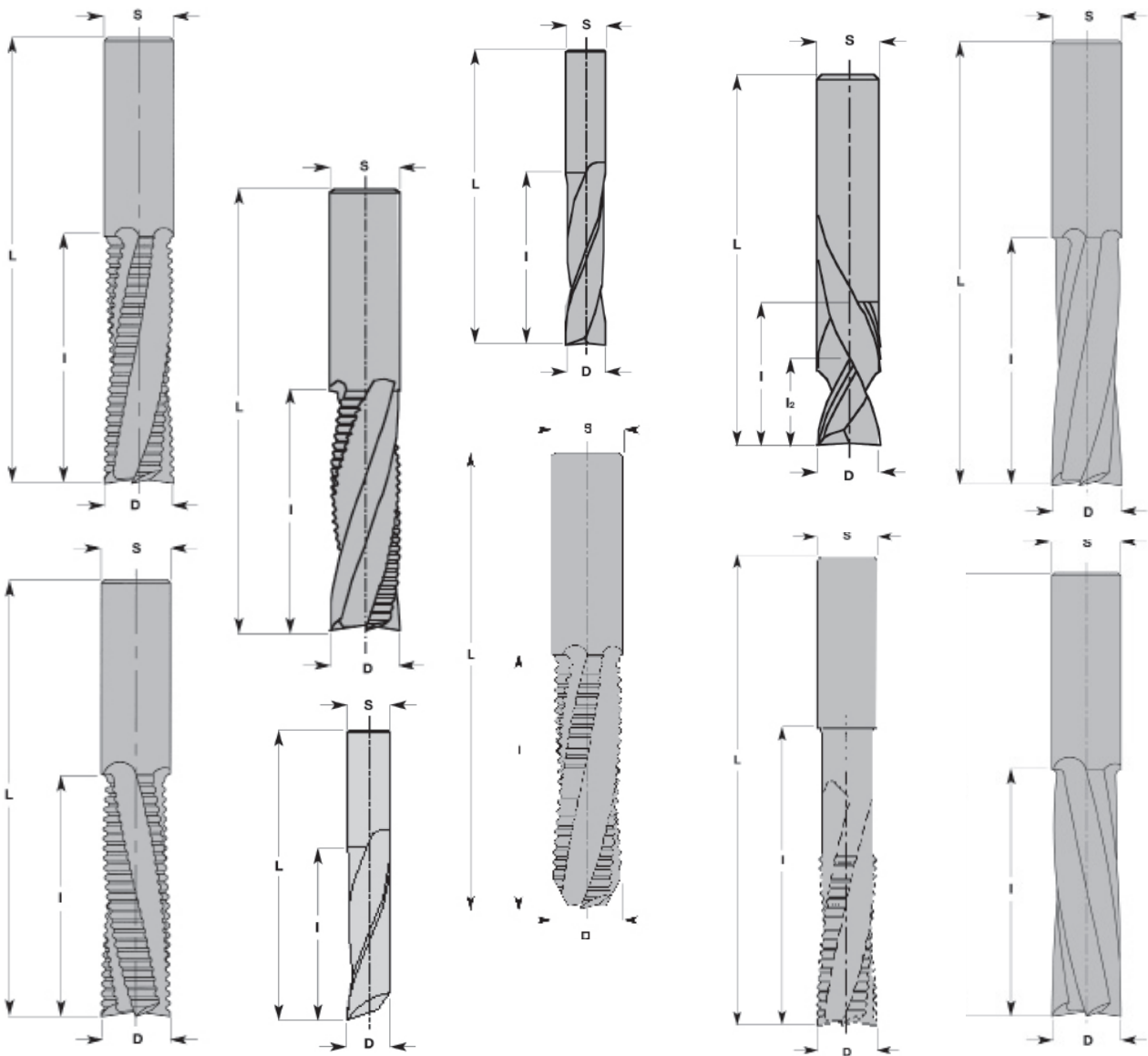


Vollhartmetallfräser



08_2011

2011

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Fräser mit positiv und negativ spiralgenuteten Schneiden

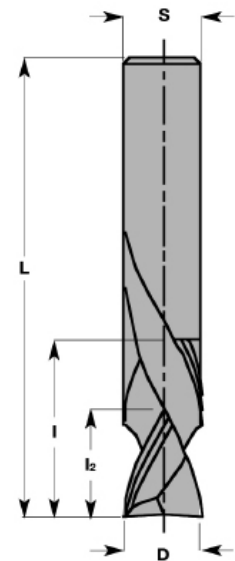
Solid Carbide Spiral Bits up & down cut

Positiv und negativ spiralgenutete Schneiden HW (Z2), optimales Fertigfräsen auf der bearbeiteten Fläche, besseres Fertigfräsen auf der unteren und oberen Seite des Paneels – Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen, auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

2+2 spiral cutting edges (Z2+2), provides an excellent finish on both the upper and lower sides of the workpiece. Used for cutting, copying, panel sizing and any routing applications in solid wood, wood composites, plastic materials and laminates. Use a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z2 + 2 190 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D | | l mm | L mm |
|---------------------------|--------------------------|-------|--------|---------|---------|
| | | mm | inches | | |
| C 190.060.11 | C 190.060.12 | 6 | | 32 | 80 |
| C 190.080.11 | C 190.080.12 | 8 | | 32 | 80 |
| C 190.504.11 | C 190.504.12 | 9,53 | 3/8 | 28,6 | 76,2 |
| C 190.100.11 | C 190.100.12 | 10 | | 32 | 80 |
| C 190.120.11 | C 190.120.12 | 12 | | 42 | 90 |
| C 190.505.11 | C 190.505.12 | 12,7 | 1/2 | 25,4 | 76,2 |
| C 190.506.11 | C 190.506.12 | 12,7 | 1/2 | 28,6 | 76,2 |
| C 190.507.11 | C 190.507.12 | 12,7 | 1/2 | 34,9 | 88,9 |
| C 190.508.11 | C 190.508.12 | 12,7 | 1/2 | 41,3 | 101,6 |
| C 190.160.11 | C 190.160.12 | 16 | | 55 | 110 |
| C 190.180.11 | C 190.180.12 | 18 | | 55 | 110 |



