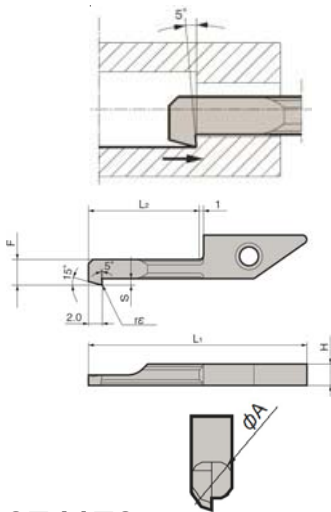


374165.. KYOCERA

Rückwärtsinnendrehen

Micro-alésage inverse

Backboring



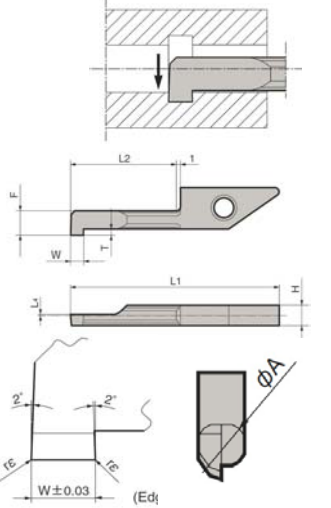
| Beschreibung<br>Désignation<br>Description | Art.Nr./no.cde.<br>order no | Dimension [mm]             |     |     |      |    |   |     |     |       |      | Hartmetall/métal dur/ grades |                          |                              |
|--|-----------------------------|----------------------------|-----|-----|------|----|---|-----|-----|-------|------|------------------------------|--------------------------|------------------------------|
|  |                             | Min.Dreh-Ø<br>Ø min.tourn. |     |     |      |    |   |     |     |       |      |                              | PVD-besch<br>revêtue PVD | unbeschichtet<br>pas revêtue |
|  |                             | Min.bore Ø<br>ØA[mm]       | H   | L1  | L2   | L3 | F | S   | re  | PR930 | KW10 |                              |                          |                              |
| VNBTR                                      | 0411-003                    | 374165.0411003             | 4.0 | 3.9 | 30.8 | 11 | - | 3.6 | 1.0 | 0.03  |      |                              | ●                        |                              |
|  | 0420-003                    | 374165.0420003             | 4.0 | 3.9 | 39.8 | 20 | - | 3.6 | 1.0 | 0.03  |      |                              | ●                        |                              |
|  | 0511-003                    | 374165.0511003             | 5.0 | 3.9 | 30.8 | 11 | - | 4.6 | 1.3 | 0.03  |      |                              | ●                        |                              |
|  | 0520-003                    | 374165.0520003             | 5.0 | 3.9 | 39.8 | 20 | - | 4.6 | 1.3 | 0.03  |      |                              | ●                        |                              |
|  | 0411-01                     | 374165.041101              | 4.0 | 3.9 | 30.8 | 11 | - | 3.6 | 1.0 | 0.1   |      |                              | ●                        |                              |
|  | 0420-01                     | 374165.042001              | 4.0 | 3.9 | 39.8 | 20 | - | 3.6 | 1.0 | 0.1   |      |                              | ●                        |                              |
|  | 0511-01                     | 374165.051101              | 5.0 | 3.9 | 30.8 | 11 | - | 4.6 | 1.3 | 0.1   |      |                              | ●                        |                              |
|  | 0520-01                     | 374165.052001              | 5.0 | 3.9 | 39.8 | 20 | - | 4.6 | 1.3 | 0.1   |      |                              | ●                        | 3.74165215                   |

374170..

