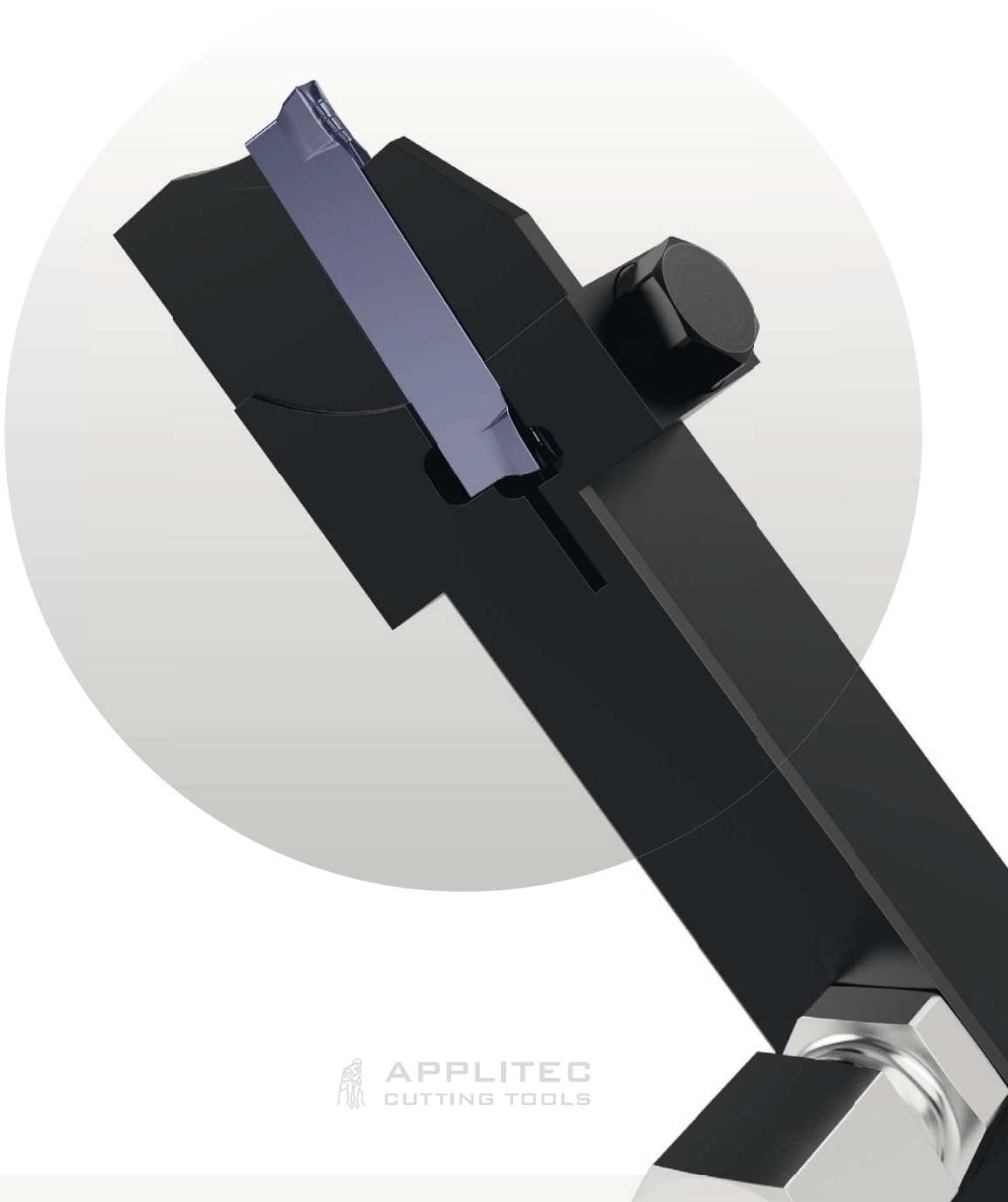


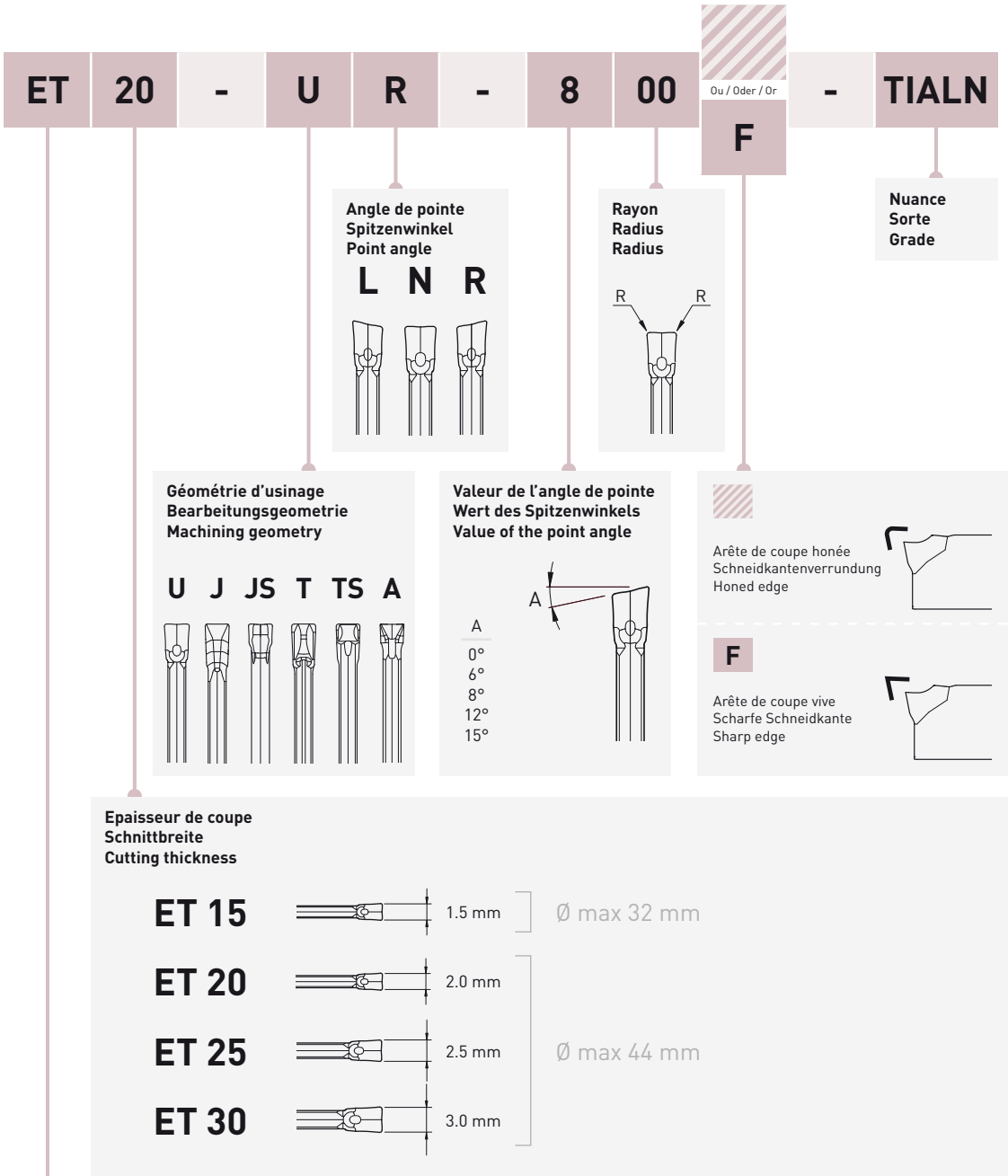
# EVO CUT-Line



APPLITEC  
CUTTING TOOLS

## Index

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|                                                                                      | <b>TS</b>        | negative geometry          | > 10.33 |
|                                                                                      | <b>A</b>         | strongly positive geometry | > 10.34 |



# EVOCUT-Line

## Infos et avantages

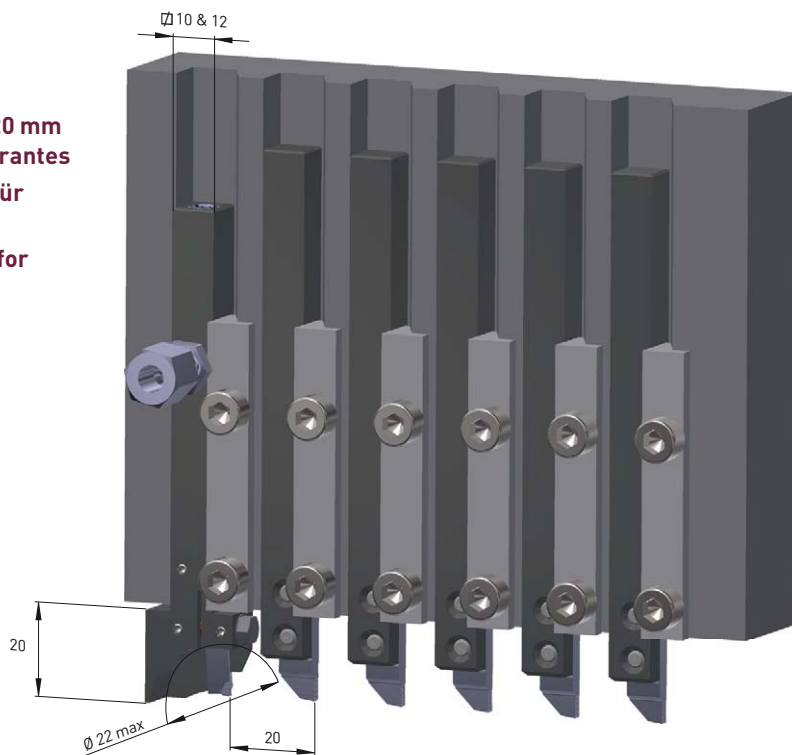
Infos und Vorteile

Infos and advantages

**Compact : seulement 20 mm  
pour les machines courantes**

**Kompakt : nur 20 mm für  
übliche Maschinen**

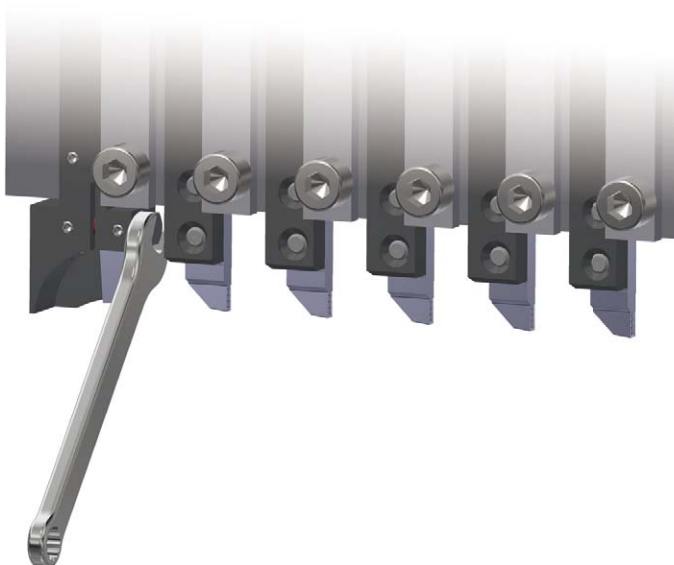
**Compact : only 20 mm for  
current machines**



**Facilité d'accès**

**Zugangsleichtigkeit**

**Excellent accessibility**



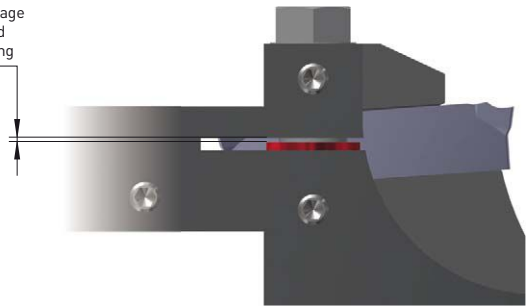
**Changement de la plaque  
sans démontage**

