



Hartmetall-Frässtifte

Carbide burrs

Fraises limes rotatives carbure



Preisliste
Pricelist
Liste de Prix

www.wilke-tools.com

ZERTIFIKAT

Die ZDH-ZERT GmbH - Partner für Qualität in Handwerk und Mittelstand
bescheinigt, dass das Unternehmen

Werner Wilke Zerspanungstechnik GmbH

an den Standorten

Eschborner Str. 4 , 65824 Schwalbach/ Ts.
Auf den Sandäckern 7, 35315 Homberg/ Ohm

in den Tätigkeitsbereichen:

Einkauf und Verkauf von Produkten der Zerspanungstechnik

ein Qualitätsmanagementsystem eingeführt hat und anwendet.

Ein Audit von ZDH-ZERT hat den Nachweis erbracht,

dass dieses Qualitätsmanagementsystem die Forderungen der folgenden Norm erfüllt:

DIN EN ISO 9001

Qualitätsmanagementsysteme - Anforderungen (Ausgabe Dezember 2000)

Dieses Zertifikat ist gültig vom 20.09.2007 bis 19.09.2010.

Zertifikat-Registrier-Nr.: Q1 0104015

Bonn, den 20.09.2007



Vorsitzender des Lenkungsremiums



Leiter der Zertifizierungsstelle

akkreditiert bei:



ZDH-ZERT GmbH, Ennemasenstr. 10, 53119 Bonn

TGA-ZM-05-94-00



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HARTMETALL - FRÄSSTIFTE

Carbide burrs – Fraises limes rotatives carbure

Zahnformen / Cut styles / Types de tailles



3
Standard
Single
Simple

6
Kreuzverzahnung
Double cut
Deux coupes

3SP
Mit Spanbrecher
Chip breaker
Brise-copeaux

1
Alu
Alu

4
Diamant
Diamond
Diamant

5
Fein
Fine
Fine

Optimierte Stirseiten + Spiegelschliff Optimized end cut + mirror finish Optimise le tranchant + finition parfaite (comme un miroir)

- Wilke optimierte Fräserstirnseite für verbesserte Schneidwirkung + extrem glatt geschliffene Fräseroberfläche (Spiegelschliff) für höheren Materialabtrag
- Wilke optimised end cut design gives improved cutting action + very smooth surface finish (mirror finish)
- Wilke optimise le tranchant pour améliorer la coupe une surface de finition parfaite

TiALN- beschichtet TiALN- coated Revêtement TiALN

- Für Frässtifte optimierte und patentierte TiALN- Beschichtung ergeben einzigartige Standzeiten und Performance in allen Stahlsorten.
- Patented TiALN coating, specifically designed for burrs, gives outstanding tool life and excellent performance on all metals.
- Le revêtement breveté TiALN, spécialement conçu pour les fraises rotatives, augmente la longévité de l'outils et améliore ses performances pour travailler le métal.

MICRO-GRAIN Hartmetall MICRO-GRAIN carbide Carbure Micro-Grain

- Für Wilke Frässtifte werden nur beste Micro-Grain Hartmetallsorten verwendet.
- Only the best micrograin carbide grades are used for Wilke burrs.
- Seuls les meilleures qualités de carbure Micro-grain sont utilisées pour les fraises rotatives Wilke.

100% Check-Lötung 100% Braze tested Brasage 100% testé

- Die Lötung aller Wilke Frässtifte werden zu 100% auf Festigkeit und Sicherheit geprüft.
- All burrs are 100% braze tested for strength and safety.
- Le brasage des fraises rotatives est testé à 100% pour la dureté et la sécurité.






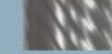


HARTMETALL - FRÄSSTIFTE

Anwendung nach Schnittauführung / Application by cut style

Applications en fonction du style de coupe



						
	3	6	3SP	1	4	5
Stahl Steel Acier	★	★	★			
Gehärteter Stahl Hardened steel Acier trempé	★	★	★		★	★
Edelstahl Stainless steel Acier inoxydable	★		★			
Gußeisen Cast iron Fonte	★	★	★			
Titan Titanium Titane	★		★			
Nickel Nickel Nickel	★		★		★	
Kupfer/Kupferlegierungen Copper/Copper alloys Cuivre/Alliage de cuivre	★		★		★	★
Aluminium Aluminium Aluminium				★		
Kunststoff Plastics Plastiques				★		
Cermet Cermet Cermet					★	

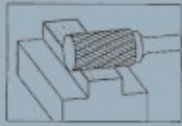
★ Sehr empfohlen
Highly recommended
Hautement recommandé

