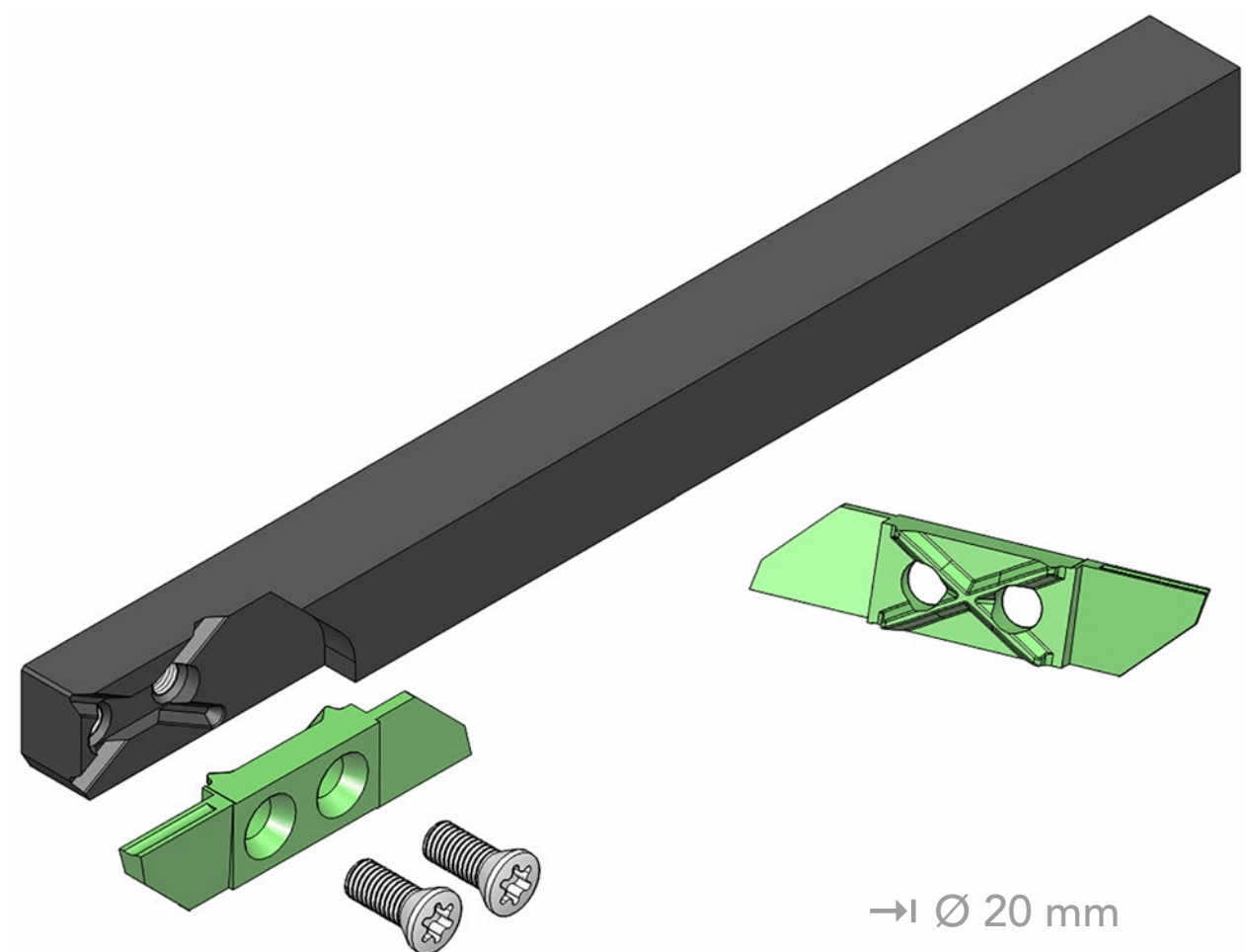
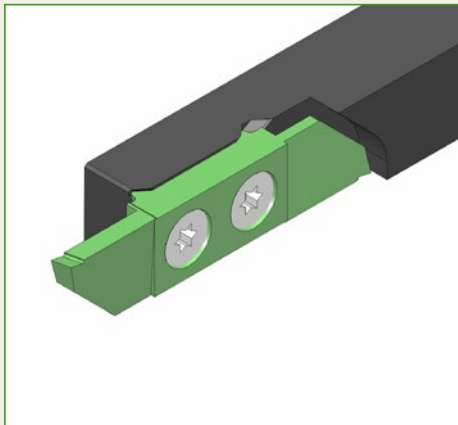
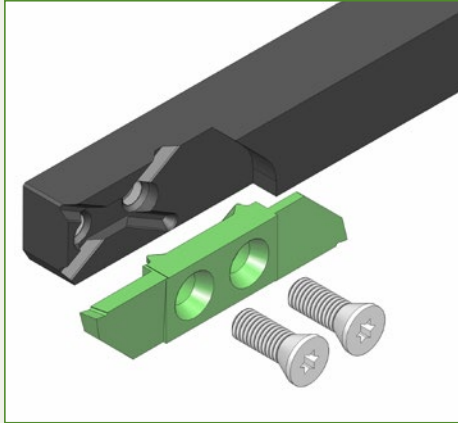


# oxoline

Very high rigidity inserts **1000**



**Presentation of OXOline 1000**  
**Vorstellung der OXOline 1000**  
**Présentation d'OXOline 1000**



**Advantages of OXOline 1000**

- High rigidity inserts.
- Increase of stability thanks 2 screws fixing system.
- Repetitiveness of the cutting edge  $\pm 0,01$  mm.
- Positioning in all axes.
- The screw is free of all radial stress.
- 2 cutting edges available.
- Large choice of geometries available.

**Vorteile der OXOline 1000**

- Sehr stabile Wendeplatten.
- Zunahme der Stabilität dank zweier Schrauben.
- Wiederholgenauigkeit der Schneidkante  $\pm 0,01$  mm.
- Positionierung in allen Achsen.
- Keine radialen Spannungen.
- 2 verfügbare Schneidkanten.
- Viele verschiedene Geometrien verfügbar.

**Avantages de la ligne OXOline 1000**

- Plaquettes haute rigidité.
- Accroissement de la stabilité grâce aux 2 vis.
- Répétitivité de l'arête de coupe  $\pm 0,01$  mm.
- Positionnement dans tous les axes.
- La vis est libre de toute tension radiale.
- 2 arêtes de coupe.
- Grand choix de géométries disponible.

