



**GOOD TO KNOW
GUT ZU WISSEN**

**SHANK CUTTERS
SCHAFTFRÄSER**

**STEP DRILLS
STUFENBOHRER**

**TWIST DRILLS
SPIRALBOHRER**

**CYLINDER BORING BITS
ZYLINDERKOPFBOHRER**



HW-Plus ZYLINDERKOPFBOHRER Z = 3 + 3V

Für Bohrautomaten. Schaft mit Spannfläche und Einstellschraube.

TCT-Plus Hinge Boring Bits

Shank with clamping flat and adjustment screw; 3 wings + 3 spurs

Für höhere Vorschübe als mit der Z2+V2 Ausführung.
 Getestet bis zu $n_{max} = 9.000 \text{ min.}^{-1}$ $vf_{max} = 4 \text{ m min.}^{-1}$
 Der Beschlagbohrer mit besonders hohem Standweg.
 Bestückt mit Sub Micro Grain Hartmetall (Korngröße 0,5-0,8 μm) und einer speziellen Schneidengeometrie.

For higher feed rates than with the Z2+V2 version.
 Tested up to $n_{max} = 9000 \text{ min.}^{-1}$ $vf_{max} = 4 \text{ m min.}^{-1}$
 The hinge boring bit with extraordinary lifetime achieved by the use of Sub Micro Grain tungsten carbide (grain size 0,5-0,8 μm) and a special cutting geometry.

| Ø D (mm) | Art. Nr. | | €/Stück | €/piece | |
|-------------|--------------|------------|---------|---------|------|
| | rechts/right | links/left | 1-19 | >20 | > 50 |



Art. 2.35.02+
 Maßstab 1:1
 Full size

L = 57,5mm; S = 10 x 26mm

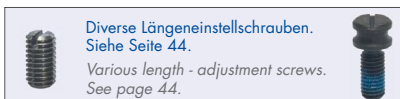
| | | | | | |
|----|----------|----------|-------|-------|-------|
| 20 | 2.20.01+ | 2.20.11+ | 71,80 | 68,20 | 64,60 |
| 25 | 2.25.01+ | 2.25.11+ | 57,00 | 54,20 | 51,30 |
| 26 | 2.26.01+ | 2.26.11+ | 57,50 | 54,60 | 51,80 |
| 30 | 2.30.01+ | 2.30.11+ | 59,20 | 56,20 | 53,30 |
| 35 | 2.35.01+ | 2.35.11+ | 62,20 | 59,10 | 56,00 |
| 40 | 2.40.01+ | 2.40.11+ | 79,60 | 75,60 | 71,60 |

L = 70mm; S = 10 x 38mm

| | | | | | |
|----|----------|----------|-------|-------|-------|
| 20 | 2.20.02+ | 2.20.12+ | 78,80 | 74,90 | 70,90 |
| 25 | 2.25.02+ | 2.25.12+ | 66,30 | 63,00 | 59,70 |
| 26 | 2.26.02+ | 2.26.12+ | 67,30 | 63,90 | 60,60 |
| 30 | 2.30.02+ | 2.30.12+ | 69,00 | 65,60 | 62,10 |
| 35 | 2.35.02+ | 2.35.12+ | 72,20 | 68,60 | 65,00 |
| 40 | 2.40.02+ | 2.40.12+ | 91,30 | 86,70 | 82,20 |

Auf Wunsch ohne oder mit gekürzter Zentrierspitze.
 Andere Abmessungen und Durchmesser fertigen wir auf Anfrage.

On request with short or shortened centerpoint.
 All other diameters can be produced on request.



HW-Plus ZYLINDERKOPFBOHRER Z = 2 + 2V

Für Bohrautomaten. Schaft mit Spannfläche und Einstellschraube.



TCT-Plus Hinge Boring Bits

Shank with clamping flat and adjustment screw; 2 wings + 2 spurs

Der Beschlagbohrer für hohe Standwege durch Verwendung von Sub Micro Grain Hartmetall (Korngröße 0,5-0,8 µm) und einer speziellen Schneidengeometrie.