Micro-Inneneinstechen

Micro rainurage interne

Micro internal grooving



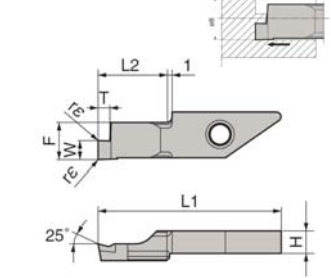
| Beschreibung<br>Désignation<br>Description | Art.Nr./no.cde.<br>order no | Dimension [mm]             |     |     |      |    |      |     |     |       |      | Hartmetall/métal dur/ grades |                              |   |
|--|-----------------------------|----------------------------|-----|-----|------|----|------|-----|-----|-------|------|------------------------------|------------------------------|---|
|  |                             | Min.Dreh-Ø<br>Ø min.tourn. |     |     |      |    |      |     |     |       |      | PVD-besch<br>revêtue PVD     | unbeschichtet<br>pas revêtue |   |
|  |                             | Min.bore Ø<br>ØA[mm]       | W   | re  | L2   | L1 | L4   | F   | T   | PR930 | KW10 |                              |                              |   |
| 3.74170215                                 |                             |                            |     |     |      |    |      |     |     |       |      |                              |                              |   |
| VNGR                                       | 0410-11                     | 374170.041011              | 4.0 | 1.0 | 0.05 | 11 | 30.8 | 0.1 | 3.5 | 0.8   |      |                              | ●                            | ● |
|  | 0420-11                     | 374170.042011              | 4.0 | 2.0 | 0.10 | 11 | 30.8 | 0.1 | 3.5 | 0.8   |      |                              | ●                            | ● |
|  | 0510-11                     | 374170.051011              | 5.0 | 1.0 | 0.05 | 11 | 30.8 | 0.1 | 4.4 | 1.0   |      |                              | ●                            | ● |
|  | 0520-11                     | 374170.052011              | 5.0 | 2.0 | 0.10 | 11 | 30.8 | 0.1 | 4.4 | 1.0   |      |                              | ●                            | ● |
|  | 0610-20                     | 374170.061020              | 6.0 | 1.0 | 0.05 | 20 | 39.8 | 0.3 | 5.2 | 1.8   |      |                              | ●                            | ● |
|  | 0620-20                     | 374170.062020              | 6.0 | 2.0 | 0.10 | 20 | 39.8 | 0.3 | 5.2 | 1.8   |      |                              | ●                            | ● |
|  | 0710-20                     | 374170.071020              | 7.0 | 1.0 | 0.05 | 20 | 39.8 | 0.3 | 6.2 | 2.0   |      |                              | ●                            | ● |
|  | 0720-20                     | 374170.072020              | 7.0 | 2.0 | 0.10 | 20 | 39.8 | 0.3 | 6.2 | 2.0   |      |                              | ●                            | ● |

374175..

Axial-Einstechen

p. gorges frontales

Face grooving



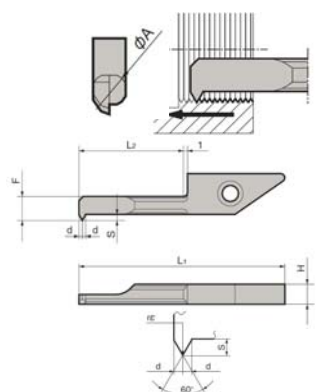
| Beschreibung<br>Désignation | order no | Dimension [mm]             |        |    |     |      |     |      |    |       |      | Hartmetall/métal dur/ grades |                              |   |   |
|-----------------------------|----------|----------------------------|--------|----|-----|------|-----|------|----|-------|------|------------------------------|------------------------------|---|---|
|                             |          | Min.Dreh-Ø<br>Ø min.tourn. |        |    |     |      |     |      |    |       |      | PVD-besch<br>revêtue PVD     | unbeschichtet<br>pas revêtue |   |   |
|                             |          | ØA[mm]<br>Min. Max         | W±0.03 | re | H   | L1   | L2  | F    | T  | PR930 | KW10 |                              |                              |   |   |
| 3.74175215                  |          |                            |        |    |     |      |     |      |    |       |      |                              |                              |   |   |
| VNFGR                       | 0810-10  | 374175.081010              | 8.0    | ∞  | 1.0 | 0.05 | 3.9 | 29.6 | 10 | 7.30  | 2.00 |                              |                              | ● | ● |
|                             | 0820-10  | 374175.082010              | 8.0    | ∞  | 2.0 | 0.05 | 3.9 | 29.6 | 10 | 7.30  | 2.00 |                              |                              | ● | ● |
|                             | 0830-10  | 374170.083010              | 8.0    | ∞  | 3.0 | 0.05 | 3.9 | 29.6 | 10 | 7.30  | 3.00 |                              |                              | ● | ● |

374180..

