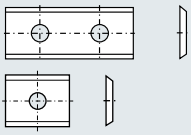
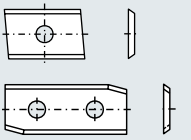
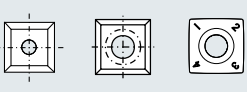
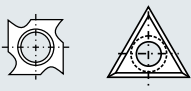
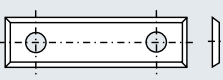
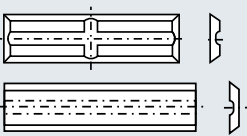
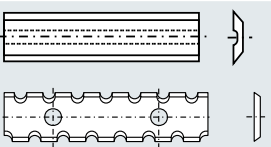
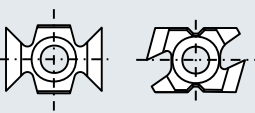


- EN Reversible knives and edge rounding knives
- DE Wendeschneidplatten und Kantenrunder
- FR Plaquettes réversibles et couteaux brise-arrête
- IT Coltelli reversibili e spigolatori
- ES Cuchillas reversibles y cuchillas para aristas

- EN Reversible knives and edge rounding knives
 DE Wendeschneidplatten und Kantenrunder
 FR Plaquettes réversibles et couteaux brise-arrêt
 IT Coltelli reversibili e spigolatori
 ES Cuchillas reversibles y cuchillas para aristas

| | | |
|---|--|----------------|
|  | <p>EN Standard reversible knives 35° + 45° DE Standard Wendeschneidplatten 35° + 45° FR Plaquettes réversibles standard 35° + 45° IT Coltelli reversibili standard 35° + 45° ES Cuchillas reversibles standard 35° + 45°</p> | <p>24 - 26</p> |
|  | <p>EN Reversible knives DE Wendeschneidplatten FR Plaquettes réversibles IT Coltelli reversibili ES Cuchillas reversibles</p> | <p>27</p> |
|  | <p>EN Square knives DE Quadratische Wendeschneidplatten FR Plaquettes réversibles à quatre coupes IT Coltelli reversibili quadrati ES Cuchillas reversibles cuadradas</p> | <p>28 - 30</p> |
|  | <p>EN Spurs, grooving knives DE Vorschneider, Nuter FR Araseur, couteaux pour rainures IT Rasanti, coltelli per incastri ES Incisores, cuchillas para ranura</p> | <p>31</p> |
|  | <p>EN 4 cutting edges / special knives DE 4 Schneidkanten / Sondermesser FR 4 tranchants / couteaux spéciaux IT 4 taglienti / coltelli speciali ES 4 filos de corté / cuchillas especiales</p> | <p>32</p> |
|  | <p>EN Face groove, back groove and crossgroove DE Brust-, Rücken- und Quernut FR Rainure sur grande face, sur petite face et transversal IT Scanalatura frontale, posteriore e di sicurezza ES Ranura frontal, de lomo y transversal</p> | <p>33</p> |
|  | <p>EN Systems Leitz, Oertli, KWO/Versofix DE Systeme Leitz, Oertli, KWO/Versofix FR Systèmes Leitz, Oertli, KWO/Versofix IT Sistemi Leitz, Oertli, KWO/Versofix ES Sistemas Leitz, Oertli, KWO/Versofix</p> | <p>34 - 35</p> |
|  | <p>EN Edge rounding knives DE Kantenrunder FR Couteaux brise-arrêt IT Spigolatori ES Cuchillas para aristas</p> | <p>36</p> |

- EN Reversible knives - Carbide grades and their applications
 DE Wendeschneidplatten - Hartmetallsorten und ihre Anwendungen
 FR Plaquettes réversibles - Les nuances de carbures et leurs applications
 IT Coltelli reversibili - I tipi di metallo duro e le loro applicazioni
 ES Cuchillas reversibles - Calidades de metal duro y sus aplicaciones

| EN TIGRA grade | ISO | USA | Hardness | Toughness | Bending strength |
|-----------------------------|------------------|--------------|----------|-----------|--------------------------|
| DE TIGRA - Sorte | ISO | USA | Härte | Zähigkeit | Biegebruchfestigkeit |
| FR Nuance TIGRA | ISO | USA | Dureté | Ténacité | Résistance à la flexion |
| IT Tipo TIGRA | ISO | Stati uniti | Durezza | Tenacità | Resistenza flessionale |
| ES Calidad TIGRA | ISO | EE.UU. | Dureza | Tenacidad | Resistencia a la flexión |
| T02MG-CR | K01 | C4+++ | ↑ | ↓ | ↓ |
| T02SMG | K01 | C4+++ | ↑ | ↓ | ↓ |
| T03SMG | K01 | C4++ | ↗ | ↘ | → |
| T04MG-CR | K01 | C4+ | → | → | → |
| T04F-CR UNIVERSAL | K05 | C4 | → | ↗ | → |
| T05UMG | K01 - K10 | C3++ | ↗ | ↘ | ↗ |
| T08MF | K30 | C2 | ↘ | ↑ | ↗ |
| T10MG-E | K10 - K40 | C3+ | ↘ | ↗ | ↗ |
| T10MG | K10 - K40 | C3+ | ↘ | ↗ | ↑ |
| T12SMG | | C1++ | ↘ | ↑ | ↑ |
| TL15* | K10 - K40 | C3+ | ↘ | ↑ | ↑ |

CR = Co + Ni + CR = corrosion resistant - korrosionsbeständig - anti-corrosif - inossidabile - anticorrosivo

* Special binder - Spezialbinder - Liant spécial - Legante speciale - Composición especial





EN For technical data, please refer to the pages 4-5.

DE Die technischen Daten entnehmen Sie bitte den Seiten 4-5.