## Coating of inserts

## Beschichtung der Wendepplatten

## Revêtement des plaquettes

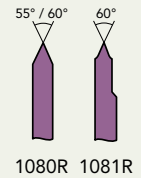
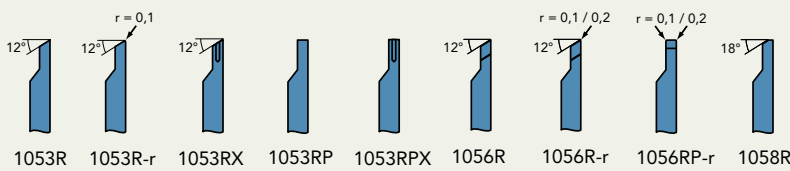
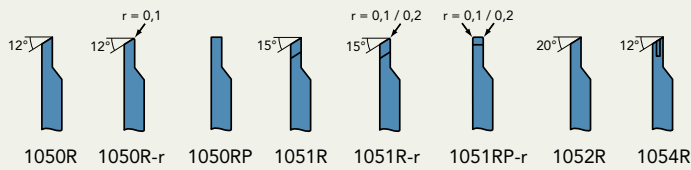
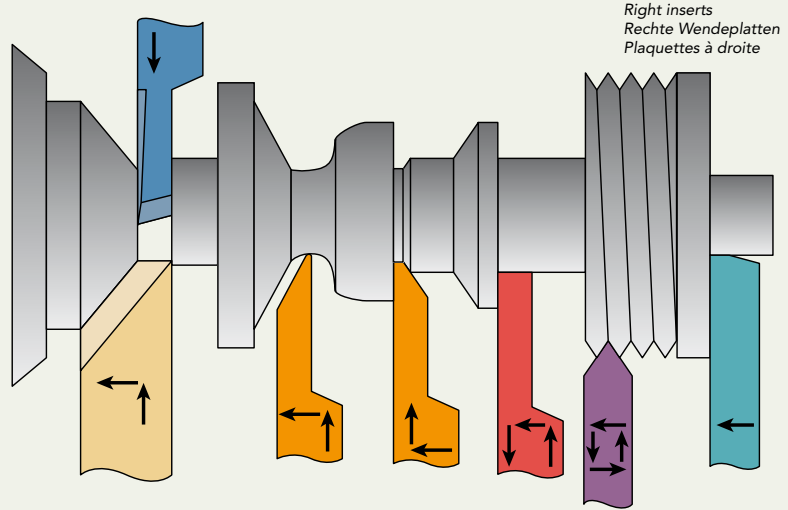
✓ = Available  
 ✓ = Verfügbar  
 ✓ = Disponible

Designation Bezeichnung Désignation	Description Beschreibung Description
K20	<p>Without coating   K20 carbide</p> <p>Ohne Beschichtung   K20 Hartmetall</p> <p>Sans revêtement   Carbure K20</p>
BI40	<p><b>AlTi(C)N-based</b></p> <ul style="list-style-type: none"> <li>• Universal coating.</li> <li>• High hardness.</li> <li>• Very smooth surface finish.</li> <li>• Suitable for steel and stainless steel.</li> </ul> <p><b>AlTi(C)N-Basis</b></p> <ul style="list-style-type: none"> <li>• Universalbeschichtung.</li> <li>• Hohe Schichthärte.</li> <li>• Sehr glatte Oberfläche.</li> <li>• Geeignet für Stahl und Edelstahl.</li> </ul> <p><b>Base AlTi(C)N</b></p> <ul style="list-style-type: none"> <li>• Revêtement universel.</li> <li>• Dureté élevée.</li> <li>• Bon glissement du copeau.</li> <li>• Adapté à l'acier et à l'acier inox.</li> </ul>
BI90	<p><b>AlTiN-based</b></p> <ul style="list-style-type: none"> <li>• Universal coating.</li> <li>• Good oxidation resistance.</li> <li>• High heat resistance.</li> <li>• Suitable for steel and stainless steel.</li> </ul> <p><b>AlTiN-Basis</b></p> <ul style="list-style-type: none"> <li>• Universalbeschichtung.</li> <li>• Gute Oxidationsbeständigkeit.</li> <li>• Hohe Hitzebeständigkeit.</li> <li>• Ideal für Stahl und Edelstahl.</li> </ul> <p><b>Base AlTiN</b></p> <ul style="list-style-type: none"> <li>• Revêtement universel.</li> <li>• Bonne résistance à l'oxydation.</li> <li>• Haute résistance à la chaleur.</li> <li>• Adapté à l'acier et à l'acier inox.</li> </ul>

Designation Bezeichnung Désignation	Description Beschreibung Description
<b>BI100</b>	<p><b>AlCrN-based</b></p> <ul style="list-style-type: none"> <li>• Very high heat resistance.</li> <li>• High wear resistance.</li> <li>• Ideal for high speed machining of stainless steel.</li> </ul> <p><b>AlCrN-Basis</b></p> <ul style="list-style-type: none"> <li>• Sehr hohe Hitzebeständigkeit.</li> <li>• Hohe Verschleissfestigkeit.</li> <li>• Ideal für das Bearbeiten von Edelstahl mit hoher Schnittgeschwindigkeit.</li> </ul> <p><b>Base AlCrN</b></p> <ul style="list-style-type: none"> <li>• Très haute résistance à la chaleur.</li> <li>• Haute résistance à l'usure.</li> <li>• Idéal pour l'usinage à haute vitesse de coupe de l'acier inox.</li> </ul>
<b>TIN</b>	<p><b>TiN</b></p> <ul style="list-style-type: none"> <li>• Universal coating.</li> </ul> <p><b>TiN</b></p> <ul style="list-style-type: none"> <li>• Universalbeschichtung.</li> </ul> <p><b>TiN</b></p> <ul style="list-style-type: none"> <li>• Revêtement universel.</li> </ul>

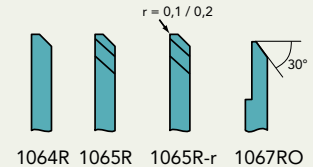
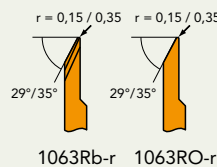
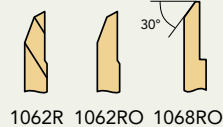
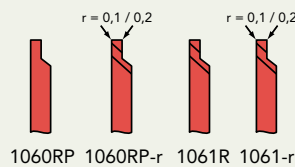
**Field of application of OXOline 1000**  
**Anwendungsbereiche der OXOline 1000**  
**Champ d'application d'OXOline 1000**

Maximum cutting-off  
Maximaler Abstechdurchmesser  
Tronçonnage maximum  
Ø 20 mm