**Veränderung der Platte  
ohne Zerlegung**

**Change of insert  
without disassembly**

**Butée de serrage**  
**Spannungs-Anschlag**  
**Clamping stop**

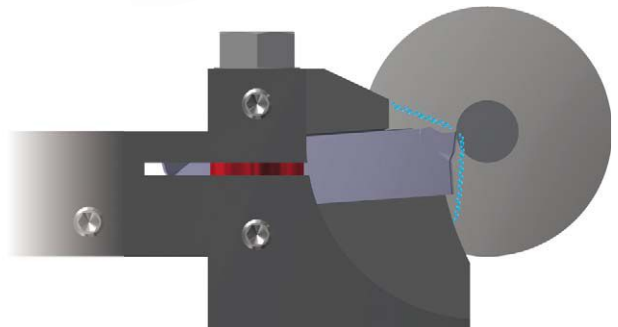
Distance de serrage  
Anschlagabstand  
Distance clamping



**Recommandations de serrage :**  
**n'utiliser que la clé fournie**  
**Spannungsempfehlungen :**  
**nur den gelieferten Schlüssel benutzen**  
**Tightening recommendation :**  
**only use the delivered key**



**Support JET à double lubrification**  
**JET Halter mit doppeltem Schmierung**  
**Jet holder with double lubrication**



# EVOCUT-Line

## Infos et avantages

Infos und Vorteile

Infos and advantages

Porte-outils / Halter / Holders

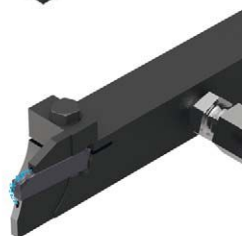
**H**

Système de serrage monobloc  
Einteiliges Klemmsystem  
Monobloc top clamp system



**H JET**

Porte-outils avec arrosage intégré  
Halter mit integrierter Kühlmittelzufuhr  
Holders with integrated coolant supply



**H-HM-JET  
GWS-HM  
MS-HM  
HSK**

Porte-lames avec arrosage  
Halter für Stechklinge mit Kühlung  
Holder for parting-off blades with coolant



**HM  
HK  
HUK**

Lames  
Stechklinge  
Parting-off blades

Plaquettes / WSP / Inserts



**U**



**J**



**JS**



**T**



**TS**



**A**

### UN

### UL UR



- géométrie positive universelle, faibles efforts de coupe
- bonne maîtrise du copeau
- 1<sup>er</sup> choix pour l'inox
- allgemeine Geometrie, geringe Schnittkräfte
- gute Spankontrolle
- 1. Wahl für rostfreiem Stahl
- all-round geometry, low cutting forces
- efficient chip control
- 1<sup>st</sup> choice for stainless steel

### JN

### JR



- géométrie universelle
- excellent rétrécissement du copeau pour un meilleur contrôle
- conseillé pour le tronçonnage de pièces à parois minces
- pour acier et inox
- allgemeine Geometrie
- ausgezeichnete Spanversmälnerung für eine bessere Spankontrolle
- für abstechen von dünnwandigen Teilen empfohlen
- für Stahl und rostfreiem Stahl
- all-round geometry
- very efficient arrow for a better chip control
- recommended for parting off of thin-walled parts
- for steel and stainless steel

### JSN



- géométrie spéciale et étroite pour un meilleur contrôle du copeau
- recommandé pour l'acier avec faible taux de carbone, alliages Chrome nickel et acier 100Cr6
- spezielle und schmale Geometrie für eine bessere Spankontrolle
- empfohlen für Stahl mit niedrigem Kohlenstoffgehalt sowie Chrom-Nickel-Legierungen und 100Cr6-Stahl
- special and narrow geometry for better chip control
- recommended for low-carbon steel, chrome-nickel alloys and 100Cr6 steel

### TN

### TR



- géométrie négative
- utilisation dans des conditions de rigidité optimale
- pour les matières à haute ténacité
- universel pour les aciers et inox
- negative Geometrie
- bei stabilen Verhältnissen einsetzbar
- für hohe widerstandsfähige Rohstoffe
- allgemein für Stahl und rostfreiem Stahl
- negative geometry
- use in solid cutting conditions
- for high toughness material
- universal for steel and stainless steel

### TSN



- géométrie négative similaire à TN pour avances modérées depuis 0.05mm/t
- conseillé pour les matières tenaces aciers et inox
- negative Geometrie ähnlich wie TN für moderate Vorschübe ab 0,05 mm/U
- Empfohlen für zähe Werkstoffe, Stahl und rostfreien Stahl
- negative geometry similar to TN for moderate feeds from 0.05 mm/rev
- recommended for tough materials, steel, and stainless steel

### AN

### AR



- géométrie fortement positive
- roule-copeaux poli avec arêtes de coupe vives
- 1<sup>er</sup> choix pour aluminium et matériaux non ferreux
- stark positive Geometrie
- geschliffene Spanrolle mit scharfe Schneidkanten
- 1. Wahl für Aluminium und Nichteisenmetalle
- very positive geometry
- polished chip roller with sharp cutting edge
- 1<sup>st</sup> choice for aluminium and non-ferrous materials

# EVOCUT-Line

## Nuances

Sorten

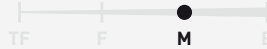
Grades

### TiAlN



#### Revêtement PVD

PVD Beschichtung  
PVD coating



|   |       |
|---|-------|
| P | ★★★★★ |
| M | ★★★★★ |
| N | ★★★★★ |
| S | ★★★★★ |

- pour l'usinage des aciers, aciers inoxydables et alliages de titane
- 1<sup>er</sup> choix pour les avances faibles à modérées

- für die Bearbeitung von Stahl, rostfreien Stahl und Titanlegierungen
- erste Wahl für niedrige bis mittlere Vorschübe

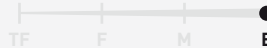
- for machining of steel, stainless steel and titanium alloys
- first choice for low to average cutting speed

### Tmax



#### Revêtement PVD

PVD Beschichtung  
PVD coating



|   |       |
|---|-------|
| P | ★★★★★ |
| M | ★★★★★ |
| N | ★★★★★ |
| S | ★★★★★ |

- nuance pour usinage moyen à lourd des aciers, aciers alliés et inoxydables
- bonne résistance aux températures d'usinage élevées
- 1<sup>er</sup> choix pour le tronçonnage des aciers au carbone et des aciers fortement alliés

- Sorte für mittlere bis hohe Belastung in Stahl und legierter Stahlbearbeitung
- gute Bearbeitungswarmfestigkeit
- erste Wahl für die Bearbeitung von legiertem Kohlenstahl und hoch legiertem Stahl

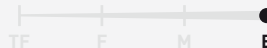
- grade for medium to heavy machining of steel, stainless steel and alloyed steel
- high machining heat resistance
- first choice for the machining of carbon steel and high alloyed steel

### Zmax



#### Revêtement PVD

PVD Beschichtung  
PVD coating



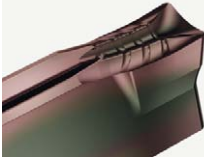
|   |       |
|---|-------|
| P | ★★★★★ |
| M | ★★★★★ |
| N | ★★★★★ |
| S | ★★★★★ |

- pour l'usinage des aciers, aciers inoxydables et alliages de titane en conditions défavorables
- bonne résistance aux chocs à des vitesses de coupe moyennes à faibles
- 1<sup>er</sup> choix pour le tronçonnage en coupe interrompue

- für die Bearbeitung von Stahl, rostfreiem Stahl und Titanlegierungen in schwierige Bearbeitungsfälle
- gute Bruchfestigkeit mit durchschnittliche bis niedrige Schnittgeschwindigkeit
- erste Wahl für die Bearbeitung in unterbrochenen Schnitte

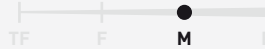
- for machining of steel, stainless steel and titanium alloys in unfavourable machining conditions
- good impact resistance with average to low cutting speed
- first choice for machining in interrupted cut

#### ZTi6



#### Revêtement CVD

CVD Beschichtung  
CVD coating



- nuance très tenace
- grande résistance à la température
- 1<sup>er</sup> choix pour les aciers « haute température »
- également recommandé pour les aciers inox

- sehr zähe Sorte
- hohe Bearbeitungswarmfestigkeit
- erste Wahl für „hohe Temperatur“ Stähle
- auch für rostfreie Stähle empfohlen

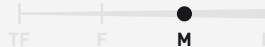
- very strong grade
- good wear resistance
- first choice for "high temperature" steels
- also recommended for stainless steels

#### AC



#### Revêtement PVD

PVD Beschichtung  
PVD coating



- nuance pour métaux non ferreux
- très faible coefficient de frottement
- 1<sup>er</sup> choix pour l'usinage des aluminiums, des cuivres et titanes faiblement alliés

- Sorte für Nichteisenmetalle
- sehr geringer Reibwert
- erste Wahl für die Bearbeitung von Aluminium, Kupfer und niedriglegiertem Titan

- grade for non-ferrous materials
- very low friction ratio
- first choice for Aluminium, copper and low alloyed titanium

#### N



#### Non revêtu

Unbeschichtet  
Uncoated



- nuance non revêtue
- recommandé pour l'usinage des matières non ferreuses
- titane, laiton, cuivre, aluminium sans silicium, plastique

- unbeschichtete Sorte
- für die Bearbeitung von Nichteisenmetalle empfohlen
- Titan, Messing, Kupfer, Silicium freies Aluminium, Kunststoff

- uncoated grade
- recommended for machining of non-ferrous materials
- titanium, brass, bronze, aluminium without silicium, plastic