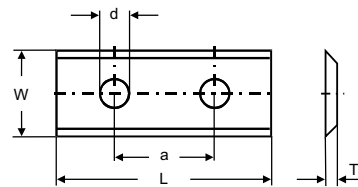
FR Pour les données techniques, veuillez voir aux pages 4-5.

| Plastics Plastik Plastiques Plastica Plásticos | HDF HDF HDF HDF HDF | MDF MDF MDF MDF MDF | Chipboard Spanplatte Panneaux de particule Truciolare Panel de aglomerado | Hardwood Hartholz Bois dur Legno duro Madera dura | Softwood Weichholz Bois tendre Legno tenero Madera blanda | Main usage Hauptverwendung Usage principal Usò principale Usò principal |
|--|---------------------------------|---------------------------------|---|---|---|---|
| ✓ | ✓ | ✓ | ○ | ☒ | ☒ | EN MDF, HDF DE MDF, HDF FR MDF, HDF IT MDF, HDF ES MDF, HDF |
| ✓ | ✓ | ✓ | ○ | ☒ | ☒ | EN Chipboard, MDF, HDF DE Spanplatte, MDF, HDF FR Panneaux, MDF, HDF IT Truciolare, MDF, HDF ES Aglomerados, MDF, HDF |
| ✓ | ✓ | ✓ | ✓ | ☒ | ☒ | EN Chipboard, MDF DE Spanplatte, MDF FR Panneaux, MDF IT Truciolare, MDF ES Aglomerados, MDF |
| ✓ | ○ | ✓ | ✓ | ✓ | ○ | EN Tropical wood, very hard wood, chipboard, MDF DE Tropenholz, sehr hartes Holz, Spanplatte, MDF FR Bois tropical, bois très dur, panneaux, MDF IT Legni tropicali, legni molto duri, truciolare, MDF ES Madera tropical, madera muy dura, aglomerado, MDF |
| ✓ | ○ | ✓ | ✓ | ✓ | ✓ | EN Universal use DE Universeller Einsatz FR Utilisation universelle IT Uso universale ES Uso universal |
| ✓ | ☒ | ○ | ☒ | ✓ | ✓ | EN Special reversible knives DE Spezial-Wendeschneidplatten FR Plaquettes réversibles spéciales IT Coltelli reversibili speciali ES Cuchillas reversibles especiales |
| ☒ | ☒ | ☒ | ☒ | ✓ | ✓ | EN Grooving knives DE Nuter FR Couteaux pour rainures IT Coltelli per incastri ES Cuchillas para ranura |
| ☒ | ☒ | ☒ | ☒ | ✓ | ✓ | EN Wood, low price demands DE Holz, niedriger Preis FR Bois, prix bas IT Legno, prezzo ridotto ES Madera, precio economico |
| ○ | ☒ | ☒ | ☒ | ✓ | ✓ | EN 45° reversible knives, planer knives, softwood DE 45°-Wendeschneidplatten, Hobelkopfplatten, Weichholz FR Plaquettes 45°, couteaux pour outils à raboter, bois tendre IT Coltelli a 45°, coltelli per teste da pialla, legni teneri ES Cuchillas 45°, cuchillas para cepillar, madera blanda |
| ☒ | ☒ | ☒ | ☒ | ✓ | ✓ | EN Best surface, high speed cutting (HSC) DE Beste Oberfläche, HSC FR Meilleure surface, HSC IT Migliore superficie, HSC ES Mejor superficie, HSC |
| ○ | ☒ | ☒ | ☒ | ✓ | ✓ | EN 45° reversible knives, wood with knots DE 45°-Wendeschneidplatten, Holz mit Ästen FR Plaquettes 45°, bois avec des noeuds IT Coltelli a 45°, legni nodosi ES Cuchillas 45°, madera con nudos |

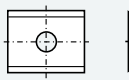
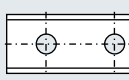
IT Per i dati tecnici, fare riferimento alle pagine 4-5.
ES Para los datos técnicos, consulte las páginas 4-5.


 best performance
  acceptable
 very good performance
  not suitable

- EN Standard reversible knives
- DE Standard-Wendeschneidplatten
- FR Plaquettes réversibles standard
- IT Coltelli reversibili standard
- ES Cuchillas reversibles standard

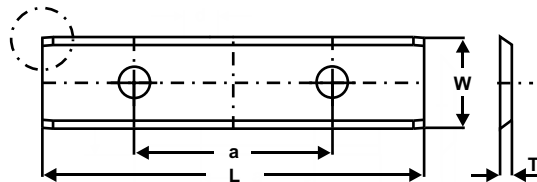


35°

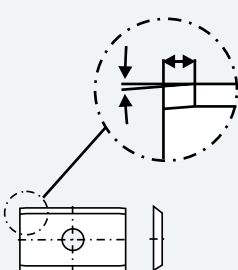
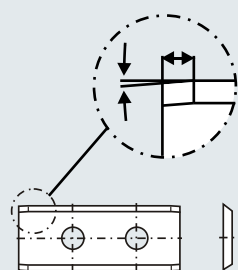
| | L mm | W mm | T mm | a mm | T04F-CR | T02SMG | T03SMG | T04MG-CR | T10MG | T10MG-E |
|---|---------|---------|---------|---------|---------|--------|--------|----------|--------|---------|
|  | 7.5 | 12.0 | 1.5 | | 012001 | | 013811 | 106822 | 013963 | 142721 |
| | 8.6 | 12.0 | 1.5 | | 013182 | | | | | |
| | 9.0 | 12.0 | 1.5 | | 012043 | | | | | |
| | 9.6 | 12.0 | 1.5 | | 012015 | | 013850 | 106823 | 014010 | 142722 |
| | 10.0 | 12.0 | 1.5 | | 013165 | | | | | |
| | 10.5 | 12.0 | 1.5 | | 013167 | | | | | |
| | 11.0 | 12.0 | 1.5 | | 013168 | | | | | |
| | 11.6 | 12.0 | 1.5 | | 013183 | | | | | |
| | 13.0 | 12.0 | 1.5 | | 013170 | | | | | |
| | 13.6 | 12.0 | 1.5 | | 013185 | | | | | |
| | 14.6 | 12.0 | 1.5 | | 013186 | | | | | |
| | 15.0 | 12.0 | 1.5 | | 012003 | 052277 | 013819 | 106824 | 013972 | 142723 |
| | 15.7 | 12.0 | 1.5 | | 013172 | | | | | |
| | 16.0 | 12.0 | 1.5 | | 013203 | | | | | |
| | 17.0 | 12.0 | 1.5 | | 013173 | | | | | |
| | 18.0 | 12.0 | 1.5 | | 013174 | | | | | |
| 19.0 | 12.0 | 1.5 | | 013175 | | | | | | |
| 20.0 | 12.0 | 1.5 | | 012004 | 041587 | 013823 | 104796 | 013977 | 127452 | |
| 25.0 | 12.0 | 1.5 | | 012025 | | 013853 | 106826 | 014013 | | |
|  | 25.0 | 12.0 | 1.5 | 14.0 | 012011 | | 013843 | 106827 | 014001 | |
| | 30.0 | 12.0 | 1.5 | 14.0 | 012005 | 037750 | 013828 | 104795 | 013982 | 125424 |
| | 35.0 | 12.0 | 1.5 | 26.0 | 013208 | | | | | |
| | 40.0 | 12.0 | 1.5 | 26.0 | 012014 | 052278 | 013847 | 106828 | 014006 | 127453 |
| | 50.0 | 12.0 | 1.5 | 26.0 | 012006 | 037901 | 013834 | 106829 | 013987 | 125425 |
| | 60.0 | 12.0 | 1.5 | 26.0 | 012007 | 054882 | 013839 | 106830 | 013994 | 127454 |