Fräser mit positiv spiralgenuteten Schneiden

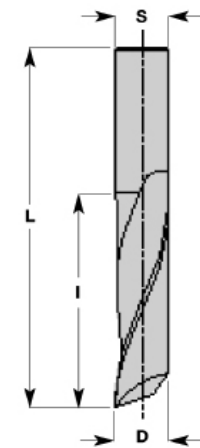
Solid Carbide Spiral Bits up cut

Positiv spiralgenutete Schneiden HW (Z1), optimales Fertigfräsen auf der bearbeiteten Fläche, besseres Fertigfräsen auf der unteren und oberen Seite des Paneels, Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

1 up cut spiral cutting edge T.C.T. [Z1], provides an excellent finish on the lower side of the work piece, upward chip ejection. Used for cutting, copying, panel sizing and any routing applications in solid wood, wood composites, plastic materials and laminates. Use a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z1 198 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 198.030.11 | C 198.030.12 | 3 | 12 | 50 |
| C 198.040.11 | C 198.040.12 | 4 | 15 | 50 |
| C 198.050.11 | C 198.050.12 | 5 | 17 | 50 |
| C 198.060.11 | C 198.060.12 | 6 | 22 | 60 |
| C 198.080.11 | C 198.080.12 | 8 | 22 | 70 |
| C 198.100.11 | C 198.100.12 | 10 | 32 | 70 |
| C 198.120.11 | C 198.120.12 | 12 | 32 | 80 |



Schlichtfräser mit positiv spiralgenuteten Schneiden

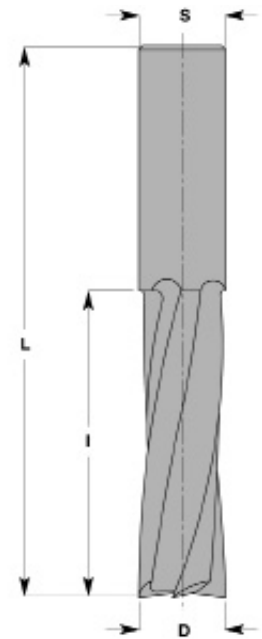
Solid Carbide Spiral Bits up cut

3 positiv spiralgenutete Schneiden HW (Z3), optimales Fertigfräsen auf der bearbeiteten Fläche. Besseres Fertigfräsen auf der unteren Seite des Panels, Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen, auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit und kleinen Werkstücken, die schwer am Arbeitstisch zu befestigen sind. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3), provides an excellent finish on the lower side of the workpiece, upward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z3 193 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 193.081.11 | C 193.081.12 | 8 | 32 | 80 |
| C 193.100.11 | C 193.100.12 | 10 | 32 | 80 |
| C 193.101.11 | C 193.101.12 | 10 | 42 | 90 |
| C 193.120.11 | C 193.120.12 | 12 | 35 | 80 |
| C 193.121.11 | C 193.121.12 | 12 | 42 | 90 |
| C 193.140.11 | C 193.140.12 | 14 | 50 | 110 |
| C 193.160.11 | C 193.160.12 | 16 | 55 | 110 |
| C 193.161.11 | C 193.161.12 | 16 | 35 | 90 |
| C 193.180.11 | C 193.180.12 | 18 | 55 | 110 |
| C 193.200.11 | C 193.200.12 | 20 | 60 | 120 |
| C 193.201.11 | C 193.201.12 | 20 | 70 | 120 |



Schlichtfräser mit negativ spiralgenuteten Schneiden

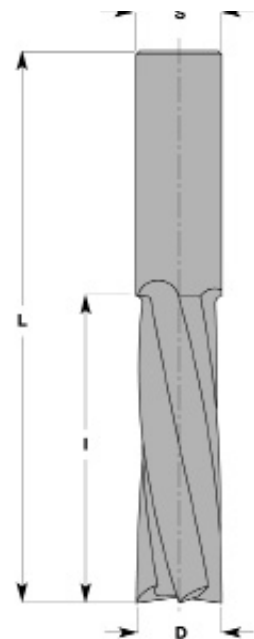
Solid Carbide Spiral Bits down cut

3 negative spiralgenutete Schneiden HW (Z3), optimales Fertigfräsen auf der bearbeiteten Fläche. Besseres Fertigfräsen auf der oberen Seite des Panels, Spanauswurf nach unten. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen, auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit und kleinen Werkstücken, die schwer am Arbeitstisch zu befestigen sind. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3), provides an excellent finish on the upper side of the workpiece, downward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, wood composites, plastic materials and laminates. Can be used at a high feed speed on small, difficult to clamp workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z3 194 VHW

