

**PUNTE IN HSS & HSS-E**

*HSS & HSS-E DRILLS*

*HSS & HSS-E BOHRER*



## PUNTE IN HSS & HSS-E

*HSS & HSS-E DRILLS*

*HSS & HSS-E BOHRER*



PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER



**Punta in PREMIUM HSS-E**  
**Affilatura speciale**  
**2 Taglienti**  
**Serie corta**

*PREMIUM HSS-E twist drill*  
*Special grinding*  
*2 Flutes*  
*Short series*

*Spiralbohrer PREMIUM HSS-E;*  
*Spezienschliff;*  
*2 Schneiden;*  
*kurze Ausführung*

**T43**

PAG.625



**Punta in HSS-E (Co 8%)**  
**2 Taglienti**  
**Serie corta**

*HSS-E (Co 8%) twist drill*  
*2 Flutes*  
*Short series*

*Spiralbohrer HSS-E (Co 8%);*  
*2 Schneiden;*  
*kurze Ausführung*

**T53**

PAG. 628



**Punta in HSS-E (Co 8%)**  
**2 Taglienti**  
**Serie normale**

*HSS-E (Co 8%) twist drill*  
*2 Flutes*  
*Normal series*

*Spiralbohrer HSS-E (Co 8%);*  
*2 Schneiden;*  
*normale Ausführung*

**T54**

PAG. 630



**Punta in HSS-E (Co 8%)**  
**2 Taglienti**  
**Serie extra lunga**

*HSS-E (Co 8%) twist drill*  
*2 Flutes*  
*Extra long series*

*Spiralbohrer HSS-E (Co 8%);*  
*2 Schneiden;*  
*extra lange Ausführung*

**T55**

PAG. 632



**Punta in HSS**  
**2 Taglienti**  
**Serie normale**

*HSS twist drill*  
*2 Flutes*  
*Normal series*

*HSS-Spiralbohrer;*  
*2 Schneiden;*  
*normale Ausführung*

**T70**

PAG. 633



**Punta in HSS-E (Co 5%)**  
**Per lavorazioni pesanti**  
**2 Taglienti**  
**Serie normale**

*HSS-E (Co 5%) twist drill*  
*Heavy duty drill*  
*2 Flutes*  
*Normal series*

*Spiralbohrer HSS-E (Co 5%);*  
*für schwere Bearbeitungen;*  
*2 Schneiden;*  
*normale Ausführung*

**T80**

PAG. 634



**Punta per centrature a 60°**  
**Punta in HSS-E**

*Drills for 60° spot-drilling*  
*HSS-E drill*

*Zentrierbohrer HSS-E 60°*

**T950A**

PAG. 635



**Punta per centrature a 60°**  
**Punta in HSS-E**

*Drills for 60° spot-drilling*  
*HSS-E drill*

*Zentrierbohrer HSS-E 60°*

**T950R**

PAG. 635



**Punta per centrature a 90°**  
**Punta in HSS-E**

*Drills for 90° C.N.C. spot-drilling*  
*HSS-E drill*

*NC-Anbohrer HSS-E 90°*

**T960**

PAG. 636



**Punta per centrature  
C.N.C. a 120°  
Punta in HSS-E**

*Drills for 120° C.N.C.  
spot-drilling  
HSS-E drill*

*NC-Anbohrer  
HSS-E  
120°*

**T970**

PAG. 636



**Svasatore a 60°  
in HSS  
Attacco cilindrico**

*HSS countersink 60°  
Plain shank*

*HSS-Kegelsenker  
60°;  
Zylinderschaft*

**TS60**

PAG. 637



**Svasatore a 60°  
in HSS  
Attacco conico Morse**

*HSS countersink 60°  
Morse taper shank*

*HSS-Kegelsenker 60°;  
mit Morsekegel*

**TS60CM**

PAG. 637



**Svasatore a 90°  
in HSS  
Attacco cilindrico**

*HSS countersink 90°  
Plain shank*

*HSS-Kegelsenker 90°;  
Zylinderschaft*

**TS90**

PAG. 638



**Svasatore a 90°  
in HSS  
Attacco conico Morse**

*HSS countersink 90°  
Morse taper shank*

*HSS-Kegelsenker 90°;  
mit Morsekegel*

**TS90CM**

PAG. 638

**PUNTE IN HSS & HSS-E**  
*HSS & HSS-E DRILLS*  
*HSS & HSS-E BOHRER*



PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER



## NOVITÀ ASSOLUTA

# Punta autocentrante in SUPERIOR HSS-E ad alte prestazioni

*Self-centering drill made in SUPERIOR HSS-E  
for high performance*

*Selbstzentrierender Bohrer aus SUPERIOR HSS-E  
für Hochleistung*

# T43

**Innovativa elica appositamente studiata per garantire la massima capacità di evacuazione del truciolo.**

*Innovative helix designed for maximum chip evacuation.  
Innovative Spiralform garantiert eine leistungsstarke Späneentsorgung.*

**Grazie ad una affilatura speciale della punta è possibile eliminare i fori di centraggio.**

*Thanks to the special point geometry, no centering is required.  
Dank eines speziellen Schliffs erübrigen sich die Zentrierbohrungen.*

**Realizzate in SUPERIOR HSS-E che garantisce un'eccellente tenacità, e rivestite in KP60.**

*Made by SUPERIOR HSS-E that allows an excellent toughness, and KP60 coated.  
Die SUPERIOR HSS-E-Boher garantieren erstklassige Stabilität. Zudem sind sie mit KP60 beschichtet.*

### ADATTE PER LA LAVORAZIONE DI:

*Suitable for machining: / Geeignet für:*

- |                          |                              |                         |
|--------------------------|------------------------------|-------------------------|
| • Acciai da costruzione  | • Structural steels          | • Baustähle             |
| • Acciai al carbonio     | • Carbon steels              | • Kohlenstoffstähle     |
| • Leghe di acciaio       | • Steel alloys               | • Stahllegierungen      |
| • Acciai da stampi       | • Mould steels               | • Formstähle            |
| • Acciai duri (HRC20-45) | • Hardened steels (HRC20-45) | • Hartstähle (HRC20-45) |
| • Acciai inossidabili    | • Stainless steels           | • Rostfreie Stähle      |
| • Ghise                  | • Cast irons                 | • Gusseisen             |
| • Leghe di alluminio     | • Aluminium alloys           | • Aluminiumlegierungen  |
| • Leghe non ferrose      | • Non-ferrous alloys         | • NE-Legierungen        |

# PUNTE ELICOIDALI IN HSS-E

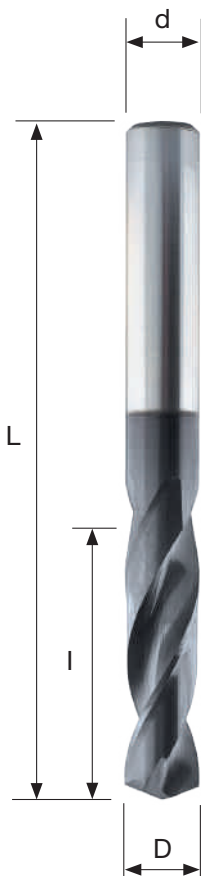
HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T43

- Punta in PREMIUM HSS-E
- Autocentrante
- Affilatura speciale
- Serie normale
- Angolo elica: 30°
- Angolo di punta: 135°
- SUPERIOR HSS-E drills
- Self-centering
- Special grinding
- Normal series
- Helix angle: 30°
- Head angle: 135°
- Spiralbohrer PREMIUM HSS-E
- selbstzentrierend
- Spezialschliff
- normale Ausführung
- Drallwinkel: 30°
- Spitzenwinkel: 135°



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |         | KP60 |
|----------------|--------------------------------|----|----|---------|------|
|                | D<br>h7                        | l  | L  | d<br>h6 |      |
| T43 0100       | 1,00                           | 6  | 38 | 3       | ●    |
| T43 0110       | 1,10                           | 7  | 39 | 3       | ●    |
| T43 0120       | 1,20                           | 8  | 40 | 3       | ●    |
| T43 0130       | 1,30                           | 8  | 40 | 3       | ●    |
| T43 0140       | 1,40                           | 9  | 41 | 3       | ●    |
| T43 0150       | 1,50                           | 9  | 41 | 3       | ●    |
| T43 0160       | 1,60                           | 10 | 42 | 3       | ●    |
| T43 0170       | 1,70                           | 10 | 42 | 3       | ●    |
| T43 0180       | 1,80                           | 11 | 43 | 3       | ●    |
| T43 0190       | 1,90                           | 11 | 43 | 3       | ●    |
| T43 0200       | 2,00                           | 12 | 44 | 3       | ●    |
| T43 0210       | 2,10                           | 12 | 44 | 3       | ●    |
| T43 0220       | 2,20                           | 13 | 45 | 3       | ●    |
| T43 0230       | 2,30                           | 13 | 45 | 3       | ●    |
| T43 0240       | 2,40                           | 14 | 46 | 3       | ●    |
| T43 0250       | 2,50                           | 14 | 46 | 3       | ●    |
| T43 0260       | 2,60                           | 14 | 46 | 3       | ●    |
| T43 0270       | 2,70                           | 16 | 48 | 3       | ●    |
| T43 0280       | 2,80                           | 16 | 48 | 3       | ●    |
| T43 0290       | 2,90                           | 16 | 48 | 3       | ●    |
| T43 0300       | 3,00                           | 16 | 48 | 3       | ●    |
| T43 0310       | 3,10                           | 18 | 50 | 4       | ●    |
| T43 0320       | 3,20                           | 18 | 50 | 4       | ●    |
| T43 0330       | 3,30                           | 18 | 50 | 4       | ●    |
| T43 0340       | 3,40                           | 20 | 52 | 4       | ●    |
| T43 0350       | 3,50                           | 20 | 52 | 4       | ●    |
| T43 0360       | 3,60                           | 20 | 52 | 4       | ●    |
| T43 0370       | 3,70                           | 20 | 52 | 4       | ●    |
| T43 0380       | 3,80                           | 22 | 54 | 4       | ●    |
| T43 0390       | 3,90                           | 22 | 54 | 4       | ●    |
| T43 0400       | 4,00                           | 22 | 54 | 4       | ●    |
| T43 0410       | 4,10                           | 22 | 66 | 6       | ●    |
| T43 0420       | 4,20                           | 22 | 66 | 6       | ●    |
| T43 0430       | 4,30                           | 24 | 68 | 6       | ●    |
| T43 0440       | 4,40                           | 24 | 68 | 6       | ●    |
| T43 0450       | 4,50                           | 24 | 68 | 6       | ●    |
| T43 0460       | 4,60                           | 24 | 68 | 6       | ●    |
| T43 0470       | 4,70                           | 24 | 68 | 6       | ●    |
| T43 0480       | 4,80                           | 26 | 70 | 6       | ●    |
| T43 0490       | 4,90                           | 26 | 70 | 6       | ●    |
| T43 0500       | 5,00                           | 26 | 70 | 6       | ●    |
| T43 0510       | 5,10                           | 26 | 70 | 6       | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |         | KP60 |
|----------------|--------------------------------|----|----|---------|------|
|                | D<br>h7                        | l  | L  | d<br>h6 |      |
| T43 0520       | 5,20                           | 26 | 70 | 6       | ●    |
| T43 0530       | 5,30                           | 26 | 70 | 6       | ●    |
| T43 0540       | 5,40                           | 28 | 72 | 6       | ●    |
| T43 0550       | 5,50                           | 28 | 72 | 6       | ●    |
| T43 0560       | 5,60                           | 28 | 72 | 6       | ●    |
| T43 0570       | 5,70                           | 28 | 72 | 6       | ●    |
| T43 0580       | 5,80                           | 28 | 72 | 6       | ●    |
| T43 0590       | 5,90                           | 28 | 72 | 6       | ●    |
| T43 0600       | 6,00                           | 28 | 72 | 6       | ●    |
| T43 0610       | 6,10                           | 31 | 75 | 8       | ●    |
| T43 0620       | 6,20                           | 31 | 75 | 8       | ●    |
| T43 0630       | 6,30                           | 31 | 75 | 8       | ●    |
| T43 0640       | 6,40                           | 31 | 75 | 8       | ●    |
| T43 0650       | 6,50                           | 31 | 75 | 8       | ●    |
| T43 0660       | 6,60                           | 31 | 75 | 8       | ●    |
| T43 0670       | 6,70                           | 31 | 75 | 8       | ●    |
| T43 0680       | 6,80                           | 34 | 78 | 8       | ●    |
| T43 0690       | 6,90                           | 34 | 78 | 8       | ●    |
| T43 0700       | 7,00                           | 34 | 78 | 8       | ●    |
| T43 0710       | 7,10                           | 34 | 78 | 8       | ●    |
| T43 0720       | 7,20                           | 34 | 78 | 8       | ●    |
| T43 0730       | 7,30                           | 34 | 78 | 8       | ●    |
| T43 0740       | 7,40                           | 34 | 78 | 8       | ●    |
| T43 0750       | 7,50                           | 34 | 78 | 8       | ●    |
| T43 0760       | 7,60                           | 37 | 81 | 8       | ●    |
| T43 0770       | 7,70                           | 37 | 81 | 8       | ●    |
| T43 0780       | 7,80                           | 37 | 81 | 8       | ●    |
| T43 0790       | 7,90                           | 37 | 81 | 8       | ●    |
| T43 0800       | 8,00                           | 37 | 81 | 8       | ●    |
| T43 0810       | 8,10                           | 37 | 87 | 10      | ●    |
| T43 0820       | 8,20                           | 37 | 87 | 10      | ●    |
| T43 0830       | 8,30                           | 37 | 87 | 10      | ●    |
| T43 0840       | 8,40                           | 37 | 87 | 10      | ●    |
| T43 0850       | 8,50                           | 37 | 87 | 10      | ●    |
| T43 0860       | 8,60                           | 40 | 90 | 10      | ●    |
| T43 0870       | 8,70                           | 40 | 90 | 10      | ●    |
| T43 0880       | 8,80                           | 40 | 90 | 10      | ●    |
| T43 0890       | 8,90                           | 40 | 90 | 10      | ●    |
| T43 0900       | 9,00                           | 40 | 90 | 10      | ●    |
| T43 0910       | 9,10                           | 40 | 90 | 10      | ●    |
| T43 0920       | 9,20                           | 40 | 90 | 10      | ●    |
| T43 0930       | 9,30                           | 40 | 90 | 10      | ●    |