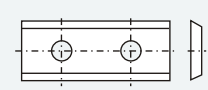
| | L mm | W mm | T mm | a mm | T08MF | T03SMG | T04MG-CR | T10MG |
|---|---------|---------|---------|---------|--------|--------|----------|--------|
|  | 80.0 | 13.0 | 2.2 | 60.0 | 012008 | 013841 | 106831 | 013997 |
| | 100.0 | 13.0 | 2.2 | 60.0 | 012009 | 030831 | 106832 | 013998 |
| | 120.0 | 13.0 | 2.2 | 60.0 | 012010 | 030832 | 106833 | 013999 |

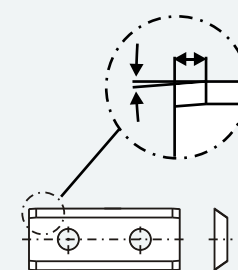
- EN Reversible knives
- DE Wendeschneidplatten
- FR Plaquettes réversibles
- IT Coltelli reversibili
- ES Cuchillas reversibles



For use in planer heads!
Für Hobelköpfe!

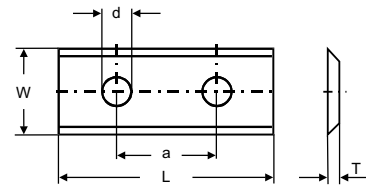
| | L mm | W mm | T mm | | T04F-CR | T04MG-CR | T10MG |
|--|---------|---------|---------|-----|---------|----------|--------|
|  | 20.0 | 12.0 | 1.5 | 35° | | 106674 | 013979 |
| | 20.0* | 12.0 | 1.5 | 45° | | | 041948 |
| | 24.0 | 12.0 | 1.5 | 40° | 104119 | 106675 | 041060 |
| | 24.7 | 12.0 | 1.5 | 35° | 104120 | 106676 | |
|  | 30.0 | 12.0 | 1.5 | 35° | 112875 | 106677 | 013984 |
| | 50.0 | 12.0 | 1.5 | 35° | | | 013989 |

| | L mm | W mm | T mm | | T04F-CR |
|---|---------|---------|---------|-----|---------|
|  | 30.0 | 12.0 | 2.5 | 35° | 054259 |

| | L mm | W mm | T mm | | T04F-CR |
|---|---------|---------|---------|-----|---------|
|  | 30.0 | 12.0 | 2.5 | 35° | 102283 |

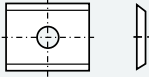
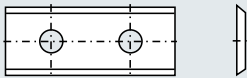

* EN System Hundegger
 * DE System Hundegger
 * FR Système Hundegger
 * IT Sistema Hundegger
 * ES Sistema Hundegger

- EN Reversible knives
- DE Wendeschneidplatten
- FR Plaquettes réversibles
- IT Coltelli reversibili
- ES Cuchillas reversibles

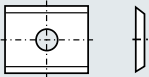
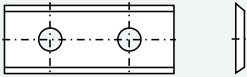

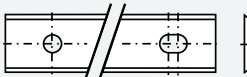


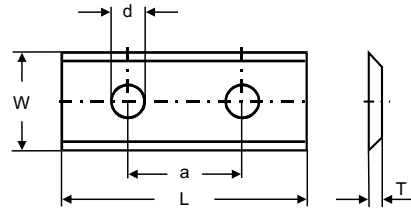
45°

POLISHED


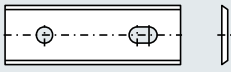
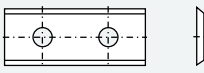
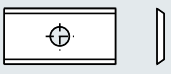
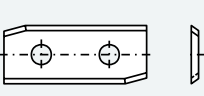
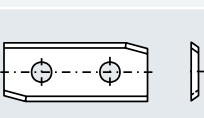
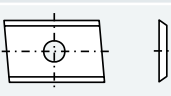
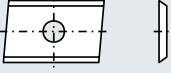
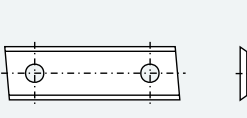
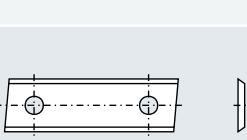
| | L mm | W mm | T mm | a mm | | T10MG |
|--|---------|---------|---------|---------|-----|--------|
|  | 7.5 | 12.0 | 1.5 | | 45° | 014093 |
| | 9.6 | 12.0 | 1.5 | | 45° | 014117 |
| | 15.0 | 12.0 | 1.5 | | 45° | 014099 |
| | 20.0 | 12.0 | 1.5 | | 45° | 014101 |
| | 25.0 | 12.0 | 1.5 | | 45° | 014124 |
|  | 25.0 | 12.0 | 1.5 | 14.0 | 45° | 014111 |
| | 30.0 | 12.0 | 1.5 | 14.0 | 45° | 014103 |
| | 40.0 | 12.0 | 1.5 | 26.0 | 45° | 014114 |
| | 50.0 | 12.0 | 1.5 | 26.0 | 45° | 014106 |
| | 60.0 | 12.0 | 1.5 | 26.0 | 45° | 014108 |
|  | 12.0 | 12.0 | 1.5 | | 45° | 014097 |

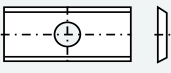
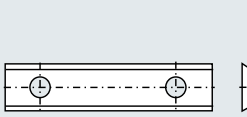
NOT POLISHED

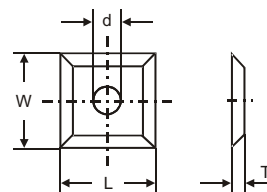
| | L mm | W mm | T mm | a mm | | T08MF | T10MG |
|---|---------|---------|---------|---------|-----|--------|--------|
|  | 7.5 | 12.0 | 1.5 | | 45° | | 014091 |
| | 9.6 | 12.0 | 1.5 | | 45° | | 014115 |
| | 15.0 | 12.0 | 1.5 | | 45° | | 014098 |
| | 20.0 | 12.0 | 1.5 | | 45° | | 014100 |
| | 25.0 | 12.0 | 1.5 | | 45° | | 014123 |
|  | 25.0 | 12.0 | 1.5 | 14.0 | 45° | | 014110 |
| | 30.0 | 12.0 | 1.5 | 14.0 | 45° | | 014102 |
| | 40.0 | 12.0 | 1.5 | 26.0 | 45° | | 014113 |
| | 50.0 | 12.0 | 1.5 | 26.0 | 45° | | 014105 |
| | 60.0 | 12.0 | 1.5 | 26.0 | 45° | | 014107 |
|  | 12.0 | 12.0 | 1.5 | | 45° | | 014096 |
|  | 80.0 | 13.0 | 2.2 | 60.0 | 45° | 013532 | 038233 |