# EVOCUT-Line

## Paramètres de coupe indicatifs

Empfohlene Schnittwerte

Standard machining data

★★★★★

★★★★

★★★

|                                                            |                                                                                                       |            |      |          |      | Acier<br>Stahl<br>Steel                                      |           |                                                                       |           |                                                                |           | Inox<br>Rostfreistahl<br>Stainless steel                                                  |           |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------|------|----------|------|--------------------------------------------------------------|-----------|-----------------------------------------------------------------------|-----------|----------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------|-----------|
|                                                            |                                                                                                       | ET15       | ET20 | ET25     | ET30 | Acier de décolletage<br>Automatenstahl<br>Free-cutting steel |           | Acier faiblement allié<br>Leicht legierter Stahl<br>Low alloyed steel |           | Acier fortement allié<br>Legierter Stahl<br>High alloyed steel |           | Austénitique et martensitique<br>Austenitic and martensitic<br>Austenitic and martensitic |           |
|                                                            |                                                                                                       | VC (m/min) |      | F (mm/U) |      | VC (m/min)                                                   |           | F (mm/U)                                                              |           | VC (m/min)                                                     |           | F (mm/U)                                                                                  |           |
| Avance standard<br>Standard Vorschub<br>Standard feed rate | <br><b>UN</b>        | TiAlN      | ●    | ●        | ●    | 90-140                                                       | 0.04-0.08 | 60-120                                                                | 0.04-0.08 | 50-100                                                         | 0.04-0.08 | 50-120                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Tmax       | ●    | ●        | ●    | 100-170                                                      | 0.04-0.08 | 70-150                                                                | 0.04-0.08 | 60-120                                                         | 0.04-0.08 | 60-150                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Zmax       | ●    | ●        | ●    | 80-130*                                                      | 0.04-0.10 | 50-110*                                                               | 0.04-0.10 | 50-90*                                                         | 0.04-0.10 | 50-120*                                                                                   | 0.04-0.10 |
|                                                            |                                                                                                       | ZTi6       |      | ●        | ●    | 110-200                                                      | 0.04-0.08 | 80-160                                                                | 0.04-0.08 | 70-140                                                         | 0.04-0.08 | 70-160                                                                                    | 0.04-0.08 |
|                                                            | <br><b>UR</b>        | TiAlN      | ●    | ●        | ●    | 90-140                                                       | 0.04-0.08 | 60-120                                                                | 0.04-0.08 | 50-100                                                         | 0.04-0.08 | 50-120                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Tmax       | ●    | ●        | ●    | 100-170                                                      | 0.04-0.08 | 70-150                                                                | 0.04-0.08 | 60-120                                                         | 0.04-0.08 | 60-150                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Zmax       | ●    | ●        | ●    | 80-130*                                                      | 0.04-0.10 | 50-110*                                                               | 0.04-0.10 | 50-90*                                                         | 0.04-0.10 | 50-120*                                                                                   | 0.04-0.10 |
|                                                            |                                                                                                       | ZTi6       |      | ●        | ●    | 110-200                                                      | 0.04-0.08 | 80-160                                                                | 0.04-0.08 | 70-140                                                         | 0.04-0.08 | 70-160                                                                                    | 0.04-0.08 |
|                                                            | <br><b>JN</b>        | TiAlN      | ●    | ●        | ●    | 90-140                                                       | 0.04-0.08 | 60-120                                                                | 0.04-0.08 | 50-100                                                         | 0.04-0.08 | 50-120                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Tmax       | ●    | ●        | ●    | 100-170                                                      | 0.04-0.08 | 70-150                                                                | 0.04-0.08 | 60-120                                                         | 0.04-0.08 | 60-150                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Zmax       | ●    | ●        | ●    | 80-130*                                                      | 0.04-0.10 | 50-110*                                                               | 0.04-0.10 | 50-90*                                                         | 0.04-0.10 | 50-120*                                                                                   | 0.04-0.10 |
|                                                            |                                                                                                       | ZTi6       |      | ●        | ●    | 110-200                                                      | 0.04-0.08 | 80-160                                                                | 0.04-0.08 | 70-140                                                         | 0.04-0.08 | 70-160                                                                                    | 0.04-0.08 |
|                                                            | <br><b>JR</b>        | TiAlN      | ●    | ●        | ●    | 90-140                                                       | 0.04-0.08 | 60-120                                                                | 0.04-0.08 | 50-100                                                         | 0.04-0.08 | 50-120                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Tmax       | ●    | ●        | ●    | 100-170                                                      | 0.04-0.08 | 70-150                                                                | 0.04-0.08 | 60-120                                                         | 0.04-0.08 | 60-150                                                                                    | 0.04-0.08 |
|                                                            |                                                                                                       | Zmax       | ●    | ●        | ●    | 80-130*                                                      | 0.04-0.10 | 50-110*                                                               | 0.04-0.10 | 50-90*                                                         | 0.04-0.10 | 50-120*                                                                                   | 0.04-0.10 |
|                                                            | <br><b>JSN</b>       | Tmax       |      | ●        |      | 80-150                                                       | 0.02-0.1  | 80-170                                                                | 0.02-0.1  | 50-120                                                         | 0.02-0.1  | 50-120                                                                                    | 0.02-0.1  |
|                                                            |                                                                                                       | Zmax       |      |          |      |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            | <br><b>TN</b>       | TiAlN      |      | ●        | ●    | 90-150                                                       | 0.08-0.18 | 70-130                                                                | 0.08-0.18 | 50-100                                                         | 0.08-0.15 | 50-120                                                                                    | 0.08-0.20 |
|                                                            |                                                                                                       | Tmax       |      | ●        | ●    | 100-170                                                      | 0.08-0.18 | 70-150                                                                | 0.08-0.18 | 60-120                                                         | 0.08-0.15 | 60-150                                                                                    | 0.08-0.20 |
|                                                            |                                                                                                       | Zmax       |      | ●        | ●    | 80-130*                                                      | 0.08-0.18 | 50-110*                                                               | 0.08-0.18 | 50-90*                                                         | 0.08-0.15 | 50-120*                                                                                   | 0.08-0.20 |
|                                                            |                                                                                                       | ZTi6       |      | ●        | ●    | 110-200                                                      | 0.08-0.18 | 80-160                                                                | 0.08-0.18 | 70-140                                                         | 0.08-0.15 | 70-160                                                                                    | 0.08-0.20 |
|                                                            | <br><b>TR</b>      | TiAlN      |      | ●        | ●    | 90-150                                                       | 0.08-0.18 | 70-130                                                                | 0.08-0.18 | 50-100                                                         | 0.08-0.15 | 50-120                                                                                    | 0.08-0.20 |
|                                                            |                                                                                                       | Tmax       |      | ●        | ●    | 100-170                                                      | 0.08-0.18 | 70-150                                                                | 0.08-0.18 | 60-120                                                         | 0.08-0.15 | 60-150                                                                                    | 0.08-0.20 |
|                                                            |                                                                                                       | Zmax       |      | ●        | ●    | 80-130*                                                      | 0.08-0.18 | 50-110*                                                               | 0.08-0.18 | 50-90*                                                         | 0.08-0.15 | 50-120*                                                                                   | 0.08-0.20 |
|                                                            |                                                                                                       | ZTi6       |      |          | ●    | 110-200                                                      | 0.08-0.18 | 80-160                                                                | 0.08-0.18 | 70-140                                                         | 0.08-0.15 | 70-160                                                                                    | 0.08-0.20 |
|                                                            | <br><b>TSN</b>     | Tmax       |      | ●        |      | 80-150                                                       | 0.05-0.15 | 80-170                                                                | 0.05-0.15 | 50-120                                                         | 0.05-0.15 | 50-120                                                                                    | 0.05-0.15 |
|                                                            |                                                                                                       | Zmax       |      | ●        |      | 80-130                                                       | 0.05-0.15 | 80-150                                                                | 0.05-0.15 | 50-100                                                         | 0.05-0.15 | 50-100                                                                                    | 0.05-0.15 |
| Avance modérée<br>Niedriger Vorschub<br>Low feed rate      | <br><b>UN-000F</b> | TiAlN      | ●    | ●        | ●    | 80-120                                                       | 0.02-0.05 | 50-100                                                                | 0.02-0.05 | 40-80                                                          | 0.02-0.05 | 40-100                                                                                    | 0.02-0.05 |
|                                                            |                                                                                                       | Zmax       |      |          |      |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            | <br><b>UR/ULF</b>  | TiAlN      | ●    | ●        | ●    | 80-120                                                       | 0.02-0.05 | 50-100                                                                | 0.02-0.05 | 40-80                                                          | 0.02-0.05 | 40-100                                                                                    | 0.02-0.05 |
|                                                            |                                                                                                       | Zmax       |      |          |      |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            | <br><b>ANF</b>     | N          |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            |                                                                                                       | TiAlN      |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           | 40-80                                                                                     | 0.02-0.05 |
|                                                            |                                                                                                       | AC         |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            | <br><b>ARF</b>     | N          |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |
|                                                            |                                                                                                       | TiAlN      |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           | 40-80                                                                                     | 0.02-0.05 |
|                                                            |                                                                                                       | AC         |      | ●        | ●    |                                                              |           |                                                                       |           |                                                                |           |                                                                                           |           |

\* premier choix en cas de coupe interrompue

\*\* arête de coupe vive

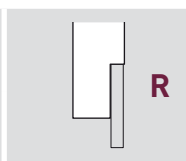
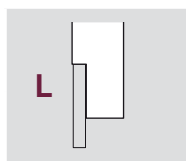
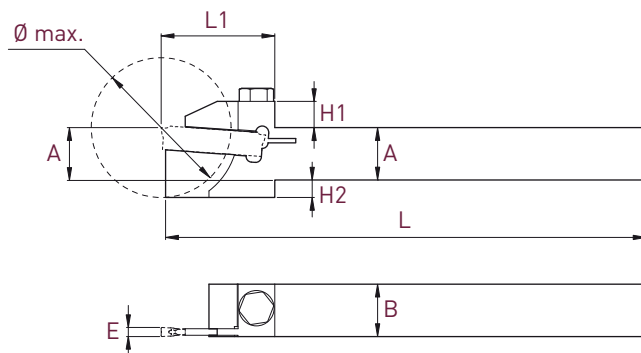
\* erste Wahl für unterbrochener Schnitt

\*\* scharfe Schneidkante

\* first choice for interrupted cut

\*\* sharp cutting edge

| N Alliages d'aluminium et non ferreux<br>Aluminium- und Nichteisenlegierungen<br>Aluminium and non-ferrous alloys |           |                                                                                |           |                            |           |                                                       |           | S Titane<br>Titan<br>Titanium |           |            |           |
|-------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------|-----------|----------------------------|-----------|-------------------------------------------------------|-----------|-------------------------------|-----------|------------|-----------|
| Aluminium                                                                                                         |           | Alu silicium max. 5%<br>Aluminiumsilicium max. 5%<br>Aluminium silicon max. 5% |           | Cuivre<br>Kupfer<br>Copper |           | Laiton & bronze<br>Messing & Bronze<br>Brass & bronze |           | Gr. 1 - 3                     |           | Gr. 4 - 5  |           |
| VC (m/min)                                                                                                        | F (mm/U)  | VC (m/min)                                                                     | F (mm/U)  | VC (m/min)                 | F (mm/U)  | VC (m/min)                                            | F (mm/U)  | VC (m/min)                    | F (mm/U)  | VC (m/min) | F (mm/U)  |
| 100-250                                                                                                           | 0.03-0.10 | 100-250                                                                        | 0.03-0.10 | 100-300                    | 0.03-0.10 | 100-300                                               | 0.03-0.10 |                               |           | 50-100     | 0.04-0.08 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-250                                                                                                           | 0.03-0.10 | 100-250                                                                        | 0.03-0.10 | 100-300                    | 0.03-0.10 | 100-300                                               | 0.03-0.10 |                               |           | 50-100     | 0.04-0.08 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-250                                                                                                           | 0.03-0.10 | 100-250                                                                        | 0.03-0.10 | 100-300                    | 0.03-0.10 | 100-300                                               | 0.03-0.10 |                               |           | 50-100     | 0.04-0.08 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-250                                                                                                           | 0.03-0.10 | 100-250                                                                        | 0.03-0.10 | 100-300                    | 0.03-0.10 | 100-300                                               | 0.03-0.10 |                               |           | 50-100     | 0.04-0.08 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-300                                                                                                           | 0.02-0.1  | 100-300                                                                        | 0.02-0.1  | 100-300                    | 0.02-0.1  | 100-300                                               | 0.02-0.1  | 50-120                        | 0.02-0.1  | 30-50      | 0.02-0.1  |
|                                                                                                                   |           |                                                                                |           |                            |           | 150-300                                               | 0.05-0.20 |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           | 150-300                                               | 0.05-0.20 |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           | 100-300                                               | 0.05-0.15 |                               |           |            |           |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-300                                                                                                           | 0.02-0.06 | 100-200                                                                        | 0.01-0.05 | 100-250                    | 0.01-0.05 | 100-300                                               | 0.02-0.06 |                               |           | 50-100     | 0.01-0.06 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 100-300                                                                                                           | 0.02-0.06 | 100-200                                                                        | 0.01-0.05 | 100-250                    | 0.01-0.05 | 100-300                                               | 0.02-0.06 |                               |           | 50-100     | 0.01-0.06 |
|                                                                                                                   |           |                                                                                |           |                            |           |                                                       |           |                               |           |            |           |
| 80-200                                                                                                            | 0.02-0.06 |                                                                                |           | 80-200                     | 0.01-0.05 | 80-200                                                | 0.02-0.06 | 50-100                        | 0.01-0.06 | 50-100     | 0.01-0.06 |
| 100-250                                                                                                           | 0.02-0.06 | 80-150                                                                         | 0.01-0.05 | 100-200                    | 0.01-0.05 | 80-200                                                | 0.02-0.06 |                               |           | 30-80      | 0.01-0.06 |
| 100-300                                                                                                           | 0.02-0.06 | 100-200                                                                        | 0.01-0.05 | 100-250                    | 0.01-0.05 | 100-300                                               | 0.02-0.06 | 50-120                        | 0.01-0.06 | 50-120     | 0.01-0.06 |
| 80-200                                                                                                            | 0.02-0.06 |                                                                                |           | 80-200                     | 0.01-0.05 | 80-200                                                | 0.02-0.06 | 50-100                        | 0.01-0.06 | 50-100     | 0.01-0.06 |
| 100-250                                                                                                           | 0.02-0.06 | 80-150                                                                         | 0.01-0.05 | 100-200                    | 0.01-0.05 | 80-200                                                | 0.02-0.06 |                               |           | 30-80      | 0.01-0.06 |
| 100-300                                                                                                           | 0.02-0.06 | 100-200                                                                        | 0.01-0.05 | 100-250                    | 0.01-0.05 | 100-300                                               | 0.02-0.06 | 50-120                        | 0.01-0.06 | 50-120     | 0.01-0.06 |