CONTINUA CONTINUES WEITER

T43

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER



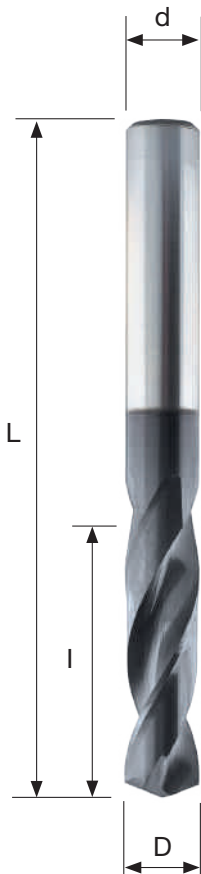
# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T43



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |     |         | KP60 |
|----------------|--------------------------------|----|-----|---------|------|
|                | D<br>h7                        | l  | L   | d<br>h6 |      |
| T43 0940       | 9,40                           | 40 | 90  | 10      | ●    |
| T43 0950       | 9,50                           | 40 | 90  | 10      | ●    |
| T43 0960       | 9,60                           | 43 | 93  | 10      | ●    |
| T43 0970       | 9,70                           | 43 | 93  | 10      | ●    |
| T43 0980       | 9,80                           | 43 | 93  | 10      | ●    |
| T43 0990       | 9,90                           | 43 | 93  | 10      | ●    |
| T43 1000       | 10,00                          | 43 | 93  | 10      | ●    |
| T43 1010       | 10,10                          | 43 | 100 | 12      | ●    |
| T43 1020       | 10,20                          | 43 | 100 | 12      | ●    |
| T43 1030       | 10,30                          | 43 | 100 | 12      | ●    |
| T43 1040       | 10,40                          | 43 | 100 | 12      | ●    |
| T43 1050       | 10,50                          | 43 | 100 | 12      | ●    |
| T43 1060       | 10,60                          | 43 | 100 | 12      | ●    |
| T43 1070       | 10,70                          | 47 | 104 | 12      | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |     |         | KP60 |
|----------------|--------------------------------|----|-----|---------|------|
|                | D<br>h7                        | l  | L   | d<br>h6 |      |
| T43 1080       | 10,80                          | 47 | 104 | 12      | ●    |
| T43 1090       | 10,90                          | 47 | 104 | 12      | ●    |
| T43 1100       | 11,00                          | 47 | 104 | 12      | ●    |
| T43 1110       | 11,10                          | 47 | 104 | 12      | ●    |
| T43 1120       | 11,20                          | 47 | 104 | 12      | ●    |
| T43 1130       | 11,30                          | 47 | 104 | 12      | ●    |
| T43 1140       | 11,40                          | 47 | 104 | 12      | ●    |
| T43 1150       | 11,50                          | 47 | 104 | 12      | ●    |
| T43 1160       | 11,60                          | 47 | 104 | 12      | ●    |
| T43 1170       | 11,70                          | 47 | 104 | 12      | ●    |
| T43 1180       | 11,80                          | 47 | 104 | 12      | ●    |
| T43 1190       | 11,90                          | 51 | 108 | 12      | ●    |
| T43 1200       | 12,00                          | 51 | 108 | 12      | ●    |

T43

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

### ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

T43 1200 KP60

● Disponibile / In stock / vorrätig

○ A richiesta / On request / auf Anfrage

# PUNTE ELICOIDALI IN HSS-E

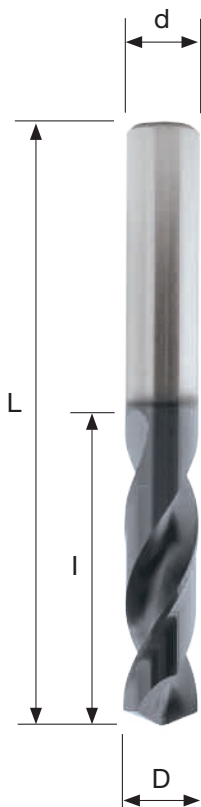
HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T53

- Punta in HSS-E (Co 8%)
- Serie corta
- Angolo elica: 30°
- Angolo di punta: 135°
- DIN 1897
- HSS-E (Co 8%) twist drill
- Short series
- Helix angle: 30°
- Head angle: 135°
- DIN 1897
- Spiralbohrer HSS-E (Co 8%)
- kurze Ausführung
- Drallwinkel: 30°
- Spitzenwinkel: 135°
- DIN 1897



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |      | KP60 |
|----------------|--------------------------------|----|----|------|------|
|                | D<br>h8                        | l  | L  | d    |      |
| T53 0100       | 1,00                           | 6  | 26 | 1,00 | ●    |
| T53 0110       | 1,10                           | 7  | 28 | 1,10 | ●    |
| T53 0120       | 1,20                           | 8  | 30 | 1,20 | ●    |
| T53 0125       | 1,25                           | 8  | 30 | 1,25 | ●    |
| T53 0130       | 1,30                           | 8  | 30 | 1,30 | ●    |
| T53 0140       | 1,40                           | 9  | 32 | 1,40 | ●    |
| T53 0150       | 1,50                           | 9  | 32 | 1,50 | ●    |
| T53 0160       | 1,60                           | 10 | 34 | 1,60 | ●    |
| T53 0170       | 1,70                           | 10 | 34 | 1,70 | ●    |
| T53 0175       | 1,75                           | 11 | 36 | 1,75 | ●    |
| T53 0180       | 1,80                           | 11 | 36 | 1,80 | ●    |
| T53 0190       | 1,90                           | 11 | 36 | 1,90 | ●    |
| T53 0200       | 2,00                           | 12 | 38 | 2,00 | ●    |
| T53 0210       | 2,10                           | 12 | 38 | 2,10 | ●    |
| T53 0220       | 2,20                           | 13 | 40 | 2,20 | ●    |
| T53 0225       | 2,25                           | 13 | 40 | 2,25 | ●    |
| T53 0230       | 2,30                           | 13 | 40 | 2,30 | ●    |
| T53 0240       | 2,40                           | 14 | 43 | 2,40 | ●    |
| T53 0250       | 2,50                           | 14 | 43 | 2,50 | ●    |
| T53 0260       | 2,60                           | 14 | 43 | 2,60 | ●    |
| T53 0270       | 2,70                           | 16 | 46 | 2,70 | ●    |
| T53 0275       | 2,75                           | 16 | 46 | 2,75 | ●    |
| T53 0280       | 2,80                           | 16 | 46 | 2,80 | ●    |
| T53 0290       | 2,90                           | 16 | 46 | 2,90 | ●    |
| T53 0300       | 3,00                           | 16 | 46 | 3,00 | ●    |
| T53 0310       | 3,10                           | 18 | 49 | 3,10 | ●    |
| T53 0320       | 3,20                           | 18 | 49 | 3,20 | ●    |
| T53 0325       | 3,25                           | 18 | 49 | 3,25 | ●    |
| T53 0330       | 3,30                           | 18 | 49 | 3,30 | ●    |
| T53 0340       | 3,40                           | 20 | 52 | 3,40 | ●    |
| T53 0350       | 3,50                           | 20 | 52 | 3,50 | ●    |
| T53 0360       | 3,60                           | 20 | 52 | 3,60 | ●    |
| T53 0370       | 3,70                           | 20 | 52 | 3,70 | ●    |
| T53 0375       | 3,75                           | 20 | 52 | 3,75 | ●    |
| T53 0380       | 3,80                           | 22 | 55 | 3,80 | ●    |
| T53 0390       | 3,90                           | 22 | 55 | 3,90 | ●    |
| T53 0400       | 4,00                           | 22 | 55 | 4,00 | ●    |
| T53 0410       | 4,10                           | 22 | 55 | 4,10 | ●    |
| T53 0420       | 4,20                           | 22 | 55 | 4,20 | ●    |
| T53 0425       | 4,25                           | 22 | 55 | 4,25 | ●    |
| T53 0430       | 4,30                           | 24 | 58 | 4,30 | ●    |
| T53 0440       | 4,40                           | 24 | 58 | 4,40 | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |      | KP60 |
|----------------|--------------------------------|----|----|------|------|
|                | D<br>h8                        | l  | L  | d    |      |
| T53 0450       | 4,50                           | 24 | 58 | 4,50 | ●    |
| T53 0460       | 4,60                           | 24 | 58 | 4,60 | ●    |
| T53 0470       | 4,70                           | 24 | 58 | 4,70 | ●    |
| T53 0475       | 4,75                           | 24 | 58 | 4,75 | ●    |
| T53 0480       | 4,80                           | 26 | 62 | 4,80 | ●    |
| T53 0490       | 4,90                           | 26 | 62 | 4,90 | ●    |
| T53 0500       | 5,00                           | 26 | 62 | 5,00 | ●    |
| T53 0510       | 5,10                           | 26 | 62 | 5,10 | ●    |
| T53 0520       | 5,20                           | 26 | 62 | 5,20 | ●    |
| T53 0525       | 5,25                           | 26 | 62 | 5,25 | ●    |
| T53 0530       | 5,30                           | 26 | 62 | 5,30 | ●    |
| T53 0540       | 5,40                           | 28 | 66 | 5,40 | ●    |
| T53 0550       | 5,50                           | 28 | 66 | 5,50 | ●    |
| T53 0560       | 5,60                           | 28 | 66 | 5,60 | ●    |
| T53 0570       | 5,70                           | 28 | 66 | 5,70 | ●    |
| T53 0575       | 5,75                           | 28 | 66 | 5,75 | ●    |
| T53 0580       | 5,80                           | 28 | 66 | 5,80 | ●    |
| T53 0590       | 5,90                           | 28 | 66 | 5,90 | ●    |
| T53 0600       | 6,00                           | 28 | 66 | 6,00 | ●    |
| T53 0610       | 6,10                           | 31 | 70 | 6,10 | ●    |
| T53 0620       | 6,20                           | 31 | 70 | 6,20 | ●    |
| T53 0625       | 6,25                           | 31 | 70 | 6,25 | ●    |
| T53 0630       | 6,30                           | 31 | 70 | 6,30 | ●    |
| T53 0640       | 6,40                           | 31 | 70 | 6,40 | ●    |
| T53 0650       | 6,50                           | 31 | 70 | 6,50 | ●    |
| T53 0660       | 6,60                           | 31 | 70 | 6,60 | ●    |
| T53 0670       | 6,70                           | 31 | 70 | 6,70 | ●    |
| T53 0675       | 6,75                           | 34 | 74 | 6,75 | ●    |
| T53 0680       | 6,80                           | 34 | 74 | 6,80 | ●    |
| T53 0690       | 6,90                           | 34 | 74 | 6,90 | ●    |
| T53 0700       | 7,00                           | 34 | 74 | 7,00 | ●    |
| T53 0710       | 7,10                           | 34 | 74 | 7,10 | ●    |
| T53 0720       | 7,20                           | 34 | 74 | 7,20 | ●    |
| T53 0725       | 7,25                           | 34 | 74 | 7,25 | ●    |
| T53 0730       | 7,30                           | 34 | 74 | 7,30 | ●    |
| T53 0740       | 7,40                           | 34 | 74 | 7,40 | ●    |
| T53 0750       | 7,50                           | 34 | 74 | 7,50 | ●    |
| T53 0760       | 7,60                           | 37 | 79 | 7,60 | ●    |
| T53 0770       | 7,70                           | 37 | 79 | 7,70 | ●    |
| T53 0775       | 7,75                           | 37 | 79 | 7,75 | ●    |
| T53 0780       | 7,80                           | 37 | 79 | 7,80 | ●    |
| T53 0790       | 7,90                           | 37 | 79 | 7,90 | ●    |