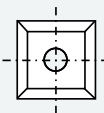
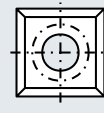
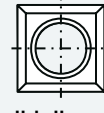
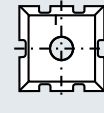
EN Reversible knives
 DE Wendeschneidplatten
 FR Plaquettes réversibles
 IT Coltelli reversibili
 ES Cuchillas reversibles

| | L mm | W mm | T mm | a mm | T04F-CR |
|---|----------------------|----------------------|-------------------|----------------------|----------------------------|
|  | 20.0 | 14.3 | 2.5 | | 013730 |
|  | 44.5 | 15.0 | 1.5 | 25.0 | 013447 |
|  | 30.0 | 12.0 | 1.5 | 16.0 | 013449 |
|  | 24.0 | 12.0 | 1.5 | | 013241 |
|  | 30.0 50.0 | 12.0 12.0 | 1.5 1.5 | 14.0 26.0 | 013430 013432 |
|  | 30.0 50.0 | 12.0 12.0 | 1.5 1.5 | 14.0 26.0 | 013431 013433 |
|  | 20.0 | 12.0 | 1.5 | | 013436 |
|  | 20.0 | 12.0 | 1.5 | | 013441 |
|  | 30.0 40.0 50.0 | 12.0 12.0 12.0 | 1.5 1.5 1.5 | 14.0 26.0 26.0 | 013437 013440 013438 |
|  | 30.0 40.0 50.0 | 12.0 12.0 12.0 | 1.5 1.5 1.5 | 14.0 26.0 26.0 | 013442 013445 013443 |

| | L mm | W mm | T mm | a mm | T04F-CR |
|---|----------------------|-------------------|-------------------|----------------------|----------------------------|
|  | 20.0 | 9.0 | 1.5 | | 013195 |
|  | 30.0 40.0 50.0 | 9.0 9.0 9.0 | 1.5 1.5 1.5 | 14.0 26.0 26.0 | 013199 013200 013201 |

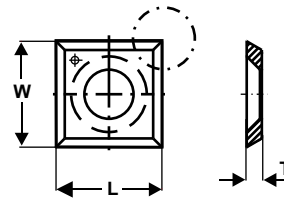


- EN Square knives
- DE Quadratische Wendschneidplatten
- FR Plaquettes réversibles à quatre coupes
- IT Coltelli reversibili quadrati
- ES Cuchillas reversibles cuadradas

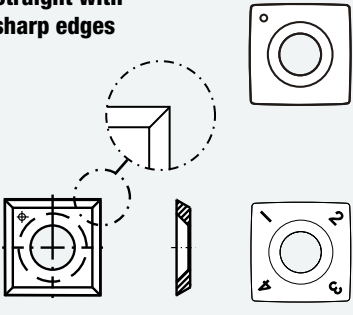


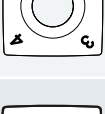

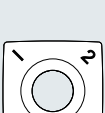


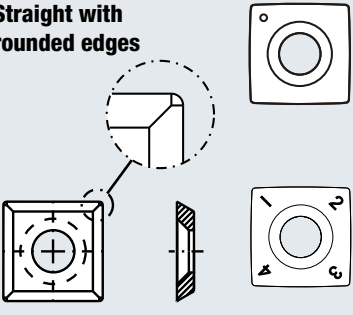

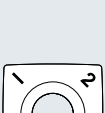
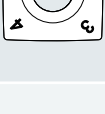

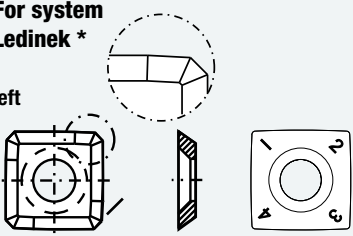
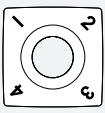
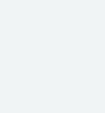
| | L | W | T | | d | T08MF | T04F-CR | T02SMG | T03SMG | T04MG-CR | T10MG | T10MG-E |
|---|------|------|-----|-----|-----|--------|---------|--------|--------|----------|--------|---------|
| | mm | mm | mm | | mm | | | | | | | |
|  | 9.0 | 9.0 | 1.5 | 35° | 4.0 | | 100744 | | | | | |
| | 10.5 | 10.5 | 1.5 | 35° | 4.0 | | 013259 | | 013863 | | | |
| | 12.0 | 12.0 | 1.5 | 35° | 4.0 | | 012002 | 048357 | 013815 | 106835 | 013968 | 140093 |
| | 13.0 | 13.0 | 2.5 | 35° | 4.0 | 013328 | | | | | | |
| | 17.0 | 17.0 | 2.0 | 35° | 3.0 | 016565 | 016564 | | | | | |
| | 17.0 | 17.0 | 2.0 | 35° | 4.0 | 013266 | 013265 | | 013864 | 106836 | 030830 | |
| | 19.0 | 19.0 | 2.0 | 35° | 4.0 | | 013264 | | | | | |
|  | 10.5 | 10.5 | 1.5 | 35° | | | | | | 106682 | | |
| | 13.0 | 13.0 | 2.5 | 30° | | 013324 | | | | | | |
| | 13.6 | 13.6 | 2.0 | 30° | | 013299 | | | | | | |
| | 13.6 | 13.6 | 2.0 | 45° | | 037522 | | | | | | |
| | 14.0 | 14.0 | 1.2 | 30° | | 013295 | | | | | | |
| | 14.0 | 14.0 | 1.7 | 22° | | 013297 | | | | | | |
| | 14.0 | 14.0 | 1.7 | 30° | | 013307 | | | | | | |
| | 14.0 | 14.0 | 2.0 | 30° | | 013273 | 013260 | 054962 | 013865 | 102558 | 014028 | 140094 |
|  <p>For Holz-Her system*</p> | 14.0 | 14.0 | 1.2 | 30° | | 013303 | | | | | | |
|  | 15.0 | 15.0 | 2.0 | | | 013322 | | | | | | |