The hinge boring bit for extended lifetime achieved by the use of Sub Micro Grain tungsten carbide (grain size 0,5-0,8 µm) and a special cutting geometry.

| Ø D (mm) | Art. Nr. | | €/Stück 1-19 | €/piece | |
|-------------|--------------|------------|-----------------|---------|------|
| | rechts/right | links/left | | >20 | > 50 |

L = 57,5mm; S = 10 x 26mm

| | | | | | |
|----|----------|----------|-------|-------|-------|
| 15 | 1.15.01+ | 1.15.11+ | 35,40 | 33,60 | 31,90 |
| 16 | 1.16.01+ | 1.16.11+ | 39,00 | 37,10 | 35,10 |
| 18 | 1.18.01+ | 1.18.11+ | 39,80 | 37,80 | 35,80 |
| 20 | 1.20.01+ | 1.20.11+ | 37,50 | 35,60 | 33,80 |
| 25 | 1.25.01+ | 1.25.11+ | 38,40 | 36,50 | 34,60 |
| 26 | 1.26.01+ | 1.26.11+ | 38,80 | 36,90 | 34,90 |
| 30 | 1.30.01+ | 1.30.11+ | 40,70 | 38,70 | 36,60 |
| 35 | 1.35.01+ | 1.35.11+ | 41,60 | 39,50 | 37,40 |
| 40 | 1.40.01+ | 1.40.11+ | 59,00 | 56,10 | 53,10 |

L = 70mm; S = 10 x 38mm

| | | | | | |
|----|----------|----------|-------|-------|-------|
| 15 | 1.15.02+ | 1.15.12+ | 39,90 | 37,90 | 35,90 |
| 16 | 1.16.02+ | 1.16.12+ | 42,00 | 39,90 | 37,80 |
| 18 | 1.18.02+ | 1.18.12+ | 42,10 | 40,00 | 37,90 |
| 20 | 1.20.02+ | 1.20.12+ | 41,70 | 39,60 | 37,50 |
| 25 | 1.25.02+ | 1.25.12+ | 42,90 | 40,80 | 38,60 |
| 26 | 1.26.02+ | 1.26.12+ | 43,90 | 41,70 | 39,50 |
| 30 | 1.30.02+ | 1.30.12+ | 46,80 | 44,50 | 42,10 |
| 35 | 1.35.02+ | 1.35.12+ | 46,30 | 44,00 | 41,70 |
| 40 | 1.40.02+ | 1.40.12+ | 62,00 | 58,90 | 55,80 |

Andere Abmessungen und Durchmesser fertigen wir auf Anfrage.

Auf Wunsch mit gekürzter Zentrierspitze.

Änderungskosten bis 20 Stück € 2,20/Stück (netto), > 20 Stück ohne Aufpreis.

Other diameters are produced on request.

Also available with shortened centerpoint.

Extra charge up to 20 pcs. € 2,20/piece (net), > 20 pcs. free of cost.



Diverse Längeneinstellschrauben.
Siehe Seite 44.
Various length - adjustment screws.
See page 44.



Art. 1.35.01+
Maßstab 1:1
Full size



Art. 1.15.12+
Maßstab 1:1
Full size



ZYLINDERKOPFBOHRER (HW) Z = 3 + 3V

Für Bohrautomaten. Schaft mit Spannfläche und Einstellschraube.