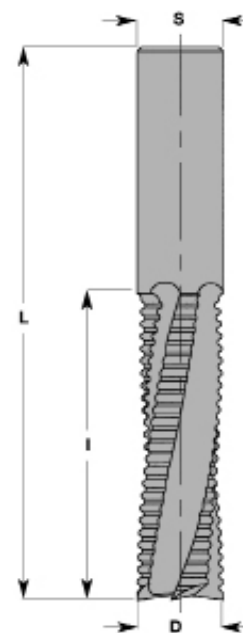
| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 194.100.11 | C 194.100.12 | 10 | 32 | 80 |
| C 194.120.11 | C 194.120.12 | 12 | 35 | 80 |
| C 194.140.11 | C 194.140.12 | 14 | 50 | 110 |
| C 194.160.11 | C 194.160.12 | 16 | 55 | 110 |
| C 194.161.11 | C 194.161.12 | 16 | 35 | 90 |
| C 194.180.11 | C 194.180.12 | 18 | 55 | 110 |
| C 194.200.11 | C 194.200.12 | 20 | 60 | 120 |



Fräser mit positiv spiralgenuteten Schneiden mit Schrappzahnung Solid Carbide Spiral Bits up cut with Chip-Breaker

3 positive spiralgenutete Schneiden mit Schrappzahnung HW (Z3), max. 0,3 mm Rauheit auf der Fläche, besseres Fertigfräsen auf der unteren Seite des Paneels, Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3R), chip breaker teeth, tooth depth max 0.3 mm, provides an excellent finish on the lower side of the workpiece, upward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



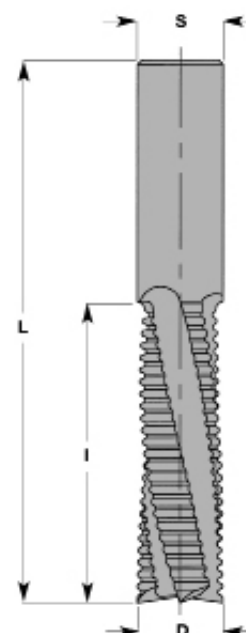
S = D Z3R 195 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D | | I mm | L mm |
|---------------------------|--------------------------|-------|--------|---------|---------|
| | | mm | inches | | |
| C 195.060.11 | C 195.060.12 | 6 | | 20 | 80 |
| C 195.081.11 | C 195.081.12 | 8 | | 32 | 80 |
| C 195.100.11 | C 195.100.12 | 10 | | 32 | 80 |
| C 195.101.11 | C 195.101.12 | 10 | | 42 | 90 |
| C 195.120.11 | C 195.120.12 | 12 | | 35 | 80 |
| C 195.121.11 | C 195.121.12 | 12 | | 42 | 90 |
| C 195.506.11 | C 195.506.12 | 12,7 | 1/2 | 38,1 | 88,9 |
| C 195.140.11 | C 195.140.12 | 14 | | 50 | 110 |
| C 195.509.11 | C 195.509.12 | 15,88 | 5/8 | 54 | 109,5 |
| C 195.160.11 | C 195.160.12 | 16 | | 55 | 110 |
| C 195.161.11 | C 195.161.12 | 16 | | 35 | 90 |
| C 195.180.11 | C 195.180.12 | 18 | | 55 | 110 |
| C 195.511.11 | C 195.511.12 | 19,05 | 3/4 | 54 | 109,5 |
| C 195.200.11 | C 195.200.12 | 20 | | 60 | 120 |
| C 195.201.11 | C 195.201.12 | 20 | | 55 | 120 |

Fräser mit negativ spiralgenuteten Schneiden mit Schrappzahnung Solid Carbide Spiral Bits down Cut with Chip-Breaker

3 neg. spiralgenutete Schneiden mit Schrappzahnung HW (Z3), max. 0,3 mm Rauheit auf der Fläche, besseres Fertigfräsen auf der oberen Seite des Paneels, Spanauswurf nach unten. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3R), chip breaker teeth, tooth depth max 0.3 mm, provides excellent finish on the upper side of the workpiece, downward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, or wood composites. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



S = D Z3R 196 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D | | I mm | L mm |
|---------------------------|--------------------------|-------|--------|---------|---------|
| | | mm | inches | | |
| C 196.081.11 | C 196.081.12 | 8 | | 32 | 80 |
| C 196.101.11 | C 196.101.12 | 10 | | 42 | 90 |
| C 196.120.11 | C 196.120.12 | 12 | | 35 | 80 |
| C 196.506.11 | C 196.506.12 | 12,7 | 1/2 | 38,1 | 88,9 |
| C 196.140.11 | C 196.140.12 | 14 | | 50 | 110 |
| C 196.509.11 | C 196.509.12 | 15,88 | 5/8 | 54 | 109,5 |
| C 196.160.11 | C 196.160.12 | 16 | | 55 | 110 |
| C 196.180.11 | C 196.180.12 | 18 | | 55 | 110 |
| C 196.511.11 | C 196.511.12 | 19,05 | 3/4 | 54 | 109,5 |
| C 196.200.11 | C 196.200.12 | 20 | | 60 | 120 |
| C 196.201.11 | C 196.201.12 | 20 | | 100 | 150 |

Schruppfräser mit positiv spiralgenuteten Schneiden

Solid Carbide Spiral Bits up Cut

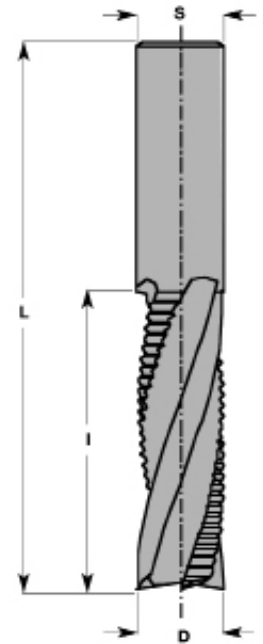
4 positiv spiralgenutete Schneiden (2 mit Schrappzahnung) (Z2 + 2), max. 0,1 mm Rauheit auf der Fläche, besseres Fertigfräsen auf der oberen Seite des Paneels, Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen mit hoher Vorschubgeschwindigkeit, auch kleinen Stücken, die an der Werkbank schwer zu befestigen sind.