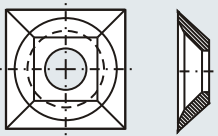
* EN For use in Holz-Her cutterheads only
 * DE Nur zur Verwendung in Messerköpfen der Firma Holz-Her
 * FR Utilisation limitée aux porte outils de l'entreprise Holz-Her
 * IT Da usare solo su teste portacoltelli della Holz-Her
 * ES Sólo para empleo con portacuchillas de la firma Holz-Her

- EN Square knives
 DE Quadratische Wendschneidplatten
 FR Plaquettes réversibles à quatre coupes
 IT Coltelli reversibili quadrati
 ES Cuchillas reversibles cuadradas

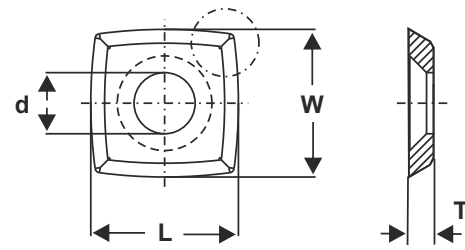


For use in planer heads!
 Für Hobelköpfe!

| | | L | W | T | | T08MF | T04F-CR | T10MG | T04MG-CR | TL15 | T10MG-E |
|---|---|------|------|-----|-----|--------|---------|--------|----------|--------|---------|
| | | mm | mm | mm | | | | | | | |
| Straight with sharp edges  |  | 10.5 | 10.5 | 1.5 | 35° | | | | 106682 | 040343 | |
| |  | 14.0 | 14.0 | 2.0 | 30° | 013273 | 013260 | 014028 | 102558 | 013771 | 140094 |
| |  | 14.0 | 14.0 | 2.0 | 37° | 104295 | | 104900 | | | |
| |  | 14.3 | 14.3 | 2.5 | 35° | | | 013329 | 106683 | | |
| |  | 14.6 | 14.6 | 2.5 | 30° | | | 013314 | 106684 | | |
| |  | 15.0 | 15.0 | 2.5 | 30° | | | 013315 | 106685 | | |
| |  | 15.0 | 15.0 | 2.5 | 37° | | | 104062 | | | |
| Straight with rounded edges  |  | 14.0 | 14.0 | 2.0 | 30° | 013276 | | 104117 | | | |
| |  | 14.6 | 14.6 | 2.5 | 30° | | | 013316 | | | |
| |  | 15.0 | 15.0 | 2.5 | 30° | | | 104118 | | | |
| |  | 15.0 | 15.0 | 2.5 | 37° | | | 109384 | | | |
| For system Ledinek * left  |  | 14.3 | 14.3 | 2.5 | 35° | | | 053589 | | | |
| |  | 14.3 | 14.3 | 2.5 | 35° | | | 053590 | | | |

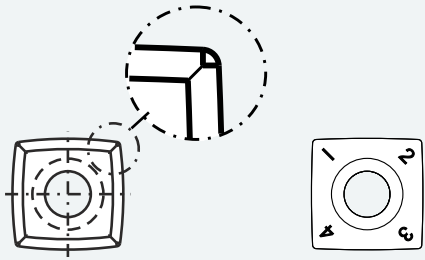
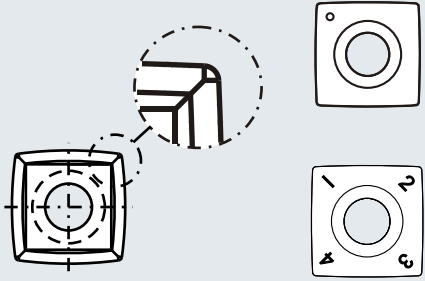
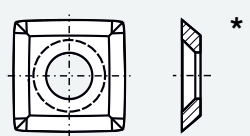
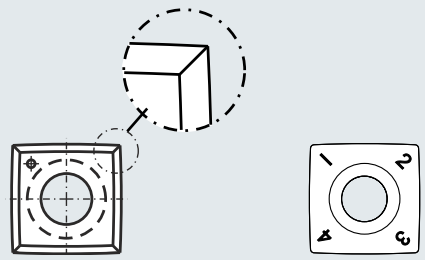
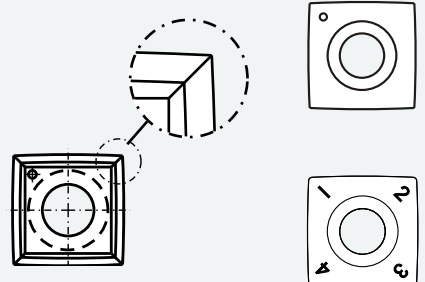
| | | L | W | T | | T08MF | T04F-CR | T10MG | T04MG-CR | TL20 | T10MG-E |
|---|--|------|------|-----|-----|-------|---------|--------|----------|--------|---------|
| | | mm | mm | mm | | | | | | | |
|  | | 21.0 | 21.0 | 5.5 | 40° | | | 022695 | | 142724 | 140092 |

* EN For use in Ledinek-cutterheads only
 * DE Nur zur Verwendung in Messerköpfen der Firma Ledinek
 * FR Utilisation limitée aux porte outils de l'entreprise Ledinek
 * IT Da usare solo su teste portacoltelli della Ledinek
 * ES Sólo para empleo con portacuchillas de la firma Ledinek

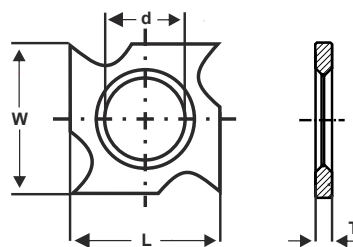


For use in planer heads!
Für Hobelköpfe!

