Hartmetallwerkzeuge zum Innendrehen kleinster Dimensionen *System Tip Bar*

Outils en carbure p. le tournage intérieur de dimensions minces *System Tip Bar*

Carbide tools for internal turning of micro dimensions *System Tip Bar*

KYOCERA

3741..

Vorteile

- Ausgezeichnete Spanabfuhr wegen der flachen, ebenen Konstruktion des Schneideinsatzes
- aussergewöhnliche Feinstbearbeitung, ohne Oberflächenverletzung, Riefen

Avantages

- très bonne évacuation des copeaux à cause de la geometrie plâte des burins très bonne qualité
- d'usinage, excellent état de surface

Advantages

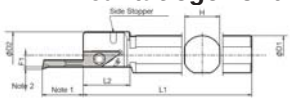
- excellent chip evacuation due to complete flat top face of insert
- superior finishing without chips scratching or biting

Halter für Tip-Bar-Innendrehsystem AR mit rundem Schaft

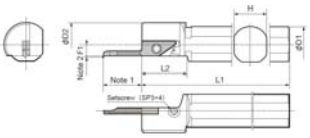
Porte-burin pour système Tip Bar pour le tournage intérieur à tiege ronde

Insert holder for Tip-Bar-carbide inserts with round shank

374100..



Beschreibung / Désignation / Describtion	Art.Nr./no.cde. order no	Dimension [mm] D1	D2	H	L1	L2	F1	Ersatzteile, pièces de rechange, spare parts: Sp.-Schraube Vice de serr. Clamp screw	Schlüssel vice Wrench	Anschl.-Schraube vice p. arrêt screw stopper	Setz-Schraube vice p.poser Setscrew	Schlüssel vice wrench
S12F-SVNR12N	374110.050	12	20	11	80	23	4					
S14G-SVNR12N	374110.100	14	20	13	90	23	4					
S16H-SVNR12N	374110.150	16	24	15	100	23	6	SB-3080TR	FT-10		SP3X4	
S20H-SVNR12N	374110.200	20	24	18	100	24	6					3.74110215



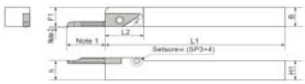
Mit rechteckigem Schaft

À tiege rectangulaire

With rectangular shank

374110..

Beschreibung / Désignation / Describtion	Art.Nr./no.cde. order no	Dimension [mm] H1=h	B	L1	L2	F1	F3	Ersatzteile, pièces de rechange, spare parts: Sp.-Schraube Vice de serr. Clamp screw	Schlüssel vice Wrench	Setz-Schraube vice p.poser Setscrew
SVNR 1010H-12N	374112.050	10	10	100	22	10	-			
SVNR 1212K-12N	374112.100	12	12	125	22	16	-			
SVNR 1616K-12N	374112.150	16	16	125	22	16	-	SB-3080TR	FT-10	SP3X4
SVNR 2020K-12N	374112.200	20	20	125	22	20	-			
SVNR 2525M-12N	374112.250	25	25	150	22	25	-			3.741112215

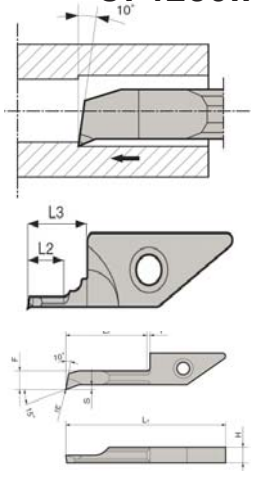


VNB../VNB-S Innendrehen

VNB../VNB-S Tournage intérieur

VNB../VNB-S Boring

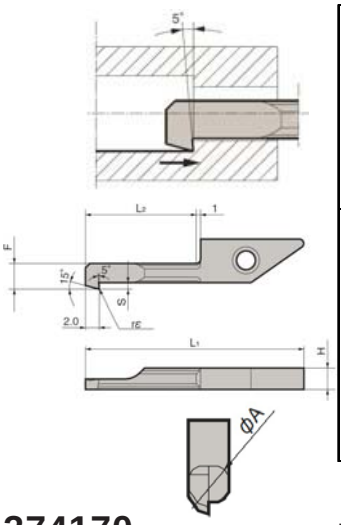
374160..