4 spiral cutting edges (2 with chip-breaker) (Z2 + 2R), tooth depth max 0.1 mm, provides excellent finish on the lower side of the workpiece, upward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood and wood composites. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z4 (2 + 2R)

197 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 197.121.11 | C 197.121.12 | 12 | 42 | 80 |
| C 197.140.11 | C 197.140.12 | 14 | 50 | 110 |
| C 197.160.11 | C 197.160.12 | 16 | 55 | 110 |
| C 197.161.11 | C 197.161.12 | 16 | 35 | 90 |
| C 197.180.11 | C 197.180.12 | 18 | 55 | 110 |
| C 197.200.11 | C 197.200.12 | 20 | 60 | 120 |
| C 197.201.11 | C 197.201.12 | 20 | 70 | 120 |



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Fräser für Schlosskastenfräser mit 60°

Solid Carbide Spiral Bits for Lockset with 60° V-Point

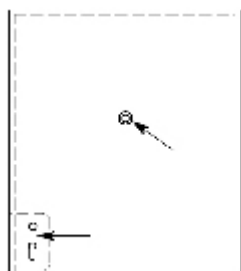
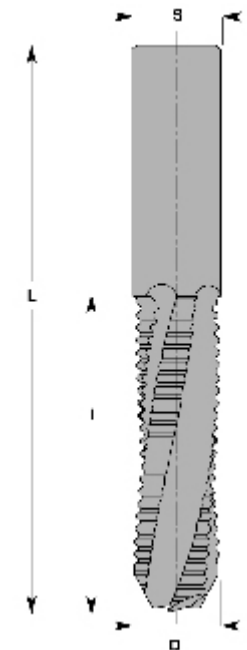
3 positiv spiralgenutete Schneiden mit Schrappzahnung HW (Z3), max. 0,3 mm Rauheit auf der Fläche, besseres Fertigfräsen auf der unteren Seite des Paneels, Spanauswurf nach oben. Fräser für Schlosskasten geeignet. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3R), chip breaker teeth, tooth depth max 0.3 mm, provides an excellent finish on the lower side of the workpiece, upward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

S = D Z3R

195.143/163 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 195.143.11 | C 195.143.12 | 14 | 50 | 110 |
| C 195.163.11 | C 195.163.12 | 16 | 55 | 110 |



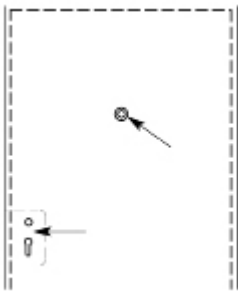
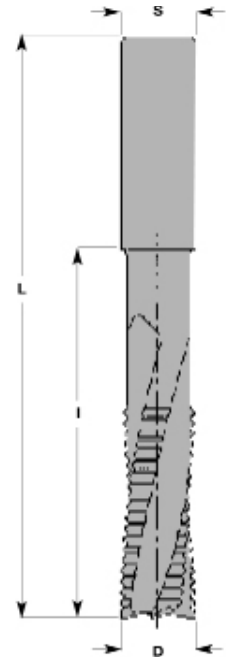
Schlosskastenfräser mit Schrappzahnung Lockset Solid Carbide Spiral Bits with Chip-Breaker

3 positive spiralgenutete Schneiden mit Schrappzahnung HW (Z3), Spanauswurf nach oben. Die Tiefe von 95 mm wird in 2–3 Arbeitsgängen erreicht. Fräser für Schlosskasten geeignet. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

3 spiral cutting edges (Z3), upcut spiral for efficient chip ejection, full 95 mm cutting length achieved in 2 or 3 passes. Used for cutting locksets and returns. Used on overhead routers and CNC machine centers.

S = D Z3R **195.162 VHW**

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | S = D mm | l mm | L mm |
|---------------------------|--------------------------|-------------|---------|---------|
| C 195.162.11 | C 195.162.12 | 16 | 95 | 140 |
| C 195.142.11 | C 195.142.12 | 14 | 95 | 150 |
| C 195.182.11 | C 195.182.12 | 18 | 95 | 150 |

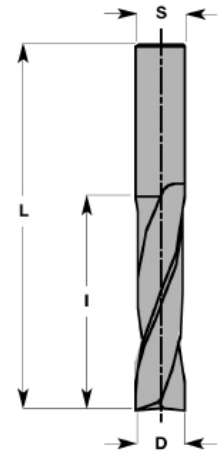


Fräser mit positiv spiralgenuteten Schneiden

Solid Carbide Spiral Bits up Cut

2 positive spiralgenutete Schneiden HW (Z2), optimales Fertigfräsen auf der bearbeiteten Fläche, besseres Fertigfräsen auf der unteren Seite des Paneels, Spanauswurf nach oben. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen, auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

2 spiral cutting edges (Z2), provides an excellent finish on the lower side of the workpiece, upward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, wood composites, plastic materials and laminates. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