Pièces de rechange et accessoires  
Ersatzteile und Zubehör  
Spare parts and accessories



| Plaquettes<br>WSP<br>Inserts               | A x B     | L   | Ø<br>max. | L1 | H1 | H2 | Art. N°         | Art. N°         | Art. N°     | Art. N°    |
|--------------------------------------------|-----------|-----|-----------|----|----|----|-----------------|-----------------|-------------|------------|
| <b>E</b><br>1.5<br><br><b>Type</b><br>ET15 | 10x12     | 110 | 22        | 20 | 5  | 6  | ET15-H1012L-D22 | ET15-H1012R-D22 | V-M5X20-6P6 | C-6PEX-6.0 |
|                                            | 12x12     | 110 | 22        | 20 | 5  | 4  | ET15-H1212L-D22 | ET15-H1212R-D22 |             |            |
|                                            | 12.7x12.7 | 110 | 22        | 20 | 5  | 3  | ET15-H12.7L-D22 | ET15-H12.7R-D22 |             |            |
|                                            | 12x12     | 110 | 32        | 26 | 6  | 4  | ET15-H1212L-D32 | ET15-H1212R-D32 | V-M5X21-6P7 | C-6PEX-7.0 |
|                                            | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET15-H12.7L-D32 | ET15-H12.7R-D32 |             |            |
|                                            | 16x16     | 110 | 32        | 26 | 6  | -  | ET15-H1616L-D32 | ET15-H1616R-D32 |             |            |
| <b>E</b><br>2.0<br><br><b>Type</b><br>ET20 | 10x12     | 110 | 22        | 20 | 5  | 6  | ET20-H1012L-D22 | ET20-H1012R-D22 | V-M5X20-6P6 | C-6PEX-6.0 |
|                                            | 12x12     | 110 | 22        | 20 | 5  | 4  | ET20-H1212L-D22 | ET20-H1212R-D22 |             |            |
|                                            | 12.7x12.7 | 110 | 22        | 20 | 5  | 3  | ET20-H12.7L-D22 | ET20-H12.7R-D22 |             |            |
|                                            | 12x12     | 110 | 32        | 26 | 6  | 4  | ET20-H1212L-D32 | ET20-H1212R-D32 | V-M5X21-6P7 | C-6PEX-7.0 |
|                                            | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET20-H12.7L-D32 | ET20-H12.7R-D32 |             |            |
|                                            | 16x16     | 110 | 32        | 26 | 6  | -  | ET20-H1616L-D32 | ET20-H1616R-D32 |             |            |
| <b>E</b><br>2.5<br><br><b>Type</b><br>ET25 | 16x16     | 110 | 32        | 26 | 6  | 4  | ET20-H1616L-D44 | ET20-H1616R-D44 | V-M5X27-6P7 | C-6PEX-7.0 |
|                                            | 20x20     | 130 | 44        | 35 | 8  | 4  | ET20-H2020L-D44 | ET20-H2020R-D44 |             |            |
|                                            | 20x20     | 130 | 44        | 35 | 8  | -  | ET20-H2020L-D44 | ET20-H2020R-D44 |             |            |
|                                            | 10x12     | 110 | 22        | 20 | 5  | 6  | ET25-H1012L-D22 | ET25-H1012R-D22 | V-M5X20-6P6 | C-6PEX-6.0 |
|                                            | 12x12     | 110 | 22        | 20 | 5  | 4  | ET25-H1212L-D22 | ET25-H1212R-D22 |             |            |
|                                            | 12.7x12.7 | 110 | 22        | 20 | 5  | 3  | ET25-H12.7L-D22 | ET25-H12.7R-D22 |             |            |
| <b>E</b><br>3.0<br><br><b>Type</b><br>ET30 | 12x12     | 110 | 32        | 26 | 6  | 4  | ET25-H1212L-D32 | ET25-H1212R-D32 | V-M5X21-6P7 | C-6PEX-7.0 |
|                                            | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET25-H12.7L-D32 | ET25-H12.7R-D32 |             |            |
|                                            | 16x16     | 110 | 32        | 26 | 6  | -  | ET25-H1616L-D32 | ET25-H1616R-D32 |             |            |
|                                            | 16x16     | 130 | 44        | 35 | 8  | 4  | ET25-H1616L-D44 | ET25-H1616R-D44 | V-M5X27-6P7 | C-6PEX-7.0 |
|                                            | 20x20     | 130 | 44        | 35 | 8  | -  | ET25-H2020L-D44 | ET25-H2020R-D44 |             |            |
|                                            | 25x25     | 140 | 44        | 35 | 8  | -  | ET25-H2525L-D44 | ET25-H2525R-D44 |             |            |

\* livré avec chaque porte-outil  
mit jedem Halter geliefert  
delivered with each holder

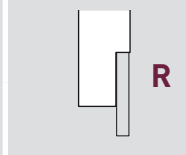
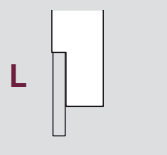
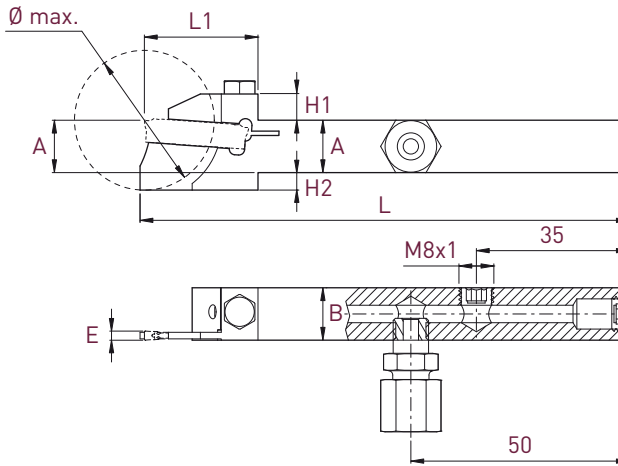
Porte-outils avec arrosage intégré

Halter mit integrierter Kühlmittelzufuhr

Holders with integrated coolant supply

Ø max 44 mm

H JET



Pièces de rechange et accessoires  
Ersatzteile und Zubehör  
Spare parts and accessories



| Plaquettes<br>WSP<br>Inserts           | A x B     | L   | Ø<br>max. | L1 | H1 | H2 | Art. N°           | Art. N°           |
|----------------------------------------|-----------|-----|-----------|----|----|----|-------------------|-------------------|
| <b>E</b><br>2.0<br><b>Type</b><br>ET20 | 10x12     | 110 | 22        | 20 | 5  | 6  | ET20-H1012L-JET22 | ET20-H1012R-JET22 |
|                                        | 12x12     | 110 | 22        | 20 | 5  | 4  | ET20-H1212L-JET22 | ET20-H1212R-JET22 |
|                                        | 12.7x12.7 | 110 | 22        | 20 | 5  | 3  | ET20-H12.7L-JET22 | ET20-H12.7R-JET22 |
|                                        | 12x12     | 110 | 32        | 26 | 6  | 4  | ET20-H1212L-JET32 | ET20-H1212R-JET32 |
|                                        | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET20-H12.7L-JET32 | ET20-H12.7R-JET32 |
|                                        | 16x16     | 110 | 32        | 26 | 6  | -  | ET20-H1616L-JET32 | ET20-H1616R-JET32 |
|                                        | 16x16     | 130 | 44        | 35 | 8  | 4  | ET20-H1616L-JET44 | ET20-H1616R-JET44 |
| <b>E</b><br>2.5<br><b>Type</b><br>ET25 | 10x12     | 110 | 22        | 20 | 5  | 6  | ET25-H1012L-JET22 | ET25-H1012R-JET22 |
|                                        | 12x12     | 110 | 22        | 20 | 5  | 4  | ET25-H1212L-JET22 | ET25-H1212R-JET22 |
|                                        | 12.7x12.7 | 110 | 22        | 20 | 5  | 3  | ET25-H12.7L-JET22 | ET25-H12.7R-JET22 |
|                                        | 12x12     | 110 | 32        | 26 | 6  | 4  | ET25-H1212L-JET32 | ET25-H1212R-JET32 |
|                                        | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET25-H12.7L-JET32 | ET25-H12.7R-JET32 |
|                                        | 16x16     | 110 | 32        | 26 | 6  | -  | ET25-H1616L-JET32 | ET25-H1616R-JET32 |
|                                        | 16x16     | 130 | 44        | 35 | 8  | 4  | ET25-H1616L-JET44 | ET25-H1616R-JET44 |
| <b>E</b><br>3.0<br><b>Type</b><br>ET30 | 12.7x12.7 | 110 | 32        | 26 | 6  | 3  | ET30-H12.7L-JET32 | ET30-H12.7R-JET32 |
|                                        | 16x16     | 110 | 32        | 26 | 6  | -  | ET30-H1616L-JET32 | ET30-H1616R-JET32 |
|                                        | 16x16     | 130 | 44        | 35 | 8  | 4  | ET30-H1616L-JET44 | ET30-H1616R-JET44 |
|                                        | 20x20     | 130 | 44        | 35 | 8  | -  | ET30-H2020L-JET44 | ET30-H2020R-JET44 |
|                                        | 25x25     | 140 | 44        | 35 | 8  | -  | ET30-H2525L-JET44 | ET30-H2525R-JET44 |

| Art. N°       | Art. N°    |
|---------------|------------|
| V-M5X20-6P6-J | C-6PEX-6.0 |
| V-M5X21-6P7-J | C-6PEX-7.0 |
| V-M5X27-6P7-J | C-6PEX-7.0 |
| V-M5X20-6P6-J | C-6PEX-6.0 |
| V-M5X21-6P7-J | C-6PEX-7.0 |
| V-M5X27-6P7-J | C-6PEX-7.0 |
| V-M5X21-6P7-J | C-6PEX-7.0 |
| V-M5X27-6P7-J | C-6PEX-7.0 |

Pièces de rechange  
Ersatzteile  
Spare parts



Art. N°

Art. N°

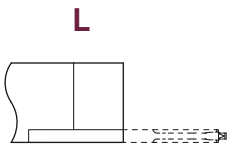
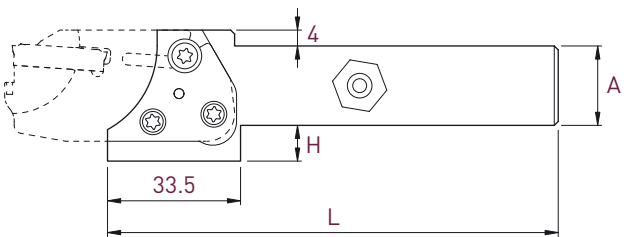
J-M8X1-D6

JB-M8X1

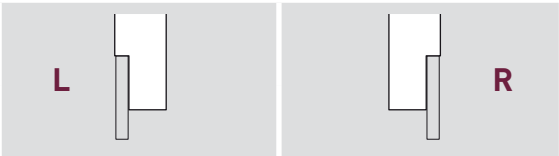
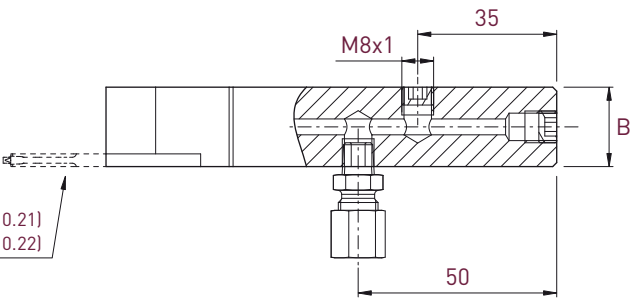
\* Livré avec chaque porte-outil  
mit jedem Halter geliefert  
delivered with each holder