★ Empfohlen
Recommended
Recommandé



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Zylinder ohne Stirverzahnung
ZYA - A - SA

- Cylindrical without end cut
- Cylindrique sans coupe en bout
- Cilindrica sin corte frontal
- Cilindrica senza taglio in testa
- Forma cilindrica
- Цилиндр с гладким торцом
- 不带端刃圆柱形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base						
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut		Taille	
								3	6	3SP	1	4	5	
								ZYA 020603	A020603	SA-41M	1,5	6	3	38
ZYA 021103	A021103	SA-42M	2,5	11	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €		
ZYA 031403	A031403	SA-43M	3	14	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage	
ZYA 061303	A061303	SA-51M	6,3	12,7	3	50	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €		
ZYA 061606	A061606	SA-1M	6	16	6	50	23	14,30 €	15,10 €	15,10 €	19,45 €	15,85 €		
ZYA 061306L	A061306L	SA-1ML6	6	13	6	162	45	26,75 €	27,50 €	27,50 €	31,85 €	28,25 €		
ZYA 082006	A082006	SA-2M	8	20	6	63	24	18,05 €	18,95 €	18,95 €	24,40 €	19,90 €	on request	
ZYA 102006	A102006	SA-3M	9,5	19	6	63	28	19,60 €	20,50 €	20,50 €	26,45 €	21,60 €		
ZYA 102006L6	A102006L6	SA-3ML6	9,5	19	6	169	54	32,00 €	32,95 €	32,95 €	38,85 €	34,05 €		
ZYA 102506	A102506	SA-3ML	9,5	25	6	69	37	24,55 €	25,80 €	25,80 €	33,10 €	27,05 €		
ZYA 112506	A112506	SA-4M	11	25	6	70	45	29,20 €	30,80 €	30,80 €	39,45 €	32,35 €		
ZYA 122506	A122506	SA-5M	12,7	25	6	70	52	30,80 €	32,35 €	35,35 €	41,45 €	33,85 €		
ZYA 122506L	A122506L	SA-5ML6	12,7	25	6	175	75	43,20 €	44,75 €	44,75 €	53,90 €	46,30 €	sur demande	
ZYA 162506	A162506	SA-6M	16	25	6	70	82	38,55 €	40,90 €	40,90 €	52,05 €	42,40 €		
ZYA 192506	A162506	SA-7M	19	25	6	70	113	58,10 €	61,05 €	61,05 €	78,45 €	64,00 €		
ZYA 252506	A252506	SA-9M	25,4	25	6	70	192	83,85 €	88,05 €	88,05 €	113,25 €	92,25 €		

TiAlN beschichtet
TiAlN coated
TIALN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base						
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut		Taille	
								3	6	3SP	1	4	5	
								ZYA 020603TA	A020603	SA-41MTA	1,5	6	3	38
ZYA 021103TA	A021103	SA-42MTA	2,5	11	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €		
ZYA 031403TA	A031403	SA-43MTA	3	14	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage	
ZYA 061303TA	A061303	SA-51MTA	6,3	12,7	3	50	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €		
ZYA 061606TA	A061606	SA-1MTA	6	16	6	50	23	18,85 €	19,60 €	19,60 €	23,95 €	20,35 €		
ZYA 061306LTA	A061306L	SA-1ML6TA	6	13	6	162	45	39,35 €	40,10 €	40,10 €	44,45 €	40,85 €		
ZYA 082006TA	A082006	SA-2MTA	8	20	6	63	24	27,10 €	28,00 €	28,00 €	33,40 €	28,90 €	on request	
ZYA 102006TA	A102006	SA-3MTA	9,5	19	6	63	28	28,60 €	29,60 €	29,60 €	35,45 €	30,60 €		
ZYA 102006LTA	A102006L	SA-3ML6TA	9,5	19	6	169	54	50,95 €	51,90 €	51,90 €	57,80 €	52,95 €		
ZYA 102506TA	A102506	SA-3MLTA	9,5	25	6	69	37	33,55 €	34,80 €	34,80 €	42,10 €	36,05 €		
ZYA 112506TA	A112506	SA-4MTA	11	25	6	70	45	41,50 €	43,05 €	43,05 €	51,75 €	44,60 €		
ZYA 122506TA	A122506	SA-5MTA	12,7	25	6	70	52	43,05 €	44,60 €	44,60 €	53,75 €	46,15 €		
ZYA 122506LTA	A122506L	SA-5ML6TA	12,7	25	6	175	75	68,85 €	70,25 €	70,25 €	79,35 €	71,75 €	sur demande	
ZYA 162506TA	A162506	SA-6MTA	16	25	6	70	82	55,00 €	57,35 €	57,35 €	68,50 €	58,90 €		
ZYA 192506TA	A162506	SA-7MTA	19	25	6	70	113	82,00 €	85,00 €	85,00 €	102,35 €	88,00 €		
ZYA 252506TA	A252506	SC-9MTA	25,4	25	6	70	192	107,80 €	112,00 €	112,00 €	137,15 €	116,20 €		