Z2

191 VHW

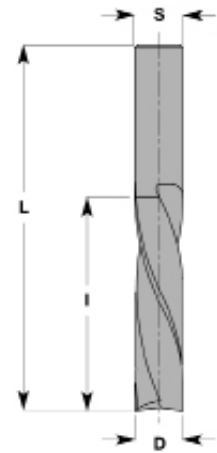
| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | D | | I mm | L mm | S mm |
|---------------------------|--------------------------|-------|--------|---------|---------|---------|
| | | mm | inches | | | |
| C 191.030.11 | C 191.030.12 | 3 | | 12 | 50 | 3 |
| C 191.630.11 | C 191.630.12 | 3 | | 12 | 60 | 6 |
| C 191.830.11 | C 191.830.12 | 3 | | 12 | 60 | 8 |
| C 191.001.11 | C 191.001.12 | 3,18 | 1/8 | 12,7 | 50,8 | 6,35 |
| C 191.003.11 | C 191.003.12 | 3,97 | 5/32 | 12,7 | 50,8 | 6,35 |
| C 191.040.11 | C 191.040.12 | 4 | | 15 | 50 | 4 |
| C 191.640.11 | C 191.640.12 | 4 | | 15 | 60 | 6 |
| C 191.840.11 | C 191.840.12 | 4 | | 15 | 60 | 8 |
| C 191.005.11 | C 191.005.12 | 4,76 | 3/16 | 19,05 | 50,8 | 6,35 |
| C 191.050.11 | C 191.050.12 | 5 | | 17 | 50 | 5 |
| C 191.650.11 | C 191.650.12 | 5 | | 17 | 60 | 6 |
| C 191.850.11 | C 191.850.12 | 5 | | 17 | 60 | 8 |
| C 191.060.11 | C 191.060.12 | 6 | | 22 | 70 | 6 |
| C 191.860.11 | C 191.860.12 | 6 | | 22 | 70 | 8 |
| C 191.007.11 | C 191.007.12 | 6,35 | 1/4 | 19,05 | 50,8 | 6,35 |
| C 191.008.11 | C 191.008.12 | 6,35 | 1/4 | 25,4 | 63,5 | 6,35 |
| C 191.870.11 | C 191.870.12 | 7 | | 32 | 80 | 8 |
| C 191.501.11 | C 191.501.12 | 7,94 | 5/16 | 25,4 | 76,2 | 12,7 |
| C 191.080.11 | C 191.080.12 | 8 | | 22 | 70 | 8 |
| C 191.081.11 | C 191.081.12 | 8 | | 32 | 80 | 8 |
| C 191.890.11 | C 191.890.12 | 9 | | 32 | 80 | 12 |
| C 191.503.11 | C 191.503.12 | 9,53 | 3/8 | 31,75 | 76,2 | 12,7 |
| C 191.800.11 | C 191.800.12 | 10 | | 32 | 80 | 8 |
| C 191.100.11 | C 191.100.12 | 10 | | 32 | 80 | 10 |
| C 191.900.11 | C 191.900.12 | 10 | | 32 | 80 | 12 |
| C 191.101.11 | C 191.101.12 | 10 | | 42 | 90 | 10 |
| C 191.901.11 | C 191.901.12 | 10 | | 42 | 90 | 12 |
| C 191.820.11 | C 191.820.12 | 12 | | 35 | 80 | 8 |
| C 191.120.11 | C 191.120.12 | 12 | | 35 | 80 | 12 |
| C 191.121.11 | C 191.121.12 | 12 | | 42 | 90 | 12 |
| C 191.505.11 | C 191.505.12 | 12,7 | 1/2 | 31,75 | 76,2 | 12,7 |
| C 191.506.11 | C 191.506.12 | 12,7 | 1/2 | 38,1 | 88,9 | 12,7 |
| C 191.507.11 | C 191.507.12 | 12,7 | 1/2 | 50,8 | 101,6 | 12,7 |
| C 191.140.11 | C 191.140.12 | 14 | | 50 | 110 | 14 |
| C 191.509.11 | C 191.509.12 | 15,88 | 5/8 | 55 | 109,5 | 15,88 |
| C 191.160.11 | C 191.160.12 | 16 | | 55 | 110 | 16 |
| C 191.161.11 | C 191.161.12 | 16 | | 35 | 90 | 16 |
| C 191.511.11 | C 191.511.12 | 19,05 | 3/4 | 55 | 109,5 | 19,05 |
| C 191.200.11 | C 191.200.12 | 20 | | 60 | 120 | 20 |

Fräser mit negativ spiralgenuteten Schneiden

Solid Carbide Spiral Bits Down Cut

2 negativ spiralgenutete Schneiden HW (Z2), optimales Fertigfräsen auf der bearbeiteten Fläche, besseres Fertigfräsen auf der unteren Seite des Panels, Spanauswurf nach unten. Zum Ausschneiden, Kopieren, Formatschneiden von Massivholz, Holz- und Plattenwerkstoffen, auch Laminat und Plastik mit hoher Vorschubgeschwindigkeit. Einsatz in Spannfuttern oder Adaptern auf Oberfräsmaschinen und CNC-Automaten.

2 spiral edges (Z2), provides an excellent finish on the upper side of the workpiece, downward chip ejection. Used for ripping, template routing, panel sizing and any routing applications in solid wood, wood composites, plastic materials and laminates. Can be used at a high feed speed on well-clamped work pieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



