

**Design:**

- No. of teeth = 2
- Joining cutter head and bevel / rounding cutter with interchangeable DP knives
- Tool body in light alloy
- Cutting elements fitted with DP (DIA)
- Low-noise design
- 2-3 times resharpener
- Bevel / rounding cutter with TC safety cutter

**Application:**

- For the joining and simultaneous rounding / bevelling of panel materials on CNC milling machines

**Workpiece material:**

- Panel material

**Machine:**

- CNC machine centres

**Scope of supply:**

- Tool body including DP Cutters
- Bevel / rounding cutter R2 on No.1, 4 and 7 / R5 on No.2, 5 and 8 / R6 on Nr.3, 6 and 9 pre-assembled
- If another knife is to be fitted it must be stated at the time of the order
- Handle key Torx T25
- Handle key Torx T20 (only to bevel / rounding cutter)

**Special features:**

- Modular system, the cutters can be combined with each other
- Same zero diameter (run-off edge) for all radii
- On bevel / rounding cutters different radii possible
- On bevel / rounding cutters safety cutter for the protection of the tool body against damage

**Additional Information:**

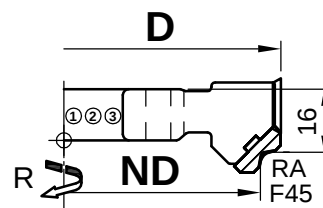
- For finished combinations, see C491-2, C491-3, C491-4, C491-5, C491-6, C491-7