CONTINUA CONTINUES WEITER

T53

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER



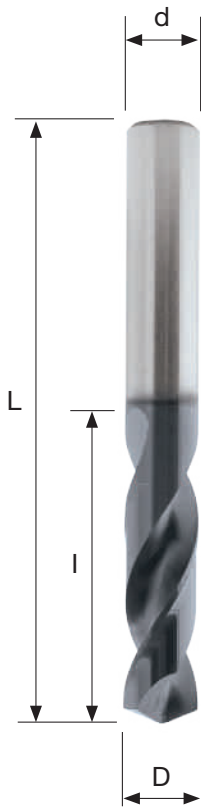
# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T53



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |       | KP60 |
|----------------|--------------------------------|----|----|-------|------|
|                | D<br>h8                        | l  | L  | d     |      |
| T53 0800       | 8,00                           | 37 | 79 | 8,00  | ●    |
| T53 0810       | 8,10                           | 37 | 79 | 8,10  | ●    |
| T53 0820       | 8,20                           | 37 | 79 | 8,20  | ●    |
| T53 0825       | 8,25                           | 37 | 79 | 8,25  | ●    |
| T53 0830       | 8,30                           | 37 | 79 | 8,30  | ●    |
| T53 0840       | 8,40                           | 37 | 79 | 8,40  | ●    |
| T53 0850       | 8,50                           | 37 | 79 | 8,50  | ●    |
| T53 0860       | 8,60                           | 40 | 84 | 8,60  | ●    |
| T53 0870       | 8,70                           | 40 | 84 | 8,70  | ●    |
| T53 0875       | 8,75                           | 40 | 84 | 8,75  | ●    |
| T53 0880       | 8,80                           | 40 | 84 | 8,80  | ●    |
| T53 0890       | 8,90                           | 40 | 84 | 8,90  | ●    |
| T53 0900       | 9,00                           | 40 | 84 | 9,00  | ●    |
| T53 0910       | 9,10                           | 40 | 84 | 9,10  | ●    |
| T53 0920       | 9,20                           | 40 | 84 | 9,20  | ●    |
| T53 0925       | 9,25                           | 40 | 84 | 9,25  | ●    |
| T53 0930       | 9,30                           | 40 | 84 | 9,30  | ●    |
| T53 0940       | 9,40                           | 40 | 84 | 9,40  | ●    |
| T53 0950       | 9,50                           | 40 | 84 | 9,50  | ●    |
| T53 0960       | 9,60                           | 43 | 89 | 9,60  | ●    |
| T53 0970       | 9,70                           | 43 | 89 | 9,70  | ●    |
| T53 0975       | 9,75                           | 43 | 89 | 9,75  | ●    |
| T53 0980       | 9,80                           | 43 | 89 | 9,80  | ●    |
| T53 0990       | 9,90                           | 43 | 89 | 9,90  | ●    |
| T53 1000       | 10,00                          | 43 | 89 | 10,00 | ●    |
| T53 1020       | 10,20                          | 43 | 89 | 10,20 | ●    |
| T53 1025       | 10,25                          | 43 | 89 | 10,25 | ●    |
| T53 1030       | 10,30                          | 43 | 89 | 10,30 | ●    |
| T53 1050       | 10,50                          | 43 | 89 | 10,50 | ●    |
| T53 1060       | 10,60                          | 47 | 95 | 10,60 | ●    |
| T53 1070       | 10,70                          | 47 | 95 | 10,70 | ●    |
| T53 1075       | 10,75                          | 47 | 95 | 10,75 | ●    |
| T53 1080       | 10,80                          | 47 | 95 | 10,80 | ●    |
| T53 1100       | 11,00                          | 47 | 95 | 11,00 | ●    |
| T53 1120       | 11,20                          | 47 | 95 | 11,20 | ●    |
| T53 1125       | 11,25                          | 47 | 95 | 11,25 | ●    |
| T53 1130       | 11,30                          | 47 | 95 | 11,30 | ●    |
| T53 1140       | 11,40                          | 47 | 95 | 11,40 | ●    |
| T53 1150       | 11,50                          | 47 | 95 | 11,50 | ●    |
| T53 1170       | 11,70                          | 47 | 95 | 11,70 | ●    |
| T53 1175       | 11,75                          | 47 | 95 | 11,75 | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |     |       | KP60 |
|----------------|--------------------------------|----|-----|-------|------|
|                | D<br>h8                        | l  | L   | d     |      |
| T53 1180       | 11,80                          | 47 | 95  | 11,80 | ●    |
| T53 1200       | 12,00                          | 51 | 102 | 12,00 | ●    |
| T53 1220       | 12,20                          | 51 | 102 | 12,20 | ●    |
| T53 1225       | 12,25                          | 51 | 102 | 12,25 | ●    |
| T53 1230       | 12,30                          | 51 | 102 | 12,30 | ●    |
| T53 1240       | 12,40                          | 51 | 102 | 12,40 | ●    |
| T53 1250       | 12,50                          | 51 | 102 | 12,50 | ●    |
| T53 1260       | 12,60                          | 51 | 102 | 12,60 | ●    |
| T53 1270       | 12,70                          | 51 | 102 | 12,70 | ●    |
| T53 1275       | 12,75                          | 51 | 102 | 12,75 | ●    |
| T53 1280       | 12,80                          | 51 | 102 | 12,80 | ●    |
| T53 1300       | 13,00                          | 51 | 102 | 13,00 | ●    |
| T53 1325       | 13,25                          | 54 | 107 | 13,25 | ●    |
| T53 1350       | 13,50                          | 54 | 107 | 13,50 | ●    |
| T53 1375       | 13,75                          | 54 | 107 | 13,75 | ●    |
| T53 1400       | 14,00                          | 54 | 107 | 14,00 | ●    |
| T53 1425       | 14,25                          | 56 | 111 | 14,25 | ●    |
| T53 1450       | 14,50                          | 56 | 111 | 14,50 | ●    |
| T53 1475       | 14,75                          | 56 | 111 | 14,75 | ●    |
| T53 1500       | 15,00                          | 56 | 111 | 15,00 | ●    |
| T53 1525       | 15,25                          | 58 | 115 | 15,25 | ●    |
| T53 1550       | 15,50                          | 58 | 115 | 15,50 | ●    |
| T53 1575       | 15,75                          | 58 | 115 | 15,75 | ●    |
| T53 1600       | 16,00                          | 58 | 115 | 16,00 | ●    |
| T53 1625       | 16,25                          | 60 | 119 | 16,25 | ●    |
| T53 1650       | 16,50                          | 60 | 119 | 16,50 | ●    |
| T53 1675       | 16,75                          | 60 | 119 | 16,75 | ●    |
| T53 1700       | 17,00                          | 60 | 119 | 17,00 | ●    |
| T53 1725       | 17,25                          | 62 | 123 | 17,25 | ●    |
| T53 1750       | 17,50                          | 62 | 123 | 17,50 | ●    |
| T53 1775       | 17,75                          | 62 | 123 | 17,75 | ●    |
| T53 1800       | 18,00                          | 62 | 123 | 18,00 | ●    |
| T53 1825       | 18,25                          | 64 | 127 | 18,25 | ●    |
| T53 1850       | 18,50                          | 64 | 127 | 18,50 | ●    |
| T53 1875       | 18,75                          | 64 | 127 | 18,75 | ●    |
| T53 1900       | 19,00                          | 64 | 127 | 19,00 | ●    |
| T53 1925       | 19,25                          | 66 | 131 | 19,25 | ●    |
| T53 1950       | 19,50                          | 66 | 131 | 19,50 | ●    |
| T53 1975       | 19,75                          | 66 | 131 | 19,75 | ●    |
| T53 2000       | 20,00                          | 66 | 131 | 20,00 | ●    |

### ESEMPIO DI ORDINE:

Order example:  
Beispiel für einen Auftrag:

T53 2000 KP20

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

T53

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T54

Punte elicoidali adatte alla foratura di acciaio inossidabile e materiali di difficile lavorabilità come inconel e titanio.

- Punta in HSS-E (Co 8%)
- **Serie normale**
- Angolo elica: 33°
- Angolo di punta: 135°
- DIN 338

Twist drills suitable for drilling in stainless steel and difficult to machine materials such as titanium and inconel.

- HSS-E (Co 8%) Twist drill
- **Normal series**
- Helix angle: 33°
- Head angle: 135°
- DIN 338

Spiralbohrer; geeignet zum Bohren von rostfreiem Stahl und schwer bearbeitbaren Materialien wie Inconel und Titan.

- HSS-E (Co 8%)
- **normale Ausführung**
- Drallwinkel: 33°
- Spitzenwinkel: 135°
- DIN 338