H-HM-JET

Porte-lames avec arrosage intégré  
Halter für Stechklinge mit Kühlmittelzufuhr  
Holder for parting-off blades with integrated coolant supply

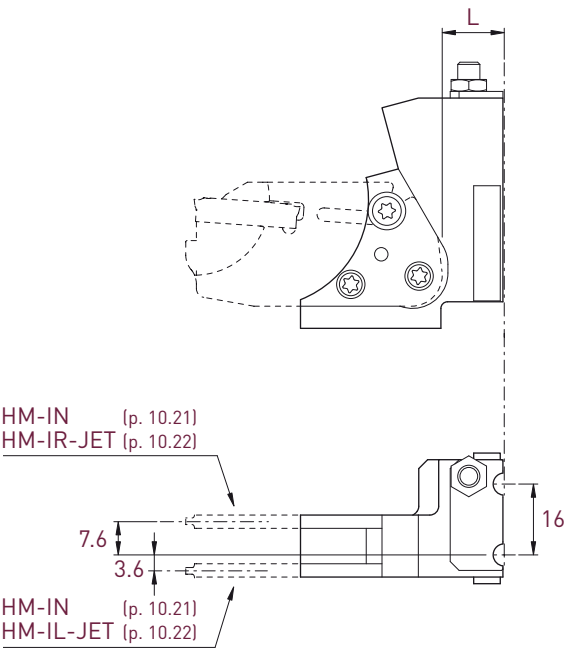


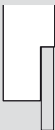
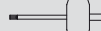
HM-IN (p. 10.21)  
HM-IL-JET (p. 10.22)

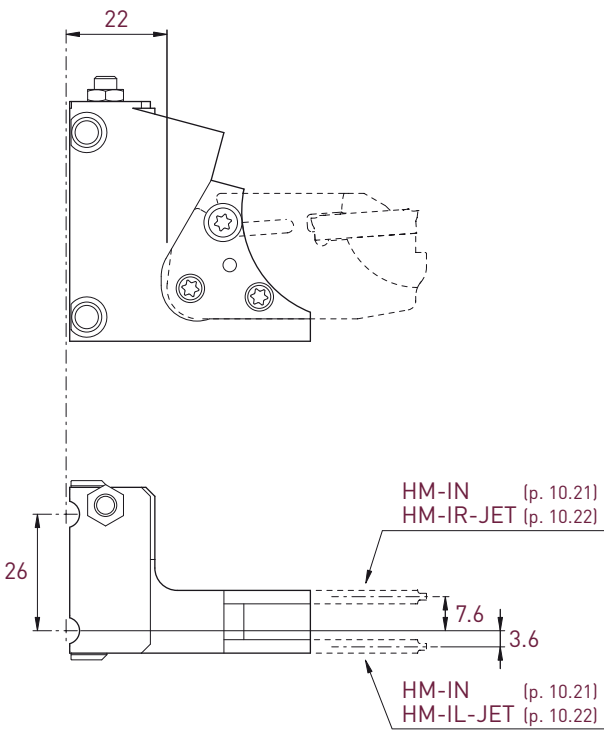


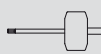
| A x B | L     | H  | Art. N°       | Art. N°       |
|-------|-------|----|---------------|---------------|
| 16x16 | 113.5 | 13 | H1616L-HM-JET | H1616R-HM-JET |
| 20x20 | 113.5 | 9  | H2020L-HM-JET | H2020R-HM-JET |
| 25x25 | 138.5 | 4  | H2525L-HM-JET | H2525R-HM-JET |

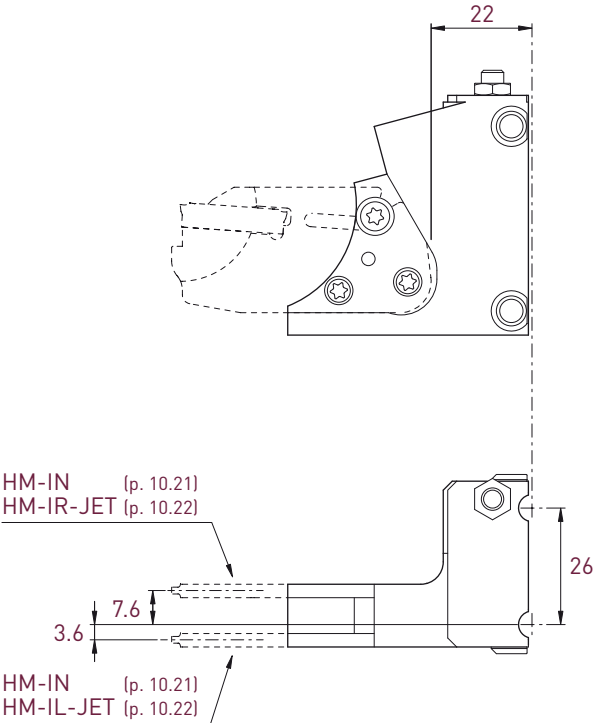
| Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories |               |           |         | Options |
|---------------------------------------------------------------------------------------------|---------------|-----------|---------|---------|
|                                                                                             |               |           |         |         |
| Art. N°                                                                                     | Art. N°       | Art. N°   | Art. N° | Art. N° |
| V-M5X10-T20IP                                                                               | V-M6X10-T20IP | J-M8X1-D6 | JB-M8X1 | C-T20IP |

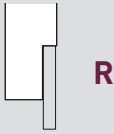


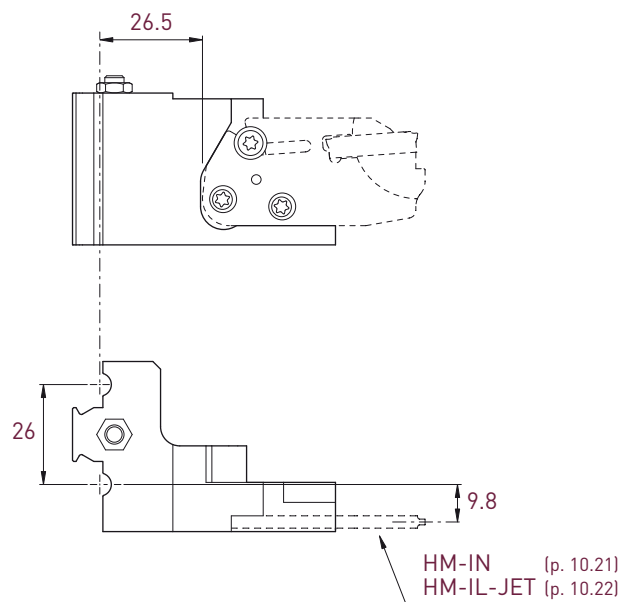
|              |                       |    | <br><b>R</b> | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories |                                                                                      | Options                                                                               |
|--------------|-----------------------|----|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Interface    | Machine compatibility | L  | Art. N°                                                                                         |          |  |  |
| <b>GWS02</b> | AS14                  | 14 | <b>GWS02R-02001-HM-JET</b>                                                                      | <b>V-M5X10-T20IP</b>                                                                        | <b>V-M6X10-T20IP</b>                                                                 | <b>C-T20IP</b>                                                                        |
|              | SAS16                 |    |                                                                                                 |                                                                                             |                                                                                      |                                                                                       |
|              | SBS20                 |    |                                                                                                 |                                                                                             |                                                                                      |                                                                                       |
|              | Others                | 22 | <b>GWS02R-02002-HM-JET</b>                                                                      |                                                                                             |                                                                                      |                                                                                       |

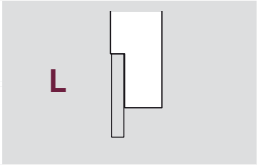


| Interface | Machine compatibility | <div></div><br>Art. N° | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories    |                                                                                                 | Options                                                                                          |
|-----------|-----------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|           |                       |                                                                                                           | <br>Art. N° | <br>Art. N° | <br>Art. N° |
| GWS41     | MultiSwiss 6X16       | GWS41L-41001-HM-JET                                                                                       | V-M5X10-T20IP                                                                                  | V-M6X10-T20IP                                                                                   | C-T20IP                                                                                          |
|           | MultiDeco 20X6        |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 20X8        |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 26X6        |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 32X6        |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiAlpha 20X8       |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiSigma 24X8       |                                                                                                           |                                                                                                |                                                                                                 |                                                                                                  |



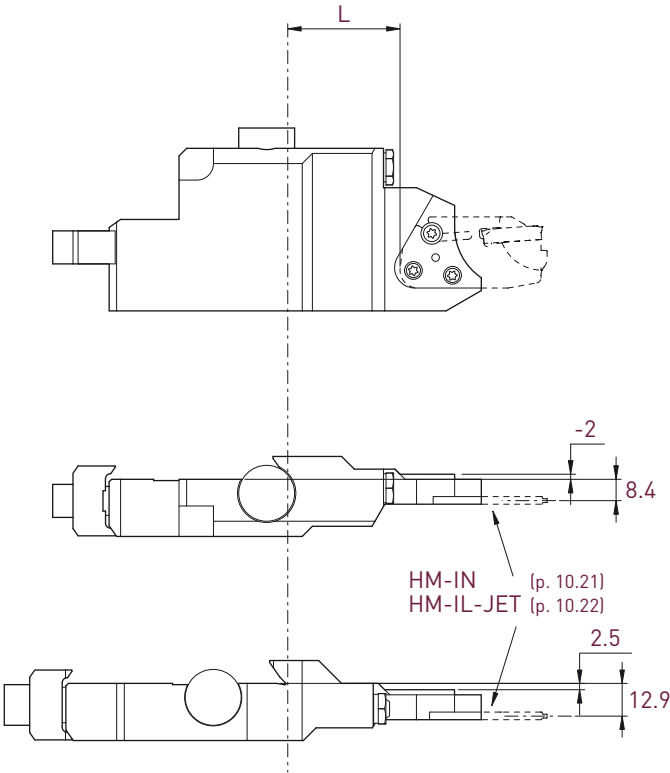
| Interface | Machine compatibility | <br>Art. N° | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories    |                                                                                                 | Options                                                                                          |
|-----------|-----------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|           |                       |                                                                                                | <br>Art. N° | <br>Art. N° | <br>Art. N° |
| GWS41     | MultiSwiss 6X16       | GWS41R-41002-HM-JET                                                                            | V-M5X10-T20IP                                                                                  | V-M6X10-T20IP                                                                                   | C-T20IP                                                                                          |
|           | MultiDeco 20X6        |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 20X8        |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 26X6        |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiDeco 32X6        |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiAlpha 20X8       |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |
|           | MultiSigma 24X8       |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |



|           |                                    |  | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories |                                                                                      | Options                                                                               |
|-----------|------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Interface | Machine compatibility              |                                                                                     |          |  |  |
|           |                                    | Art. N°                                                                             | Art. N°                                                                                     | Art. N°                                                                              | Art. N°                                                                               |
| GWS202    | MultiSwiss 6X32<br>MultiSwiss 8X26 | GWS202L-202001-HM-JET                                                               | V-M5X10-T20IP                                                                               | V-M6X10-T20IP                                                                        | C-T20IP                                                                               |