Micro-innengewinde-drehen

Micro filletage intérieur

Face grooving



| Beschreibung<br>Désignation | Art.Nr./no.cde.<br>order no | Dimension [mm]           |    |    |      |    |    |    |      |       |      | Hartmetall/métal dur/ grades |                              |   |
|-----------------------------|-----------------------------|--------------------------|----|----|------|----|----|----|------|-------|------|------------------------------|------------------------------|---|
|                             |                             | Mn.Dreh-Ø<br>Ø mintourn. |    |    |      |    |    |    |      |       |      | PVD-besch<br>revêtue PVD     | unbeschichtet<br>pas revêtue |   |
|                             |                             | ØA[mm]                   | H  | L1 | L2   | F  | S  | d  | re   | PR930 | KW10 |                              |                              |   |
| 3.74180215                  |                             |                          |    |    |      |    |    |    |      |       |      |                              |                              |   |
| VNTR                        | 045-11                      | 374180.04511             | 45 | 39 | 30.8 | 11 | 36 | 13 | 0.60 | 0.05  |      |                              | ●                            | ● |
|                             | 060-11                      | 374180.06011             | 60 | 39 | 30.8 | 11 | 46 | 16 | 0.80 | 0.05  |      |                              | ●                            | ● |

Das System für hohe Bearbeitungsgenauigkeit  
**Sytem Tip Bar Kit 2**  
 zum Innendrehen, Rückwärts-Innendrehen, Stechen, Axialstechen & Gewindefschneiden

le système pour une grande précision de tournage  
**Le système Tip Bar Kit 2**  
 p. tournage intérieur, alésage inverse, rainurage, gorges frontals & micro filetage

Tool system for a high precision in turning  
**The system Tip Bar Kit 2**  
 for internal turning, back-turning, internal grooving, face grooving & micro threading



• S16H-SVNR12N **Standardhalter rund mit Einspannflächen**

• S16H-SVNR12N **porte-plaquette standard ronde**  
*plâtes pour le serrage*

• S16H-SVNR12N **standard round tool-holder, flats for clamping**

• VNBR0411-02PR930 **zum Innendrehen**

• VNBR0411-02PR930 **p. tournage intérieur**

• VNBR0411-02PR930 **for internal turning**

• VNBTR0411-01PR930 **zum Rückwärts-Innendrehen**

• VNBTR0411-01PR930 **p. alésage inverse**

• VNBTR0411-01PR930 **for back turning**

• VNGR0420-11PR930 **zum Micro Innen-Einstecken**

• VNGR0420-11PR930 **p. micro rainurage interne**

• VNGR0420-11PR930 **for micro internal grooving**

• VNFR0820-10PR930 **z. Axial-Einstecken**

• VNFR0820-10PR930 **p. gorges frontals**

• VNFR0820-10PR930 **for face grooving**

• VNTR045-11PR930 **z. Micro-Innengewindedrehen**

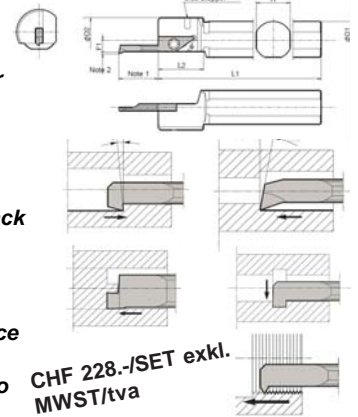
• VNTR045-11PR930 **p. micro filletage intérieur**

• VNTR045-11PR930 **for micro threading**

• Hartmetallsorte PR930

• Nuance métal dur PR930

• Carbide grade PR930



CHF 228.-/SET exkl. MWST/tva

**Bestellnummer/ no.commande Tip Bar Set 2: 374100.100 228.-CHF/Set**

**System-Tip-Bar-Set 3 , D=16mm Halter, nur zum Innendrehen. bestehend aus:**

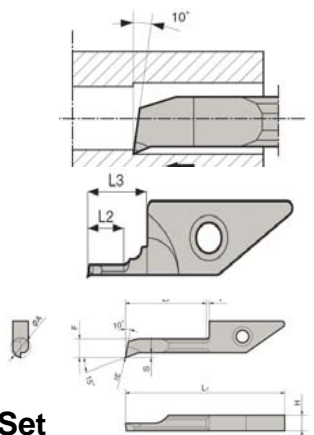
**Système-Tip-Bar-Set 3 D=16mm porte outil, p. tournage intérieur existante de:**