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |    |     | KP60 |
|----------------|--------------------------------|----|----|-----|------|
|                | D<br>h8                        | l  | L  | d   |      |
| T54 0100       | 1,0                            | 12 | 34 | 1,0 | ●    |
| T54 0110       | 1,1                            | 14 | 36 | 1,1 | ●    |
| T54 0120       | 1,2                            | 16 | 38 | 1,2 | ●    |
| T54 0130       | 1,3                            | 16 | 38 | 1,3 | ●    |
| T54 0140       | 1,4                            | 18 | 40 | 1,4 | ●    |
| T54 0150       | 1,5                            | 18 | 40 | 1,5 | ●    |
| T54 0160       | 1,6                            | 20 | 43 | 1,6 | ●    |
| T54 0170       | 1,7                            | 20 | 43 | 1,7 | ●    |
| T54 0180       | 1,8                            | 22 | 46 | 1,8 | ●    |
| T54 0190       | 1,9                            | 22 | 46 | 1,9 | ●    |
| T54 0200       | 2,0                            | 24 | 49 | 2,0 | ●    |
| T54 0210       | 2,1                            | 24 | 49 | 2,1 | ●    |
| T54 0220       | 2,2                            | 27 | 53 | 2,2 | ●    |
| T54 0230       | 2,3                            | 27 | 53 | 2,3 | ●    |
| T54 0240       | 2,4                            | 30 | 57 | 2,4 | ●    |
| T54 0250       | 2,5                            | 30 | 57 | 2,5 | ●    |
| T54 0260       | 2,6                            | 30 | 57 | 2,6 | ●    |
| T54 0270       | 2,7                            | 33 | 61 | 2,7 | ●    |
| T54 0280       | 2,8                            | 33 | 61 | 2,8 | ●    |
| T54 0290       | 2,9                            | 33 | 61 | 2,9 | ●    |
| T54 0300       | 3,0                            | 33 | 61 | 3,0 | ●    |
| T54 0310       | 3,1                            | 36 | 65 | 3,1 | ●    |
| T54 0320       | 3,2                            | 36 | 65 | 3,2 | ●    |
| T54 0330       | 3,3                            | 36 | 65 | 3,3 | ●    |
| T54 0340       | 3,4                            | 39 | 70 | 3,4 | ●    |
| T54 0350       | 3,5                            | 39 | 70 | 3,5 | ●    |
| T54 0360       | 3,6                            | 39 | 70 | 3,6 | ●    |
| T54 0370       | 3,7                            | 39 | 70 | 3,7 | ●    |
| T54 0380       | 3,8                            | 43 | 75 | 3,8 | ●    |
| T54 0390       | 3,9                            | 43 | 75 | 3,9 | ●    |
| T54 0400       | 4,0                            | 43 | 75 | 4,0 | ●    |
| T54 0410       | 4,1                            | 43 | 75 | 4,1 | ●    |
| T54 0420       | 4,2                            | 43 | 75 | 4,2 | ●    |
| T54 0430       | 4,3                            | 47 | 80 | 4,3 | ●    |
| T54 0440       | 4,4                            | 47 | 80 | 4,4 | ●    |
| T54 0450       | 4,5                            | 47 | 80 | 4,5 | ●    |
| T54 0460       | 4,6                            | 47 | 80 | 4,6 | ●    |
| T54 0470       | 4,7                            | 47 | 80 | 4,7 | ●    |
| T54 0480       | 4,8                            | 52 | 86 | 4,8 | ●    |
| T54 0490       | 4,9                            | 52 | 86 | 4,9 | ●    |
| T54 0500       | 5,0                            | 52 | 86 | 5,0 | ●    |
| T54 0510       | 5,1                            | 52 | 86 | 5,1 | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |     |     | KP60 |
|----------------|--------------------------------|----|-----|-----|------|
|                | D<br>h8                        | l  | L   | d   |      |
| T54 0520       | 5,2                            | 52 | 86  | 5,2 | ●    |
| T54 0530       | 5,3                            | 52 | 86  | 5,3 | ●    |
| T54 0540       | 5,4                            | 57 | 93  | 5,4 | ●    |
| T54 0550       | 5,5                            | 57 | 93  | 5,5 | ●    |
| T54 0560       | 5,6                            | 57 | 93  | 5,6 | ●    |
| T54 0570       | 5,7                            | 57 | 93  | 5,7 | ●    |
| T54 0580       | 5,8                            | 57 | 93  | 5,8 | ●    |
| T54 0590       | 5,9                            | 57 | 93  | 5,9 | ●    |
| T54 0600       | 6,0                            | 57 | 93  | 6,0 | ●    |
| T54 0610       | 6,1                            | 63 | 101 | 6,1 | ●    |
| T54 0620       | 6,2                            | 63 | 101 | 6,2 | ●    |
| T54 0630       | 6,3                            | 63 | 101 | 6,3 | ●    |
| T54 0640       | 6,4                            | 63 | 101 | 6,4 | ●    |
| T54 0650       | 6,5                            | 63 | 101 | 6,5 | ●    |
| T54 0660       | 6,6                            | 63 | 101 | 6,6 | ●    |
| T54 0670       | 6,7                            | 63 | 101 | 6,7 | ●    |
| T54 0680       | 6,8                            | 69 | 109 | 6,8 | ●    |
| T54 0690       | 6,9                            | 69 | 109 | 6,9 | ●    |
| T54 0700       | 7,0                            | 69 | 109 | 7,0 | ●    |
| T54 0710       | 7,1                            | 69 | 109 | 7,1 | ●    |
| T54 0720       | 7,2                            | 69 | 109 | 7,2 | ●    |
| T54 0730       | 7,3                            | 69 | 109 | 7,3 | ●    |
| T54 0740       | 7,4                            | 69 | 109 | 7,4 | ●    |
| T54 0750       | 7,5                            | 69 | 109 | 7,5 | ●    |
| T54 0760       | 7,6                            | 75 | 117 | 7,6 | ●    |
| T54 0770       | 7,7                            | 75 | 117 | 7,7 | ●    |
| T54 0780       | 7,8                            | 75 | 117 | 7,8 | ●    |
| T54 0790       | 7,9                            | 75 | 117 | 7,9 | ●    |
| T54 0800       | 8,0                            | 75 | 117 | 8,0 | ●    |
| T54 0810       | 8,1                            | 75 | 117 | 8,1 | ●    |
| T54 0820       | 8,2                            | 75 | 117 | 8,2 | ●    |
| T54 0830       | 8,3                            | 75 | 117 | 8,3 | ●    |
| T54 0840       | 8,4                            | 75 | 117 | 8,4 | ●    |
| T54 0850       | 8,5                            | 75 | 117 | 8,5 | ●    |
| T54 0860       | 8,6                            | 81 | 125 | 8,6 | ●    |
| T54 0870       | 8,7                            | 81 | 125 | 8,7 | ●    |
| T54 0880       | 8,8                            | 81 | 125 | 8,8 | ●    |
| T54 0890       | 8,9                            | 81 | 125 | 8,9 | ●    |
| T54 0900       | 9,0                            | 81 | 125 | 9,0 | ●    |
| T54 0910       | 9,1                            | 81 | 125 | 9,1 | ●    |
| T54 0920       | 9,2                            | 81 | 125 | 9,2 | ●    |
| T54 0930       | 9,3                            | 81 | 125 | 9,3 | ●    |

CONTINUA CONTINUES WEITER ►

# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T54



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |      | KP60 |
|----------------|--------------------------------|-----|-----|------|------|
|                | D<br>h8                        | l   | L   | d    |      |
| T54 0940       | 9,4                            | 81  | 125 | 9,4  | ●    |
| T54 0950       | 9,5                            | 81  | 125 | 9,5  | ●    |
| T54 0960       | 9,6                            | 87  | 133 | 9,6  | ●    |
| T54 0970       | 9,7                            | 87  | 133 | 9,7  | ●    |
| T54 0980       | 9,8                            | 87  | 133 | 9,8  | ●    |
| T54 0990       | 9,9                            | 87  | 133 | 9,9  | ●    |
| T54 1000       | 10,0                           | 87  | 133 | 10,0 | ●    |
| T54 1020       | 10,2                           | 87  | 133 | 10,2 | ●    |
| T54 1030       | 10,3                           | 87  | 133 | 10,3 | ●    |
| T54 1040       | 10,4                           | 87  | 133 | 10,4 | ●    |
| T54 1050       | 10,5                           | 87  | 133 | 10,5 | ●    |
| T54 1060       | 10,6                           | 94  | 142 | 10,6 | ●    |
| T54 1070       | 10,7                           | 94  | 142 | 10,7 | ●    |
| T54 1080       | 10,8                           | 94  | 142 | 10,8 | ●    |
| T54 1100       | 11,0                           | 94  | 142 | 11,0 | ●    |
| T54 1120       | 11,2                           | 94  | 142 | 11,2 | ●    |
| T54 1130       | 11,3                           | 94  | 142 | 11,3 | ●    |
| T54 1140       | 11,4                           | 94  | 142 | 11,4 | ●    |
| T54 1150       | 11,5                           | 94  | 142 | 11,5 | ●    |
| T54 1160       | 11,6                           | 101 | 151 | 11,6 | ●    |
| T54 1170       | 11,7                           | 101 | 151 | 11,7 | ●    |
| T54 1180       | 11,8                           | 101 | 151 | 11,8 | ●    |
| T54 1200       | 12,0                           | 101 | 151 | 12,0 | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |      | KP60 |
|----------------|--------------------------------|-----|-----|------|------|
|                | D<br>h8                        | l   | L   | d    |      |
| T54 1220       | 12,2                           | 101 | 151 | 12,2 | ●    |
| T54 1230       | 12,3                           | 101 | 151 | 12,3 | ●    |
| T54 1240       | 12,4                           | 101 | 151 | 12,4 | ●    |
| T54 1250       | 12,5                           | 101 | 151 | 12,5 | ●    |
| T54 1260       | 12,6                           | 101 | 151 | 12,6 | ●    |
| T54 1270       | 12,7                           | 101 | 151 | 12,7 | ●    |
| T54 1280       | 12,8                           | 101 | 151 | 12,8 | ●    |
| T54 1300       | 13,0                           | 101 | 151 | 13,0 | ●    |
| T54 1350       | 13,5                           | 108 | 160 | 13,5 | ●    |
| T54 1400       | 14,0                           | 108 | 160 | 14,0 | ●    |
| T54 1450       | 14,5                           | 114 | 169 | 14,5 | ●    |
| T54 1500       | 15,0                           | 114 | 169 | 15,0 | ●    |
| T54 1550       | 15,5                           | 120 | 178 | 15,5 | ●    |
| T54 1600       | 16,0                           | 120 | 178 | 16,0 | ●    |
| T54 1650       | 16,5                           | 125 | 184 | 16,5 | ●    |
| T54 1700       | 17,0                           | 125 | 184 | 17,0 | ●    |
| T54 1750       | 17,5                           | 130 | 191 | 17,5 | ●    |
| T54 1800       | 18,0                           | 130 | 191 | 18,0 | ●    |
| T54 1850       | 18,5                           | 135 | 198 | 18,5 | ●    |
| T54 1900       | 19,0                           | 135 | 198 | 19,0 | ●    |
| T54 1950       | 19,5                           | 140 | 205 | 19,5 | ●    |
| T54 2000       | 20,0                           | 140 | 205 | 20,0 | ●    |

### ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

T54 1200 KP20

● Disponibile / In stock / vorrätig

○ A richiesta / On request / auf Anfrage

T54

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T55

Punte elicoidali adatte alla foratura di acciaio inossidabile e materiali di difficile lavorabilità come inconel e titanio.

- Punta in HSS-E (Co 8%)
- Serie extra lunga
- Angolo elica: 33°
- Angolo di punta: 135°
- DIN 340

Twist drills suitable for drilling in stainless steel and difficult to machine materials such as titanium and inconel.

- HSS-E (Co 8%) Twist drill
- Extra long series
- Helix angle: 33°
- Head angle: 135°
- DIN 340

Spiralbohrer; geeignet zum Bohren von rostfreiem Stahl und schwer bearbeitbaren Materialien wie Inconel und Titan.

- HSS-E (Co 8%)
- extra lange Ausführung
- Drallwinkel: 33°
- Spitzenwinkel: 135°
- DIN 340



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |    |     |     | KP60 |
|----------------|--------------------------------|----|-----|-----|------|
|                | D<br>h8                        | l  | L   | d   |      |
| T55 0200       | 2,0                            | 56 | 85  | 2,0 | ●    |
| T55 0210       | 2,1                            | 56 | 85  | 2,1 | ●    |
| T55 0220       | 2,2                            | 59 | 90  | 2,2 | ●    |
| T55 0230       | 2,3                            | 59 | 90  | 2,3 | ●    |
| T55 0240       | 2,4                            | 62 | 95  | 2,4 | ●    |
| T55 0250       | 2,5                            | 62 | 95  | 2,5 | ●    |
| T55 0260       | 2,6                            | 62 | 95  | 2,6 | ●    |
| T55 0270       | 2,7                            | 66 | 100 | 2,7 | ●    |
| T55 0280       | 2,8                            | 66 | 100 | 2,8 | ●    |
| T55 0290       | 2,9                            | 66 | 100 | 2,9 | ●    |
| T55 0300       | 3,0                            | 66 | 100 | 3,0 | ●    |
| T55 0310       | 3,1                            | 69 | 106 | 3,1 | ●    |
| T55 0320       | 3,2                            | 69 | 106 | 3,2 | ●    |
| T55 0330       | 3,3                            | 69 | 106 | 3,3 | ●    |
| T55 0340       | 3,4                            | 73 | 112 | 3,4 | ●    |
| T55 0350       | 3,5                            | 73 | 112 | 3,5 | ●    |
| T55 0360       | 3,6                            | 73 | 112 | 3,6 | ●    |
| T55 0370       | 3,7                            | 73 | 112 | 3,7 | ●    |
| T55 0380       | 3,8                            | 78 | 119 | 3,8 | ●    |
| T55 0400       | 4,0                            | 78 | 119 | 4,0 | ●    |
| T55 0410       | 4,1                            | 78 | 119 | 4,1 | ●    |
| T55 0420       | 4,2                            | 78 | 119 | 4,2 | ●    |
| T55 0430       | 4,3                            | 82 | 126 | 4,3 | ●    |
| T55 0440       | 4,4                            | 82 | 126 | 4,4 | ●    |
| T55 0450       | 4,5                            | 82 | 126 | 4,5 | ●    |
| T55 0460       | 4,6                            | 82 | 126 | 4,6 | ●    |
| T55 0470       | 4,7                            | 82 | 126 | 4,7 | ●    |
| T55 0480       | 4,8                            | 87 | 132 | 4,8 | ●    |
| T55 0490       | 4,9                            | 87 | 132 | 4,9 | ●    |
| T55 0500       | 5,0                            | 87 | 132 | 5,0 | ●    |
| T55 0510       | 5,1                            | 87 | 132 | 5,1 | ●    |
| T55 0520       | 5,2                            | 87 | 132 | 5,2 | ●    |
| T55 0530       | 5,3                            | 87 | 132 | 5,3 | ●    |
| T55 0540       | 5,4                            | 91 | 139 | 5,4 | ●    |
| T55 0550       | 5,5                            | 91 | 139 | 5,5 | ●    |
| T55 0560       | 5,6                            | 91 | 139 | 5,6 | ●    |
| T55 0570       | 5,7                            | 91 | 139 | 5,7 | ●    |
| T55 0590       | 5,9                            | 91 | 139 | 5,9 | ●    |
| T55 0600       | 6,0                            | 91 | 139 | 6,0 | ●    |
| T55 0610       | 6,1                            | 97 | 148 | 6,1 | ●    |
| T55 0620       | 6,2                            | 97 | 148 | 6,2 | ●    |
| T55 0630       | 6,3                            | 97 | 148 | 6,3 | ●    |
| T55 0640       | 6,4                            | 97 | 148 | 6,4 | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |      | KP60 |
|----------------|--------------------------------|-----|-----|------|------|
|                | D<br>h8                        | l   | L   | d    |      |
| T55 0650       | 6,5                            | 97  | 148 | 6,5  | ●    |
| T55 0660       | 6,6                            | 97  | 148 | 6,6  | ●    |
| T55 0670       | 6,7                            | 97  | 148 | 6,7  | ●    |
| T55 0680       | 6,8                            | 102 | 156 | 6,8  | ●    |
| T55 0690       | 6,9                            | 102 | 156 | 6,9  | ●    |
| T55 0700       | 7,0                            | 102 | 156 | 7,0  | ●    |
| T55 0710       | 7,1                            | 102 | 156 | 7,1  | ●    |
| T55 0720       | 7,2                            | 102 | 156 | 7,2  | ●    |
| T55 0730       | 7,3                            | 102 | 156 | 7,3  | ●    |
| T55 0740       | 7,4                            | 102 | 156 | 7,4  | ●    |
| T55 0750       | 7,5                            | 102 | 156 | 7,5  | ●    |
| T55 0760       | 7,6                            | 109 | 165 | 7,6  | ●    |
| T55 0770       | 7,7                            | 109 | 165 | 7,7  | ●    |
| T55 0790       | 7,9                            | 109 | 165 | 7,9  | ●    |
| T55 0800       | 8,0                            | 109 | 165 | 8,0  | ●    |
| T55 0810       | 8,1                            | 109 | 165 | 8,1  | ●    |
| T55 0820       | 8,2                            | 109 | 165 | 8,2  | ●    |
| T55 0830       | 8,3                            | 109 | 165 | 8,3  | ●    |
| T55 0840       | 8,4                            | 109 | 165 | 8,4  | ●    |
| T55 0850       | 8,5                            | 109 | 165 | 8,5  | ●    |
| T55 0860       | 8,6                            | 115 | 175 | 8,6  | ●    |
| T55 0870       | 8,7                            | 115 | 175 | 8,7  | ●    |
| T55 0880       | 8,8                            | 115 | 175 | 8,8  | ●    |
| T55 0890       | 8,9                            | 115 | 175 | 8,9  | ●    |
| T55 0900       | 9,0                            | 115 | 175 | 9,0  | ●    |
| T55 0910       | 9,1                            | 115 | 175 | 9,1  | ●    |
| T55 0920       | 9,2                            | 115 | 175 | 9,2  | ●    |
| T55 0930       | 9,3                            | 115 | 175 | 9,3  | ●    |
| T55 0940       | 9,4                            | 115 | 175 | 9,4  | ●    |
| T55 0950       | 9,5                            | 115 | 175 | 9,5  | ●    |
| T55 0960       | 9,6                            | 121 | 184 | 9,6  | ●    |
| T55 0970       | 9,7                            | 121 | 184 | 9,7  | ●    |
| T55 0980       | 9,8                            | 121 | 184 | 9,8  | ●    |
| T55 0990       | 9,9                            | 121 | 184 | 9,9  | ●    |
| T55 1000       | 10,0                           | 121 | 184 | 10,0 | ●    |
| T55 1020       | 10,2                           | 121 | 184 | 10,2 | ●    |
| T55 1050       | 10,5                           | 121 | 184 | 10,5 | ●    |
| T55 1080       | 10,8                           | 128 | 195 | 10,8 | ●    |
| T55 1100       | 11,0                           | 128 | 195 | 11,0 | ●    |
| T55 1120       | 11,2                           | 128 | 195 | 11,2 | ●    |
| T55 1150       | 11,5                           | 128 | 195 | 11,5 | ●    |
| T55 1200       | 12,0                           | 134 | 205 | 12,0 | ●    |