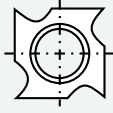




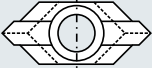

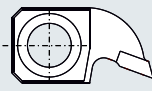

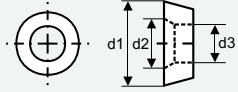
- EN Square knives
- DE Quadratische Wendschneidplatten
- FR Plaquettes réversibles à quatre coupes
- IT Coltelli reversibili quadrati
- ES Cuchillas reversibles cuadradas

| | L | W | T | R | | T10MG | T10MG-E |
|---|------|------|-----|-------|-----|--------|---------|
| | mm | mm | mm | | | | |
| Cutting edge with radius and rounded edges | | | | | | | |
|  | 15.0 | 15.0 | 2.5 | R=150 | 30° | 101540 | 140096 |
| | 15.0 | 15.0 | 2.5 | R=115 | 30° | 115179 | |
|  | 14.0 | 14.0 | 2.0 | R=150 | 30° | 100788 | |
| | 14.6 | 14.6 | 2.5 | R=150 | 30° | 052673 | |
| | 15.0 | 15.0 | 2.5 | R=50 | 30° | 043895 | 140095 |
| | 15.0 | 15.0 | 2.5 | R=180 | 30° | 129329 | |
| | 15.0 | 15.0 | 2.5 | R=200 | 30° | 118997 | |
|  | 15.0 | 15.0 | 2.5 | R=170 | 40° | 130366 | |
| Cutting edge with radius and pointed edges | | | | | | | |
|  | 15.0 | 15.0 | 2.5 | R=150 | 30° | 100791 | |
| | 15.0 | 15.0 | 2.5 | R=100 | 30° | 101180 | |
|  | 14.0 | 14.0 | 2.0 | R=150 | 30° | 100789 | |
| | 14.6 | 14.6 | 2.5 | R=150 | 30° | 100790 | |
| | 15.0 | 15.0 | 2.5 | R=50 | 30° | 101044 | |

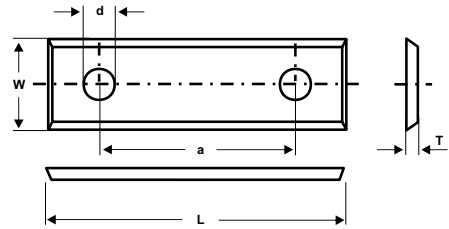
* EN System Hundegger
 * DE System Hundegger
 * FR Système Hundegger
 * IT Sistema Hundegger
 * ES Sistema Hundegger

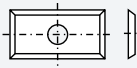
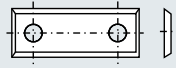

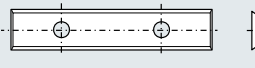
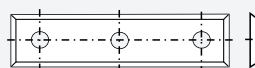
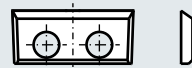
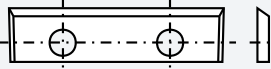
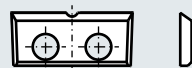
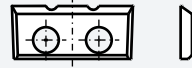
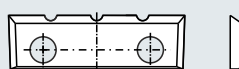
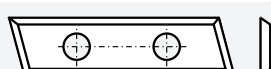


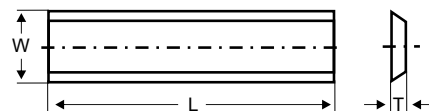
- EN Spurs, grooving knives
- DE Vorschneider, Nuter
- FR Araseur, couteaux pour rainures
- IT Rasanti, coltelli per scanalature
- ES Incisores, cuchillas para ranura

| | L mm | W mm | T mm | | d mm | T08MF | T04F-CR | T06MF | T10MG |
|---|----------|----------|----------|---------|---------|--------|---------|--------|--------|
|  | 18.0 | 18.0 | 1.95 | | | 013293 | | | |
| | 18.0 | 18.0 | 2.45 | | | 013291 | | | |
| | 18.0 | 18.0 | 2.95 | | | 013305 | | | |
| | 18.0 | 18.0 | 3.70 | | | 013289 | | | |
|  | 22.9 | 19.8 | 2.5 | 30° | | 045180 | | | |
| | 22.0 | 19.0 | 2.0 | 30° | | 013271 | | | |
| | (22.0 | 22.0 | 2.0) | | | | | | |
|  | 14.0 | 28.0 | 2.0 | 30° | | 013258 | | | |
| | 16.0 | 16.0 | 3.0 | 32° | | 030829 | | | |
|  | 18.5 | | 3.25 | 30° | | | | | 017190 |
|  | 33.5 | | | | 3.0 | 013252 | | | |
|  | 18.9 | 7.9 | 4.0 | | | 013253 | | | |
|  | 18.0 | 5.7 | 3.5 | | | | 013255 | | |
|  | 24.5 | 13.0 | 4.0 | | | | | 053640 | |
| | 24.5 | 13.0 | 5.0 | | | | | 053641 | |
| | 24.5 | 13.0 | 6.0 | | | | | 053642 | |
|  | 34.0 | 16.0 | 4.0 | | | | | 013278 | |
| | 34.0 | 16.0 | 5.0 | | | | | 013279 | |
| | 34.0 | 16.0 | 6.0 | | | | | 013280 | |
| | 34.0 | 16.0 | 7.0 | | | | | 013281 | |
| | d1 mm | d2 mm | d3 mm | T mm | | | | | T03SMG |
|  | 11.0 | 7.0 | 5.1 | 4.0 | | | | | 013373 |

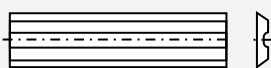
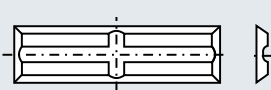
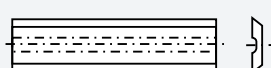
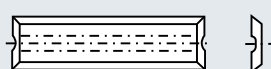
EN 4 cutting edges / special knives
 DE 4 Schneidkanten / Sondermesser
 FR 4 tranchants / couteaux spéciaux
 IT 4 taglienti / coltelli speciali
 ES 4 filos de corte / cuchillas especiales