Cutting off  
Abstechen  
Tronçonnage

Threading  
Gewindestrehlen  
Filetage




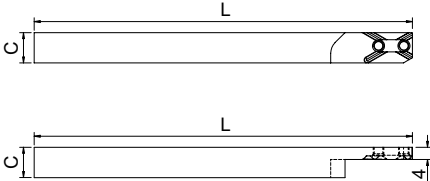

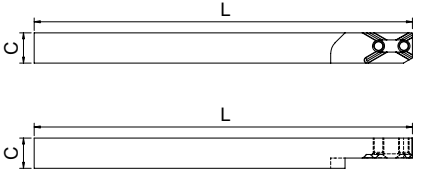

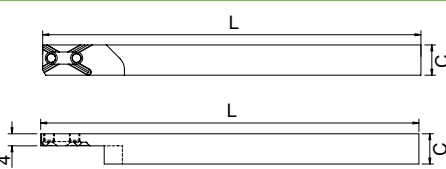



Plunging-Turning  
Einstechen-Drehen  
Fonçage-Tournage


Plunging-Turning  
Einstechen-Drehen  
Fonçage-Tournage


Turning-Plunging  
Drehen-Einstecken  
Tournage-Fonçage


Turning  
Drehen  
Tournage


10xxR	Right tool holder Werkzeughalter rechts Porte-outil à droite	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		10 x 10	120	1010R
		12 x 12	120	1012R
		14 x 14	120	1014R
		16 x 16	120	1016R
		20 x 20	120	1020R
		25 x 25	100	1025R
		12,7 x 12,7 (1/2")	120	10127R
10xxR4	«Pick-up» tool holder «Pick-up» Werkzeughalter Porte-outil «Pick-up»	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		10 x 10	120	1010R4
		12 x 12	120	1012R4
		16 x 16	120	1016R4
		<i>Use with 1053R, 1053RP, 1053RX, 1056R, 1056RP-r and 1058R inserts</i> <i>Verwendung mit 1053R, 1053RP, 1053RX, 1056R, 1056RP-r und 1058R Wendeplatten</i> <i>Utilisation avec les plaquettes 1053R, 1053RP, 1053RX, 1056R, 1056RP-r et 1058R</i>		
10xxL	Left tool holder Werkzeughalter links Porte-outil à gauche	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		10 x 10	120	1010L
		12 x 12	120	1012L
		14 x 14	120	1014L
		16 x 16	120	1016L
		20 x 20	120	1020L
		25 x 25	100	1025L
		12,7 x 12,7 (1/2")	120	10127L
10xxL4	«Pick-up» tool holder «Pick-up» Werkzeughalter Porte-outil «Pick-up»	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		10 x 10	120	1010L4
		12 x 12	120	1012L4
		16 x 16	120	1016L4
		<i>Use with 1053L inserts</i> <i>Verwendung mit 1053L Wendeplatten</i> <i>Utilisation avec les plaquettes 1053L</i>		

	<b>Tool holders with internal coolant</b> <b>Werkzeughalter mit Innenkühlung</b> <b>Porte-outils avec arrosage intégré</b>
	<p>See the «Tool holders with internal coolan» documentation for further information.          Siehe Dokumentation «Werkzeughalter mit Innenkühlung» für weitere Informationen.          Voir la documentation «Porte-outils avec arrosage intégré» pour plus d'informations.</p>

	<b>Cylindrical turning tool holders for counter-operation</b> <b>Zylindrische Drehwerkzeughalter zur Rückseitenbearbeitung</b> <b>Porte-outils de tournage cylindriques pour contre-opération</b>
	<p>See the «Cylindrical turning tool holders» documentation for further information.          Siehe die «Zylindrische Drehwerkzeughalter» Dokumentation für weitere Informationen.          Voir la documentation «Porte-outils de tournage cylindriques» pour plus d'informations.</p>

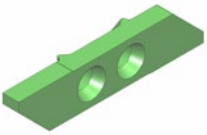
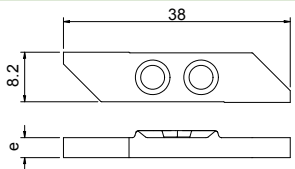
<b>100-1</b>	<b>Key</b> <b>Schlüssel</b> <b>Clé</b>	Article nr. Artikel Nr. N° Article
	Torx 15	100-1

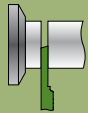
<b>001-8</b>	<b>Screw for standard tool holder</b> <b>Schraube für Standard-Werkzeughalter</b> <b>Vis pour porte-outil standard</b>	Article nr. Artikel Nr. N° Article
	M3,5 x 9	001-8

<b>100-2c</b>	<b>Screw for «Pick-up» tool holder</b> <b>Schraube für «Pick-up» Werkzeughalter</b> <b>Vis pour porte-outil «Pick-up»</b>	Article nr. Artikel Nr. N° Article
	M3,5 x 7	100-2c

Blank  
 Rohling  
 Ebauche

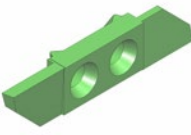
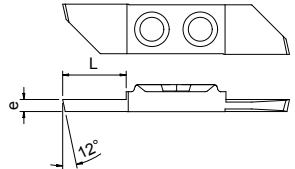
R : Right machining  
 R : Rechte Bearbeitung  
 R : Usinage à droite

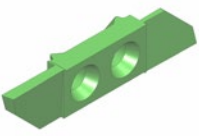
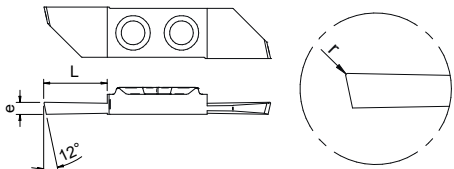
1040R	Blank insert Rohling Wendeplatte Plaqueette ébauche	e	Article nr. Artikel Nr. N° Article	K20	BI40	BI90
		3,3	1040R3,3	✓	✓	✓

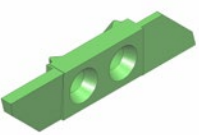
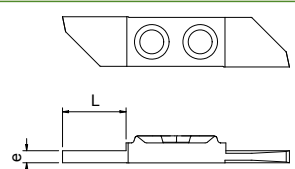


Guide bush cut off  $\varnothing$  20 mm  
 Abstechen an der Führungsbüchse  $\varnothing$  20 mm  
 Tronçonnage côté canon  $\varnothing$  20 mm

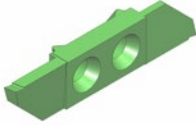
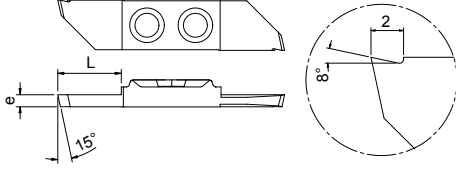
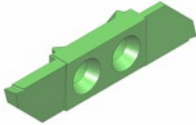
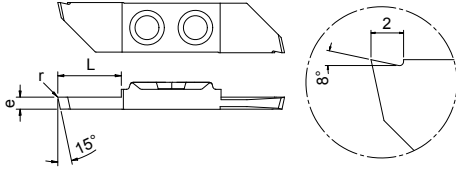
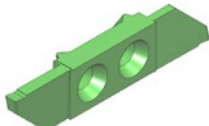
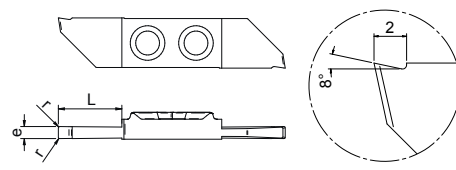
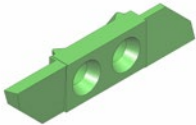
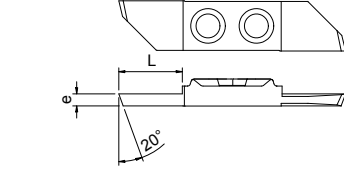
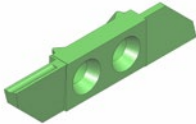
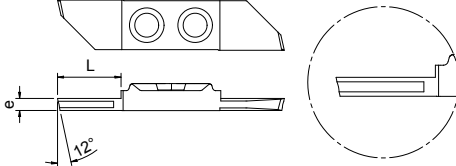
R : Right machining  
 R : Rechte Bearbeitung  
 R : Usinage à droite

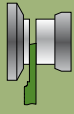
1050R	Cutting insert 12° Abstechplatte 12° Tronçonneur 12°	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI100
		1,0	5,0	1050R1,0	✓	✓	✓
		1,2	6,0	1050R1,2	✓	✓	✓
		1,5	7,5	1050R1,5	✓	✓	✓
		1,8	9,0	1050R1,8	✓	✓	✓
		2,0	10,5	1050R2,0	✓	✓	✓
		2,2	10,5	1050R2,2	✓	✓	✓
		2,5	10,5	1050R2,5	✓	✓	✓
		3,0	10,5	1050R3,0	✓	✓	✓