**Radius - Bevel**

① = R1-R3

② = R4-R5

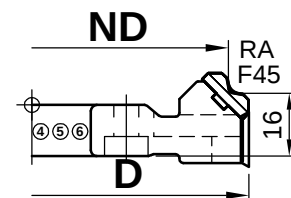
③ = R6



④ = R1-R3

⑤ = R4-R5

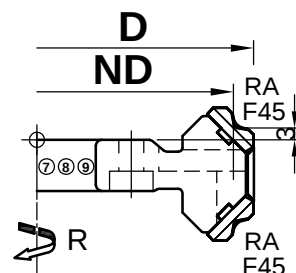
⑥ = R6



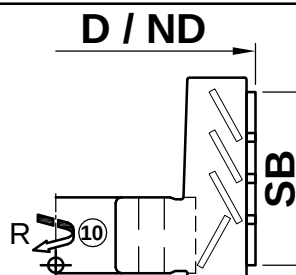
⑦ = R1-R3

⑧ = R4-R5

⑨ = R6

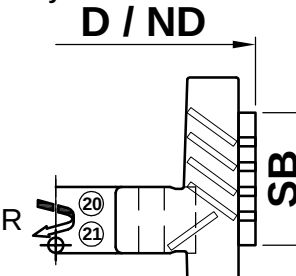

**Joining Cutter Konstantin**

⑩ = SB43.4

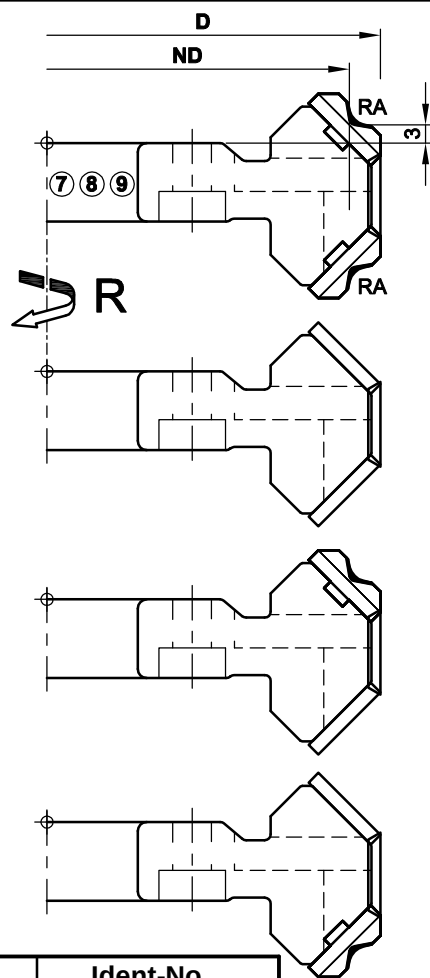
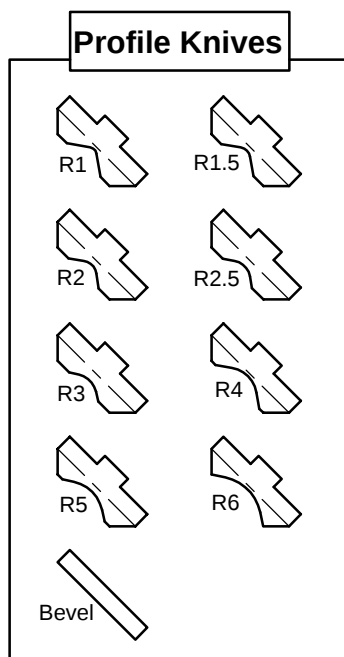
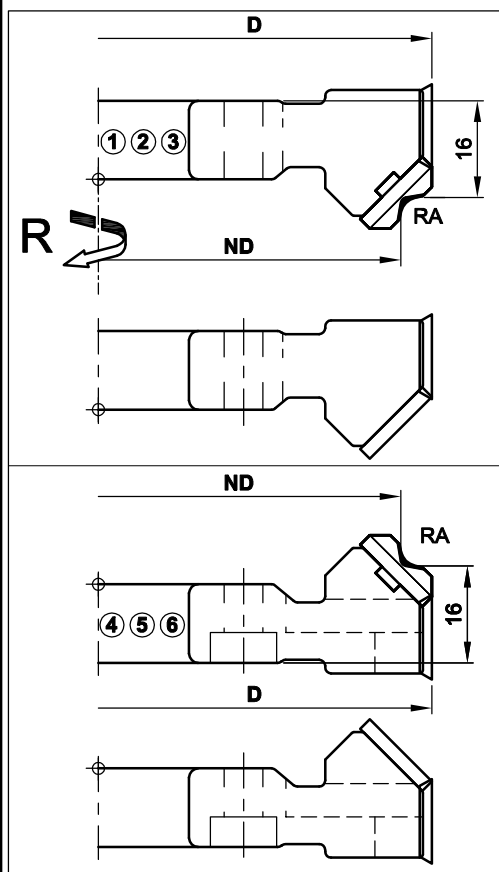

**Joining Cutter Speedy**

⑪ = SB33.2

⑫ = SB45.6



# Radius - Bevel



| D     | ND  | SB | Bo | Z | R/L | FA | RA        | P  | n max. | Ident-No.    |
|-------|-----|----|----|---|-----|----|-----------|----|--------|--------------|
| 110.3 | 100 |    | 30 | 2 | R   | 1  | R1-R3/F45 | R2 | 14100  | C491-1R13OR  |
| 112.2 | 100 |    | 30 | 2 | R   | 2  | R4-R5/F45 | R5 | 14100  | C491-1R45OR  |
| 113.2 | 100 |    | 30 | 2 | R   | 3  | R6/F45    | R6 | 14100  | C491-1R6OR   |
| 110.3 | 100 |    | 30 | 2 | R   | 4  | R1-R3/F45 | R2 | 14100  | C491-1R13UR  |
| 112.2 | 100 |    | 30 | 2 | R   | 5  | R4-R5/F45 | R5 | 14100  | C491-1R45UR  |
| 113.2 | 100 |    | 30 | 2 | R   | 6  | R6/F45    | R6 | 14100  | C491-1R6UR   |
| 110.3 | 100 |    | 30 | 2 | R   | 7  | R1-R3/F45 | R2 | 14100  | C491-1R13OUR |
| 112.2 | 100 |    | 30 | 2 | R   | 8  | R4-R5/F45 | R5 | 14100  | C491-1R45OUR |
| 113.2 | 100 |    | 30 | 2 | R   | 9  | R6/F45    | R6 | 14100  | C491-1R6OUR  |