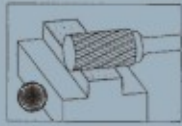
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: ZYA 061606
How to order: ZYA 061606
Example de com: ZYA 061606



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Zylinder mit Stirverzahnung
ZYAS - B - SB

- Cylindrical with end cut
- Cylindrique avec coupe en bout
- Cilindrica con corte Frontal
- Cilindrica con taglio in testa
- Forma cilindrica
- Цилиндр с торцовыми зубьями
- 带端刃圆柱形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base												
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut			Taille		
								3	6	3SP	1	4	5			
ZYAS 020603	A020603	SB-41M	1,5	6	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage			
ZYAS 021103	B021103	SB-42M	2,5	11	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €				
ZYAS 031403	B031403	SB-43M	3	14	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €				
ZYAS 061303	B061303	SB-51M	6,3	12,7	3	50	7	13,20 €	13,80 €	13,80 €	17,90 €	14,55 €	on request			
ZYAS 061606	B061606	SB-1M	6	16	6	50	23	15,55 €	16,35 €	16,35 €	21,00 €	17,10 €				
ZYAS 061306L	B061306L	SB-1ML6	6	13	6	162	45	27,95 €	28,75 €	28,75 €	33,40 €	29,55 €				
ZYAS 082006	B082006	SB-2M	8	20	6	63	24	19,90 €	21,00 €	21,00 €	26,90 €	21,95 €	sur demande			
ZYAS 102006	B102006	SB-3M	9,5	19	6	63	28	21,45 €	22,55 €	22,55 €	29,05 €	23,60 €				
ZYAS 102006L6	B102006L6	SB-3ML6	9,5	19	6	169	54	33,85 €	34,95 €	34,95 €	41,50 €	36,05 €				
ZYAS 102506	B102506	SB-3ML	9,5	25	6	69	37	26,45 €	27,80 €	27,80 €	35,75 €	29,05 €				
ZYAS 112506	A112506	SB-4M	11	25	6	70	45	31,70 €	33,25 €	33,25 €	42,90 €	34,80 €				
ZYAS 122506	B122506	SB-5M	12,7	25	6	70	52	34,20 €	35,90 €	35,90 €	46,15 €	37,60 €				
ZYAS 122506L	B122506L	SB-5ML6	12,7	25	6	175	75	46,60 €	48,30 €	48,30 €	58,55 €	50,05 €				
ZYAS 162506	B162506	SB-6M	16	25	6	70	82	42,55 €	44,75 €	44,75 €	57,50 €	46,90 €				
ZYAS 192506	A162506	SB-7M	19	25	6	70	113	62,15 €	65,25 €	65,25 €	83,85 €	68,35 €				
ZYAS 252506	A252506	SB-9M	25,4	25	6	70	192	93,20 €	97,90 €	97,90 €	125,80 €	102,50 €				