EXAMPLE  
OF ORDER:

T55 1200 KP20

# PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



## T70

Punte elicoidali adatte alla foratura di acciaio legato, acciaio non legato, ghisa grigia, ghisa malleabile, grafite.

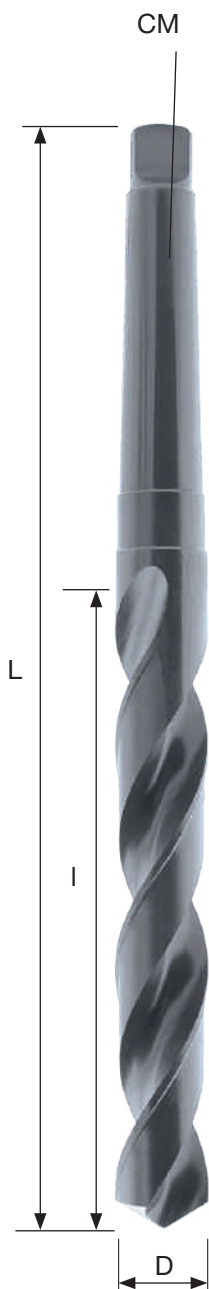
- Punta in HSS
- Serie normale
- Angolo elica: 20° ~ 30°
- Angolo di punta: 118°
- DIN 345

Twist drills suitable for drilling in alloy steel, unalloyed steel, gray cast iron, malleable cast iron, graphite.

- HSS twist drill
- Normal series
- Helix angle: 20° ~ 30°
- Head angle: 118°
- DIN 345

HSS-Spiralbohrer; geeignet zum Bohren von legiertem Stahl, unlegiertem Stahl, Grauguss, Temperguss, Graphit.

- normale Ausführung
- Drallwinkel: 20° ~ 30°
- Spitzenwinkel: 118°
- DIN 345



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |    | HSS |
|----------------|--------------------------------|-----|-----|----|-----|
|                | D                              | l   | L   | CM |     |
| T70 1300       | 13,0                           | 101 | 182 | 1  | ●   |
| T70 1350       | 13,5                           | 108 | 189 | 1  | ●   |
| T70 1400       | 14,0                           | 108 | 189 | 1  | ●   |
| T70 1450       | 14,5                           | 114 | 212 | 2  | ●   |
| T70 1500       | 15,0                           | 114 | 212 | 2  | ●   |
| T70 1550       | 15,5                           | 120 | 218 | 2  | ●   |
| T70 1600       | 16,0                           | 120 | 218 | 2  | ●   |
| T70 1650       | 16,5                           | 125 | 223 | 2  | ●   |
| T70 1700       | 17,0                           | 125 | 223 | 2  | ●   |
| T70 1750       | 17,5                           | 130 | 228 | 2  | ●   |
| T70 1800       | 18,0                           | 130 | 228 | 2  | ●   |
| T70 1850       | 18,5                           | 135 | 233 | 2  | ●   |
| T70 1900       | 19,0                           | 135 | 233 | 2  | ●   |
| T70 1950       | 19,5                           | 140 | 238 | 2  | ●   |
| T70 2000       | 20,0                           | 140 | 238 | 2  | ●   |
| T70 2050       | 20,5                           | 145 | 243 | 2  | ●   |
| T70 2100       | 21,0                           | 145 | 243 | 2  | ●   |
| T70 2150       | 21,5                           | 150 | 248 | 2  | ●   |
| T70 2200       | 22,0                           | 150 | 248 | 2  | ●   |
| T70 2250       | 22,5                           | 155 | 253 | 2  | ●   |
| T70 2300       | 23,0                           | 155 | 253 | 2  | ●   |
| T70 2350       | 23,5                           | 155 | 276 | 3  | ●   |
| T70 2400       | 24,0                           | 160 | 281 | 3  | ●   |
| T70 2450       | 24,5                           | 160 | 281 | 3  | ●   |
| T70 2500       | 25,0                           | 160 | 281 | 3  | ●   |
| T70 2550       | 25,5                           | 165 | 286 | 3  | ●   |
| T70 2600       | 26,0                           | 165 | 286 | 3  | ●   |
| T70 2650       | 26,5                           | 165 | 286 | 3  | ●   |
| T70 2700       | 27,0                           | 170 | 291 | 3  | ●   |
| T70 2750       | 27,5                           | 170 | 291 | 3  | ●   |
| T70 2800       | 28,0                           | 170 | 291 | 3  | ●   |
| T70 2850       | 28,5                           | 175 | 296 | 3  | ●   |
| T70 2900       | 29,0                           | 175 | 296 | 3  | ●   |
| T70 2950       | 29,5                           | 175 | 296 | 3  | ●   |
| T70 3000       | 30,0                           | 175 | 296 | 3  | ●   |
| T70 3050       | 30,5                           | 180 | 301 | 3  | ●   |
| T70 3100       | 31,0                           | 180 | 301 | 3  | ●   |
| T70 3150       | 31,5                           | 180 | 301 | 3  | ●   |
| T70 3200       | 32,0                           | 185 | 334 | 4  | ●   |
| T70 3250       | 32,5                           | 185 | 334 | 4  | ●   |
| T70 3300       | 33,0                           | 185 | 334 | 4  | ●   |
| T70 3350       | 33,5                           | 185 | 334 | 4  | ●   |
| T70 3400       | 34,0                           | 190 | 339 | 4  | ●   |
| T70 3450       | 34,5                           | 190 | 339 | 4  | ●   |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |    | HSS |
|----------------|--------------------------------|-----|-----|----|-----|
|                | D                              | l   | L   | CM |     |
| T70 3500       | 35,0                           | 190 | 339 | 4  | ●   |
| T70 3550       | 35,5                           | 190 | 339 | 4  | ●   |
| T70 3600       | 36,0                           | 195 | 344 | 4  | ●   |
| T70 3650       | 36,5                           | 195 | 344 | 4  | ●   |
| T70 3700       | 37,0                           | 195 | 344 | 4  | ●   |
| T70 3750       | 37,5                           | 195 | 344 | 4  | ●   |
| T70 3800       | 38,0                           | 200 | 349 | 4  | ●   |
| T70 3850       | 38,5                           | 200 | 349 | 4  | ●   |
| T70 3900       | 39,0                           | 200 | 349 | 4  | ●   |
| T70 3950       | 39,5                           | 200 | 349 | 4  | ●   |
| T70 4000       | 40,0                           | 200 | 349 | 4  | ●   |
| T70 4050       | 40,5                           | 205 | 354 | 4  | ●   |
| T70 4100       | 41,0                           | 205 | 354 | 4  | ●   |
| T70 4150       | 41,5                           | 205 | 354 | 4  | ●   |
| T70 4200       | 42,0                           | 205 | 354 | 4  | ●   |
| T70 4250       | 42,5                           | 205 | 354 | 4  | ●   |
| T70 4300       | 43,0                           | 210 | 359 | 4  | ●   |
| T70 4350       | 43,5                           | 210 | 359 | 4  | ●   |
| T70 4400       | 44,0                           | 210 | 359 | 4  | ●   |
| T70 4450       | 44,5                           | 210 | 359 | 4  | ●   |
| T70 4500       | 45,0                           | 210 | 359 | 4  | ●   |
| T70 4550       | 45,5                           | 215 | 364 | 4  | ●   |
| T70 4600       | 46,0                           | 215 | 364 | 4  | ●   |
| T70 4650       | 46,5                           | 215 | 364 | 4  | ●   |
| T70 4700       | 47,0                           | 215 | 364 | 4  | ●   |
| T70 4750       | 47,5                           | 215 | 364 | 4  | ●   |
| T70 4800       | 48,0                           | 220 | 369 | 4  | ●   |
| T70 4850       | 48,5                           | 220 | 369 | 4  | ●   |
| T70 4900       | 49,0                           | 220 | 369 | 4  | ●   |
| T70 4950       | 49,5                           | 220 | 369 | 4  | ●   |
| T70 5000       | 50,0                           | 220 | 369 | 4  | ●   |
| T70 5050       | 50,5                           | 225 | 374 | 4  | ●   |
| T70 5100       | 51,0                           | 225 | 412 | 5  | ●   |
| T70 5200       | 52,0                           | 225 | 412 | 5  | ●   |
| T70 5300       | 53,0                           | 225 | 412 | 5  | ●   |
| T70 5400       | 54,0                           | 230 | 417 | 5  | ●   |
| T70 5500       | 55,0                           | 230 | 417 | 5  | ●   |
| T70 5600       | 56,0                           | 230 | 417 | 5  | ●   |
| T70 5700       | 57,0                           | 235 | 422 | 5  | ●   |
| T70 5800       | 58,0                           | 235 | 422 | 5  | ●   |
| T70 5900       | 59,0                           | 235 | 422 | 5  | ●   |
| T70 6000       | 60,0                           | 235 | 422 | 5  | ●   |

EXAMPLE OF ORDER:

T70 6000 HSS

T70

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER



## PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER



### T80

#### - Punta per lavorazioni pesanti

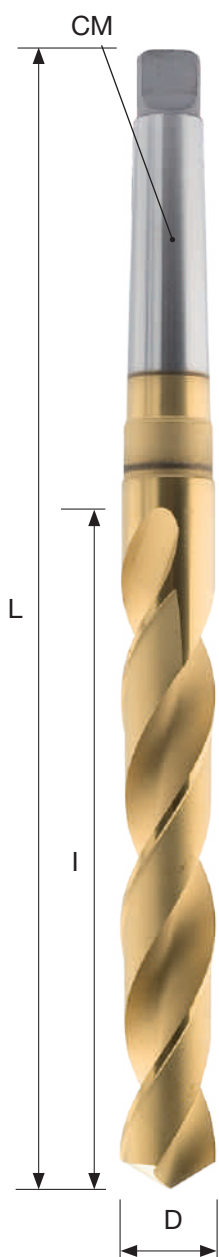
- Punta elicoidali adatte alla foratura di acciaio legato, acciaio non legato, acciaio inossidabile, ghisa grigia, ghisa malleabile, grafite.
- Punta in HSS-E (Co 5%)
- Serie normale
- Angolo elica: 20° ~ 30°
- Angolo di punta: 118°
- DIN 345

#### - Heavy duty drills

- Twist drills suitable for drilling in alloy steel, unalloyed steel, gray cast iron, malleable cast iron, graphite.
- HSS-E (Co 5%) twist drill
- Normal series
- Helix angle: 20° ~ 30°
- Head angle: 118°
- DIN 345

#### - Bohrer für Schwerbearbeitung

- Spiralbohrer zum Bohren von legiertem Stahl, unlegiertem Stahl, rostfreiem Stahl, Grauguss, Temperguss, Graphit.
- HSS-E (Co 5%)
- normale Ausführung
- Drallwinkel: 20° ~ 30°
- Spitzenwinkel: 118°
- DIN 345



| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |    | KP20 |
|----------------|--------------------------------|-----|-----|----|------|
|                | D                              | l   | L   | CM |      |
| T80 1300       | 13,0                           | 101 | 182 | 1  | ●    |
| T80 1350       | 13,5                           | 108 | 189 | 1  | ●    |
| T80 1400       | 14,0                           | 108 | 189 | 1  | ●    |
| T80 1450       | 14,5                           | 114 | 212 | 2  | ●    |
| T80 1500       | 15,0                           | 114 | 212 | 2  | ●    |
| T80 1550       | 15,5                           | 120 | 218 | 2  | ●    |
| T80 1600       | 16,0                           | 120 | 218 | 2  | ●    |
| T80 1650       | 16,5                           | 125 | 223 | 2  | ●    |
| T80 1700       | 17,0                           | 125 | 223 | 2  | ●    |
| T80 1750       | 17,5                           | 130 | 228 | 2  | ●    |
| T80 1800       | 18,0                           | 130 | 228 | 2  | ●    |
| T80 1850       | 18,5                           | 135 | 233 | 2  | ●    |
| T80 1900       | 19,0                           | 135 | 233 | 2  | ●    |
| T80 1950       | 19,5                           | 140 | 238 | 2  | ●    |
| T80 2000       | 20,0                           | 140 | 238 | 2  | ●    |
| T80 2050       | 20,5                           | 145 | 243 | 2  | ●    |
| T80 2100       | 21,0                           | 145 | 243 | 2  | ●    |
| T80 2150       | 21,5                           | 150 | 248 | 2  | ●    |

| CODICE<br>CODE | DIMENSIONI / DIMENSIONS / MAßE |     |     |    | KP20 |
|----------------|--------------------------------|-----|-----|----|------|
|                | D                              | l   | L   | CM |      |
| T80 2200       | 22,0                           | 150 | 248 | 2  | ●    |
| T80 2250       | 22,5                           | 155 | 253 | 2  | ●    |
| T80 2300       | 23,0                           | 155 | 253 | 2  | ●    |
| T80 2350       | 23,5                           | 155 | 276 | 3  | ●    |
| T80 2400       | 24,0                           | 160 | 281 | 3  | ●    |
| T80 2450       | 24,5                           | 160 | 281 | 3  | ●    |
| T80 2500       | 25,0                           | 160 | 281 | 3  | ●    |
| T80 2550       | 25,5                           | 165 | 286 | 3  | ●    |
| T80 2600       | 26,0                           | 165 | 286 | 3  | ●    |
| T80 2650       | 26,5                           | 165 | 286 | 3  | ●    |
| T80 2700       | 27,0                           | 170 | 291 | 3  | ●    |
| T80 2750       | 27,5                           | 170 | 291 | 3  | ●    |
| T80 2800       | 28,0                           | 170 | 291 | 3  | ●    |
| T80 2850       | 28,5                           | 175 | 296 | 3  | ●    |
| T80 2900       | 29,0                           | 175 | 296 | 3  | ●    |
| T80 2950       | 29,5                           | 175 | 296 | 3  | ●    |
| T80 3000       | 30,0                           | 175 | 296 | 3  | ●    |

#### ESEMPIO DI ORDINE:

Order example:  
Beispiel für einen Auftrag:

T80 3000 KP20

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage



## PUNTE ELICOIDALI IN HSS-E

HSS-E TWIST DRILLS

HSS-E-SPIRALBOHRER

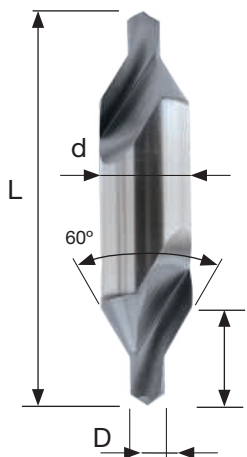


### T950/A

- Punta per centratura a 60°
- Punta in HSS-E
- DIN 333

- Drills for 60° spot-drilling
- HSS-E drill
- DIN 333

- Zentrierbohrer 60°
- HSS-E
- DIN 333



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |      |      |     | HSS-E | KP60 |
|----------------|---------------------------------|------|------|-----|-------|------|
|                | D                               | d    | L    | l   |       |      |
| T950/A 0050    | 0,5                             | 3,15 | 20   | 0,8 | ●     | ○    |
| T950/A 0080    | 0,8                             | 3,15 | 20   | 1,1 | ●     | ○    |
| T950/A 0100    | 1,0                             | 3,15 | 31,5 | 1,6 | ●     | ○    |
| T950/A 0125    | 1,3                             | 3,15 | 31,5 | 1,6 | ●     | ○    |
| T950/A 0160    | 1,6                             | 4,00 | 35,5 | 2,0 | ●     | ○    |
| T950/A 0200    | 2,0                             | 5,00 | 40   | 2,5 | ●     | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |       |    |      | HSS-E | KP60 |
|----------------|---------------------------------|-------|----|------|-------|------|
|                | D                               | d     | L  | l    |       |      |
| T950/A 0250    | 2,5                             | 6,30  | 45 | 3,1  | ●     | ○    |
| T950/A 0315    | 3,2                             | 8,00  | 50 | 3,9  | ●     | ○    |
| T950/A 0400    | 4,0                             | 10,00 | 56 | 5,0  | ●     | ○    |
| T950/A 0500    | 5,0                             | 12,50 | 63 | 6,3  | ●     | ○    |
| T950/A 0630    | 6,3                             | 16,00 | 71 | 8,0  | ●     | ○    |
| T950/A 0800    | 8,0                             | 20,00 | 80 | 10,1 | ●     | ○    |

#### ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

T950/A 0800 HSS-E

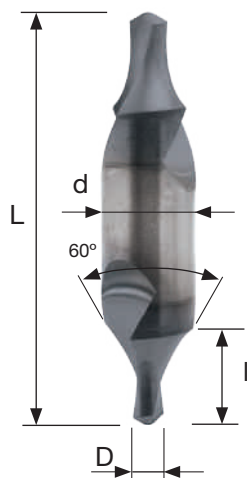
- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

### T950/R

- Punta per centratura a 60°
- Forma raggiata
- Punta in HSS
- DIN 333

- Drills for 60° spot-drilling
- Radius shape
- HSS drill
- DIN 333

- Zentrierbohrer 60°
- abgerundet
- HSS-E
- DIN 333



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |      |      |     | HSS-E | KP60 |
|----------------|---------------------------------|------|------|-----|-------|------|
|                | D                               | d    | L    | l   |       |      |
| T950/R 0050    | 0,5                             | 3,15 | 20   | 0,8 | ●     | ○    |
| T950/R 0080    | 0,8                             | 3,15 | 20   | 1,1 | ●     | ○    |
| T950/R 0100    | 1,0                             | 3,15 | 31,5 | 1,6 | ●     | ○    |
| T950/R 0125    | 1,3                             | 3,15 | 31,5 | 1,6 | ●     | ○    |
| T950/R 0160    | 1,6                             | 4,00 | 35,5 | 2,0 | ●     | ○    |
| T950/R 0200    | 2,0                             | 5,00 | 40   | 2,5 | ●     | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |       |    |     | HSS-E | KP60 |
|----------------|---------------------------------|-------|----|-----|-------|------|
|                | D                               | d     | L  | l   |       |      |
| T950/R 0250    | 2,5                             | 6,30  | 45 | 3,1 | ●     | ○    |
| T950/R 0315    | 3,2                             | 8,00  | 50 | 3,9 | ●     | ○    |
| T950/R 0400    | 4,0                             | 10,00 | 56 | 5,0 | ●     | ○    |
| T950/R 0500    | 5,0                             | 12,50 | 63 | 6,3 | ●     | ○    |
| T950/R 0630    | 6,3                             | 16,00 | 71 | 8,0 | ●     | ○    |

#### ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

T950/R 0630 KP20

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

T950/A - T950/R

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

## PUNTE IN HSS & HSS-E

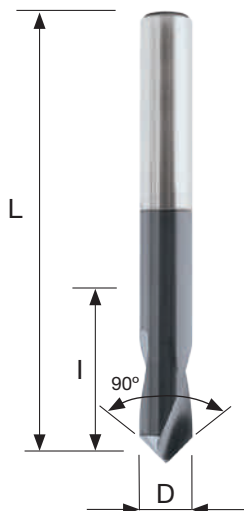
HSS & HSS-E DRILLS

HSS & HSS-E BOHRER



### T960

- Punta per centratura C.N.C. a 90°
- Punta in HSS-E
- DIN 1897
- Drills for 90° C.N.C. spot-drilling
- HSS-E drill
- DIN 1897
- NC-Anfräser 90°
- HSS-E
- DIN 1897



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |    |    | HSS-E | KP60 |
|----------------|---------------------------------|----|----|-------|------|
|                | D                               | l  | L  |       |      |
| T960 0600      | 6,0                             | 20 | 66 | ●     | ○    |
| T960 0800      | 8,0                             | 26 | 79 | ●     | ○    |
| T960 1000      | 10,0                            | 30 | 89 | ●     | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |    |     | HSS-E | KP60 |
|----------------|---------------------------------|----|-----|-------|------|
|                | D                               | l  | L   |       |      |
| T960 1200      | 12,0                            | 35 | 102 | ●     | ○    |
| T960 1600      | 16,0                            | 40 | 115 | ●     | ○    |
| T960 2000      | 20,0                            | 47 | 131 | ●     | ○    |

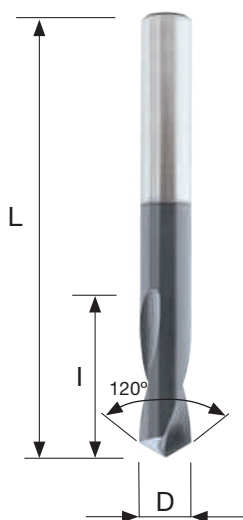
**ESEMPIO DI ORDINE:**  
Order example:  
Beispiel für einen Auftrag:

T960 2000 HSS-E

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

### T970

- Punta per centratura C.N.C. a 120°
- Punta in HSS-E
- DIN 1897
- Drills for 120° C.N.C. spot-drilling
- HSS-E drill
- DIN 1897
- NC-Anfräser 120°
- HSS-E
- DIN 1897



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |    |    | HSS-E | KP60 |
|----------------|---------------------------------|----|----|-------|------|
|                | D                               | l  | L  |       |      |
| T970 0600      | 6,0                             | 20 | 66 | ●     | ○    |
| T970 0800      | 8,0                             | 26 | 79 | ●     | ○    |
| T970 1000      | 10,0                            | 30 | 89 | ●     | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |    |     | HSS-E | KP60 |
|----------------|---------------------------------|----|-----|-------|------|
|                | D                               | l  | L   |       |      |
| T970 1200      | 12,0                            | 35 | 102 | ●     | ○    |
| T970 1600      | 16,0                            | 40 | 115 | ●     | ○    |
| T970 2000      | 20,0                            | 47 | 131 | ●     | ○    |