1050R - r	Cutting insert 12° with radius Abstechplatte 12° mit Radius Tronçonneur 12° avec rayon	e	L	r	Article nr. Artikel Nr. N° Article	BI40
		1,5	7,5	0,1	1050R1,5 - r 0,1 -	✓
		2,0	10,5	0,1	1050R2,0 - r 0,1 -	✓

1050RP	Cutting insert 0° Abstechplatte 0° Tronçonneur 0°	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,0	5,0	1050RP1,0	✓	✓
		1,5	7,5	1050RP1,5	✓	✓
		2,0	10,5	1050RP2,0	✓	✓
		2,5	10,5	1050RP2,5	✓	✓
		3,0	10,5	1050RP3,0	✓	✓

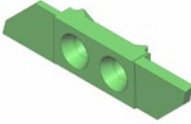
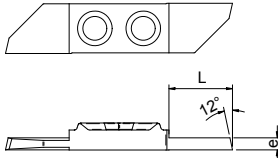
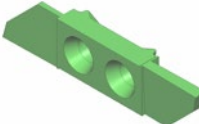
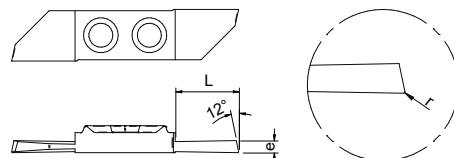
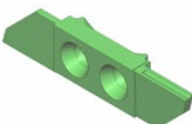
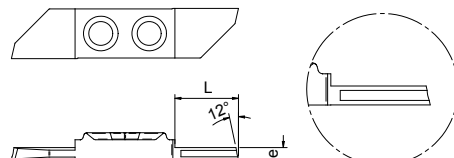
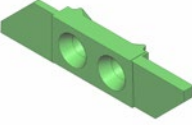
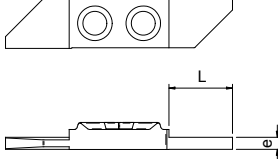
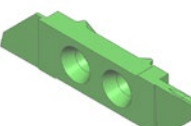
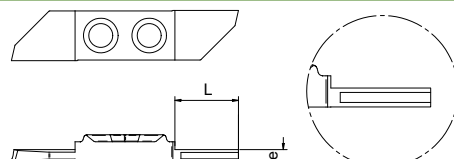


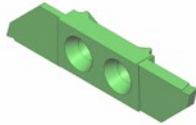
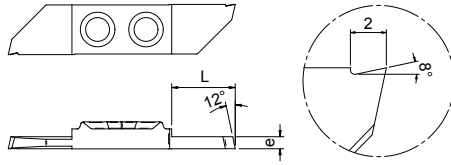
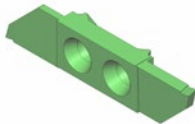
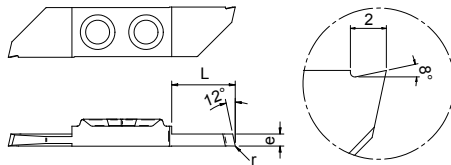
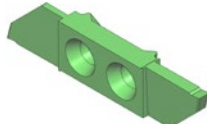
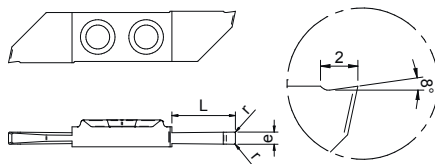
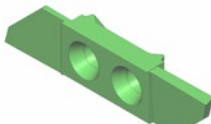
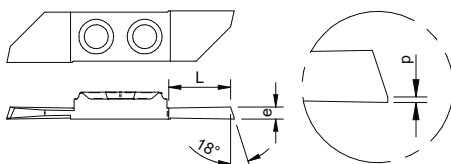
<b>1051R</b>	<b>Cutting insert 15° with chip breaker</b> Abstechplatte 15° mit Spanbrecher Tronçonneur 15° avec brise-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90		
		1,0	5,0	1051R1,0	✓	✓		
		1,2	6,0	1051R1,2	✓	✓		
		1,5	7,5	1051R1,5	✓	✓		
		2,0	10,5	1051R2,0	✓	✓		
		2,5	10,5	1051R2,5	✓	✓		
<b>1051R - r</b>	<b>Cutting insert 15° with chip breaker and radius</b> Abstechplatte 15° mit Spanbrecher und Radius Tronçonneur 15° avec brise-copeau et rayon	e	L	r	Article nr. Artikel Nr. N° Article	BI40	BI90	BI100
		1,0	5,0	0,1	1051R1,0 - r 0,1 -	✓		
		1,0	5,0	0,2	1051R1,0 - r 0,2 -	✓		
		1,2	6,0	0,1	1051R1,2 - r 0,1 -	✓		
		1,5	7,5	0,1	1051R1,5 - r 0,1 -	✓	✓	
		2,0	10,5	0,1	1051R2,0 - r 0,1 -	✓		✓
		2,0	10,5	0,2	1051R2,0 - r 0,2 -	✓		
		2,5	10,5	0,2	1051R2,5 - r 0,2 -	✓		
<b>1051RP - r</b>	<b>Cutting insert 0° with chip breaker and radius</b> Abstechplatte 0° mit Spanbrecher und Radius Tronçonneur 0° avec brise-copeau et rayon	e	L	r	Article nr. Artikel Nr. N° Article		BI90	
		1,5	7,5	0,1	1051RP1,5 - r 0,1 -		✓	
		1,5	7,5	0,2	1051RP1,5 - r 0,2 -		✓	
		2,0	10,5	0,1	1051RP2,0 - r 0,1 -		✓	
		2,0	10,5	0,2	1051RP2,0 - r 0,2 -		✓	
<b>1052R</b>	<b>Cutting insert 20°</b> Abstechplatte 20° Tronçonneur 20°	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90		
		1,0	5,0	1052R1,0		✓		
		1,2	6,0	1052R1,2	✓	✓		
		1,5	7,5	1052R1,5	✓	✓		
		2,0	10,5	1052R2,0	✓	✓		
		2,5	10,5	1052R2,5	✓	✓		
<b>1054R</b>	<b>Cutting insert with chip roller</b> Abstechplatte mit Spanroller Tronçonneur avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90		
		1,0	5,0	1054R1,0	✓	✓		
		1,2	6,0	1054R1,2	✓	✓		
		1,5	7,5	1054R1,5	✓	✓		
		2,0	10,5	1054R2,0	✓	✓		
		2,5	10,5	1054R2,5	✓	✓		

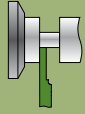


Sub spindle cut off  $\varnothing$  20 mm  
 Abstechen an der Abgreifzange  $\varnothing$  20 mm  
 Tronçonnage côte prise de pièce  $\varnothing$  20 mm