Beschreibung / Désignation / Describtion		Art.Nr./no.cde. order no	Dimension [mm] Min.Dreh-Ø Ø min.tourn. Min.bore Ø ØA[mm]	H	L1	L2	L3	F	S	re	Hartmetall/métal dur/ grades: PVD-besch revêtue PVD PVD coated PR930	unbeschichtt pas revêtue uncoated KW10
VNBR	**0105-005S**	**374160.105005**	**1.0**	3.9	26.5	5	7	0.9	0.2	0.05	●	
	0206-02	**374160.20602**	**2.0**	3.9	26.5	6	-	1.8	0.3	0.20	●	
	0311-02	**374160.31102**	**3.0**	3.9	30.8	11	-	2.6	0.4	0.20	●	
	0411-02	**374160.41102**	**4.0**	3.9	30.8	11	-	3.5	0.5	0.20	●	
	0420-02S	**374160.42002**	**4.0**	3.9	39.8	20	-	3.5	0.5	0.20	●	
	0511-02	**374160.51102**	**5.0**	3.9	30.8	11	-	4.5	0.7	0.20	●	
	0630-02	**374160.63002**	**6.0**	3.9	49.8	30	-	5.3	1	0.20	●	3.74160215

374165.. KYOCERA

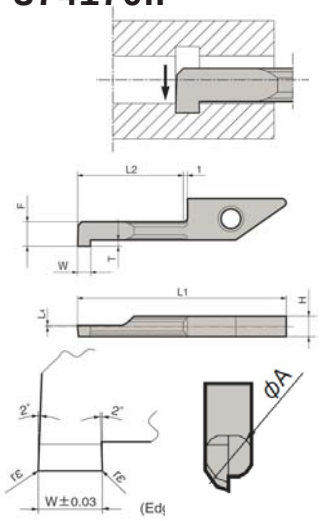
Rückwärtsinnendrehen *Micro-alésage inverse* **Backboring**



Beschreibung / Désignation / Describtion		Art.Nr./no.cde. order no	Dimension [mm] Min.Dreh-Ø / Ø min.tourn. / Min.bore Ø ØA[mm]	H	L1	L2	L3	F	S	re	Hartmetall/métal dur/ grades PVD-besch. revêtue PVD PVD coated PR930	unbeschichtet pas revêtue uncoated 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..

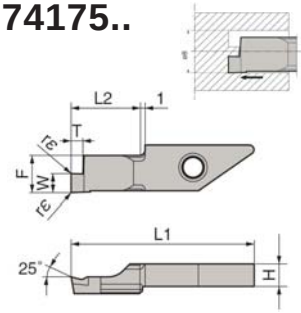
Micro-Inneneinstechen *Micro rainurage interne* **Micro internal groowing**



3.74170215 Beschreibung / Désignation / Describtion		Art.Nr./no.cde. order no	Dimension [mm] Min.Dreh-Ø / Ø min.tourn. / Min.bore Ø ØA[mm]	W	re	L2	L1	L4	F	T	Hartmetall/métal dur/ grades PVD-besch. revêtue PVD PVD coated PR930	unbeschichtet pas revêtue uncoated KW10
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..

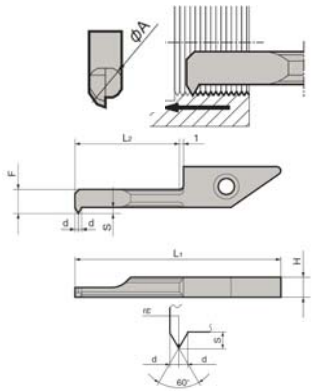
Axial-Einstechen *p. gorges frontales* **Face groowing**



3.74175215 Beschreibung / Désignation		Art.Nr./no.cde. order no	Dimension [mm] Min.Dreh-Ø / Ø min.tourn. ØA[mm] Min.	Max	W±0.03	re	H	L1	L2	F	T	Hartmetall/métal dur/ grades PVD-besch. revêtue PVD PR930	unbeschichtet pas revêtue KW10
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 groowing**