**ESEMPIO DI ORDINE:**  
Order example:  
Beispiel für einen Auftrag:

T970 1000 KP60

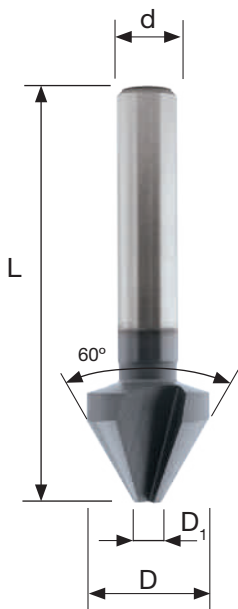
- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

**SVASATORI IN HSS**  
**HSS COUNTERSINK**  
**HSS-KEGELSENKER**



**TS60**

- Svasatori a 60° in HSS
- 3 taglienti
- Attacco cilindrico
- HSS countersink 60°
- 3 flutes
- Plain shank
- HSS-Kegelsenker 60°
- 3 Schneiden
- Zylinderschaft



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |    |   | HSS | KP60 |
|----------------|---------------------------------|-----|----|---|-----|------|
|                | D                               | D1  | L  | d |     |      |
| TS60 0630      | 6,3                             | 1,6 | 45 | 5 | ●   | ○    |
| TS60 0800      | 8,0                             | 2   | 50 | 6 | ●   | ○    |
| TS60 1250      | 12,5                            | 3,2 | 56 | 8 | ●   | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |    |    | HSS | KP60 |
|----------------|---------------------------------|-----|----|----|-----|------|
|                | D                               | D1  | L  | d  |     |      |
| TS60 1600      | 16,0                            | 4   | 63 | 10 | ●   | ○    |
| TS60 2000      | 20,0                            | 5   | 67 | 10 | ●   | ○    |
| TS60 2500      | 25,0                            | 6,3 | 71 | 10 | ●   | ○    |

**ESEMPIO DI ORDINE:**

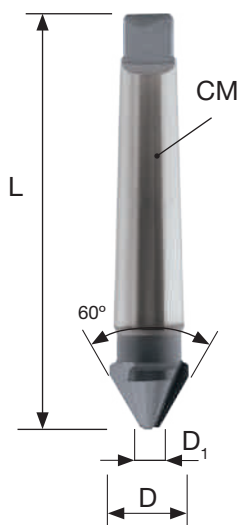
Order example:  
 Beispiel für einen Auftrag:

**TS60 2500 KP20**

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

**TS60CM**

- Svasatori a 60° in HSS
- 3 taglienti
- Attacco conico Morse
- HSS countersink 60°
- 3 flutes
- Morse taper shank
- HSS-Kegelsenker 60°
- 3 Schneiden
- Morsekegel



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |     |    | HSS | KP60 |
|----------------|---------------------------------|-----|-----|----|-----|------|
|                | D                               | D1  | L   | CM |     |      |
| TS60CM 1600    | 16,0                            | 4   | 90  | 1  | ●   | ○    |
| TS60CM 2000    | 20,0                            | 5   | 106 | 2  | ●   | ○    |
| TS60CM 2500    | 25,0                            | 6,3 | 112 | 2  | ●   | ○    |
| TS60CM 3150    | 31,5                            | 10  | 118 | 2  | ●   | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |      |     |    | HSS | KP60 |
|----------------|---------------------------------|------|-----|----|-----|------|
|                | D                               | D1   | L   | CM |     |      |
| TS60CM 4000    | 40,0                            | 12,5 | 150 | 3  | ●   | ○    |
| TS60CM 5000    | 50,0                            | 16   | 160 | 3  | ●   | ○    |
| TS60CM 6300    | 63,0                            | 20   | 190 | 4  | ●   | ○    |
| TS60CM 8000    | 80,0                            | 25   | 200 | 4  | ●   | ○    |

**ESEMPIO DI ORDINE:**

Order example:  
 Beispiel für einen Auftrag:

**TS60CM 8000 KP60**

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

TS60 - TS60CM

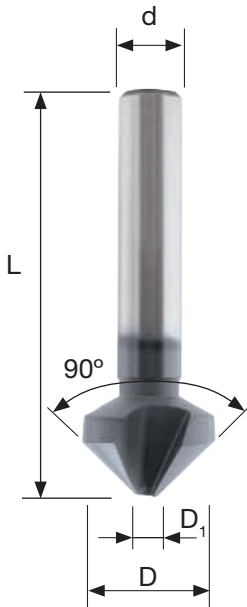
PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

**SVASATORI IN HSS**  
**HSS COUNTERSINK**  
**HSS-KEGELSENKER**



**TS90**

- Svasatori a 90° in HSS
- 3 taglienti
- Attacco cilindrico
- HSS countersink 90°
- 3 flutes
- Plain shank
- HSS-Kegelsenker 90°
- 3 Schneiden
- Zylinderschaft



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |    | HSS | KP60 |
|----------------|---------------------------------|-----|----|-----|------|
|                | D                               | d   | L  |     |      |
| TS90 0430      | 4,3                             | 1,3 | 40 | ●   | ○    |
| TS90 0530      | 5,3                             | 1,5 | 40 | ●   | ○    |
| TS90 0630      | 6,3                             | 1,5 | 45 | ●   | ○    |
| TS90 0730      | 7,3                             | 1,8 | 50 | ●   | ○    |
| TS90 0830      | 8,3                             | 2   | 50 | ●   | ○    |
| TS90 0940      | 9,4                             | 2,2 | 50 | ●   | ○    |
| TS90 1040      | 10,4                            | 2,5 | 50 | ●   | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |    | HSS | KP60 |
|----------------|---------------------------------|-----|----|-----|------|
|                | D                               | d   | L  |     |      |
| TS90 1240      | 12,4                            | 2,9 | 56 | ●   | ○    |
| TS90 1500      | 15,0                            | 2,2 | 60 | ●   | ○    |
| TS90 1650      | 16,5                            | 3,2 | 60 | ●   | ○    |
| TS90 2050      | 20,5                            | 3,5 | 63 | ●   | ○    |
| TS90 2500      | 25,0                            | 3,8 | 67 | ●   | ○    |
| TS90 3000      | 30,0                            | 4,2 | 71 | ●   | ○    |

**ESEMPIO DI ORDINE:**

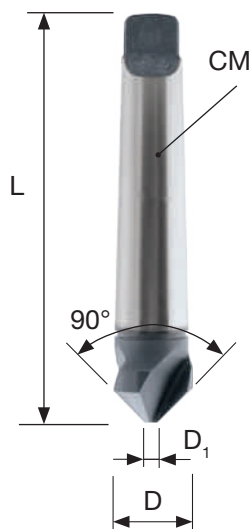
Order example:  
 Beispiel für einen Auftrag:

**TS90 3000 KP20**

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

**TS90CM**

- Svasatori a 90° in HSS
- 3 taglienti
- Attacco conico Morse
- HSS countersink 90°
- 3 flutes
- Morse taper shank
- HSS-Kegelsenker 90°
- 3 Schneiden
- Morsekegel



| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |     |    | HSS | KP60 |
|----------------|---------------------------------|-----|-----|----|-----|------|
|                | D                               | D1  | L   | CM |     |      |
| TS90CM 1500    | 15,0                            | 3,2 | 85  | 1  | ●   | ○    |
| TS90CM 1650    | 16,5                            | 3,2 | 85  | 1  | ●   | ○    |
| TS90CM 1900    | 19,0                            | 3,5 | 100 | 2  | ●   | ○    |
| TS90CM 2050    | 20,5                            | 3,5 | 100 | 2  | ●   | ○    |
| TS90CM 2300    | 23,0                            | 3,8 | 106 | 2  | ●   | ○    |
| TS90CM 2500    | 25,0                            | 3,8 | 106 | 2  | ●   | ○    |
| TS90CM 2600    | 26,0                            | 3,8 | 106 | 2  | ●   | ○    |
| TS90CM 2800    | 28,0                            | 4   | 112 | 2  | ●   | ○    |

| CODICE<br>CODE | DIMENSIONI<br>DIMENSIONS / MAßE |     |     |    | HSS | KP60 |
|----------------|---------------------------------|-----|-----|----|-----|------|
|                | D                               | D1  | L   | CM |     |      |
| TS90CM 3000    | 30,0                            | 4,2 | 112 | 2  | ●   | ○    |
| TS90CM 3100    | 31,0                            | 4,2 | 112 | 2  | ●   | ○    |
| TS90CM 3400    | 34,0                            | 4,5 | 117 | 2  | ●   | ○    |
| TS90CM 3700    | 37,0                            | 4,8 | 118 | 2  | ●   | ○    |
| TS90CM 4000    | 40,0                            | 10  | 140 | 3  | ●   | ○    |
| TS90CM 5000    | 50,0                            | 14  | 180 | 3  | ●   | ○    |
| TS90CM 6300    | 63,0                            | 16  | 180 | 4  | ●   | ○    |
| TS90CM 8000    | 80,0                            | 22  | 190 | 4  | ●   | ○    |

**ESEMPIO DI ORDINE:**

Order example:  
 Beispiel für einen Auftrag:

**TS90CM 8000 KP60**

- Disponibile / In stock / vorrätig
- A richiesta / On request / auf Anfrage

TS90 - TS90CM

PUNTE IN HSS & HSS-E HSS & HSS-E DRILLS HSS & HSS-E BOHRER

## Acciai utilizzati e rivestimenti

*Steels and coatings*

*Stähle und Beschichtungen*

|              |  |
|--------------|--|
| <b>HSS</b>   | <b>ACCIAI DEL TIPO HSS</b><br><i>HSS STEEL / HSS-STAHL</i>   |
| <b>HSS-E</b> | <b>ACCIAI DEL TIPO HSS-E</b><br><b>(Co 5%~Co 8%)</b><br><i>HSS-E STEEL (Co 5%~Co 8%)</i><br><i>HSS-E- STAHL (Co 5%~Co 8%)</i>                |
| <b>KP20</b>  | <b>ACCIAI DEL TIPO HSS-E</b><br><b>+ RIVESTIMENTO TiN</b><br><i>HSS-E STEEL + TiN COATING</i><br><i>HSS-E STAHL + TiN BESCHICHTUNG</i>       |
| <b>KP 60</b> | <b>ACCIAI DEL TIPO HSS-E</b><br><b>+ RIVESTIMENTO TiAlN</b><br><i>HSS-E STEEL + TiAlN COATING</i><br><i>HSS-E STAHL + TiAlN BESCHICHTUNG</i> |

**T43**

| MATERIALE<br>MATERIAL<br>WERKSTOFFGRUPPE |   |                 | V <sub>c</sub><br>m/min | F mm-giro / F mm-rev. / Vorschub mm-U |      |      |      |      |      |
|--|---|-----------------|-------------------------|---------------------------------------|------|------|------|------|------|
| Mat.                                     | HB <sup>(a)</sup><br>N/mm <sup>2</sup> <sup>(b)</sup><br>HrC <sup>(c)</sup> | Kc <sup>°</sup> | KP60                    | 2                                     | 4    | 6    | 8    | 10   | 12   |
| P1                                       | 125(a) / 420(b)   | 1350            | 30 - 45                 | 0,06                                  | 0,15 | 0,20 | 0,24 | 0,27 | 0,29 |
| P2                                       | 190(a) / 650(b)   | 1500            | 30 - 40                 | 0,06                                  | 0,15 | 0,19 | 0,22 | 0,25 | 0,28 |
| P3                                       | 250(a) / 850(b)   | 1675            | 20 - 35                 | 0,05                                  | 0,11 | 0,16 | 0,19 | 0,22 | 0,25 |
| P4                                       | 220(a) / 750(b)   | 1700            | 30 - 40                 | 0,06                                  | 0,15 | 0,19 | 0,22 | 0,25 | 0,28 |
| P5                                       | 300(a) / 1000(b)  | 1900            | 15 - 30                 | 0,05                                  | 0,10 | 0,14 | 0,17 | 0,21 | 0,23 |
| P6                                       | 200(a) / 600(b)   | 1775            | 30 - 40                 | 0,06                                  | 0,15 | 0,19 | 0,22 | 0,25 | 0,28 |
| P7                                       | 275(a) / 930(b)   | 1675            | 20 - 35                 | 0,05                                  | 0,11 | 0,16 | 0,19 | 0,22 | 0,25 |
| P8                                       | 300(a) / 1000(b)  | 1725            | 15 - 30                 | 0,05                                  | 0,10 | 0,14 | 0,17 | 0,21 | 0,23 |
| P9                                       | 350(a) / 1200(b)  | 1800            | 10 - 20                 | 0,04                                  | 0,08 | 0,11 | 0,15 | 0,17 | 0,19 |
| P10                                      | 200(a) / 680(b)   | 2450            | 15 - 30                 | 0,05                                  | 0,10 | 0,14 | 0,17 | 0,21 | 0,23 |
| P11                                      | 325(a) / 1100(b)  | 2500            | 10 - 20                 | 0,04                                  | 0,08 | 0,11 | 0,15 | 0,17 | 0,19 |
| M12                                      | 200(a) / 680(b)   | 1875            | 10 - 20                 | 0,05                                  | 0,10 | 0,14 | 0,17 | 0,21 | 0,23 |
| M13                                      | 240(a) / 820(b)   | 1875            |                         |                                       |      |      |      |      |      |
| M14                                      | 180(a) / 600(b)   | 2150            |                         |                                       |      |      |      |      |      |
| K15                                      | 180(a)  | 1150            | 30 - 55                 | 0,08                                  | 0,18 | 0,25 | 0,29 | 0,32 | 0,36 |
| K16                                      | 260(a)  | 1350            |                         |                                       |      |      |      |      |      |
| K17                                      | 160(a)  | 1225            |                         |                                       |      |      |      |      |      |
| K18                                      | 250(a)  | 1350            |                         |                                       |      |      |      |      |      |
| K19                                      | 130(a)  | 1225            |                         |                                       |      |      |      |      |      |
| K20                                      | 230(a)  | 1420            |                         |                                       |      |      |      |      |      |
| N21                                      | 60 <sup>(a)</sup>   | 700             | 60 - 90                 | 0,10                                  | 0,19 | 0,27 | 0,31 | 0,34 | 0,38 |
| N22                                      | 100 <sup>(a)</sup>  | 800             |                         |                                       |      |      |      |      |      |
| N23                                      | 75 <sup>(a)</sup>   | 700             |                         |                                       |      |      |      |      |      |
| N24                                      | 90 <sup>(a)</sup>   | 700             |                         |                                       |      |      |      |      |      |
| N25                                      | 130 <sup>(a)</sup>  | 750             |                         |                                       |      |      |      |      |      |