Z2

192 VHW

| Bestell-Nr. Rechtslauf | Bestell-Nr. Linkslauf | D | | I mm | L mm | S mm |
|---------------------------|--------------------------|------|--------|---------|---------|---------|
| | | mm | inches | | | |
| C 192.030.11 | C 192.030.12 | 3 | | 12 | 50 | 3 |
| C 192.630.11 | C 192.630.12 | 3 | | 12 | 60 | 6 |
| C 192.830.11 | C 192.830.12 | 3 | | 12 | 60 | 8 |
| C 192.001.11 | C 192.001.12 | 3,18 | 1/8 | 12,7 | 50,8 | 6,35 |
| C 192.003.11 | C 192.003.12 | 3,97 | 5/32 | 12,7 | 50,8 | 6,35 |
| C 192.040.11 | C 192.040.12 | 4 | | 15 | 50 | 4 |
| C 192.640.11 | C 192.640.12 | 4 | | 15 | 60 | 6 |
| C 192.840.11 | C 192.840.12 | 4 | | 15 | 60 | 8 |
| C 192.005.11 | C 192.005.12 | 4,76 | 3/16 | 19,05 | 50,8 | 6,35 |
| C 192.050.11 | C 192.050.12 | 5 | | 17 | 50 | 5 |
| C 192.650.11 | C 192.650.12 | 5 | | 17 | 60 | 6 |
| C 192.850.11 | C 192.850.12 | 5 | | 17 | 60 | 8 |
| C 192.060.11 | C 192.060.12 | 6 | | 22 | 70 | 6 |
| C 192.860.11 | C 192.860.12 | 6 | | 22 | 70 | 8 |
| C 192.007.11 | C 192.007.12 | 6,35 | 1/4 | 19,05 | 50,8 | 6,35 |
| C 192.008.11 | C 192.008.12 | 6,35 | 1/4 | 25,4 | 63,5 | 6,35 |
| C 192.501.11 | C 192.501.12 | 7,94 | 5/16 | 25,4 | 76,2 | 12,7 |
| C 192.080.11 | C 192.080.12 | 8 | | 22 | 70 | 8 |
| C 192.081.11 | C 192.081.12 | 8 | | 32 | 80 | 8 |
| C 192.503.11 | C 192.503.12 | 9,53 | 3/8 | 31,75 | 76,2 | 12,7 |
| C 192.800.11 | C 192.800.12 | 10 | | 32 | 80 | 8 |
| C 192.100.11 | C 192.100.12 | 10 | | 32 | 80 | 10 |
| C 192.900.11 | C 192.900.12 | 10 | | 32 | 80 | 12 |
| C 192.820.11 | C 192.820.12 | 12 | | 35 | 80 | 8 |
| C 192.120.11 | C 192.120.12 | 12 | | 35 | 80 | 12 |
| C 192.505.11 | C 192.505.12 | 12,7 | 1/2 | 31,75 | 76,2 | 12,7 |
| C 192.506.11 | C 192.506.12 | 12,7 | 1/2 | 38,1 | 88,9 | 12,7 |
| C 192.507.11 | C 192.507.12 | 12,7 | 1/2 | 50,8 | 101,6 | 12,7 |
| C 192.160.11 | C 192.160.12 | 16 | | 55 | 110 | 16 |