3.74180215 Beschreibung / Désignation		Art.Nr./no.cde. order no	Dimension [mm] Min.Dreh-Ø / Ø min.tourn. ØA[mm]	H	L1	L2	F	S	d	re	Hartmetall/métal dur/ grades PVD-besch. revêtue PVD PR930	unbeschichtet pas revêtue KW10
VNTR	045-11	374180.04511	4.5	3.9	30.8	11	3.6	1.3	0.60	0.05	●	●
	060-11	374180.06011	6.0	3.9	30.8	11	4.6	1.6	0.80	0.05	●	●

Das System für hohe Bearbeitungsgenauigkeit

Sytem Tip Bar Kit 2

zum Innendrehen, Rückwärts-Innendrehen, Stechen, Axialstechen & Gewindeschneiden

- **S16H-SVNR12N** ***Standardhalter rund mit Einspannflächen***
- **VNBR0411-02PR930** ***zum Innendrehen***
- **VNBTR**0411-01PR930 ***zum Rückwärts-Innendrehen***
- **VNGR0420-11PR930** ***zum Micro Innen-Einstechen***
- **VNFGR0820-10PR930** ***z. Axial-Einstechen***
- **VNTR045-11PR930** ***z. Micro-Innengewindedrehen***
- **Hartmetallsorte PR930**

le système pour une grande précision de tournage

Le système Tip Bar Kit 2

p. tournage intérieur, alésage inverse, rainurage, gorges frontals & micro filetage

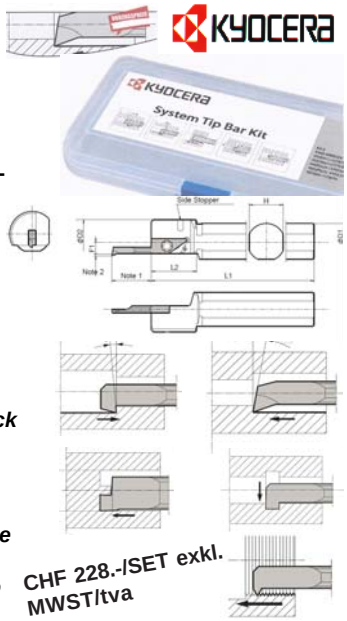
- **S16H-SVNR12N** ***porte-plaquette standard ronde plâtes pour le serrage***
- **VNBR0411-02PR930** ***p. tournage intérieur***
- **VNBTR0411-01PR930** ***p. alésage inverse***
- **VNGR0420-11PR930** *p. micro rainurage interne*
- **VNFGR0820-10PR930** ***p. gorges frontals***
- **VNTR045-11PR930** ***p. micro filletage intérieur***
- **Nuance métal dur PR930**

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** ***standard round tool-holder, flats for clamping***
- **VNBR0411-02PR930** ***for internal turning***
- **VNBTR0411-01PR930** ***for back tunring***
- **VNGR0420-11PR930** *for micro internal grooving*
- **VNFGR0820-10PR930** ***for face grooving***
- **VNTR045-11PR930** ***for micro threading***
- **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:

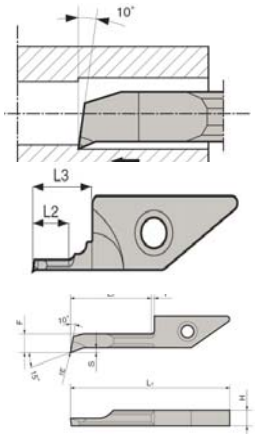
Halter(16mm) S16H-SVNR12 N
Ausdreheinsatz 1,0mm : VNBR0105-005S PR930
Ausdreheinsatz 2,0mm : VNBR0206-02 PR930
Ausdreheinsatz 3,0mm : VNBR0311-02 PR930
Ausdreheinsatz 4,0mm : VNBR0411-02 PR930
Ausdreheinsatz 5,0mm : VNBR0511-02 PR930

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, VNBT

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

Recommneded cutting conditions for VNB, VNB-NB, VNBT

3.74160DrehenVNB_SW Material Werkstück matériel de la pièce Workpiece Material	Empfohlene Hartmetallsorten, nuances carbure recomm.,recomm.insert grades (Schnittgeschwindigkeit, vitesse de coupe, cutting Speed: m/min)							VNB02 Type		VNB03 Type		VNB04 VNBT04 Type		VNB05 VNB06 VNB07 Type VNBT05		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 alliées/ 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 lubrification
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