Hinge Boring Bits (TCT)

Shank with clamping flat and adjustment screw; 3 wings + 3 spurs



Art. 2.35.01
Maßstab 1:1
Full size

| Ø D (mm) | Art. Nr. | | €/Stück | | €/piece |
|-------------|--------------|------------|---------|-----|---------|
| | rechts/right | links/left | 1-19 | >20 | > 50 |

L = 57,5mm; S = 10 x 26mm

| | | | | | |
|----|---------|---------|--------|--------|--------|
| 18 | 2.18.01 | 2.18.11 | 58,00 | 55,10 | 52,20 |
| 20 | 2.20.01 | 2.20.11 | 58,60 | 55,70 | 52,70 |
| 25 | 2.25.01 | 2.25.11 | 51,00 | 48,50 | 45,90 |
| 26 | 2.26.01 | 2.26.11 | 55,50 | 52,70 | 50,00 |
| 30 | 2.30.01 | 2.30.11 | 57,50 | 54,60 | 51,80 |
| 35 | 2.35.01 | 2.35.11 | 53,60 | 50,90 | 48,20 |
| 40 | 2.40.01 | 2.40.11 | 72,50 | 68,90 | 65,30 |
| 50 | 2.50.01 | 2.50.11 | 132,80 | 126,20 | 119,50 |
| 60 | 2.60.01 | 2.60.11 | 139,60 | 132,60 | 125,60 |

L = 70mm; S = 10 x 38mm

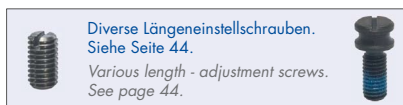
| | | | | | |
|----|---------|---------|--------|--------|--------|
| 20 | 2.20.02 | 2.20.12 | 71,90 | 68,30 | 64,70 |
| 25 | 2.25.02 | 2.25.12 | 60,00 | 57,00 | 54,00 |
| 26 | 2.26.02 | 2.26.12 | 63,60 | 60,40 | 57,20 |
| 30 | 2.30.02 | 2.30.12 | 56,50 | 53,70 | 50,90 |
| 35 | 2.35.02 | 2.35.12 | 65,20 | 61,90 | 58,70 |
| 40 | 2.40.02 | 2.40.12 | 72,80 | 69,20 | 65,50 |
| 50 | 2.50.02 | 2.50.12 | 158,00 | 150,10 | 142,20 |
| 60 | 2.60.02 | 2.60.12 | 166,00 | 157,70 | 149,40 |

Auf Wunsch ohne oder mit gekürzter Zentrierspitze.
Andere Abmessungen und Durchmesser fertigen wir auf Anfrage.

On request with short or shortened centerpoint.
All other diameters can be produced on request.



Art. 2.20.11
Maßstab 1:1
Full size



ZYLINDERKOPFBOHRER (HW) Z = 2 + 2V

Für Bohrautomaten. Schaft mit Spannfläche und Einstellschraube.



Hinge Boring Bits (TCT)

Shank with clamping flat and adjustment screw; 2 wings + 2 spurs

| Ø D (mm) | Art. Nr. | | €/Stück | | €/piece |
|----------------------------------|--------------|------------|---------|-------|---------|
| | rechts/right | links/left | 1-19 | >20 | > 50 |
| L = 57,5mm; S = 10 x 26mm | | | | | |
| 8 | 1.08.01 | 1.08.11 | 43,00 | 40,90 | 38,70 |
| 10 | 1.10.01 | 1.10.11 | 40,60 | 38,60 | 36,50 |
| 12 | 1.12.01 | 1.12.11 | 42,00 | 39,90 | 37,80 |
| 15 | 1.15.01 | 1.15.11 | 30,30 | 28,80 | 27,30 |
| 16 | 1.16.01 | 1.16.11 | 31,40 | 29,80 | 28,30 |
| 17 | 1.17.01 | 1.17.11 | 47,60 | 45,20 | 42,80 |
| 18 | 1.18.01 | 1.18.11 | 31,40 | 29,80 | 28,30 |
| 19 | 1.19.01 | 1.19.11 | 49,30 | 46,80 | 44,40 |
| 20 | 1.20.01 | 1.20.11 | 33,10 | 31,40 | 29,80 |
| 22 | 1.22.01 | 1.22.11 | 36,50 | 34,70 | 32,90 |
| 23 | 1.23.01 | 1.23.11 | 53,90 | 51,20 | 48,50 |
| 24 | 1.24.01 | 1.24.11 | 37,70 | 35,80 | 33,90 |
| 25 | 1.25.01 | 1.25.11 | 34,80 | 33,10 | 31,30 |
| 26 | 1.26.01 | 1.26.11 | 35,00 | 33,30 | 31,50 |
| 28 | 1.28.01 | 1.28.11 | 47,60 | 45,20 | 42,80 |
| 30 | 1.30.01 | 1.30.11 | 36,50 | 34,70 | 32,90 |
| 35 | 1.35.01 | 1.35.11 | 37,10 | 35,20 | 33,40 |
| 38 | 1.38.01 | 1.38.11 | 59,70 | 56,70 | 53,70 |
| 40 | 1.40.01 | 1.40.11 | 53,40 | 50,70 | 48,10 |
| 42 | 1.42.01 | 1.42.11 | 65,00 | 61,80 | 58,50 |
| 50 | 1.50.01 | 1.50.11 | 68,40 | 65,00 | 61,60 |