**T53**

**T54**

**T55**

| MATERIALE<br>MATERIAL<br>WERKSTOFFGRUPPE |   |                 | Vc<br>m/min | F mm-giro / F mm-rev. / Vorschub mm-U |      |      |      |      |      |
|--|---|-----------------|-------------|---------------------------------------|------|------|------|------|------|
| Mat.                                     | HB <sup>(a)</sup><br>N/mm <sup>2(b)</sup><br>HrC <sup>(c)</sup> | Kc <sup>o</sup> | KP60        | 2                                     | 3    | 5    | 8    | 12   | 18   |
| P1                                       | 125(a) / 420(b)   | 1350            | 30 - 45     | 0,03                                  | 0,06 | 0,07 | 0,14 | 0,17 | 0,25 |
| P2                                       | 190(a) / 650(b)   | 1500            | 30 - 40     | 0,03                                  | 0,06 | 0,07 | 0,14 | 0,17 | 0,25 |
| P3                                       | 250(a) / 850(b)   | 1675            | 20 - 35     | 0,02                                  | 0,04 | 0,05 | 0,10 | 0,13 | 0,20 |
| P4                                       | 220(a) / 750(b)   | 1700            | 30 - 40     | 0,03                                  | 0,06 | 0,07 | 0,14 | 0,17 | 0,25 |
| P5                                       | 300(a) / 1000(b)  | 1900            | 15 - 30     | 0,02                                  | 0,03 | 0,04 | 0,06 | 0,10 | 0,16 |
| P6                                       | 200(a) / 600(b)   | 1775            | 30 - 40     | 0,03                                  | 0,06 | 0,07 | 0,14 | 0,17 | 0,25 |
| P7                                       | 275(a) / 930(b)   | 1675            | 20 - 35     | 0,02                                  | 0,04 | 0,05 | 0,10 | 0,13 | 0,20 |
| P8                                       | 300(a) / 1000(b)  | 1725            | 15 - 30     | 0,02                                  | 0,03 | 0,04 | 0,06 | 0,10 | 0,16 |
| P9                                       | 350(a) / 1200(b)  | 1800            | 10 - 20     | 0,01                                  | 0,02 | 0,02 | 0,04 | 0,05 | 0,07 |
| P10                                      | 200(a) / 680(b)   | 2450            | 15 - 30     | 0,02                                  | 0,03 | 0,04 | 0,06 | 0,10 | 0,16 |
| P11                                      | 325(a) / 1100(b)  | 2500            | 10 - 20     | 0,01                                  | 0,02 | 0,02 | 0,04 | 0,05 | 0,07 |
| M12                                      | 200(a) / 680(b)   | 1875            | 10 - 20     | 0,03                                  | 0,05 | 0,06 | 0,13 | 0,15 | 0,23 |
| M13                                      | 240(a) / 820(b)   | 1875            |             |                                       |      |      |      |      |      |
| M14                                      | 180(a) / 600(b)   | 2150            |             |                                       |      |      |      |      |      |
| K15                                      | 180(a)  | 1150            | 30 - 55     | 0,03                                  | 0,05 | 0,06 | 0,13 | 0,15 | 0,23 |
| K16                                      | 260(a)  | 1350            |             |                                       |      |      |      |      |      |
| K17                                      | 160(a)  | 1225            |             |                                       |      |      |      |      |      |
| K18                                      | 250(a)  | 1350            |             |                                       |      |      |      |      |      |
| K19                                      | 130(a)  | 1225            |             |                                       |      |      |      |      |      |
| K20                                      | 230(a)  | 1420            |             |                                       |      |      |      |      |      |
| N21                                      | 60 <sup>(a)</sup>   | 700             | 60 - 90     | 0,04                                  | 0,07 | 0,10 | 0,20 | 0,23 | 0,33 |
| N22                                      | 100 <sup>(a)</sup>  | 800             |             |                                       |      |      |      |      |      |
| N23                                      | 75 <sup>(a)</sup>   | 700             |             |                                       |      |      |      |      |      |
| N24                                      | 90 <sup>(a)</sup>   | 700             |             |                                       |      |      |      |      |      |
| N25                                      | 130 <sup>(a)</sup>  | 750             |             |                                       |      |      |      |      |      |

**T70**

NOTE TECNICHE / TECHNICAL NOTES

FRESE BFT-MOULD BFT-MOULD END MILLS BFT-MOULD-FRÄSER

| MATERIALE<br>MATERIAL<br>WERKSTOFFGRUPPE |   |                 | Vc<br>m/min | F mm-giro / F mm-rev. / Vorschub mm-U |      |      |      |
|--|---|-----------------|-------------|---------------------------------------|------|------|------|
| Mat.                                     | HB <sup>(a)</sup><br>N/mm <sup>2</sup> <sup>(b)</sup><br>HrC <sup>(c)</sup> | Kc <sup>o</sup> | HSS         | 13                                    | 20   | 40   | 60   |
| P1                                       | 125(a) / 420(b)   | 1350            | 20 - 35     | 0,17                                  | 0,25 | 0,31 | 0,36 |
| P2                                       | 190(a) / 650(b)   | 1500            | 20 - 30     | 0,17                                  | 0,25 | 0,31 | 0,36 |
| P3                                       | 250(a) / 850(b)   | 1675            | 15 - 25     | 0,10                                  | 0,15 | 0,20 | 0,25 |
| P4                                       | 220(a) / 750(b)   | 1700            | 20 - 30     | 0,17                                  | 0,25 | 0,31 | 0,36 |
| P5                                       | 300(a) / 1000(b)  | 1900            | 10 - 20     | 0,07                                  | 0,12 | 0,16 | 0,18 |
| P6                                       | 200(a) / 600(b)   | 1775            | 20 - 30     | 0,17                                  | 0,25 | 0,31 | 0,36 |
| P7                                       | 275(a) / 930(b)   | 1675            | 15 - 25     | 0,10                                  | 0,15 | 0,20 | 0,25 |
| P8                                       | 300(a) / 1000(b)  | 1725            | 10 - 20     | 0,07                                  | 0,12 | 0,16 | 0,18 |
| P9                                       | 350(a) / 1200(b)  | 1800            | 10 - 15     | 0,05                                  | 0,06 | 0,08 | 0,11 |
| P10                                      | 200(a) / 680(b)   | 2450            | 10 - 20     | 0,07                                  | 0,12 | 0,16 | 0,18 |
| P11                                      | 325(a) / 1100(b)  | 2500            | 10 - 15     | 0,05                                  | 0,06 | 0,08 | 0,11 |
| M12                                      | 200(a) / 680(b)   | 1875            | 10 - 15     | 0,10                                  | 0,15 | 0,20 | 0,25 |
| M13                                      | 240(a) / 820(b)   | 1875            |             |                                       |      |      |      |
| M14                                      | 180(a) / 600(b)   | 2150            |             |                                       |      |      |      |
| K15                                      | 180(a)  | 1150            | 20 - 35     | 0,15                                  | 0,23 | 0,28 | 0,33 |
| K16                                      | 260(a)  | 1350            |             |                                       |      |      |      |
| K17                                      | 160(a)  | 1225            |             |                                       |      |      |      |
| K18                                      | 250(a)  | 1350            |             |                                       |      |      |      |
| K19                                      | 130(a)  | 1225            |             |                                       |      |      |      |
| K20                                      | 230(a)  | 1420            |             |                                       |      |      |      |
| N21                                      | 60 <sup>(a)</sup>   | 700             | 45 - 55     | 0,22                                  | 0,33 | 0,42 | 0,51 |
| N22                                      | 100 <sup>(a)</sup>  | 800             |             |                                       |      |      |      |
| N23                                      | 75 <sup>(a)</sup>   | 700             |             |                                       |      |      |      |
| N24                                      | 90 <sup>(a)</sup>   | 700             |             |                                       |      |      |      |
| N25                                      | 130 <sup>(a)</sup>  | 750             |             |                                       |      |      |      |

**T80**

| MATERIALE<br>MATERIAL<br>WERKSTOFFGRUPPE |   |      | Vc<br>m/min | F mm-giro / F mm-rev. / Vorschub mm-U |      |      |
|--|---|------|-------------|---------------------------------------|------|------|
| Mat.                                     | HB <sup>(a)</sup><br>N/mm <sup>2(b)</sup><br>HrC <sup>(c)</sup> | Kc°  | KP20        | 13                                    | 18   | 30   |
| P1                                       | 125(a) / 420(b)   | 1350 | 35 - 55     | 0,17                                  | 0,25 | 0,31 |
| P2                                       | 190(a) / 650(b)   | 1500 | 30 - 50     | 0,17                                  | 0,25 | 0,31 |
| P3                                       | 250(a) / 850(b)   | 1675 | 25 - 40     | 0,12                                  | 0,19 | 0,24 |
| P4                                       | 220(a) / 750(b)   | 1700 | 30 - 50     | 0,17                                  | 0,25 | 0,31 |
| P5                                       | 300(a) / 1000(b)  | 1900 | 20 - 30     | 0,08                                  | 0,11 | 0,15 |
| P6                                       | 200(a) / 600(b)   | 1775 | 30 - 50     | 0,17                                  | 0,25 | 0,31 |
| P7                                       | 275(a) / 930(b)   | 1675 | 25 - 40     | 0,12                                  | 0,19 | 0,24 |
| P8                                       | 300(a) / 1000(b)  | 1725 | 20 - 30     | 0,08                                  | 0,11 | 0,15 |
| P9                                       | 350(a) / 1200(b)  | 1800 | 15 - 25     | 0,05                                  | 0,07 | 0,10 |
| P10                                      | 200(a) / 680(b)   | 2450 | 20 - 30     | 0,08                                  | 0,11 | 0,15 |
| P11                                      | 325(a) / 1100(b)  | 2500 | 15 - 25     | 0,05                                  | 0,07 | 0,10 |
| M12                                      | 200(a) / 680(b)   | 1875 | 15 - 30     | 0,08                                  | 0,11 | 0,15 |
| M13                                      | 240(a) / 820(b)   | 1875 |             |                                       |      |      |
| M14                                      | 180(a) / 600(b)   | 2150 |             |                                       |      |      |
| K15                                      | 180(a)  | 1150 | 30 - 50     | 0,15                                  | 0,23 | 0,28 |
| K16                                      | 260(a)  | 1350 |             |                                       |      |      |
| K17                                      | 160(a)  | 1225 |             |                                       |      |      |
| K18                                      | 250(a)  | 1350 |             |                                       |      |      |
| K19                                      | 130(a)  | 1225 |             |                                       |      |      |
| K20                                      | 230(a)  | 1420 |             |                                       |      |      |