.60 | 80  |  |  |  |  |
| UMS 06318016 ...  | 556246          |             | 63             | 16                   | 1.80 | 80  |  |  |  |  |
| UMS 06320016 ...  | 556247          |             | 63             | 16                   | 2.00 | 80  |  |  |  |  |
| UMS 06325016 ...  | 556248          |             | 63             | 16                   | 2.50 | 64  |  |  |  |  |
| UMS 06330016 ...  | 556249          |             | 63             | 16                   | 3.00 | 64  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø80

Fine tooth



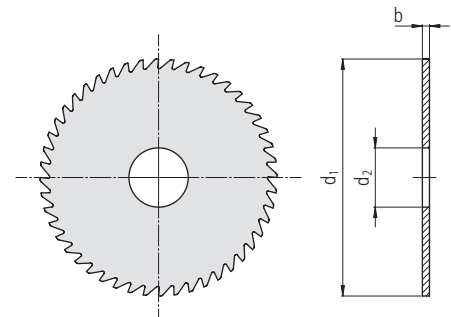
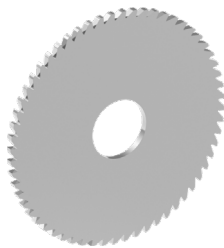
UMS 080...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |  |  |
| UMS 08005022 ...  | 556250          |             | 80             | 22                   | 0.50 | 128 |  |  |  |  |  |  |
| UMS 08006022 ...  | 556251          |             | 80             | 22                   | 0.60 | 128 |  |  |  |  |  |  |
| UMS 08008022 ...  | 556252          |             | 80             | 22                   | 0.80 | 128 |  |  |  |  |  |  |
| UMS 08010022 ...  | 556253          |             | 80             | 22                   | 1.00 | 100 |  |  |  |  |  |  |
| UMS 08012022 ...  | 556192          |             | 80             | 22                   | 1.20 | 100 |  |  |  |  |  |  |
| UMS 08015022 ...  | 556193          |             | 80             | 22                   | 1.50 | 100 |  |  |  |  |  |  |
| UMS 08016022 ...  | 556194          |             | 80             | 22                   | 1.60 | 100 |  |  |  |  |  |  |
| UMS 08020022 ...  | 556195          |             | 80             | 22                   | 2.00 | 80  |  |  |  |  |  |  |
| UMS 08025022 ...  | 556196          |             | 80             | 22                   | 2.50 | 80  |  |  |  |  |  |  |
| UMS 08030022 ...  | 556197          |             | 80             | 22                   | 3.00 | 80  |  |  |  |  |  |  |

Coating by request

## Solid carbide circular saw blades Ø 100

Fine tooth

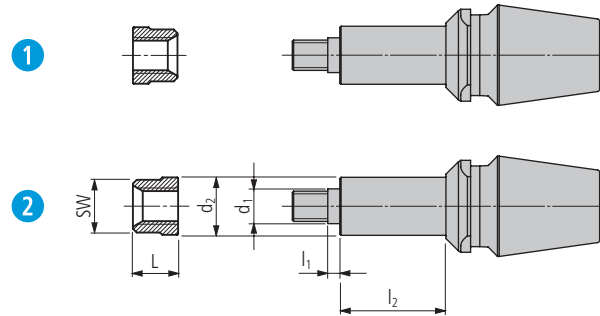
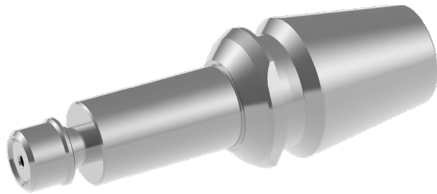


UMS 100...