Art. 1.10.01
Maßstab 1:1
Full size

| | | | | | |
|--------------------------------|---------|---------|-------|-------|-------|
| L = 70mm; S = 10 x 38mm | | | | | |
| 10 | 1.10.02 | 1.10.12 | 46,60 | 44,30 | 41,90 |
| 12 | 1.12.02 | 1.12.12 | 49,80 | 47,30 | 44,80 |
| 15 | 1.15.02 | 1.15.12 | 36,00 | 34,20 | 32,40 |
| 18 | 1.18.02 | 1.18.12 | 37,30 | 35,40 | 33,60 |
| 20 | 1.20.02 | 1.20.12 | 37,70 | 35,80 | 33,90 |
| 22 | 1.22.02 | 1.22.12 | 39,90 | 37,90 | 35,90 |
| 25 | 1.25.02 | 1.25.12 | 40,60 | 38,60 | 36,50 |
| 26 | 1.26.02 | 1.26.12 | 41,50 | 39,40 | 37,40 |
| 30 | 1.30.02 | 1.30.12 | 44,10 | 41,90 | 39,70 |
| 35 | 1.35.02 | 1.35.12 | 44,80 | 42,60 | 40,30 |
| 40 | 1.40.02 | 1.40.12 | 56,80 | 54,00 | 51,10 |
| 50 | 1.50.02 | 1.50.12 | 78,30 | 74,40 | 70,50 |



Art. 1.35.12
Maßstab 1:1
Full size

Andere Abmessungen und Durchmesser fertigen wir auf Anfrage.
Auf Wunsch mit gekürzter Zentrierspitze.
Änderungskosten bis 20 Stück € 2,20/Stück (netto), > 20 Stück ohne Aufpreis.
Other diameters are produced on request.
Also available with shortened centerpoint.
Extra charge up to 19 pcs. € 2,20/piece (net), > 20 pcs. free of cost.