R : Right machining  
 R : Rechte Bearbeitung  
 R : Usinage à droite

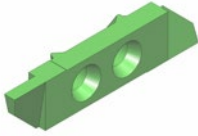
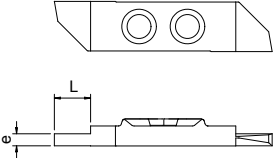
1053R		Opposite cutting insert 12° Umgekehrte Abstechplatte 12° Tronçonneur inversé 12°	e	L	Article nr. Artikel Nr. N° Article	B140	B190	B100
		1,0	5,0	1053R1,0	✓		✓	
		1,2	6,0	1053R1,2	✓			
		1,5	7,5	1053R1,5	✓	✓	✓	
		1,8	9,0	1053R1,8	✓			
		2,0	10,5	1053R2,0	✓	✓		
		2,5	10,5	1053R2,5	✓	✓		
		3,0	10,5	1053R3,0	✓			
<i>Use with 10xxL tool holders            Verwendung mit 10xxL Werkzeughalter            Utilisation avec les porte-outils 10xxL</i>								
1053R - r		Opposite cutting insert 12° with radius Umgekehrte Abstechplatte 12° mit Radius Tronçonneur inversé 12° avec rayon	e	L	r	Article nr. Artikel Nr. N° Article	B140	
		1,5	7,5	0,1	1053R1,5 - r 0,1 -		✓	
		2,0	10,5	0,1	1053R2,0 - r 0,1 -			
<i>Use with 10xxL tool holders            Verwendung mit 10xxL Werkzeughalter            Utilisation avec les porte-outils 10xxL</i>								
1053RX		Opposite cutting insert with chip roller Umgekehrte Abstechplatte mit Spanroller Tronçonneur inversé avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	B140	B190	
		1,0	5,0	1053RX1,0	✓	✓		
		1,2	6,0	1053RX1,2	✓			
		1,5	7,5	1053RX1,5	✓	✓		
		2,0	10,5	1053RX2,0	✓	✓		
<i>Use with 10xxL tool holders            Verwendung mit 10xxL Werkzeughalter            Utilisation avec les porte-outils 10xxL</i>								
1053RP		Opposite cutting insert 0° Umgekehrte Abstechplatte 0° Tronçonneur inversé 0°	e	L	Article nr. Artikel Nr. N° Article	B140	B190	
		1,0	5,0	1053RP1,0	✓			
		1,2	6,0	1053RP1,2	✓			
		1,5	7,5	1053RP1,5	✓			
		2,0	10,5	1053RP2,0	✓	✓		
		2,5	10,5	1053RP2,5	✓	✓		
		3,0	10,5	1053RP3,0	✓		✓	
<i>Use with 10xxL tool holders            Verwendung mit 10xxL Werkzeughalter            Utilisation avec les porte-outils 10xxL</i>								
1053RPX		Opposite cutting insert 0° with chip roller Umgekehrte Abstechplatte 0° mit Spanroller Tronçonneur inversé 0° avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	B140		
		1,5	7,5	1053RPX1,5		✓		
		2,0	10,5	1053RPX2,0		✓		
<i>Use with 10xxL tool holders            Verwendung mit 10xxL Werkzeughalter            Utilisation avec les porte-outils 10xxL</i>								

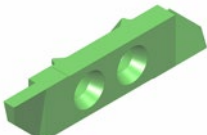
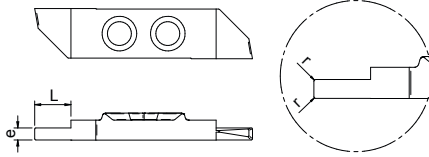
1056R	Opposite cutting insert with chip breaker Umgekehrte Abstechplatte mit Spanbrecher Tronçonneur inversé avec brise-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90		
		1,5	7,5	1056R1,5	✓	✓		
		2,0	10,5	1056R2,0	✓	✓		
		2,5	10,5	1056R2,5	✓	✓		
<i>Use with 10xxL tool holders Verwendung mit 10xxL Werkzeughalter Utilisation avec les porte-outils 10xxL</i>								
1056R - r	Opposite cutting insert with chip breaker and radius Umgekehrte Abstechpl. 0° mit Spanbrecher und Radius Tronçonneur inversé avec brise-copeau et rayon	e	L	r	Article nr. Artikel Nr. N° Article	BI40	BI90	BI100
		1,0	5,0	0,1	1056R1,0 - r 0,1 -	✓		
		1,0	5,0	0,2	1056R1,0 - r 0,2 -	✓		
		1,5	7,5	0,1	1056R1,5 - r 0,1 -	✓	✓	✓
		1,5	7,5	0,2	1056R1,5 - r 0,2 -	✓		
		2,0	10,5	0,1	1056R2,0 - r 0,1 -	✓	✓	
		2,0	10,5	0,2	1056R2,0 - r 0,2 -	✓		
		2,5	10,5	0,2	1056R2,5 - r 0,2 -	✓		
<i>Use with 10xxL tool holders Verwendung mit 10xxL Werkzeughalter Utilisation avec les porte-outils 10xxL</i>								
1056RP - r	Opposite cutting insert 0° with chip breaker and radius Umgekehrte Abstechpl. 0° mit Spanbrecher und Radius Tronçonneur inversé 0° avec brise-copeau et rayon	e	L	r	Article nr. Artikel Nr. N° Article	BI40	BI90	
		1,5	7,5	0,1	1056RP1,5 - r 0,1 -		✓	
		1,5	7,5	0,2	1056RP1,5 - r 0,2 -		✓	
		2,0	10,5	0,1	1056RP2,0 - r 0,1 -		✓	
		2,0	10,5	0,2	1056RP2,0 - r 0,2 -		✓	
<i>Use with 10xxL tool holders Verwendung mit 10xxL Werkzeughalter Utilisation avec les porte-outils 10xxL</i>								
1058R	Opposite cutting insert Umgekehrte Abstechplatte Tronçonneur inversé	e	L	p	Article nr. Artikel Nr. N° Article	BI40		
		1,5	7,5	0,15	1058R1,5	✓		
		2,0	10,5	0,20	1058R2,0	✓		
<i>Use with 10xxL tool holders Verwendung mit 10xxL Werkzeughalter Utilisation avec les porte-outils 10xxL</i>								

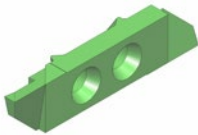
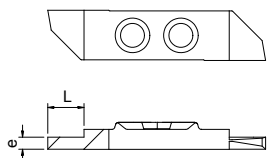


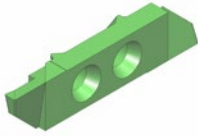
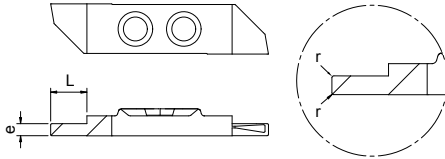
Back turning  
 Drehen hinten  
 Tournage arrière

