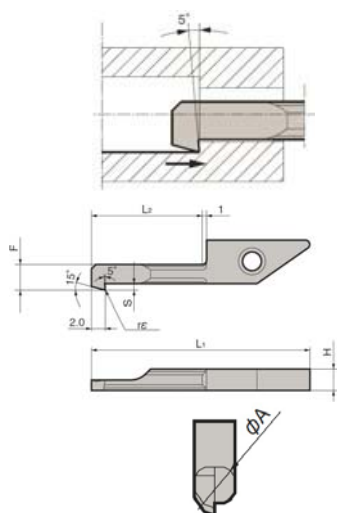


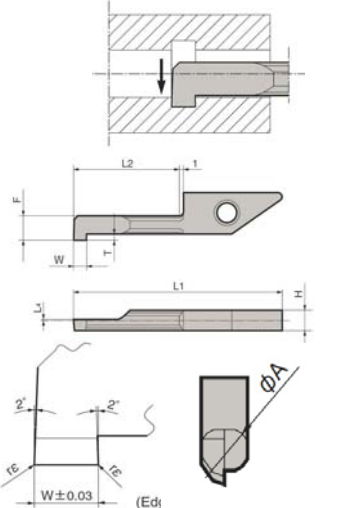
**374165.. KYOCERA Rückwärtsinnendrehen Micro-alésage inverse Backboring**



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

**374170..**

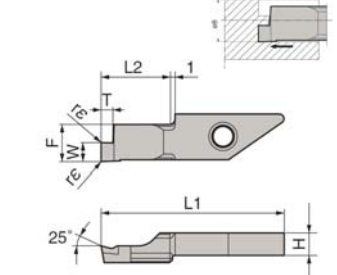
**Micro-Inneneinstechen Micro rainurage interne Micro internal grooving**



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

**374175..**

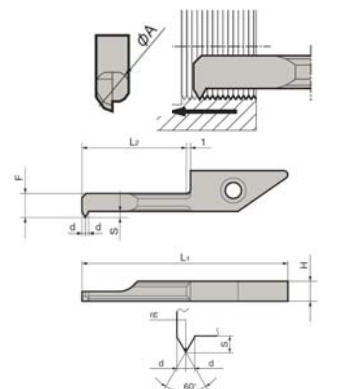
**Axial-Einstechen p. gorges frontales Face grooving**



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

**374180..**

**Micro-innengewinde-drehen Micro filletage intérieur Face grooving**



Beschreibung Désignation	Art.Nr./no.cde. order no	Dimension [mm]										Hartmetall/métal dur/ grades	
		Min.Dreh-Ø Ø mintourn.										PVDbesch revêtue PVD	unbeschichtet pas revêtue
		ØA[mm]	H	L1	L2	F	S	d	re	PR930	KW10		
<b>3.74180215</b>													
<b>VNTR</b>	<b>045-11</b>	<b>374180.04511</b>	<b>45</b>	39	308	11	36	13	060	005		●	●
	<b>060-11</b>	<b>374180.06011</b>	<b>60</b>	39	308	11	46	16	080	005		●	●

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

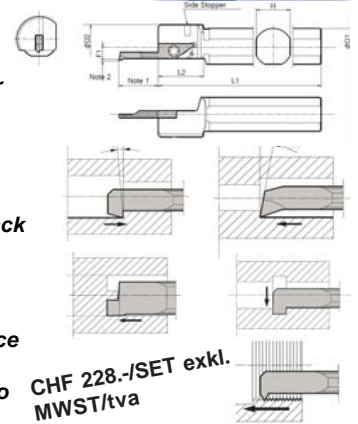
Tool system for a high precision in turning  
**The system Tip Bar Kit 2**  
 for internal turning, back-turning, internal grooving, face grooving & micro threading



- S16H-SVNR12N *Standardhalter rund mit Einspannflächen*
- VNBR0411-02PR930 *zum Innendrehen*
- VNBTR0411-01PR930 *zum Rückwärts-Innendrehen*
- VNGR0420-11PR930 *zum Micro Innen-Einstecken*
- VNFR0820-10PR930 *z. Axial-Einstecken*
- VNTR045-11PR930 *z. Micro-Innengewindedrehen*
- Hartmetallsorte PR930

- S16H-SVNR12N *porte-plaquette standard ronde*
- VNBR0411-02PR930 *p. tournage intérieur*
- VNBTR0411-01PR930 *p. alésage inverse*
- VNGR0420-11PR930 *p. micro rainurage interne*
- VNFR0820-10PR930 *p. gorges frontals*
- VNTR045-11PR930 *p. micro filletage intérieur*
- Nuance métal dur PR930

- S16H-SVNR12N *standard round tool-holder, flats for clamping*
- VNBR0411-02PR930 *for internal turning*
- VNBTR0411-01PR930 *for back turning*
- VNGR0420-11PR930 *for micro internal grooving*
- VNFR0820-10PR930 *for face grooving*
- VNTR045-11PR930 *for micro threading*
- Carbide grade PR930



**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:**

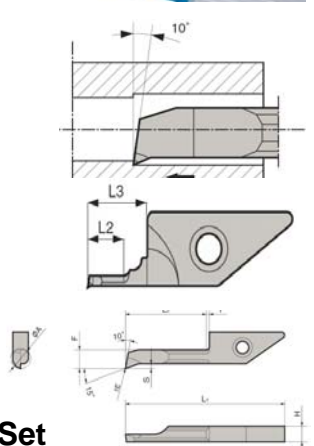
- Halter(16mm) S16H-SVNR12 N
- Ausdreheinsatz 1,0mm : VNBR0105-005S PR930
- Ausdreheinsatz 2,0mm : VNBR0206-02 PR930
- Ausdreheinsatz 3,0mm : VNBR0311-02 PR930
- Ausdreheinsatz 4,0mm : VNBR0411-02 PR930
- Ausdreheinsatz 5,0mm : VNBR0511-02 PR930

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

- 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

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

- 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, VNB**

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

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

3.74160DrehenVNB_SW Material Werkstück matériel de la pièce Workpiece Material	Empfohlene Hartmetallsorten, nuances carbure recom.,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		ap	f	ap	f	ap	f	ap	f	
		TC60	PR915			PR930	KW10									
Kohlenstoff-Stähle, legierte Stähle/aciers de construction,aciers alliés/ carbon steel / alloy Steel	60~120	50~150	30~100					~0.3	~0.03	~0.4	~0.04	~0.45	~0.07	~0.5	~0.1	Kühlmittel lubrication
INOX-Stähle, aciers inoxydables,Stainless Steel	50~100	50~150	30~80					~0.3	~0.02	~0.4	~0.03	~0.45	~0.05	~0.5	~0.07	
Nichtmetallische Werkstoffe, matériel non métalliques,non-ferrous metals				~100		~300	~300	~0.3	~0.05	~0.4	~0.06	~0.45	~0.1	~0.5	~0.15	

é/appropriate