## Spare Parts

| Description                                         | Qty. | Dimensions              | MBM | Ident-No.      |
|-----------------------------------------------------|------|-------------------------|-----|----------------|
| Replaceable knife for rounding cutter R1 (Option)   | 2/4  | 14.5x14.9x6.8           | 2   | KW.21572.7/B02 |
| Replaceable knife for rounding cutter R1.5 (Option) | 2/4  | 14.5x14.9x6.8           | 2   | KW.21573.7/B02 |
| Replaceable knife for rounding cutter R2            | 2/4  | 14.5x14.9x6.8           | 2   | KW.21574.7/B02 |
| Replaceable knife for rounding cutter R2.5 (Option) | 2/4  | 14.5x14.9x6.8           | 2   | KW.21575.7/B02 |
| Replaceable knife for rounding cutter R3 (Option)   | 2/4  | 14.5x14.9x6.8           | 2   | KW.21576.7/B02 |
| Replaceable knife for rounding cutter R4 (Option)   | 2/4  | 14.5x14.9x6.8           | 2   | KW.22103.7/B02 |
| Replaceable knife for rounding cutter R5            | 2/4  | 14.5x14.9x6.8           | 2   | KW.22104.7/B02 |
| Replaceable knife for rounding cutter R6            | 2/4  | 14.5x14.9x6.8           | 2   | KW.22105.7/B02 |
| Replaceable knife for bevel cutter (Option)         | 2/4  | 14.5x14.1x4.7           | 2   | KW.97479.4/B02 |
| Clamping screw main cutter                          | 2/4  | Tapered screw T25 M6x14 | 10  | KW.93706.4-14  |
| Spur                                                | 2    | 14x14x2.0               | 10  | VS14x14x2.0/U  |
| Screw spur                                          | 2    | Countersunk Screw M6x10 | 10  | KW.33767.4-10  |

**Aigner**  
WERKZEUGE

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P.....Profile Variant

FA.....No. of cutters

n max.....Max Speed (rpm)

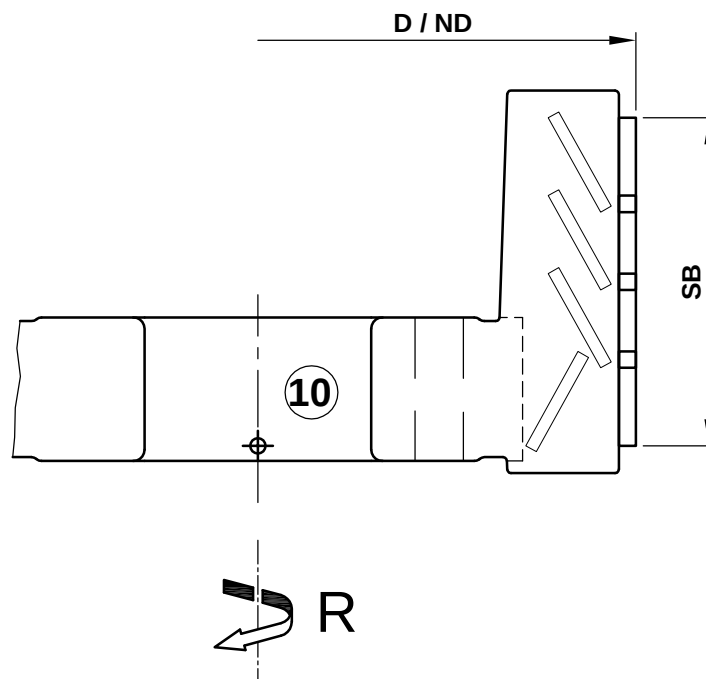
MBM.....Minimum Order Quantity

Blattformat: **A4** All dimensions in mm

Zchnng.-Nr. KW.44911.4 00

**C491-1-1**

# Jointing Cutter Konstantin



| D   | ND  | SB   | Bo | Z | R/L | FA | RA | P | n max. | Ident-No.  |
|-----|-----|------|----|---|-----|----|----|---|--------|------------|
| 100 | 100 | 43.4 | 30 | 2 | R   | 10 |    |   | 14100  | C491-1F43R |