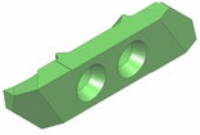
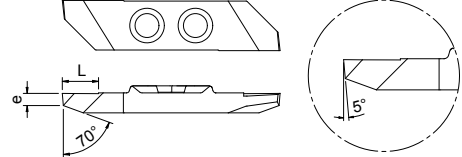
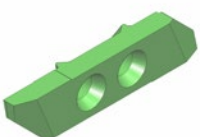
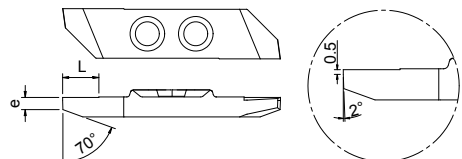
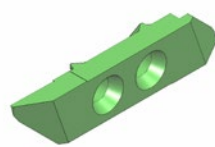
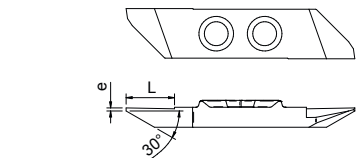
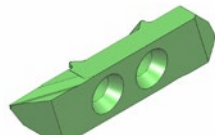
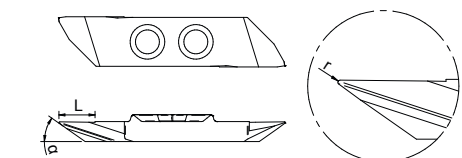
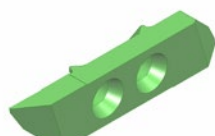
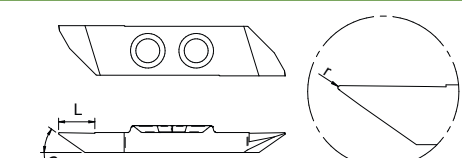
R : Right machining  
 R : Rechte Bearbeitung  
 R : Usinage à droite

1060RP	Back turning insert 0° Drehplatte hinten 0° Tourneur arrière 0°	e	L	Article nr. Artikel Nr. N° Article	B140	B190
		0,5	2,0	1060RP0,5		✓
		0,6	2,0	1060RP0,6		✓
		0,8	2,0	1060RP0,8	✓	✓
		1,0	3,0	1060RP1,0	✓	✓
		1,2	3,0	1060RP1,2	✓	✓
		1,5	4,0	1060RP1,5	✓	✓
		1,8	4,0	1060RP1,8		✓
		2,0	5,0	1060RP2,0	✓	✓
		2,5	6,0	1060RP2,5	✓	✓
		3,0	6,0	1060RP3,0	✓	✓

1060RP - r	Back turning insert 0° with radii Drehplatte hinten 0° mit Radius Tourneur arrière 0° avec rayons	e	L	r	Article nr. Artikel Nr. N° Article	B140	B190
		1,0	3,0	0,1	1060RP1,0 - r 0,1 -	✓	
		1,0	3,0	0,2	1060RP1,0 - r 0,2 -	✓	
		1,5	4,0	0,1	1060RP1,5 - r 0,1 -	✓	✓
		1,5	4,0	0,2	1060RP1,5 - r 0,2 -	✓	✓
		2,0	5,0	0,1	1060RP2,0 - r 0,1 -	✓	
		2,0	5,0	0,2	1060RP2,0 - r 0,2 -	✓	
		2,5	6,0	0,1	1060RP2,5 - r 0,1 -	✓	

1061R	Back turning insert with «parisian cut» Drehplatte hinten mit «Pariserschliff» Tourneur arrière avec «coupe parisienne»	e	L	Article nr. Artikel Nr. N° Article	B140	B190
		0,8	2,0	1061R0,8		✓
		1,0	3,0	1061R1,0	✓	✓
		1,2	3,0	1061R1,2	✓	✓
		1,5	4,0	1061R1,5	✓	✓
		2,0	5,0	1061R2,0	✓	✓
		2,5	6,0	1061R2,5	✓	✓
		3,0	7,5	1061R3,0	✓	✓

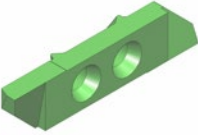
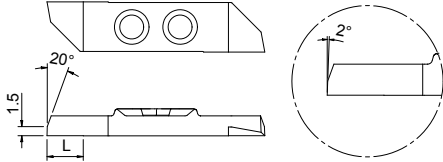
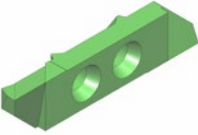
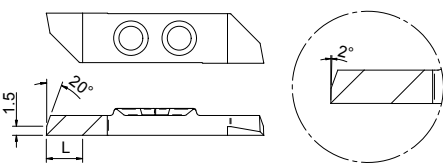
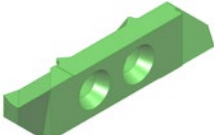
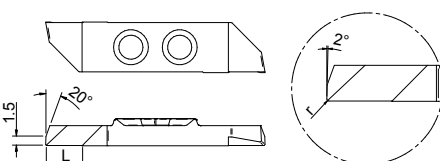
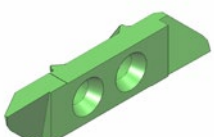
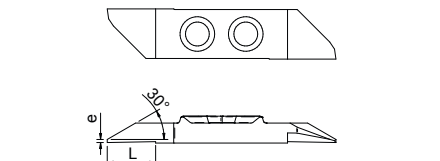
1061R - r	Back turning insert with «parisian cut» and radii Drehplatte hinten mit «Pariserschliff» und Radius Tourneur arrière avec «coupe parisienne» et rayons	e	L	r	Article nr. Artikel Nr. N° Article	B140	B190
		1,0	3,0	0,1	1061R1,0 - r 0,1 -	✓	✓
		1,0	3,0	0,2	1061R1,0 - r 0,2 -	✓	✓
		1,2	3,0	0,1	1061R1,2 - r 0,1 -	✓	✓
		1,2	3,0	0,2	1061R1,2 - r 0,2 -	✓	✓
		1,5	4,0	0,1	1061R1,5 - r 0,1 -	✓	✓
		1,5	4,0	0,2	1061R1,5 - r 0,2 -	✓	✓
		2,0	5,0	0,1	1061R2,0 - r 0,1 -	✓	✓
		2,0	5,0	0,2	1061R2,0 - r 0,2 -	✓	✓
		2,5	6,0	0,1	1061R2,5 - r 0,1 -	✓	✓
		2,5	6,0	0,2	1061R2,5 - r 0,2 -	✓	✓
		3,0	7,5	0,1	1061R3,0 - r 0,1 -	✓	✓
		3,0	7,5	0,2	1061R3,0 - r 0,2 -	✓	✓

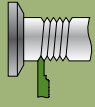
<b>1062R</b>	Back turning insert with «parisian cut» Drehplatte hinten mit «Pariserschliff» Tourneur arrière avec «coupe parisienne»	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	
		1,0	6,0	1062R1,0	✓	✓	
		1,5	6,0	1062R1,5	✓	✓	
		2,0	6,0	1062R2,0	✓	✓	
<b>1062RO</b>	Back turning insert Drehplatte hinten Tourneur arrière	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI100
		1,0	5,0	1062RO1,0	✓	✓	✓
		1,5	6,0	1062RO1,5	✓	✓	
		2,0	7,5	1062RO2,0	✓		
<b>1068RO</b>	Back turning insert Drehplatte hinten Tourneur arrière	e	L	Article nr. Artikel Nr. N° Article		BI90	
		0,5	8,0	1068RO0,5		✓	
<b>1063Rb - r</b>	Back turning insert with chip roller and radius Drehplatte hinten mit Spanbrecher und Radius Tourneur arrière avec brise-copeau et rayon	L	$\alpha$	r	Article nr. Artikel Nr. N° Article	BI90	
		6,0	29°	0,15	1063Rb - 29° - r 0,15 -	✓	
		6,0	29°	0,35	1063Rb - 29° - r 0,35 -	✓	
		6,0	35°	0,15	1063Rb - 35° - r 0,15 -	✓	
		6,0	35°	0,35	1063Rb - 35° - r 0,35 -	✓	
<b>1063RO - r</b>	Back turning insert with chip roller and radius Drehplatte hinten mit Spanbrecher und Radius Tourneur arrière avec brise-copeau et rayon	L	$\alpha$	r	Article nr. Artikel Nr. N° Article	BI90	
		6,0	29°	0,15	1063RO - 29° - r 0,15 -	✓	
		6,0	29°	0,35	1063RO - 29° - r 0,35 -	✓	
		6,0	35°	0,15	1063RO - 35° - r 0,15 -	✓	
		6,0	35°	0,35	1063RO - 35° - r 0,35 -	✓	