Zylinderkopfbohrer (HW)
 Kurze Ausführung; L = 90mm; Z = 2 + 2V; Rechtslauf

Machine Bits (TCT)
 Short version; L = 90mm; 2 wings + 2 spurs; RH cutting



Art. 8.35.01
 Maßstab 1:1
 Full size

| Ø D (mm) | Ø S (mm) | Art. Nr. | €/Stück €/piece | |
|-------------|-------------|----------|--------------------|-----|
| 8 | 10 x 30 | 8.08.01 | 33,00 | Z=2 |
| 9 | 10 x 30 | 8.09.01 | 33,00 | Z=2 |
| 10 | 10 x 30 | 8.10.01 | 36,00 | |
| 11 | 10 x 30 | 8.11.01 | 36,20 | |
| 12 | 10 x 30 | 8.12.01 | 36,40 | |
| 13 | 10 x 30 | 8.13.01 | 37,00 | |
| 14 | 10 x 30 | 8.14.01 | 34,10 | |
| 15 | 10 x 30 | 8.15.01 | 34,10 | |
| 16 | 10 x 30 | 8.16.01 | 34,70 | |
| 17 | 10 x 30 | 8.17.01 | 34,70 | |
| 18 | 10 x 30 | 8.18.01 | 35,20 | |
| 19 | 10 x 30 | 8.19.01 | 38,00 | |
| 20 | 10 x 30 | 8.20.01 | 36,30 | |
| 21 | 10 x 30 | 8.21.01 | 40,20 | |
| 22 | 10 x 30 | 8.22.01 | 39,60 | |
| 23 | 10 x 30 | 8.23.01 | 40,20 | |
| 24 | 10 x 30 | 8.24.01 | 40,20 | |
| 25 | 10 x 30 | 8.25.01 | 40,90 | |
| 26 | 10 x 30 | 8.26.01 | 41,30 | |
| 27 | 10 x 30 | 8.27.01 | 44,00 | |
| 28 | 10 x 30 | 8.28.01 | 42,40 | |
| 29 | 10 x 30 | 8.29.01 | 44,60 | |
| 30 | 10 x 30 | 8.30.01 | 44,60 | |
| 31 | 10 x 30 | 8.31.01 | 49,00 | |
| 32 | 10 x 30 | 8.32.01 | 45,70 | |
| 33 | 10 x 30 | 8.33.01 | 50,60 | |
| 34 | 10 x 30 | 8.34.01 | 47,90 | |
| 35 | 10 x 30 | 8.35.01 | 48,40 | |
| 36 | 10 x 30 | 8.36.01 | 50,60 | |
| 37 | 10 x 30 | 8.37.01 | 56,70 | |
| 38 | 10 x 30 | 8.38.01 | 55,60 | |
| 39 | 10 x 30 | 8.39.01 | 61,10 | |
| 40 | 10 x 30 | 8.40.01 | 56,10 | |
| 41 | 10 x 30 | 8.41.01 | 67,70 | |
| 42 | 10 x 30 | 8.42.01 | 65,50 | |
| 43 | 10 x 30 | 8.43.01 | 70,40 | |
| 44 | 10 x 30 | 8.44.01 | 70,40 | |
| 45 | 10 x 30 | 8.45.01 | 69,90 | |
| 46 | 10 x 30 | 8.46.01 | 72,60 | |
| 47 | 10 x 30 | 8.47.01 | 75,90 | |

Zylinderkopfbohrer (HW)
 Kurze Ausführung; L = 90mm; Z = 2 + 2V; Rechtslauf



Machine Bits (TCT)
 Short version; L = 90mm; 2 wings + 2 spurs; RH cutting

| Ø D (mm) | Ø S (mm) | Art. Nr. | €/Stück €/piece |
|-------------|-------------|----------|--------------------|
| 48 | 10 x 30 | 8.48.01 | 77,00 |
| 49 | 10 x 30 | 8.49.01 | 78,70 |
| 50 | 10 x 30 | 8.50.01 | 75,90 |
| 51 | 10 x 30 | 8.51.01 | 83,60 |
| 52 | 10 x 30 | 8.52.01 | 84,20 |
| 53 | 10 x 30 | 8.53.01 | 87,50 |
| 54 | 10 x 30 | 8.54.01 | 88,00 |
| 55 | 10 x 30 | 8.55.01 | 88,60 |
| 56 | 10 x 30 | 8.56.01 | 90,20 |
| 57 | 12 x 30 | 8.57.01 | 97,90 |
| 58 | 12 x 30 | 8.58.01 | 95,20 |
| 59 | 12 x 30 | 8.59.01 | 104,50 |
| 60 | 12 x 30 | 8.60.01 | 98,50 |



Art. 8.58.01
 Maßstab 1:1
 Full size

Zylinderkopfbohrer Set 8000 (HW)
 im stabilen Holzkasten; 5-teilig (Ø15; 20; 25; 30; 35mm)
 Z = 2 + 2V; L = 90mm; S = 10x30