## Spare Parts

| Description                                  | Qty. | Dimensions              | MBM | Ident-No.      |
|----------------------------------------------|------|-------------------------|-----|----------------|
| Replaceable knife for jointing cutter SB43.4 | 8    | 14.5x14.1x4.7           | 2   | KW.97479.4/B02 |
| Clamping screw main cutter SB43.4            | 8    | Tapered screw T25 M6x14 | 10  | KW.93706.4-14  |

**Aigner**  
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P.....Profile Variant

FA.....No. of cutters

n max.....Max Speed (rpm)

MBM.....Minimum Order Quantity

Blattformat: **A4**

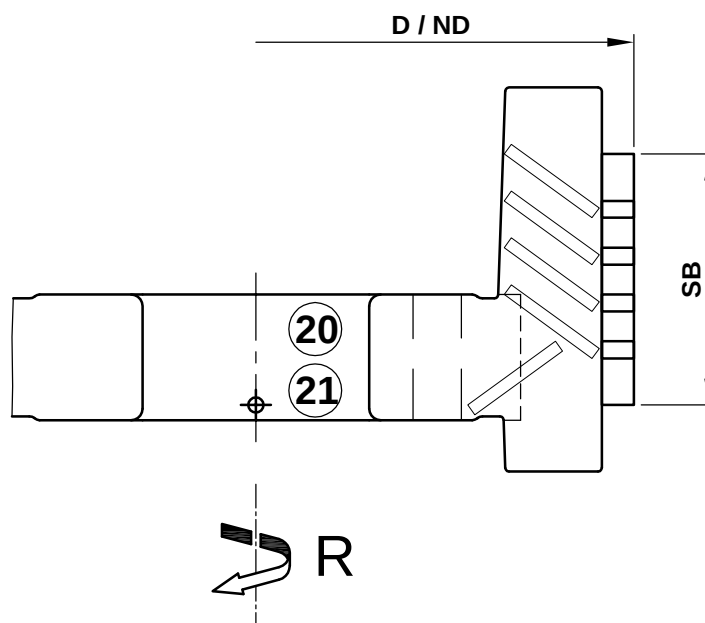
All dimensions  
in mm

Zchnng.-Nr. KW.44911.4

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**C491-1-2**

# Jointing Cutter Speedy



| D   | ND  | SB   | Bo | Z | R/L | FA | RA | P | n max. | Ident-No.   |
|-----|-----|------|----|---|-----|----|----|---|--------|-------------|
| 100 | 100 | 33.2 | 30 | 2 | R   | 20 |    |   | 14100  | C491-1FS33R |
| 100 | 100 | 45.6 | 30 | 2 | R   | 21 |    |   | 14100  | C491-1FS45R |

## Spare Parts

| Description                                  | Qty. | Dimensions              | MBM | Ident-No.      |
|----------------------------------------------|------|-------------------------|-----|----------------|
| Replaceable knife for jointing cutter SB33.2 | 10   | 14.5x14.1x4.7           | 2   | KW.14456.7/B02 |
| Clamping screw main cutter SB33.2            | 10   | Tapered screw T25 M6x14 | 10  | KW.93706.4-14  |
| Replaceable knife for jointing cutter SB45.6 | 14   | 14.5x14.1x4.7           | 2   | KW.14456.7/B02 |
| Clamping screw main cutter SB45.6            | 14   | Tapered screw T25 M6x14 | 10  | KW.93706.4-14  |

**Aigner**  
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P.....Profile Variant

FA.....No. of cutters

n max.....Max Speed (rpm)

MBM.....Minimum Order Quantity

Blattformat: **A4**

All dimensions  
in mm

Zchnng.-Nr. KW.44911.4 00

**C491-1-3**