| Order designation | Grade           |             | Dimensions     |                      |      |     |  |  |  |  |  |  |
|-------------------|-----------------|-------------|----------------|----------------------|------|-----|--|--|--|--|--|--|
|                   | without coating | PVD coating | d <sub>1</sub> | d <sub>2</sub><br>h6 | b    | Z   |  |  |  |  |  |  |
|                   | HMB             | HMP700      |                |                      |      |     |  |  |  |  |  |  |
| Art. no.          |                 |             |                |                      |      |     |  |  |  |  |  |  |
| UMS 10008022 ...  | 556198          |             | 100            | 22                   | 0.80 | 128 |  |  |  |  |  |  |
| UMS 10010022 ...  | 556199          |             | 100            | 22                   | 1.00 | 128 |  |  |  |  |  |  |
| UMS 10012022 ...  | 556200          |             | 100            | 22                   | 1.20 | 128 |  |  |  |  |  |  |
| UMS 10015022 ...  | 556201          |             | 100            | 22                   | 1.50 | 100 |  |  |  |  |  |  |
| UMS 10016022 ...  | 556202          |             | 100            | 22                   | 1.60 | 100 |  |  |  |  |  |  |
| UMS 10020022 ...  | 556203          |             | 100            | 22                   | 2.00 | 100 |  |  |  |  |  |  |
| UMS 10025022 ...  | 556204          |             | 100            | 22                   | 2.50 | 100 |  |  |  |  |  |  |
| UMS 10030022 ...  | 556205          |             | 100            | 22                   | 3.00 | 80  |  |  |  |  |  |  |

Coating by request

For saw blades and side milling cutters



SAT-...

| Order designation  |        | Dimensions |                |                |                |                |      |    | Saw blade thickness |          |
|--------------------|--------|------------|----------------|----------------|----------------|----------------|------|----|---------------------|----------|
|                    |        | ER         | d <sub>1</sub> | d <sub>2</sub> | l <sub>1</sub> | l <sub>2</sub> | L    | SW | Figure 1            | Figure 2 |
| Art. no.           |        |            |                |                |                |                |      |    |                     |          |
| SAT-11-5.00-080100 | 092877 | 11         | 5              | 8.00           | 1.27           | 10             | 5.00 | 7  | 0.13-2.0            | 1.2-3    |
| SAT-11-5.00-080140 | 092878 | 11         | 5              | 8.00           | 1.27           | 14             | 5.00 | 7  | 0.13-2.0            | 1.2-3    |
| SAT-11-5.00-080190 | 092879 | 11         | 5              | 8.00           | 1.27           | 19             | 5.00 | 7  | 0.13-2.0            | 1.2-3    |
| SAT-11-5.00-080250 | 092880 | 11         | 5              | 8.00           | 1.27           | 25             | 5.00 | 7  | 0.13-2.0            | 1.2-3    |
| SAT-16-5.00-095180 | 092273 | 16         | 5              | 9.53           | 1.27           | 18             | 6.35 | 8  | 0.13-2.5            | 1.2-4    |
| SAT-16-5.00-095240 | 092274 | 16         | 5              | 9.53           | 1.27           | 24             | 6.35 | 8  | 0.13-2.5            | 1.2-4    |
| SAT-16-8.00-100180 | 092281 | 16         | 8              | 10.00          | 1.27           | 18             | 6.35 | 9  | 0.13-2.5            | 1.2-4    |
| SAT-16-8.00-100240 | 092280 | 16         | 8              | 10.00          | 1.27           | 24             | 6.35 | 9  | 0.13-2.5            | 1.2-4    |
| SAT-20-5.00-095180 | 093093 | 20         | 5              | 9.53           | 1.27           | 18             | 6.35 | 8  | 0.13-3.0            | 1.2-4    |
| SAT-20-5.00-095300 | 093094 | 20         | 5              | 9.53           | 1.27           | 30             | 6.35 | 8  | 0.13-3.0            | 1.2-4    |
| SAT-20-8.00-100180 | 093101 | 20         | 8              | 10.00          | 1.27           | 18             | 6.35 | 9  | 0.13-3.0            | 1.2-4    |
| SAT-20-8.00-100300 | 093102 | 20         | 8              | 10.00          | 1.27           | 30             | 6.35 | 9  | 0.13-3.0            | 1.2-4    |
| SAT-20-10.0-125180 | 092894 | 20         | 10             | 12.50          | 1.27           | 18             | 7.00 | 11 | 0.13-4.0            | 1.2-6    |
| SAT-20-10.0-125300 | 092895 | 20         | 10             | 12.50          | 1.27           | 30             | 7.00 | 11 | 0.13-4.0            | 1.2-6    |

Including clamping nuts

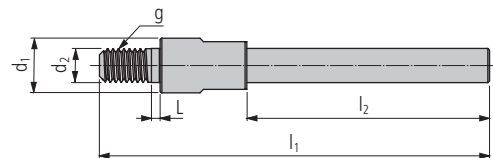
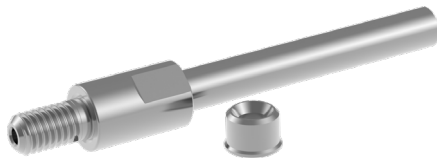
## Replacement and spare parts for SAT-...