Machine Bit - Set (TCT)
 5 pieces; short version; L = 90mm; 2 cutters + 2 spurs; RH cutting

| Anzahl Amount | | €/Stück €/piece |
|------------------|-------|--------------------|
| 1 - 5 | Stück | 195,30 |
| 6 - 10 | Stück | 191,40 |
| 11 - 30 | Stück | 187,60 |
| > 30 | Stück | 183,20 |



Artikel Nr.8000



Zylinderkopfbohrer (HW)

Lange Ausführung; L = 140mm; Z = 2 + 2V; Rechtslauf

Machine Bits (TCT)

Long version; L = 140mm; 2 wings + 2 spurs; RH cutting

| Ø D (mm) | Ø S (mm) | Art. Nr. | €/Stück €/piece |
|-------------|-------------|----------|--------------------|
| 10 | 13 x 50 | 7.10.01 | 39,60 |
| 12 | 13 x 50 | 7.12.01 | 39,60 |
| 14 | 13 x 50 | 7.14.01 | 40,20 |
| 15 | 13 x 50 | 7.15.01 | 40,20 |
| 16 | 13 x 50 | 7.16.01 | 41,30 |
| 18 | 13 x 50 | 7.18.01 | 41,80 |
| 20 | 13 x 50 | 7.20.01 | 43,50 |
| 22 | 13 x 50 | 7.22.01 | 44,60 |
| 24 | 13 x 50 | 7.24.01 | 46,80 |
| 25 | 13 x 50 | 7.25.01 | 47,90 |
| 26 | 13 x 50 | 7.26.01 | 48,40 |
| 28 | 13 x 50 | 7.28.01 | 51,20 |
| 30 | 13 x 50 | 7.30.01 | 52,30 |
| 32 | 13 x 50 | 7.32.01 | 55,00 |
| 34 | 16 x 50 | 7.34.01 | 56,10 |
| 35 | 16 x 50 | 7.35.01 | 55,60 |
| 36 | 16 x 50 | 7.36.01 | 59,40 |
| 38 | 16 x 50 | 7.38.01 | 62,20 |
| 40 | 16 x 50 | 7.40.01 | 63,30 |
| 42 | 16 x 50 | 7.42.01 | 72,60 |
| 44 | 16 x 50 | 7.44.01 | 76,50 |
| 45 | 16 x 50 | 7.45.01 | 77,00 |
| 46 | 16 x 50 | 7.46.01 | 81,40 |
| 48 | 16 x 50 | 7.48.01 | 84,20 |
| 50 | 16 x 50 | 7.50.01 | 89,70 |
| 52 | 16 x 50 | 7.52.01 | 95,70 |
| 54 | 16 x 50 | 7.54.01 | 99,60 |
| 55 | 16 x 50 | 7.55.01 | 104,00 |
| 56 | 16 x 50 | 7.56.01 | 106,20 |
| 58 | 16 x 50 | 7.58.01 | 110,60 |
| 60 | 16 x 50 | 7.60.01 | 113,30 |
| 62 | 16 x 50 | 7.62.01 | 116,60 |
| 63 | 16 x 50 | 7.63.01 | 157,90 |
| 64 | 16 x 50 | 7.64.01 | 119,90 |
| 65 | 16 x 50 | 7.65.01 | 122,70 |
| 68 | 16 x 50 | 7.68.01 | 154,00 |
| 70 | 16 x 50 | 7.70.01 | 162,30 |
| 72 | 16 x 50 | 7.72.01 | 209,60 |
| 75 | 20 x 50 | 7.75.01 | 183,20 |
| 78 | 20 x 50 | 7.78.01 | 223,30 |
| 80 | 20 x 50 | 7.80.01 | 203,50 |

Zylinderkopfbohrer (HW)

Lange Ausführung; L = 140mm; Z = 2 + 2V; Rechtslauf



Machine Bits (TCT)