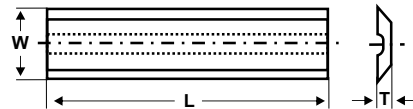


| | L mm | W mm | T mm | a mm | T04F-CR | T02SMG | T03SMG | T10MG |
|---|---------|---------|---------|---------|---------|--------|--------|--------|
|  | 19.5 | 7.0 | 1.5 | | 013492 | | | |
| | 19.5 | 7.5 | 1.5 | | 013493 | | | |
| | 19.5 | 8.0 | 1.5 | | 013494 | | | |
| | 19.5 | 9.0 | 1.5 | | 013495 | | | |
| | 19.5 | 10.0 | 1.5 | | 013496 | | | |
| | 19.5 | 11.0 | 1.5 | | 013497 | | | |
| | 19.5 | 12.0 | 1.5 | | 013498 | 054963 | 013947 | |
|  | 29.5 | 7.0 | 1.5 | 14.0 | 013501 | | | |
| | 29.5 | 7.5 | 1.5 | 14.0 | 013502 | | | |
| | 29.5 | 8.0 | 1.5 | 14.0 | 013503 | | | |
| | 29.5 | 9.0 | 1.5 | 14.0 | 013504 | 054432 | | |
| | 29.5 | 10.0 | 1.5 | 14.0 | 013505 | | | |
| | 29.5 | 11.0 | 1.5 | 14.0 | 013506 | | | |
| | 29.5 | 12.0 | 1.5 | 14.0 | 013507 | 047361 | 013952 | 014088 |
|  | 39.5 | 9.0 | 1.5 | 26.0 | 013511 | 121138 | 045134 | |
| | 39.5 | 12.0 | 1.5 | 26.0 | 013512 | 128797 | 013954 | |
|  | 49.5 | 8.0 | 1.5 | 26.0 | 013516 | | | |
| | 49.5 | 9.0 | 1.5 | 26.0 | 013517 | 109052 | 013956 | |
| | 49.5 | 10.0 | 1.5 | 26.0 | 013518 | | | |
| | 49.5 | 12.0 | 1.5 | 26.0 | 013520 | 049019 | 013957 | 014090 |
| | 59.5 | 12.0 | 1.5 | 26.0 | 013523 | | | |
|  | 50.0 | 9.0 | 1.5 | 37.0 | 016950 | | 035425 | |
| | 50.0 | 12.0 | 1.7 | 37.0 | 013327 | 054444 | 013866 | 014030 |
|  | 16.0 | 7.0 | 1.5 | 7.0 | 016934 | | 016933 | |
|  | 23.0 | 7.0 | 1.5 | 14.0 | 053449 | | | |
| | 28.0 | 7.0 | 1.5 | 14.0 | 016823 | 102847 | 016822 | |
|  | 16.0 | 7.0 | 1.5 | 7.0 | 048995 | | | |
|  | 16.0 | 7.0 | 1.5 | 7.0 | 048996 | | | |
| | 23.0 | 7.0 | 1.5 | 14.0 | 106866 | | | |
|  | 23.0 | 7.0 | 1.5 | 14.0 | 106867 | | | |
|  | 31.5 | 9.0 | 1.5 | 14.0 | 109149 | | | |




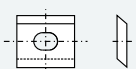
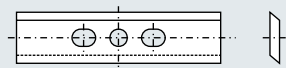
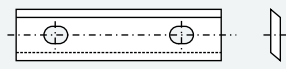
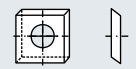
- EN Face groove, back groove and crossgroove
 DE Brust-, Rücken- und Quernut
 FR Rainure sur grande face, sur petite face et transversal
 IT Scanalatura frontale, posteriore e di sicurezza
 ES Ranura frontal, de lomo y transversal

| | L mm | W mm | T mm | T04F-CR | T03SMG | Style |
|---|---------|---------|---------|---------|--------|--|
|  | 20.0 | 5.5 | 1.1 | 013357 | | EN Back groove DE Rückennut FR Rainure sur petite face IT Scanalatura posteriore ES Ranura de lomo |
| | 30.0 | 5.5 | 1.1 | 013363 | | |
| | 40.0 | 5.5 | 1.1 | 013359 | | |
| | 50.0 | 5.5 | 1.1 | 013361 | | |
|  | 20.0 | 4.1 | 1.1 | 013403 | | EN Back and crossgroove DE Rücken- und Quernut FR Rainure transversale IT Scanalatura di sicurezza ES Ranura transversal |
| | 20.0 | 5.5 | 1.1 | 013394 | 013911 | |
| | 25.0 | 5.5 | 1.1 | 013402 | 013920 | |
| | 30.0 | 5.5 | 1.1 | 013397 | 013914 | |
| | 40.0 | 5.5 | 1.1 | 013399 | | |
| | 50.0 | 5.5 | 1.1 | 013401 | 013918 | |
|  | 12.0 | 5.5 | 1.1 | 013334 | 013870 | EN Face groove DE Brustnut FR Rainure sur grande face IT Scanalatura frontale ES Ranura frontal |
| | 20.0 | 5.5 | 1.1 | 013336 | | |
| | 30.0 | 5.5 | 1.1 | 013345 | 013880 | |
| | 40.0 | 5.5 | 1.1 | 013339 | | |
| | 50.0 | 5.5 | 1.1 | 013342 | 013877 | |
|  | 20.0 | 5.5 | 1.1 | 013378 | | EN 4 Cutting edges DE 4 Schneidkanten FR 4 Tranchants IT 4 Taglienti ES 4 Filos de corte |
| | 25.0 | 5.5 | 1.1 | 013376 | | |
| | 30.0 | 5.5 | 1.1 | 013379 | | |
| | 35.0 | 5.5 | 1.1 | 013377 | 013893 | |
| | 40.0 | 5.5 | 1.1 | 013380 | | |
| | 44.5 | 5.5 | 1.1 | 013375 | 030873 | |
| | 50.0 | 5.5 | 1.1 | 013381 | 013900 | |



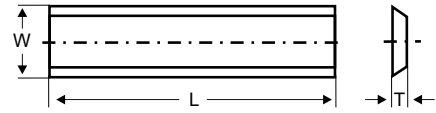
For Systems Leitz and Oertli

EN Systems Leitz, Oertli
 DE Systeme Leitz, Oertli
 FR Systèmes Leitz, Oertli
 IT Sistemi Leitz, Oertli
 ES Sistemas Leitz, Oertli