multidec®-SAW

For saw blade holder

| Illustration | Description  | Dimensions  | Order designation | Tool holders                    |
|--------------|--------------|-------------|-------------------|---------------------------------|
|              | Clamping nut | 10-32 UNF   | SAN-047079-078501 | SAT-11-5.00...                  |
|              |              | M5 x 0.8    | SAN-050080-093641 | SAT-16-5.00... / SAT-20-5.00... |
|              |              | 5/16-32 UNF | SAN-079079-097641 | SAT-16-8.00... / SAT-20-8.00... |
|              |              | 3/8-32 UNF  | SAN-095079-125701 | SAT-20-10.0...                  |

For saw blades and side milling cutters



SAP-N...

| Order designation |          | Dimensions     |                |                |                |      |             |  | Saw blade thickness |
|-------------------|----------|----------------|----------------|----------------|----------------|------|-------------|--|---------------------|
|                   |          | d <sub>1</sub> | d <sub>2</sub> | l <sub>1</sub> | l <sub>2</sub> | L    | g           |  |                     |
|                   | Art. no. |                |                |                |                |      |             |  |                     |
| SAP-N0500-0500    | 556102   | 8.00           | 5              | 57.15          | 35.56          | 1.27 | M5 × 0.8    |  | 0.13–2.0            |
| SAP-N0800-0800    | 556103   | 11.43          | 8              | 57.15          | 35.56          | 1.27 | 5/16-32 UNF |  | 0.13–2.5            |
| SAP-N1000-1000    | 556104   | 13.49          | 10             | 57.15          | 35.56          | 1.27 | 3/8-32 UNF  |  | 0.13–4.0            |

Including clamping nuts

## Replacement and spare parts for SAP-N...

multidec®-SAW

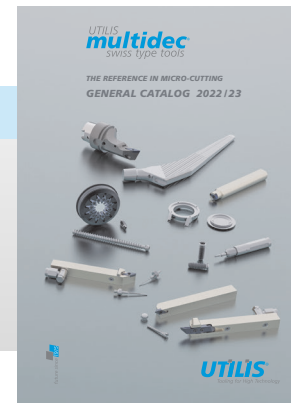
For saw blade holder

| Illustration | Description  | Dimensions  | Order designation                 |        | Tool holders   |
|--------------|--------------|-------------|-----------------------------------|--------|----------------|
|              |              |             | Art. no.                          |        |                |
|              | Clamping nut | M5 × 0.8    | <a href="#">SAN-050080-093641</a> | 092353 | SAP-N0500-0500 |
|              |              | 5/16-32 UNF | <a href="#">SAN-079079-097641</a> | 092355 | SAP-N0800-0800 |
|              |              | 3/8-32 UNF  | <a href="#">SAN-095079-125701</a> | 093110 | SAP-N1000-1000 |

Lined area for notes, consisting of horizontal lines.

## multidec® General catalog 2022/23

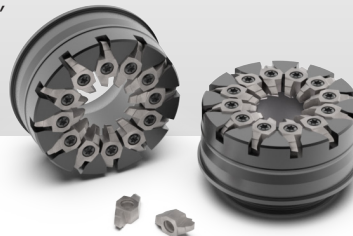
With the slogan **"The reference in micro machining"**, UTILIS presents the multidec® general catalogue 2022/23. The general catalogue contains a wide product range with efficient tools for your needs.



Article 300362

## multidec®-WHIRLING – The efficient way to make threads

multidec®-WHIRLING is the thread whirling tool system with multiple cutting edges; unlike the thread turning method, this enables the thread to be finished without burr in a single pass.



Article 300969

## multidec®-MICRO TOOLS & -MILL – Solid carbide precision tools

multidec®-MICRO TOOLS contain various solid carbide micro tools for drilling, milling and TORX® milling. You will find a wide range of universal milling tools in the multidec®-MILL product range.



Article 400925

## multidec®-CARE – From the idea to the machine

You have an order or an idea, and you want to know how to implement it? Together, we can realise a cost-effective solution for you.



Article 400885



■ **UTILIS AG, Precision Tools**

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info@utilis.com, [www.utilis.com](http://www.utilis.com)