MS22

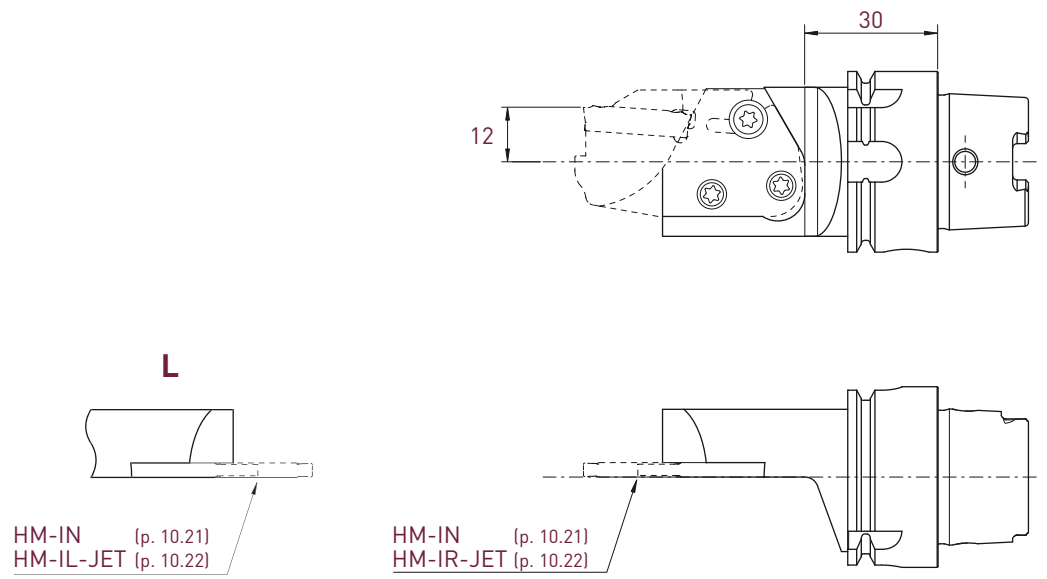
MS32-40



| Machine compatibility | L    | Art. N°                 | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories |               | Options |
|-----------------------|------|-------------------------|---------------------------------------------------------------------------------------------|---------------|---------|
|                       |      |                         | Art. N°                                                                                     | Art. N°       | Art. N° |
| MS22                  | 44.2 | MS22-W5190231-HM-JET    | V-M5X10-T20IP                                                                               | V-M6X10-T20IP | C-T20IP |
| MS32-40               | 45.5 | MS32-40-W5190233-HM-JET |                                                                                             |               |         |

HSK-JET

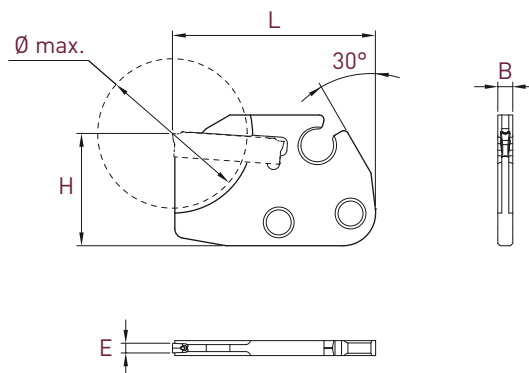
Porte-outils HSK pour porte-lames avec arrosage intégré  
HSK Halter Stechklingen mit integrierter Kühlmittelzufuhr  
HSK holder for parting-off blades with integrated coolant supply



|                                                                                     |  |                                                                                     |  |                                                                                             |  |                          |
|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|--------------------------|
|  |  |  |  | Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories |  | Options                  |
|  |  |  |  |        |  |                          |
| Art. N°                                                                             |  | Art. N°                                                                             |  | Art. N°                                                                                     |  |                          |
| HSK-T40-L-HM-JET                                                                    |  | HSK-T40-R-HM-JET                                                                    |  | V-M5X10-T20IP                                                                               |  | V-M6X10-T20IP<br>C-T20IP |

**Lames pour système modulaire**  
 Stechklinge für modulares System  
 Parting-off blades for modular system

**HM**

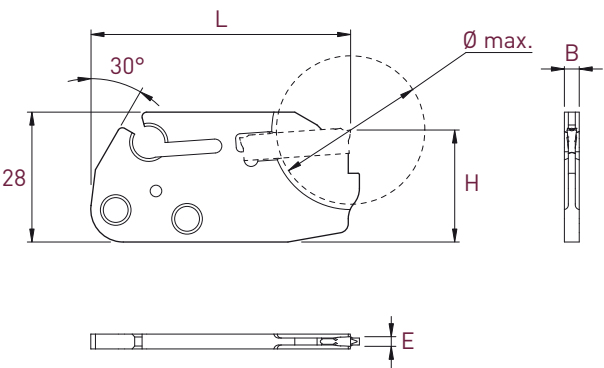


**N**

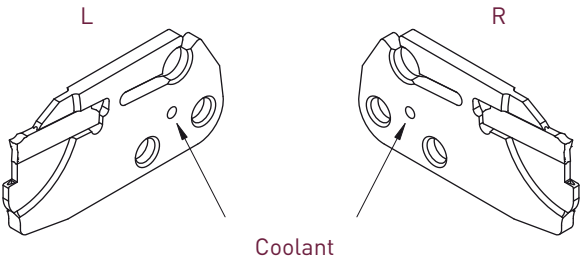
| Plaquettes<br>WSP<br>Inserts | Ø<br>max. | B   | L    | H  | Art. N°                  |
|------------------------------|-----------|-----|------|----|--------------------------|
| <b>E</b><br>1.5              | 20        | 3.2 | 43.5 | 24 | <b>ET15-HM-IN-43-D20</b> |
| <b>Type</b><br>ET15          | 32        | 3.2 | 43.5 | 24 | <b>ET15-HM-IN-43-D32</b> |
| <b>E</b><br>2.0              | 20        | 3.2 | 43.5 | 24 | <b>ET20-HM-IN-43-D20</b> |
|                              | 26        | 3.2 | 43.5 | 24 | <b>ET20-HM-IN-43-D26</b> |
| <b>Type</b><br>ET20          | 26        | 3.2 | 54   | 24 | <b>ET20-HM-IN-54-D26</b> |
|                              | 32        | 3.2 | 43.5 | 24 | <b>ET20-HM-IN-43-D32</b> |
| <b>E</b><br>3.0              | 32        | 3.2 | 43.5 | 24 | <b>ET30-HM-IN-43-D32</b> |
| <b>Type</b><br>ET30          |           |     |      |    |                          |

HM-JET

Lames avec arrosage intégré  
Stecklinge mit integrierter Kühlmittelzufuhr  
Parting-off blades with integrated coolant supply



|                                     |           |     |      |    | <div> <div>L</div> <div>R</div> </div> |                       |
|-------------------------------------|-----------|-----|------|----|----------------------------------------|-----------------------|
| Plaquettes<br>WSP<br>Inserts        | Ø<br>max. | B   | L    | H  | Art. N°                                | Art. N°               |
| <b>E</b><br>2.0<br><br>Type<br>ET20 | 20        | 3.2 | 48.5 | 24 | ET20-HM-IL-48.5-JET20                  | ET20-HM-IR-48.5-JET20 |
|                                     | 24        |     | 48.5 |    | ET20-HM-IL-48.5-JET24                  | ET20-HM-IR-48.5-JET24 |
|                                     | 32        |     | 45.5 |    | ET20-HM-IL-45.5-JET32                  | ET20-HM-IR-45.5-JET32 |
|                                     | 32        |     | 56   |    | ET20-HM-IL-56-JET32                    | ET20-HM-IR-56-JET32   |
|                                     | 42        |     | 48.5 |    | ET20-HM-IL-48.5-JET42                  | ET20-HM-IR-48.5-JET42 |
| <b>E</b><br>3.0<br>Type<br>ET30     | 32        | 3.2 | 45.5 | 24 | ET30-HM-IL-45.5-JET32                  | ET30-HM-IR-45.5-JET32 |
|                                     | 44        |     | 48.5 |    | ET30-HM-IL-48.5-JET42                  | ET30-HM-IR-48.5-JET42 |

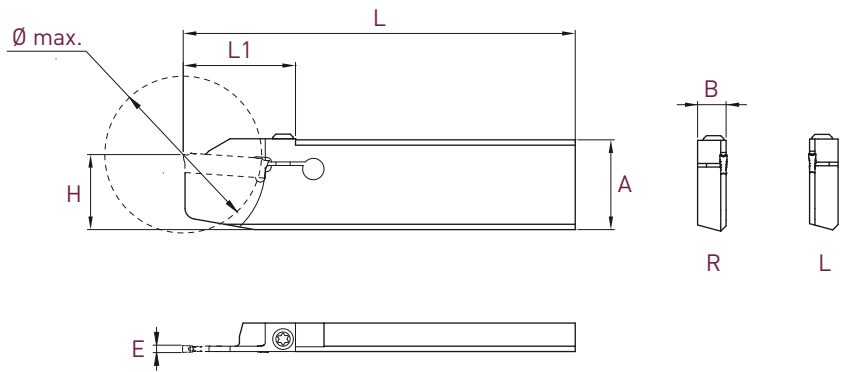


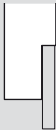
Lames de tronçonnage

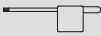
Stechklinge

Parting-off blades

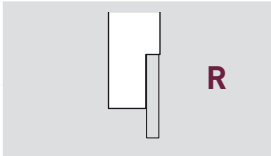
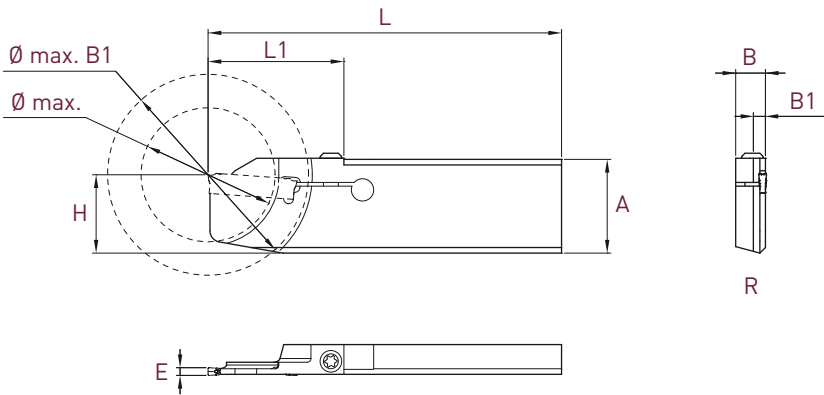
HK



|                                        |       |     |        |      |    |  |  |
|----------------------------------------|-------|-----|--------|------|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Plaquettes WSP<br>Inserts              | A x B | L   | Ø max. | L1   | H  | Art. N°                                                                           | Art. N°                                                                             |
| <b>E</b><br>1.5<br><b>Type</b><br>ET15 | 26x8  | 110 | 20     | 19.5 | 21 | <b>ET15-HK-2608L-110-D20</b>                                                      | <b>ET15-HK-2608R-110-D20</b>                                                        |
|                                        | 26x8  | 110 | 32     | 25.5 | 21 | <b>ET15-HK-2608L-110-D32</b>                                                      | <b>ET15-HK-2608R-110-D32</b>                                                        |
| <b>E</b><br>2.0<br><b>Type</b><br>ET20 | 26x8  | 110 | 32     | 25.5 | 21 | <b>ET20-HK-2608L-110-D32</b>                                                      | <b>ET20-HK-2608R-110-D32</b>                                                        |
|                                        | 26x8  | 110 | 44     | 31.5 | 21 | <b>ET20-HK-2608L-110-D44</b>                                                      | <b>ET20-HK-2608R-110-D44</b>                                                        |

| Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories | Options                                                                             |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  *       |  |
| Art. N°                                                                                     | Art. N°                                                                             |
| <b>V-M4X14.5-T15-EVOCUT</b>                                                                 | <b>C-T15</b>                                                                        |

\* livré avec chaque lame  
mit jedem Stechkling geliefert  
delivered with each blade



| Plaquettes<br>WSP<br>Inserts    | A x B | L  | Ø<br>max. | Ø<br>max. B1 | B1   | L1   | H  | Art. N°               |
|---------------------------------|-------|----|-----------|--------------|------|------|----|-----------------------|
| <b>E</b><br>1.5<br>Type<br>ET15 | 26x8  | 95 | 36        | 54           | 3.25 | 36.5 | 21 | ET15-HK-2608RS-95-D36 |
| <b>E</b><br>2.0<br>Type<br>ET20 | 26x8  | 95 | 36        | 54           | 3.25 | 36.5 | 21 | ET20-HK-2608RS-95-D36 |

| Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories | Options                                                                             |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  *       |  |
| Art. N°                                                                                     | Art. N°                                                                             |
| V-M4X14.5-T15-EVOCUT                                                                        | C-T15                                                                               |