| For Leitz system* | L mm | W mm | T mm | T04F-CR Microfinish | T10MG Microfinish | T12SMG Microfinish | |
|---|---|---------|---------|------------------------|----------------------|-----------------------|--|
|  | 7.7 | 8.0 | 1.5 | 142707 | 014042 | 142648 | |
| | 9.7 | 8.0 | 1.5 | 142708 | 014066 | 142649 | |
| | 11.7 | 8.0 | 1.5 | 142709 | 014044 | 142650 | |
| | 14.7 | 8.0 | 1.5 | 129343 | 014046 | 142651 | |
| | 19.7 | 8.0 | 1.5 | 142710 | 014048 | 142653 | |
| | 24.7 | 8.0 | 1.5 | 142711 | 014069 | 142654 | |
| | 30.0 | 8.0 | 1.5 | 142712 | 014050 | 142656 | |
| | 35.0 | 8.0 | 1.5 | 142713 | 014052 | 142657 | |
| | 40.0 | 8.0 | 1.5 | 142714 | 129364 | 142658 | |
| | 45.0 | 8.0 | 1.5 | 142715 | 129365 | 142659 | |
| | 50.0 | 8.0 | 1.5 | 142716 | 014056 | 142660 | |
| | 60.0 | 8.0 | 1.5 | 142717 | 014058 | 142661 | |
| | 70.0 | 8.0 | 1.5 | 142718 | 129368 | 142662 | |
| | 80.0 | 8.0 | 1.5 | 038329 | 014060 | 142663 | |
| | 100.0 | 8.0 | 1.5 | 142719 | 014062 | 142664 | |
| | 120.0 | 8.0 | 1.5 | 142720 | 014064 | 142665 | |
| | 150.0 | 8.0 | 1.5 | 137028 | 131896 | 140017 | |
| | 160.0 | 8.0 | 1.5 | 134774 | 102329 | 141256 | |
| | 180.0 | 8.0 | 1.5 | 137029 | 129591 | 140303 | |
| | 240.0 | 8.0 | 1.5 | 137030 | 129593 | 140304 | |
| | 260.0 | 8.0 | 1.5 | 134775 | 134540 | 141257 | |
| | For Oertli system* | L mm | W mm | T mm | T04F-CR | T10MG | |
| |  | 8.8 | 8.0 | 1.5 | 030931 | | |
| | | 9.0 | 8.0 | 1.5 | 030932 | | |
| | | 9.5 | 8.0 | 1.5 | 030933 | | |
| | | 11.0 | 8.0 | 1.5 | 030934 | | |
| 12.0 | | 8.0 | 1.5 | 030935 | | | |
| 15.0 | | 8.0 | 1.5 | 030936 | 017198 | | |
| 20.0 | | 8.0 | 1.5 | 030937 | 017200 | | |
| 25.0 | | 8.0 | 1.5 | 030938 | 017201 | | |
|  | 32.0 | 8.0 | 1.5 | 030940 | 017203 | | |
|  | 40.0 | 8.0 | 1.5 | 030941 | 017204 | | |
| | 50.0 | 8.0 | 1.5 | 030942 | 017206 | | |
| | 60.0 | 8.0 | 1.5 | 030943 | 017207 | | |
| | 80.0 | 8.0 | 1.5 | 030944 | 017209 | | |
| | 100.0 | 8.0 | 1.5 | 030945 | 017210 | | |
|  | 12.0 | 12.0 | 1.5 | 034294 | 034295 | | |

EN For use in Leitz/Oertli-cutterheads only
 DE Nur zur Verwendung in Messerköpfen der Firma Leitz bzw. Oertli
 FR Utilisation limitée aux porte outils des entreprises Leitz et Oertli
 IT Da usare solo su teste portacottelli della Leitz - Oertli
 ES Sólo para empleo con portacuchillas de la firma Leitz/Oertli

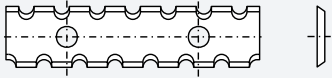
EN System KWO/Versofix
 DE System KWO/Versofix
 FR Système KWO/Versofix
 IT Sistema KWO/Versofix
 ES Sistema KWO/Versofix

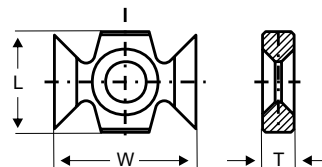


For SystemKWO/Versofix

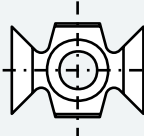

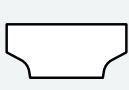
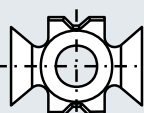

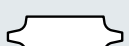
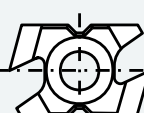
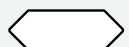


| For KWO/Versofix system* | L | W | T | T03SMG | T10MG |
|---|------|------|-----|------------|------------|
| | mm | mm | mm | TiN-coated | TiN-coated |
|  | 20.0 | 5.5 | 1.1 | 049525 | 049526 |
| | 30.0 | 6.5 | 1.1 | 101074 | 101075 |
| | 50.0 | 6.5 | 1.1 | 101078 | 101079 |
| | 20.0 | 10.0 | 1.5 | 014273 | 030841 |
| | 30.0 | 10.0 | 1.5 | 014275 | 030842 |
| | 50.0 | 10.0 | 1.5 | 014277 | 030843 |

EN Reversible knives with chip breakers
 DE Wendeschneidplatten mit Spanbrechernuten
 FR Plaquettes réversibles avec brise copeaux
 IT Coltellini con rompitruciolo
 ES Cuchillas reversibles con rompevirutas

| | L | W | T | a | T04F-CR |
|---|------|------|-----|------|---------|
| | mm | mm | mm | mm | |
|  | 30.0 | 12.0 | 1.5 | 14.0 | 013117 |
| | 50.0 | 12.0 | 1.5 | 26.0 | 013127 |
| | 60.0 | 12.0 | 1.5 | 26.0 | 108318 |



EN Edge rounding knives
 DE Kantenrunder
 FR Couteaux brise-arrête
 IT Spigolatori
 ES Cuchillas para aristas

| | | L mm | W mm | T mm | Type | T10MG |
|--|--|---|---------|---------|----------------|----------------|
|  |  | 16.0 | 22.0 | 5.0 | TKM 45° | 032292 |
| |  | 16.0 | 22.0 | 5.0 | TKM R 1.5 | 032294 |
| | | 16.0 | 22.0 | 5.0 | TKM R 2.0 | 032295 |
| | | 16.0 | 22.0 | 5.0 | TKM R 2.5 | 032296 |
| | | 16.0 | 22.0 | 5.0 | TKM R 3.0 | 032297 |
| | | 16.0 | 22.0 | 5.0 | TKM R 4.0 | 032299 |
| | | 16.0 | 22.0 | 6.0 | TKM R 5.0 | 032301 |
|  For Leitz-system „Mechanical“ * |  | 15.0 | 20.0 | 8.0 | TKM 11/0 - 45° | 032304 |
| |  | 15.0 | 22.3 | 9.0 | TKM 12/0 R3 | 032306 |
| | | 15.0 | 20.0 | 7.3 | TKM 12/3 R2 | 032308 |
| | | 15.0 | 20.0 | 7.0 | TKM 12/4 R1.5 | 032310 |
| |  For Leitz-system “BG-Test“ * |  | 15.0 | 23.0 | 8.0 | TKM 21/0 - 45° |
|  | | 15.0 | 23.0 | 9.0 | TKM 22/0 R3 | 032318 |
| | | 15.0 | 23.0 | 7.3 | TKM 22/3 R2 | 032320 |
|  | | 15.0 | 25.7 | 7.3 | TKM 24/0 R5 | 032327 |
| | | 15.0 | 25.7 | 7.3 | TKM 24/1 R5 | 032326 |