**System-Tip-Bar-Set 3 D=16mm tool holder, for internal turning, composed of:**

- Halter(16mm) S16H-SVNR12 N
- Ausdreheinsatz 1,0mm : VNBR0105-005S PR930
- Ausdreheinsatz 2,0mm : VNBR0206-02 PR930
- Ausdreheinsatz 3,0mm : VNBR0311-02 PR930
- Ausdreheinsatz 4,0mm : VNBR0411-02 PR930
- Ausdreheinsatz 5,0mm : VNBR0511-02 PR930

- Porte outil(16mm) S16H-SVNR12 N
- Barre 1,0mm : VNBR0105-005S PR930
- Barre 2,0mm : VNBR0206-02 PR930
- Barre 3,0mm : VNBR0311-02 PR930
- Barre 4,0mm : VNBR0411-02 PR930
- Barre 5,0mm : VNBR0511-02 PR930

- Bar holder(16mm) S16H-SVNR12 N
- Bar 1,0mm : VNBR0105-005S PR930
- Bar 2,0mm : VNBR0206-02 PR930
- Bar 3,0mm : VNBR0311-02 PR930
- Bar 4,0mm : VNBR0411-02 PR930
- Bar 5,0mm : VNBR0511-02 PR930



**Bestellnummer/ no.commande Tip Bar Set 3: 374100.200 228.-CHF/Set**

**Empfohlenen Schnittdaten für VNB, VNB-NB, VNBT**

**Vitesses de coupe et avances recommandées p. VNB, VNB-NB, VNBT**

**Recommneded cutting conditions for VNB, VNB-NB, VNBT**

| 3.74160DrehenVNB_SW<br>Material<br>Werkstück<br>matériel de la pièce<br>Workpiece Material           | Empfohlene Hartmetallsorten, nuances carbure recomm.,recomm.insert grades (Schnittgeschwindigkeit, vitesse de coupe, cutting Speed: m/min) |                    |       |         |        |        |        | VNB02 Type                   |       | VNB03 Type |       | VNB04 VNB04 Type |       | VNB05 VNB06 VNB07 Type VNB05 |       | Remarks                |
|--|--|--------------------|-------|---------|--------|--------|--------|------------------------------|-------|------------|-------|------------------|-------|------------------------------|-------|------------------------|
|  | Cermet   | PVD Coated Carbide |       | Carbide | CBN    | PCD    |        | Cut: ap(mm), Feed: f(mm/rev) |       |            |       |                  |       |                              |       |                        |
|  | TC60   | PR915              | PR930 | KW10    | KBN510 | KPD001 | KPD010 | ap                           | f     | ap         | f     | ap               | f     | ap                           | f     |                        |
| Kohlenstoff-Stähle, legierte Stähle/aciers de construction,aciers alliés/ carbon steel / alloy Steel | ☆  | ☆                  | ★     |         |        |        |        | ~0.3                         | ~0.03 | ~0.4       | ~0.04 | ~0.45            | ~0.07 | ~0.5                         | ~0.1  | Kühlmittel lubrication |
| INOX-Stähle, aciers inoxydables,Stainless Steel  | ☆  | ☆                  | ★     |         |        |        |        | ~0.3                         | ~0.02 | ~0.4       | ~0.03 | ~0.45            | ~0.05 | ~0.5                         | ~0.07 |                        |
| Nichtmetallische Werkstoffe, matériel non métalliques,non-ferrous metals                             |  |                    |       | ☆       |        | ★      | ☆      | ~0.3                         | ~0.05 | ~0.4       | ~0.06 | ~0.45            | ~0.1  | ~0.5                         | ~0.15 |                        |

\*gei gnet /appr cpr i é/appropriate