Vollhartmetallfräser

| Art.-Nr. | Euro | Seite | Art.-Nr. | Euro | Seite | Art.-Nr. | Euro | Seite | Art.-Nr. | Euro | Seite |
|-------------|--------|-------|-------------|--------|-------|-------------|--------|-------|-------------|--------|-------|
| C190.060.11 | 67,40 | 2 | C191.200.11 | 306,65 | 7 | C192.060.11 | 35,42 | 8 | C193.180.11 | 258,63 | 3 |
| C190.060.12 | 67,40 | 2 | C191.200.12 | 306,65 | 7 | C192.060.12 | 35,42 | 8 | C193.180.12 | 258,63 | 3 |
| C190.080.11 | 81,08 | 2 | C191.501.11 | 158,54 | 7 | C192.080.11 | 43,82 | 8 | C193.200.11 | 306,65 | 3 |
| C190.080.12 | 81,08 | 2 | C191.501.12 | 158,54 | 7 | C192.080.12 | 43,82 | 8 | C193.200.12 | 306,65 | 3 |
| C190.100.11 | 109,82 | 2 | C191.503.11 | 158,54 | 7 | C192.081.11 | 46,80 | 8 | C193.201.11 | 306,65 | 3 |
| C190.100.12 | 109,82 | 2 | C191.503.12 | 158,54 | 7 | C192.081.12 | 46,80 | 8 | C193.201.12 | 306,65 | 3 |
| C190.120.11 | 173,91 | 2 | C191.505.11 | 158,54 | 7 | C192.100.11 | 66,97 | 8 | C194.100.11 | 66,57 | 3 |
| C190.120.12 | 173,91 | 2 | C191.505.12 | 158,54 | 7 | C192.100.12 | 66,97 | 8 | C194.100.12 | 66,57 | 3 |
| C190.160.11 | 334,60 | 2 | C191.506.11 | 166,82 | 7 | C192.120.11 | 99,25 | 8 | C194.120.11 | 99,25 | 3 |
| C190.160.12 | 334,60 | 2 | C191.506.12 | 166,82 | 7 | C192.120.12 | 99,25 | 8 | C194.120.12 | 99,25 | 3 |
| C190.180.11 | 404,34 | 2 | C191.507.11 | 183,40 | 7 | C192.160.11 | 206,02 | 8 | C194.140.11 | 166,25 | 3 |
| C190.180.12 | 404,34 | 2 | C191.507.12 | 183,40 | 7 | C192.160.12 | 206,02 | 8 | C194.140.12 | 166,25 | 3 |
| C190.504.11 | 109,82 | 2 | C191.509.11 | 206,03 | 7 | C192.501.11 | 158,54 | 8 | C194.160.11 | 206,03 | 3 |
| C190.504.12 | 109,82 | 2 | C191.509.12 | 206,03 | 7 | C192.501.12 | 158,54 | 8 | C194.160.12 | 206,03 | 3 |
| C190.505.11 | 244,25 | 2 | C191.511.11 | 290,94 | 7 | C192.503.11 | 158,54 | 8 | C194.161.11 | 186,03 | 3 |
| C190.505.12 | 244,25 | 2 | C191.511.12 | 290,94 | 7 | C192.503.12 | 158,54 | 8 | C194.161.12 | 186,03 | 3 |
| C190.506.11 | 244,25 | 2 | C191.630.11 | 38,48 | 7 | C192.505.11 | 158,54 | 8 | C194.180.11 | 258,63 | 3 |
| C190.506.12 | 244,25 | 2 | C191.630.12 | 38,48 | 7 | C192.505.12 | 158,54 | 8 | C194.180.12 | 258,63 | 3 |
| C190.507.11 | 252,54 | 2 | C191.640.11 | 38,48 | 7 | C192.506.11 | 166,82 | 8 | C194.200.11 | 306,65 | 3 |
| C190.507.12 | 252,54 | 2 | C191.640.12 | 38,48 | 7 | C192.506.12 | 166,82 | 8 | C194.200.12 | 306,65 | 3 |
| C190.508.11 | 269,11 | 2 | C191.650.11 | 38,48 | 7 | C192.507.11 | 183,40 | 8 | C195.060.11 | 42,40 | 4 |
| C190.508.12 | 269,11 | 2 | C191.650.12 | 38,48 | 7 | C192.507.12 | 183,40 | 8 | C195.060.12 | 42,40 | 4 |
| C191.001.11 | 46,54 | 7 | C191.800.11 | 74,11 | 7 | C192.630.11 | 38,48 | 8 | C195.081.11 | 52,51 | 4 |
| C191.001.12 | 46,54 | 7 | C191.800.12 | 74,11 | 7 | C192.630.12 | 38,48 | 8 | C195.081.12 | 52,51 | 4 |
| C191.003.11 | 46,54 | 7 | C191.820.11 | 110,68 | 7 | C192.640.11 | 38,48 | 8 | C195.100.11 | 74,11 | 4 |
| C191.003.12 | 46,54 | 7 | C191.820.12 | 110,68 | 7 | C192.640.12 | 38,48 | 8 | C195.100.12 | 74,11 | 4 |
| C191.005.11 | 46,54 | 7 | C191.830.11 | 46,54 | 7 | C192.650.11 | 38,48 | 8 | C195.101.11 | 78,54 | 4 |
| C191.005.12 | 46,54 | 7 | C191.830.12 | 46,54 | 7 | C192.650.12 | 38,48 | 8 | C195.101.12 | 78,54 | 4 |
| C191.007.11 | 46,54 | 7 | C191.840.11 | 46,54 | 7 | C192.800.11 | 74,11 | 8 | C195.120.11 | 110,86 | 4 |
| C191.007.12 | 46,54 | 7 | C191.840.12 | 46,54 | 7 | C192.800.12 | 74,11 | 8 | C195.120.12 | 110,86 | 4 |
| C191.008.11 | 46,54 | 7 | C191.850.11 | 46,54 | 7 | C192.820.11 | 110,68 | 8 | C195.121.11 | 116,77 | 4 |
| C191.008.12 | 46,54 | 7 | C191.850.12 | 46,54 | 7 | C192.820.12 | 110,68 | 8 | C195.121.12 | 116,77 | 4 |
| C191.030.11 | 18,88 | 7 | C191.860.11 | 49,54 | 7 | C192.830.11 | 46,54 | 8 | C195.140.11 | 183,40 | 4 |
| C191.030.12 | 18,88 | 7 | C191.860.12 | 49,54 | 7 | C192.830.12 | 46,54 | 8 | C195.140.12 | 183,40 | 4 |
| C191.040.11 | 21,42 | 7 | C191.870.11 | 52,15 | 7 | C192.840.11 | 46,54 | 8 | C195.142.11 | 302,28 | 6 |
| C191.040.12 | 21,42 | 7 | C191.870.12 | 52,15 | 7 | C192.840.12 | 46,54 | 8 | C195.142.12 | 302,28 | 6 |
| C191.050.11 | 26,20 | 7 | C191.890.11 | 110,68 | 7 | C192.850.11 | 46,54 | 8 | C195.143.11 | 269,14 | 5 |
| C191.050.12 | 26,20 | 7 | C191.890.12 | 110,68 | 7 | C192.850.12 | 46,54 | 8 | C195.143.12 | 269,14 | 5 |
| C191.060.11 | 35,42 | 7 | C191.900.11 | 110,68 | 7 | C192.860.11 | 49,44 | 8 | C195.160.11 | 227,46 | 4 |
| C191.060.12 | 35,42 | 7 | C191.900.12 | 110,68 | 7 | C192.860.12 | 49,44 | 8 | C195.160.12 | 227,46 | 4 |
| C191.080.11 | 43,82 | 7 | C191.901.11 | 166,77 | 7 | C192.900.11 | 110,68 | 8 | C195.161.11 | 207,46 | 4 |
| C191.080.12 | 43,82 | 7 | C191.901.12 | 166,77 | 7 | C192.900.12 | 110,68 | 8 | C195.161.12 | 207,46 | 4 |
| C191.081.11 | 46,80 | 7 | C192.001.11 | 46,54 | 8 | C193.081.11 | 46,80 | 3 | C195.162.11 | 436,65 | 6 |
| C191.081.12 | 46,80 | 7 | C192.001.12 | 46,54 | 8 | C193.081.12 | 46,80 | 3 | C195.162.12 | 436,65 | 6 |
| C191.100.11 | 66,97 | 7 | C192.003.11 | 46,54 | 8 | C193.100.11 | 66,97 | 3 | C195.163.11 | 334,60 | 5 |
| C191.100.12 | 66,97 | 7 | C192.003.12 | 46,54 | 8 | C193.100.12 | 66,97 | 3 | C195.163.12 | 334,60 | 5 |
| C191.101.11 | 71,40 | 7 | C192.005.11 | 46,54 | 8 | C193.101.11 | 71,40 | 3 | C195.180.11 | 282,91 | 4 |
| C191.101.12 | 71,40 | 7 | C192.005.12 | 46,54 | 8 | C193.101.12 | 71,40 | 3 | C195.180.12 | 282,91 | 4 |
| C191.120.11 | 99,25 | 7 | C192.007.11 | 46,54 | 8 | C193.120.11 | 99,25 | 3 | C195.182.11 | 486,63 | 6 |
| C191.120.12 | 99,25 | 7 | C192.007.12 | 46,54 | 8 | C193.120.12 | 99,25 | 3 | C195.182.12 | 486,63 | 6 |
| C191.121.11 | 105,34 | 7 | C192.008.11 | 46,54 | 8 | C193.121.11 | 105,34 | 3 | C195.200.11 | 332,37 | 4 |
| C191.121.12 | 105,34 | 7 | C192.008.12 | 46,54 | 8 | C193.121.12 | 105,34 | 3 | C195.200.12 | 332,37 | 4 |
| C191.140.11 | 166,25 | 7 | C192.030.11 | 18,88 | 8 | C193.140.11 | 166,25 | 3 | C195.201.11 | 332,37 | 4 |
| C191.140.12 | 166,25 | 7 | C192.030.12 | 18,88 | 8 | C193.140.12 | 166,25 | 3 | C195.201.12 | 332,37 | 4 |
| C191.160.11 | 206,02 | 7 | C192.040.11 | 21,42 | 8 | C193.160.11 | 206,03 | 3 | C195.506.11 | 166,82 | 4 |
| C191.160.12 | 206,02 | 7 | C192.040.12 | 21,42 | 8 | C193.160.12 | 206,03 | 3 | C195.506.12 | 166,82 | 4 |
| C191.161.11 | 186,02 | 7 | C192.050.11 | 26,20 | 8 | C193.161.11 | 186,03 | 3 | C195.509.11 | 227,46 | 4 |
| C191.161.12 | 186,02 | 7 | C192.050.12 | 26,20 | 8 | C193.161.12 | 186,03 | 3 | C195.509.12 | 227,46 | 4 |