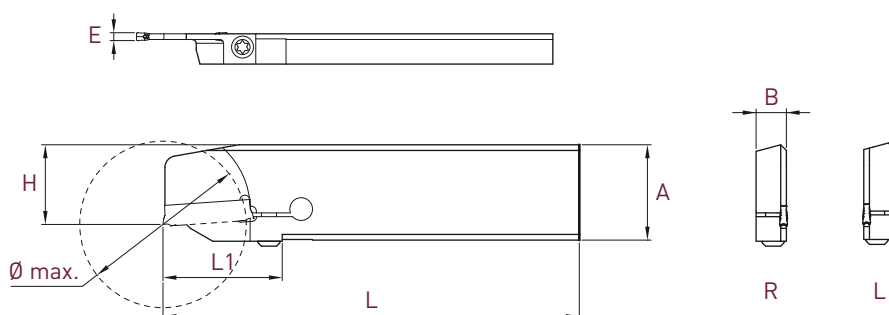
\* livré avec chaque lame  
mit jedem Stechkling geliefert  
delivered with each blade

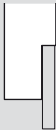
**Lames de tronçonnage inversées**

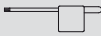
Überkopf Stechklinge

Upside down parting-off blades

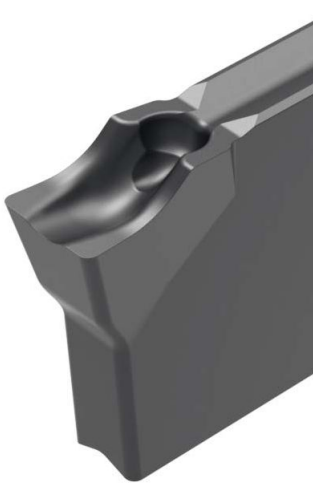
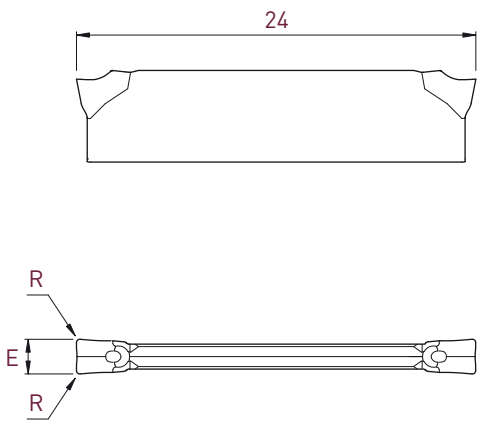
**HUK**



|                                 |       |     |        |      |    |  |  |
|---------------------------------|-------|-----|--------|------|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Plaquettes WSP<br>Inserts       | A x B | L   | Ø max. | L1   | H  | Art. N°                                                                           | Art. N°                                                                             |
| <b>E</b><br>1.5<br>Type<br>ET15 | 26x8  | 110 | 20     | 19.5 | 21 | <b>ET15-HUK-2608L-110-D20</b>                                                     | <b>ET15-HUK-2608R-110-D20</b>                                                       |
|                                 | 26x8  | 110 | 32     | 25.5 | 21 | <b>ET15-HUK-2608L-110-D32</b>                                                     | <b>ET15-HUK-2608R-110-D32</b>                                                       |
| <b>E</b><br>2.0<br>Type<br>ET20 | 26x8  | 110 | 32     | 25.5 | 21 | <b>ET20-HUK-2608L-110-D32</b>                                                     | <b>ET20-HUK-2608R-110-D32</b>                                                       |
|                                 | 26x8  | 110 | 44     | 31.5 | 21 | <b>ET20-HUK-2608L-110-D44</b>                                                     | <b>ET20-HUK-2608R-110-D44</b>                                                       |

| Pièces de rechange et accessoires<br>Ersatzteile und Zubehör<br>Spare parts and accessories | Options                                                                             |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  *       |  |
| Art. N°                                                                                     | Art. N°                                                                             |
| <b>V-M4X14.5-T15-EVOCUT</b>                                                                 | <b>C-T15</b>                                                                        |

\* livré avec chaque lame  
mit jedem Steckling geliefert  
delivered with each blade



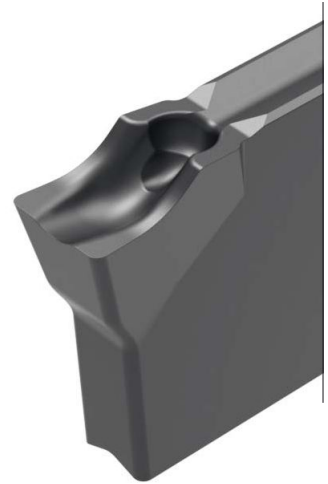
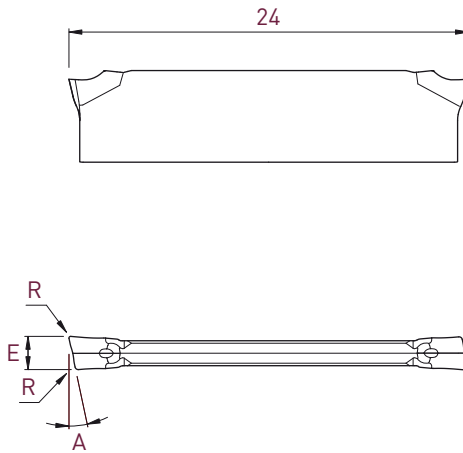
| UN   |         |     |              |                                                                                                                            |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
|------|---------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|--|--|--|---|--|--|--|
| Type | E ±0.05 | R   | Art. N°      | <table><tr><td>P</td><td>P</td><td>P</td><td>P</td></tr><tr><td>M</td><td>M</td><td>M</td><td>M</td></tr><tr><td>N</td><td></td><td></td><td></td></tr><tr><td>S</td><td></td><td></td><td></td></tr></table> | P | P | P | P | M | M | M | M | N |  |  |  | S |  |  |  |
| P    | P       | P   | P            |                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| M    | M       | M   | M            |                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| N    |         |     |              |                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| S    |         |     |              |                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| ET15 | 1.35    | 0   | ET15-UN-000F | •                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
|      | 1.5     | 0.2 | ET15-UN-002  | • • •                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| ET20 | 1.85    | 0   | ET20-UN-000F | •                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
|      | 2.0     | 0.2 | ET20-UN-002  | • • • •                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| ET25 | 2.35    | 0   | ET25-UN-000F | •                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
|      | 2.5     | 0.3 | ET25-UN-003  | • • • •                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
| ET30 | 2.85    | 0   | ET30-UN-000F | •                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |
|      | 3.0     | 0.3 | ET30-UN-003  | • • • •                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |  |  |  |   |  |  |  |

Plaquettes de tronçonnage

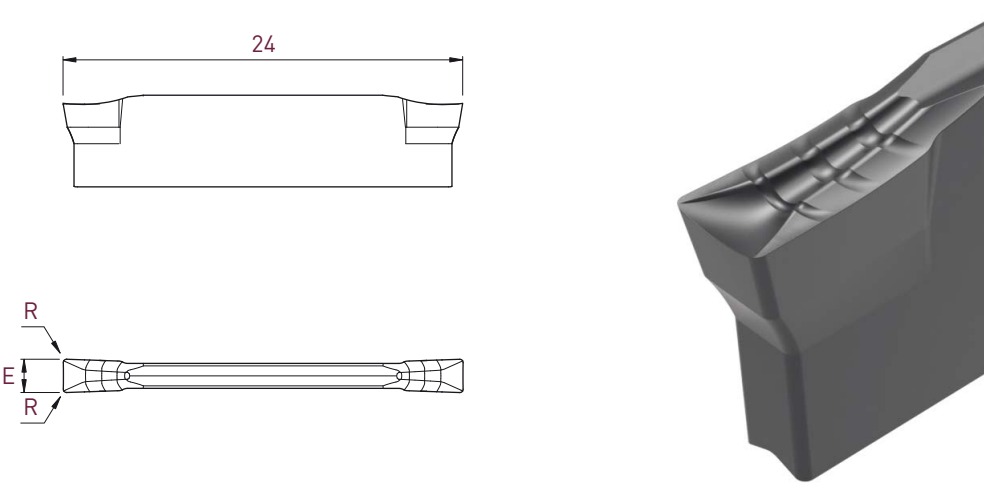
Abstechwendeplatten

Cut off inserts

UL-UR



|      |         |     |     | UL            |                                                                                                                                                                                                    | UR            |                                                                                                                                                                                                    |
|------|---------|-----|-----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type | E ±0.05 | A   | R   | Art. N°       | <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> | Art. N°       | <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> |
| ET15 | 1.5     | 6°  | 0.2 | -             |                                                                                                                                                                                                    | ET15-UR-602   | ● ● ●                                                                                                                                                                                              |
|      | 1.35    | 8°  | 0   | -             |                                                                                                                                                                                                    | ET15-UR-800F  | ●                                                                                                                                                                                                  |
|      | 1.5     | 12° | 0.1 | -             |                                                                                                                                                                                                    | ET15-UR-1201  | ● ● ●                                                                                                                                                                                              |
|      | 1.35    | 15° | 0   | ET15-UL-1500F | ●                                                                                                                                                                                                  | ET15-UR-1500F | ●                                                                                                                                                                                                  |
| ET20 | 2.0     | 6°  | 0.2 | -             |                                                                                                                                                                                                    | ET20-UR-602   | ● ● ●                                                                                                                                                                                              |
|      | 1.85    | 8°  | 0   | -             |                                                                                                                                                                                                    | ET20-UR-800F  | ●                                                                                                                                                                                                  |
|      | 2.0     | 12° | 0.1 | -             |                                                                                                                                                                                                    | ET20-UR-1201  | ● ● ●                                                                                                                                                                                              |
|      | 1.85    | 15° | 0   | ET20-UL-1500F | ●                                                                                                                                                                                                  | ET20-UR-1500F | ●                                                                                                                                                                                                  |
| ET25 | 2.5     | 6°  | 0.2 | -             |                                                                                                                                                                                                    | ET25-UR-602   | ● ● ●                                                                                                                                                                                              |
|      | 2.35    | 8°  | 0   | -             |                                                                                                                                                                                                    | ET25-UR-800F  | ●                                                                                                                                                                                                  |
|      | 2.5     | 12° | 0.1 | -             |                                                                                                                                                                                                    | ET25-UR-1201  | ● ● ●                                                                                                                                                                                              |
|      | 2.35    | 15° | 0   | ET25-UL-1500F | ●                                                                                                                                                                                                  | ET25-UR-1500F | ●                                                                                                                                                                                                  |
| ET30 | 3.0     | 6°  | 0.3 | -             |                                                                                                                                                                                                    | ET30-UR-603   | ● ● ●                                                                                                                                                                                              |
|      | 2.85    | 8°  | 0   | -             |                                                                                                                                                                                                    | ET30-UR-800F  | ●                                                                                                                                                                                                  |
|      | 3.0     | 12° | 0.2 | -             |                                                                                                                                                                                                    | ET30-UR-1202  | ● ● ●                                                                                                                                                                                              |
|      | 2.85    | 15° | 0   | ET30-UL-1500F | ●                                                                                                                                                                                                  | ET30-UR-1500F | ●                                                                                                                                                                                                  |