Long version; L = 140mm; 2 wings + 2 spurs; RH cutting

| Ø D (mm) | Ø S (mm) | Art. Nr. | €/Stück €/piece |
|-------------|-------------|----------|--------------------|
| 82 | 20 x 50 | 7.82.01 | 223,90 |
| 85 | 20 x 50 | 7.85.01 | 243,70 |
| 90 | 20 x 50 | 7.90.01 | 269,50 |
| 95 | 20 x 50 | 7.95.01 | 295,40 |
| 100 | 20 x 50 | 7.100.01 | 313,00 |
| 105 | 20 x 50 | 7.105.01 | 405,90 |
| 110 | 20 x 50 | 7.110.01 | 455,40 |
| 115 | 20 x 50 | 7.115.01 | 536,30 |
| 120 | 20 x 50 | 7.120.01 | 596,80 |
| 130 | 20 x 50 | 7.130.01 | 724,90 |

Für die Anfertigung von Zwischenmaßen
bitten wir um Ihre Anfrage.

*Other diameters will
be produced on request.*



Art. 7.80.01
Maßstab 1:1
Full size



Kunstbohrer aus SP-Stahl

Kurze Ausführung; L = 90mm; Z = 2 + 2V

Universal Boring Bits (Steel)

Short version; L = 90mm; 2 wings + 2 spurs



Art. 8.35.01ws
Maßstab 1:1
Full size

| Ø D (mm) | Ø S (mm) | Art. Nr. | €/Stück €/piece |
|-------------|-------------|-----------|--------------------|
| 8 | 8 x 30 | 8.08.01ws | 13,70 |
| 10 | 8 x 30 | 8.10.01ws | 13,70 |
| 12 | 8 x 30 | 8.12.01ws | 13,90 |
| 13 | 8 x 30 | 8.13.01ws | 19,90 |
| 14 | 8 x 30 | 8.14.01ws | 14,80 |
| 15 | 8 x 30 | 8.15.01ws | 14,90 |
| 16 | 8 x 30 | 8.16.01ws | 15,60 |
| 18 | 8 x 30 | 8.18.01ws | 16,40 |
| 20 | 8 x 30 | 8.20.01ws | 17,00 |
| 22 | 8 x 30 | 8.22.01ws | 18,00 |
| 24 | 8 x 30 | 8.24.01ws | 19,00 |
| 25 | 8 x 30 | 8.25.01ws | 19,40 |
| 26 | 8 x 30 | 8.26.01ws | 19,40 |
| 28 | 8 x 30 | 8.28.01ws | 21,50 |
| 30 | 8 x 30 | 8.30.01ws | 22,50 |
| 32 | 10 x 30 | 8.32.01ws | 24,30 |
| 34 | 10 x 30 | 8.34.01ws | 27,10 |
| 35 | 10 x 30 | 8.35.01ws | 31,20 |
| 36 | 10 x 30 | 8.36.01ws | 31,90 |
| 38 | 10 x 30 | 8.38.01ws | 33,80 |
| 40 | 10 x 30 | 8.40.01ws | 33,80 |
| 42 | 10 x 30 | 8.42.01ws | 43,70 |
| 45 | 10 x 30 | 8.45.01ws | 45,00 |
| 46 | 10 x 30 | 8.46.01ws | 47,00 |
| 48 | 10 x 30 | 8.48.01ws | 49,00 |
| 50 | 10 x 30 | 8.50.01ws | 50,00 |

Lochsäge (HW) mit Kugellager - Auswerfer

Optional mit verstellbarem Aufstecksenker.



Hole Saw (TCT) with ball bearing ejector

Optional with adjustable countersink.

| Ø D (mm) | Art.Nr. komplett complete | €/Stück €/piece | Art.Nr. nur Krone only crown | €/Stück €/piece |
|-------------|---------------------------------|--------------------|------------------------------------|--------------------|
|-------------|---------------------------------|--------------------|------------------------------------|--------------------|