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VHW-Holzbearbeitungswerkzeuge

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| C195.511.11 | 316,66 | 4 |
| C195.511.12 | 316,66 | 4 |
| C196.081.11 | 52,51 | 4 |
| C196.081.12 | 52,51 | 4 |
| C196.101.11 | 78,54 | 4 |
| C196.101.12 | 78,54 | 4 |
| C196.120.11 | 110,68 | 4 |
| C196.120.12 | 110,68 | 4 |
| C196.140.11 | 183,40 | 4 |
| C196.140.12 | 183,40 | 4 |
| C196.160.11 | 227,46 | 4 |
| C196.160.12 | 227,46 | 4 |
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| C196.180.12 | 282,91 | 4 |
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| C196.200.12 | 332,37 | 4 |
| C196.201.11 | 332,37 | 4 |
| C196.201.12 | 332,37 | 4 |
| C196.506.11 | 166,82 | 4 |
| C196.506.12 | 166,82 | 4 |
| C196.509.11 | 227,45 | 4 |
| C196.509.12 | 227,45 | 4 |
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| C197.161.11 | 207,46 | 5 |
| C197.161.12 | 207,46 | 5 |
| C197.180.11 | 282,91 | 5 |
| C197.180.12 | 282,91 | 5 |
| C197.200.11 | 332,37 | 5 |
| C197.200.12 | 332,37 | 5 |
| C198.030.11 | 18,88 | 2 |
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| C198.040.11 | 21,43 | 2 |
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| C198.050.11 | 26,20 | 2 |
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| C198.060.11 | 33,48 | 2 |
| C198.060.12 | 33,48 | 2 |
| C198.080.11 | 43,82 | 2 |
| C198.080.12 | 43,82 | 2 |
| C198.100.11 | 62,47 | 2 |
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| C198.120.11 | 99,26 | 2 |
| C198.120.12 | 99,26 | 2 |



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| Artikel-Nr. | Bezeichnung | Anzahl | Einzelpreis | Gesamtpreis (brutto) |
|--|-------------|--------|----------------------------------|----------------------|
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| | | | € | € |
| Versandkosten 6,50 Euro innerhalb von Deutschland ab 250 Euro Warenwert innerhalb von Deutschland versandkostenfrei | | | Versandkosten (brutto) | € |
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Ausführungen:

- HSS
- Hartmetall
- Wendeplatten
- Diamant

Wir benötigen dazu von Ihnen:

vermaßte Skizze mit folgenden Angaben

- Außendurchmesser
- Innendurchmesser
- Zähnezahl
- Handvorschub oder mechanischer Vorschub
- Radien
- Winkelangaben
- Material
- sonstige Besonderheiten

Lieferzeit nach Absprache

Bohrungs-Standardwerkzeuge ab Lager

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- Dübellochbohrer aus VHM
- Dübellochbohrer CONDRILL
- Dübellochbohrer mit Bohrstift
- Stufensenker
- Zylinderkopfbohrer
- Zylinderkopfbohrer mit Spanbrecher
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- Vollhartmetallfräser
- Schlichtfräser
- Schrufffräser
- Spiralbohrer
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Lieferzeit nach Absprache

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