Front turning  
 Drehen vorne  
 Tournage avant

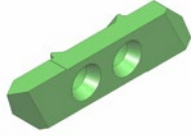
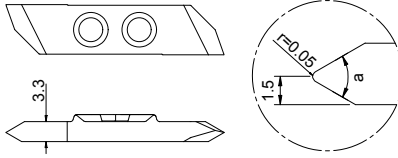
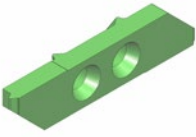
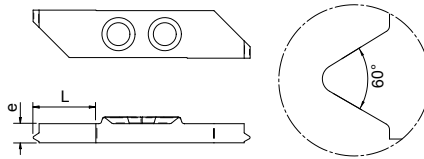
R : Right machining  
 R : Rechte Bearbeitung  
 R : Usinage à droite

1064R	Front turning insert Drehplatte vorne Tourneur avant	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI100
		6,0	1064R	✓	✓	✓
1065R	Front turning insert with chip breaker Drehplatte vorne mit Spanbrecher Tourneur avant avec brise-copeau	L	Article nr. Artikel Nr. N° Article	BI40	BI90	
		6,0	1065R	✓	✓	✓
1065R - r	Front turning insert with chip breaker and radius Drehplatte vorne mit Spanbrecher und Radius Tourneur avant avec brise-copeau et rayon	L	Article nr. Artikel Nr. N° Article	BI40		
		6,0	1065R - r 0,1 -			✓
		6,0	1065R - r 0,2 -			✓
1067RO	Front turning insert Drehplatte vorne Tourneur avant	e	Article nr. Artikel Nr. N° Article	BI90		
		0,5	1067RO0,5			✓



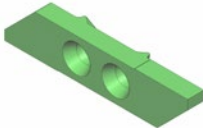
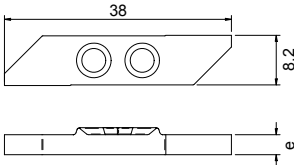
## Threading Gewindestrehlen Filetage

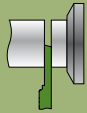
R : Right machining  
R : Rechte Bearbeitung  
R : Usinage à droite

1080R	Threading insert with partial profile Gewindeplatte mit Teilprofil Fileteur avec profil partiel	a	Article nr. Artikel Nr. N° Article	BI40	BI90		
		55°	1080R - 55° -	✓	✓		
		60°	1080R - 60° -	✓	✓		
1081R	Threading insert with full profile Gewindeplatte mit Vollprofil Fileteur avec profil complet	e	L	Pitch Teilung Pas	M	Article nr. Artikel Nr. N° Article	BI40
		1,0	3,0	0,45	2,5	1081R0,45	✓
		1,0	3,0	0,50	3	1081R0,5	✓
		1,0	3,0	0,60	-	1081R0,6	✓
		1,0	3,0	0,70	4	1081R0,7	✓
		1,5	4,5	0,80	5	1081R0,8	✓
		1,5	4,5	1,00	6	1081R1,0	✓
		1,5	4,5	1,25	4,5	1081R1,25	✓
		2,0	5,0	1,50	10	1081R1,5	✓
		2,0	5,0	1,75	12	1081R1,75	✓
		2,5	5,0	2,00	16	1081R2,0	✓

Blank  
Rohling  
Ebauche

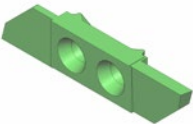
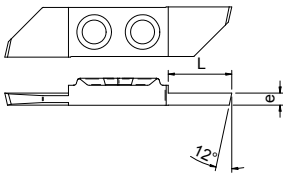
L : Left machining  
L : Linke Bearbeitung  
L : Usinage à gauche

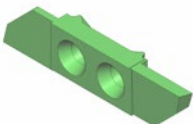
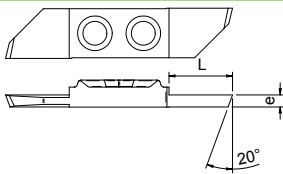
1040L	Blank insert Rohling Wendeplatte Plaquelette ébauche	e	Article nr. Artikel Nr. N° Article	BI40
		3,3	1040L3,3	✓

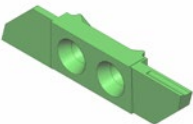
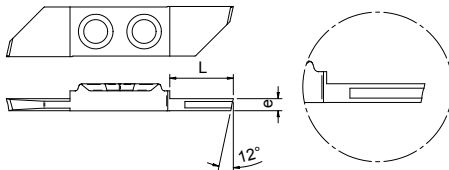


Guide bush cut off  $\varnothing$  20 mm  
Abstechen an der Führungsbüchse  $\varnothing$  20 mm  
Tronçonnage côté canon  $\varnothing$  20 mm

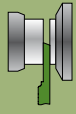
L : Left machining  
L : Linke Bearbeitung  
L : Usinage à gauche

1050L	Cutting insert 12° Abstechplatte 12° Tronçonneur 12°	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,0	5,0	1050L1,0	✓	✓
		1,2	6,0	1050L1,2	✓	✓
		1,5	7,5	1050L1,5	✓	✓
		1,8	9,0	1050L1,8	✓	
		2,0	10,5	1050L2,0	✓	✓
		2,5	10,5	1050L2,5	✓	✓
		3,0	10,5	1050L3,0	✓	✓

1052L	Cutting insert 20° Abstechplatte 20° Tronçonneur 20°	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,5	7,5	1052L1,5	✓	✓
		2,0	10,5	1052L2,0	✓	✓
		2,5	10,5	1052L2,5	✓	✓

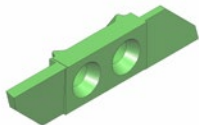
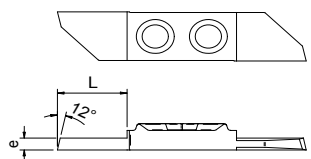
1054L	Cutting insert with chip roller Abstechplatte mit Spanroller Tronçonneur avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,5	7,5	1054L1,5	✓	✓
		2,0	10,5	1054L2,0	✓	✓
		2,5	10,5	1054L2,5		✓

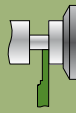




Sub spindle cut off  $\varnothing 20$  mm  
 Abstechen an der Abgreifzange  $\varnothing 20$  mm  
 Tronçonnage côte prise de pièce  $\varnothing 20$  mm

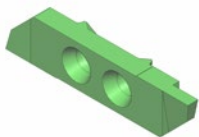
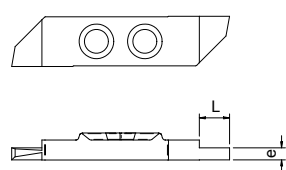
L : Left machining  
 L : Linke Bearbeitung  
 L : Usinage à gauche