L = 185mm; L1 = 30mm; Sb = 3,5mm; Ød = 5mm; Z=6

| | | | | |
|-----|-----------|--------|-----------|--------|
| 40 | 19.40.01 | 248,00 | 19.40.02 | 119,00 |
| 45 | 19.45.01 | 250,00 | 19.45.02 | 122,00 |
| 50 | 19.50.01 | 253,00 | 19.50.02 | 123,00 |
| 55 | 19.55.01 | 257,00 | 19.55.02 | 124,00 |
| 58 | 19.58.01 | 258,00 | 19.58.02 | 125,00 |
| 60 | 19.60.01 | 260,00 | 19.60.02 | 127,00 |
| 65 | 19.65.01 | 262,00 | 19.65.02 | 129,00 |
| 68 | 19.68.01 | 249,00 | 19.68.02 | 126,00 |
| 70 | 19.70.01 | 265,00 | 19.70.02 | 136,00 |
| 72 | 19.72.01 | 284,00 | 19.72.02 | 165,00 |
| 75 | 19.75.01 | 288,00 | 19.75.02 | 168,00 |
| 78 | 19.78.01 | 294,00 | 19.78.02 | 180,00 |
| 80 | 19.80.01 | 296,00 | 19.80.02 | 182,00 |
| 85 | 19.85.01 | 302,00 | 19.85.02 | 192,00 |
| 90 | 19.90.01 | 309,00 | 19.90.02 | 202,00 |
| 95 | 19.95.01 | 315,00 | 19.95.02 | 210,00 |
| 100 | 19.100.01 | 330,00 | 19.100.02 | 232,00 |
| 105 | 19.105.01 | 346,00 | 19.105.02 | 255,00 |

Wechselschaft / Changable Shank

| | | |
|-----|---------|-------|
| Ø13 | 19.13.s | 68,00 |
| Ø16 | 19.16.s | 68,00 |
| Ø20 | 19.20.s | 68,00 |

Vorbohrer (HS) / Pilot Drill (HS)

| | | |
|----|---------|------|
| Ø5 | 19.05.v | 9,00 |
|----|---------|------|

Aufstecksenker / Countersink

für Flachsenkung $Sa_{max} = 4mm$ / for sink $Sa_{max} = 4mm$

| | | |
|--------|---------|--------------------------|
| Ø40-49 | 19.40.R | 77,50 |
| Ø50-59 | 19.50.R | 88,50 |
| Ø60-64 | 19.60.R | 98,00 |
| Ø65-69 | 19.65.R | 108,00 |
| Ø70 | 19.Ø.R | auf Anfrage / on request |

Alle übrigen Ersatzteile erhalten Sie auf Anfrage.

All remaining spare parts are available on request.

Die „Lochsäge komplett“ besteht aus Krone, Wechselschaft und Auswerfer; ohne Aufstecksenker.

The complete hole saw consists of crown changable shank and ejector without countersink.



Art. 19.68.01





ELEPART Beschlagbohrer HW mit Aussengewinde
Für den Einsatz in der Türenfertigung.

ELEPART Hinge Boring Bit (TCT) with external thread
For the application in door production.



| Ø D x L1 (mm) | L (mm) | Art. Nr. | | €/Stück | | €/piece |
|------------------|-----------|--------------|------------|---------|------|---------|
| | | rechts/right | links/left | 1-5 | 6-10 | >10 |

S = M10

| | | | | | | |
|---------|----|-------|-------|-------|-------|-------|
| 20 x 14 | 30 | E1801 | E1802 | 99,60 | 89,60 | 82,20 |
| 20 x 18 | 33 | E2463 | E2828 | 99,60 | 89,60 | 82,20 |
| 20 x 20 | 35 | E2483 | E2829 | 99,60 | 89,60 | 82,20 |
| 20 x 23 | 38 | E1803 | E1804 | 99,60 | 89,60 | 82,20 |
| 20 x 30 | 43 | E1561 | E1562 | 99,60 | 89,60 | 82,20 |

Weitere Abmessungen auf Anfrage.
Further dimensions on request.



Gewindenschaft wahlweise mit
Threaded shank optional with

Freistich
relief groove

oder
or

Paßsitz.
fitting part.