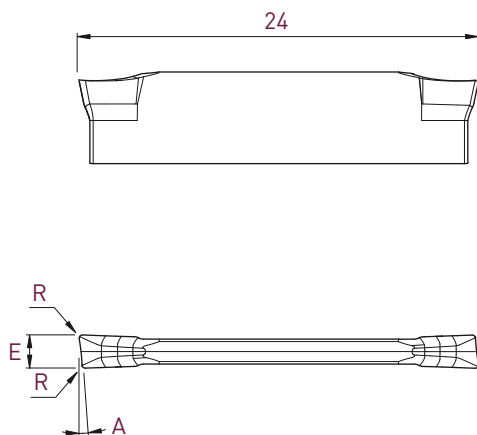
| JN   |              |     |             |  |                                                                     |                                                                     |                                                                     |
|------|--------------|-----|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Type | E $\pm 0.05$ | R   | Art. N°     | <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> TiAlN              | <div> <div>P</div> <div>M</div> <div></div> <div></div> </div> Tmax | <div> <div>P</div> <div>M</div> <div></div> <div></div> </div> Zmax | <div> <div>P</div> <div>M</div> <div></div> <div></div> </div> ZTi6 |
| ET15 | 1.5          | 0.2 | ET15-JN-002 | •                                                                                   | •                                                                   | •                                                                   |                                                                     |
| ET20 | 2.0          | 0.2 | ET20-JN-002 | •                                                                                   | •                                                                   | •                                                                   | •                                                                   |
| ET25 | 2.5          | 0.3 | ET25-JN-003 | •                                                                                   | •                                                                   | •                                                                   | •                                                                   |
| ET30 | 3.0          | 0.3 | ET30-JN-003 | •                                                                                   | •                                                                   | •                                                                   | •                                                                   |

**Plaquettes de tronçonnage**

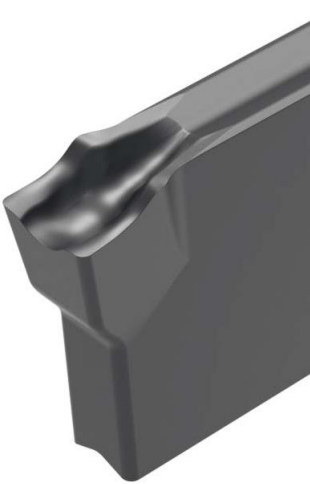
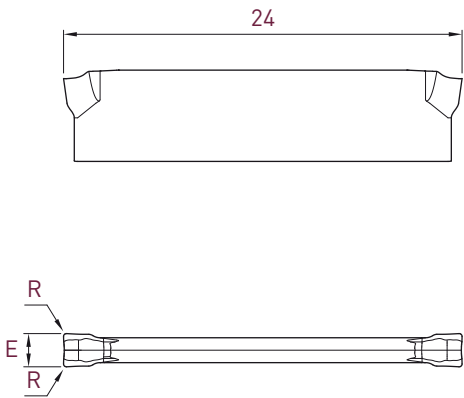
Abstechwendeplatten

Cut off inserts

**JR**



|      |              |    |     | JR          |                                                                                                                                                                                                |      |      |
|------|--------------|----|-----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|      |              |    |     |             | <div> <div>P</div> <div>M</div> <div>N</div> <div>S</div> </div> <div> <div>P</div> <div>M</div> <div></div> <div></div> </div> <div> <div>P</div> <div>M</div> <div></div> <div></div> </div> |      |      |
| Type | E $\pm 0.05$ | A  | R   | Art. N°     | TiAlN                                                                                                                                                                                          | Tmax | Zmax |
| ET15 | 1.5          | 6° | 0.2 | ET15-JR-602 | •                                                                                                                                                                                              | •    | •    |
| ET20 | 2.0          | 6° | 0.2 | ET20-JR-602 | •                                                                                                                                                                                              | •    | •    |
| ET25 | 2.5          | 6° | 0.2 | ET25-JR-602 | •                                                                                                                                                                                              | •    | •    |
| ET30 | 3.0          | 6° | 0.3 | ET30-JR-603 | •                                                                                                                                                                                              | •    | •    |



|      |              |     |              |                                                                                       |
|------|--------------|-----|--------------|---------------------------------------------------------------------------------------|
| JSN  |              |     |              |    |
| Type | E $\pm 0.05$ | R   | Art. N°      |   |
|      |              |     |              |  |
| ET20 | 2.0          | 0.2 | ET20-JSN-002 | Tmax                                                                                  |
|      |              |     |              | •                                                                                     |

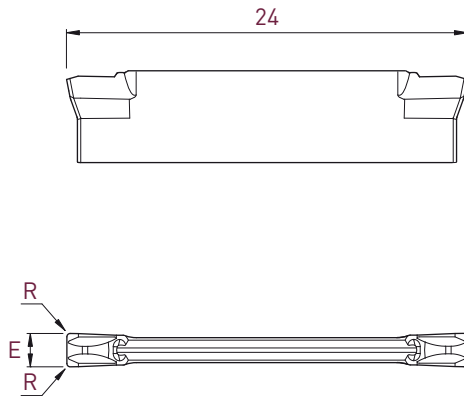
**Plaquettes de tronçonnage**

Abstechwendeplatten

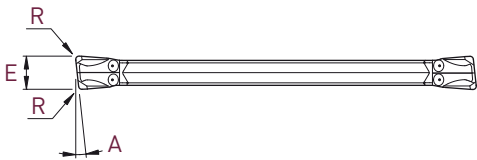
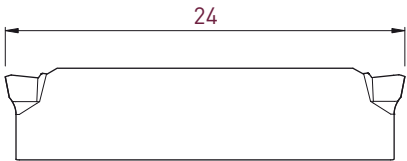
Cut off inserts

**Negative geometry**

**TN**



|      |              |     | TN          |  |                                                                                     |                                                                                     |                                                                                     |
|------|--------------|-----|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type | E $\pm 0.05$ | R   | Art. N°     |  |  |  |  |
|      |              |     |             | TiAlN                                                                               | Tmax                                                                                | Zmax                                                                                | ZTi6                                                                                |
| ET20 | 2.0          | 0.2 | ET20-TN-002 | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
| ET25 | 2.5          | 0.3 | ET25-TN-003 | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
| ET30 | 3.0          | 0.3 | ET30-TN-003 | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |

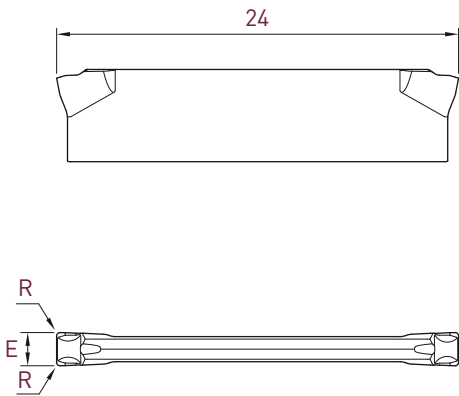


| TR   |         |    |     |             |  |      |      |      |
|------|---------|----|-----|-------------|-------------------------------------------------------------------------------------|------|------|------|
| Type | E ±0.05 | A  | R   | Art. N°     | TiAlN                                                                               | Tmax | Zmax | ZTi6 |
| ET20 | 2.0     | 6° | 0.2 | ET20-TR-602 | ●                                                                                   | ●    | ●    |      |
| ET25 | 2.5     | 6° | 0.2 | ET25-TR-602 | ●                                                                                   | ●    | ●    |      |
| ET30 | 3.0     | 6° | 0.3 | ET30-TR-603 | ●                                                                                   | ●    | ●    | ●    |

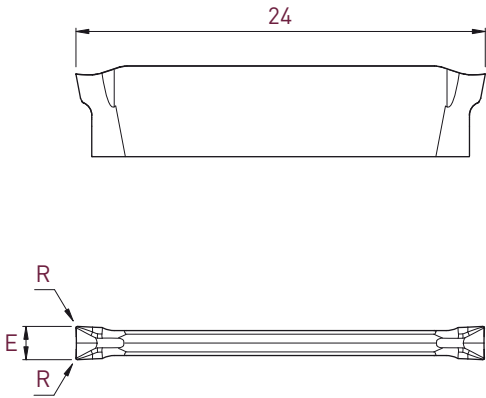
Plaquettes de tronçonnage  
Abstechwendeplatten  
Cut off inserts

Negative geometry

TSN



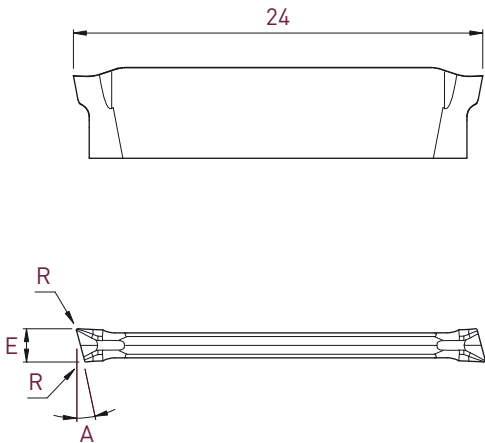
| TSN  |         |     |              |  |                                                |
|------|---------|-----|--------------|-------------------------------------------------------------------------------------|------------------------------------------------|
| Type | E ±0.05 | R   | Art. N°      | Tmax                                                                                | Zmax                                           |
| ET20 | 2.0     | 0.2 | ET20-TSN-002 | <div><div>P</div><div>M</div><div></div></div>                                      | <div><div>P</div><div>M</div><div></div></div> |



|      |         |     | AN           |                                                                                                                                                          |
|------|---------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type | E ±0.05 | R   | Art. N°      | <div><div>M</div><div>N</div><div>S</div><div>TiAlN</div><div><div><div></div><div></div><div></div></div><div><div>N</div><div>S</div><div></div></div><div><div>N</div><div>S</div><div></div></div></div><div>AC</div><div>Z</div></div> |
| ET20 | 2.0     | 0.2 | ET20-AN-002F | <div><div>•</div><div>•</div><div>•</div></div>                                                                                                                                                                                             |
| ET30 | 3.0     | 0.3 | ET30-AN-003F | <div><div>•</div><div>•</div><div>•</div></div>                                                                                                                                                                                             |

Plaquettes de tronçonnage  
Abstechwendeplatten  
Cut off inserts

AR



|      |         |     |     |               | AR    |    |   |
|------|---------|-----|-----|---------------|-------|----|---|
|      |         |     |     |               |       |    |   |
| Type | E ±0.05 | A   | R   | Art. N°       | TiAlN | AC | Z |
| ET20 | 2.0     | 15° | 0.1 | ET20-AR-1501F | ●     | ●  | ● |
| ET30 | 3.0     | 15° | 0.2 | ET30-AR-1502F | ●     | ●  | ● |

# SYMBOL

## Légende des symboles

Symbollegende

Symbol Legend

| E   | L | Art. N°   | TiAlN | TiN | N (µK20) | HTA | HTiN | HN (µK10) |
|-----|---|-----------|-------|-----|----------|-----|------|-----------|
| 1.0 | 5 | 731RU-1.0 | •     | •   |          |     |      |           |
| 1.2 | 5 | 731RU-1.2 | •     | •   |          |     |      |           |
| 1.5 | 7 | 731RU-1.5 | •     | •   | •        | •   | •    | •         |
| 2.0 | 7 | 731RU-2.0 | •     | •   |          |     |      |           |

• Article standart  
Standardartikel  
Standard item

P

Acier  
Stahl  
Steel

M

Inox  
Rostfreistahl  
Stainless steel

N

Alliages d'aluminium et non ferreux  
Aluminium- und Nichtisenlegierungen  
Aluminium and non-ferrous alloys

S

Titane et superalliages  
Titan und Superlegierungen  
Titanium and superalloys

H

Acier trempé  
Gehärteter Stahl  
Hardened steel

K

Fonte  
Gusseisen  
Cast iron

O

Matière exotique  
Exotisches material  
Exotic material



Carbure  
Hartmetall  
Carbide



TiAlN

K20

µK20 + revêtement PVD  
µK20 + PVD Beschichtung  
µK20 + PVD coating

P ★★★★★  
M ★★★★★  
N ★★★★★  
S ★★★★★

TF F M E

Épaisseur du revêtement  
Dicken der Beschichtung  
Thickness of the coating

TF

Très fin  
Sehr dünn  
Very thin

F

Fin  
Dünn  
Thin

M

Moyen  
Mittel  
Medium

E

Épais  
Dick  
Thick