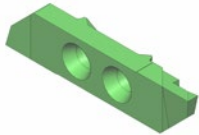
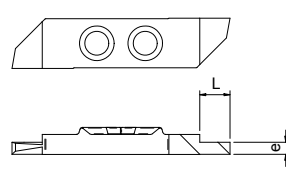
1053L	Opposite cutting insert 12° Umgekehrte Abstechplatte 12° Tronçonneur inversé 12°	e	L	Article nr. Artikel Nr. N° Article	BI40
		1,2	6,0	1053L1,2	✓
		1,5	7,5	1053L1,5	✓
		2,0	10,5	1053L2,0	✓
Use with 10xxR tool holders Verwendung mit 10xxR Werkzeughalter Utilisation avec les porte-outils 10xxR					

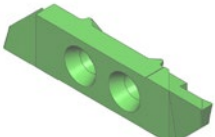
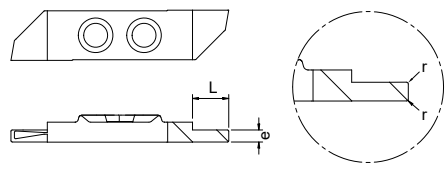


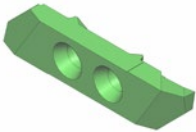
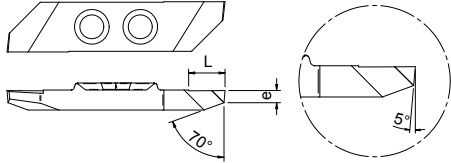
Back turning  
 Drehen hinten  
 Tournage arrière

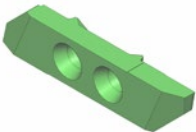
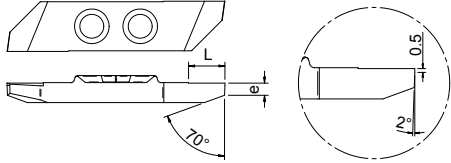
L : Left machining  
 L : Linke Bearbeitung  
 L : Usinage à gauche

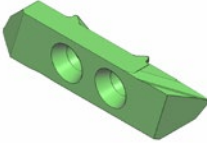
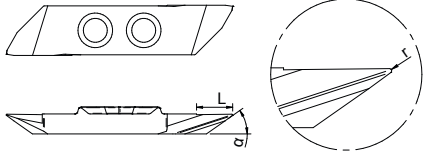
1060LP	Back turning insert 0° Drehplatte hinten 0° Tourneur arrière 0°	e	L	Article nr. Artikel Nr. N° Article	BI40
		0,5	2,0	1060LP0,5	✓
		0,8	2,0	1060LP0,8	✓
		1,0	3,0	1060LP1,0	✓
		1,5	4,0	1060LP1,5	✓
		2,0	5,0	1060LP2,0	✓
		2,5	6,0	1060LP2,5	✓
		3,0	6,0	1060LP3,0	✓

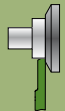
1061L	Back turning insert with «parisian cut» Drehplatte hinten mit «Pariserschliff» Tourneur arrière avec «coupe parisienne»	e	L	Article nr. Artikel Nr. N° Article	BI40
		1,0	3,0	1061L1,0	✓
		1,5	4,0	1061L1,5	✓
		1,8	4,0	1061L1,8	✓
		2,0	5,0	1061L2,0	✓
		2,5	6,0	1061L2,5	✓
		3,0	7,5	1061L3,0	✓

1061L - r	Back turning insert with «parisian cut» and radii Drehplatte hinten mit «Pariserschliff» und Radien Tourneur arrière avec «coupe parisienne» et rayons	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90
		1,5	4,0	1061L1,5 - r 0,1 -	✓	
		1,5	4,0	1061L1,5 - r 0,2 -	✓	✓
		2,0	5,0	1061L2,0 - r 0,1 -	✓	✓
		2,0	5,0	1061L2,0 - r 0,2 -	✓	✓
		2,5	6,0	1061L2,5 - r 0,1 -	✓	
		2,5	6,0	1061L2,5 - r 0,2 -	✓	
		3,0	6,0	1061L3,0 - r 0,2 -	✓	
		3,0	6,0	1061L3,0 - r 0,2 -	✓	✓

1062L	Back turning insert with «parisian cut» Drehplatte hinten mit «Pariserschliff» Tourneur arrière avec «coupe parisienne»			Article nr. Artikel Nr. N° Article	BI40	BI90
		e	L			
		1,0	6,0	1062L1,0	✓	✓
		1,5	6,0	1062L1,5	✓	
		2,0	6,0	1062L2,0	✓	

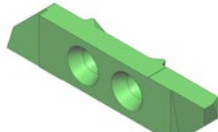
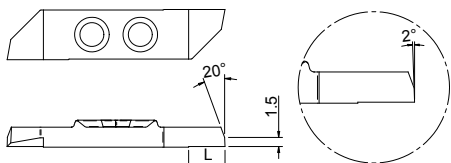
1062LO	Back turning insert Drehplatte hinten Tourneur arrière			Article nr. Artikel Nr. N° Article	BI40
		e	L		
		1,0	5,0	1062LO1,0	✓
		1,5	6,0	1062LO1,5	✓
		2,0	7,5	1062LO2,0	✓

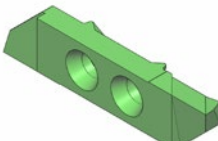
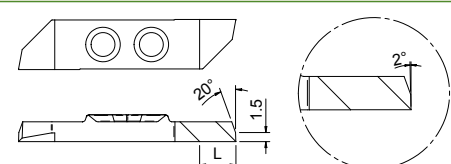
1063Lb - r	Back turning insert with chip roller and radius Drehplatte hinten mit Spanbrecher und Radius Tourneur arrière avec brise-copeau et rayon				Article nr. Artikel Nr. N° Article	BI90
		L	α	r		
		6,0	29°	0,15	1063Lb - 29° - r 0,15 -	✓
		6,0	29°	0,35	1063Lb - 29° - r 0,35 -	✓
		6,0	35°	0,15	1063Lb - 35° - r 0,15 -	✓
		6,0	35°	0,35	1063Lb - 35° - r 0,35 -	✓

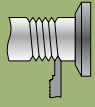


**Front turning**  
Drehen vorne  
Tournage avant

L : Left machining  
L : Linke Bearbeitung  
L : Usinage à gauche

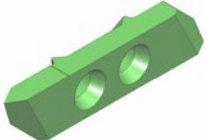
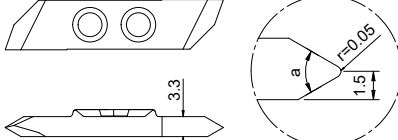
1064L	Front turning insert Drehplatte vorne Tourneur avant			Article nr. Artikel Nr. N° Article	BI40	TIN
		L				
		6,0		1064L	✓	✓

1065L	Front turning insert with chip breaker Drehplatte vorne mit Spanbrecher Tourneur avant avec brise-copeau			Article nr. Artikel Nr. N° Article	BI40
		L			
		6,0		1065L	✓



Threading  
Gewindestrehlen  
Filetage

L : Left machining  
L : Linke Bearbeitung  
L : Usinage à gauche

1080L	Threading insert with partial profile Gewindeplatte mit Teilprofil Fileteur avec profil partiel	a	Article nr. Artikel Nr. N° Article	B140
		55°	1080L - 55° -	✓
		60°	1080L - 60° -	✓



Represented by    Vertreten durch    Représenté par