TiAlN beschichtet
TiAlN coated
TIALN avec revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base												
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut			Taille		
								3	6	3SP	1	4	5			
ZYAS 020603TA	A020603	SB-41MTA	1,5	6	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage			
ZYAS 021103TA	B021103	SB-42MTA	2,5	11	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €				
ZYAS 031403TA	B031403	SB-43MTA	3	14	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €				
ZYAS 061303TA	B061303	SB-51MTA	6,3	12,7	3	50	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €	on request			
ZYAS 061606TA	B061606	SB-1MTA	6	16	6	50	23	20,05 €	20,85 €	20,85 €	25,50 €	21,60 €				
ZYAS 061306LTA	B061306L6	SB-1ML6TA	6	13	6	162	45	40,55 €	41,35 €	41,35 €	46,00 €	42,10 €				
ZYAS 082006TA	B082006	SB-2MTA	8	20	6	63	24	28,90 €	30,00 €	30,00 €	35,90 €	30,95 €	sur demande			
ZYAS 102006TA	B102006	SB-3MTA	9,5	19	6	63	28	30,45 €	31,55 €	31,55 €	38,05 €	32,65 €				
ZYAS 102006LTA	B102006L6	SB-3ML6TA	9,5	19	6	169	54	52,80 €	53,90 €	53,90 €	60,45 €	55,00 €				
ZYAS 102506TA	B102506	SB-3MLTA	9,5	25	6	69	37	35,45 €	36,80 €	36,80 €	44,75 €	38,05 €				
ZYAS 112506TA	A112506	SA-4MTA	11	25	6	70	45	43,95 €	45,55 €	45,55 €	55,15 €	47,10 €				
ZYAS 122506TA	B122506	SA-5MTA	12,7	25	6	70	52	46,45 €	48,20 €	48,20 €	58,40 €	49,90 €				
ZYAS 122506LTA	B122506L6	SA-5ML6TA	12,7	25	6	175	75	72,05 €	73,80 €	73,80 €	84,05 €	75,50 €				
ZYAS 162506TA	B162506	SA-6MTA	16	25	6	70	82	59,05 €	61,20 €	61,20 €	73,95 €	63,35 €				
ZYAS 192506TA	A162506	SA-7MTA	19	25	6	70	113	86,05 €	89,15 €	89,15 €	107,80 €	92,30 €				
ZYAS 252506TA	A252506	SB-9MTA	25,4	25	6	70	192	117,10 €	121,80 €	121,80 €	149,70 €	126,45 €				

Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: ZYAS 041306
How to order: ZYAS 041306
Example de com: ZYAS 041306



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Walzenrundform
WRC - C - SC

- Ball nosed cylinder
- Cylindrique bout rond
- Cilindrica con radio
- Cilindrica sferica
- Forma cilindrica rotunjita
- Цилиндр со сферическим концом
- 球头圆柱形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
WRC 021103	C021103	SC-41M	2,5	11	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
WRC 031403	C031403	SC-42M	3	14	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
WRC 031403L2	C031403J2	SC-42ML2	3	14	3	50	20	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €	
WRC 031403L3	C031403L3	SC-42ML3	3	14	3	75	25	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	auf Anfrage
WRC 061303	C061303	SC-51M	6,3	12,7	3	50	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	
WRC 031606	C031606	SC-12M	3	16	6	60	20	16,80 €	17,60 €	17,60 €	22,85 €	18,35 €	
WRC 051606	C051606	SC-14M	5	16	6	50	20	16,80 €	18,35 €	18,35 €	22,85 €	18,35 €	
WRC 061606	C061606	SC-1M	6	16	6	50	23	16,50 €	17,25 €	17,25 €	22,55 €	18,05 €	on request
WRC 061306L6	C061306L6	SC-1ML6	6	16	6	162	45	28,90 €	29,70 €	29,70 €	34,95 €	30,45 €	
WRC 082006	C082006	SC-2M	8	19	6	64	25	21,45 €	23,60 €	23,60 €	29,05 €	23,60 €	
WRC 082506	C082506	SC-2MA	8	25	6	69	28	24,55 €	25,80 €	25,80 €	33,25 €	27,05 €	
WRC 101906	C101906	SC-3M	9,5	19	6	64	30	21,75 €	22,85 €	22,85 €	29,35 €	23,90 €	
WRC 102506	C102506	SC-3MA	9,5	25	6	69	37	25,35 €	26,60 €	26,60 €	34,20 €	27,80 €	
WRC 101906L6	C101906L6	SC-3ML6	9,5	19	6	169	54	34,20 €	35,25 €	35,25 €	41,80 €	36,35 €	sur demande
WRC 112506	C112506	SC-4M	11	25	6	69	45	31,70 €	33,25 €	33,25 €	42,75 €	34,80 €	
WRC 122506	C122506	SC-5M	12,7	25	6	69	52	34,20 €	35,90 €	35,90 €	46,15 €	37,60 €	
WRC122506L6	C122506L6	SC-5ML6	12,7	25	6	175	75	46,60 €	48,30 €	48,30 €	58,55 €	50,05 €	
WRC 162506	C162506	SC-6M	16	25	6	69	82	43,50 €	45,65 €	45,65 €	58,70 €	47,85 €	
WRC 192506	C192506	SC-7M	19	25	6	69	113	62,15 €	65,25 €	65,25 €	83,85 €	68,35 €	
WRC 252506	C252506	SC-9M	25	25	6	69	192	108,70 €	114,15 €	114,15 €	146,75 €	119,60 €	

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
WRC 021103TA	C021103	SC-41MTA	2,5	11	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
WRC 031403TA	C031403	SC-42MTA	3	14	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
WRC 031403L2TA	C031403L2	SC-42ML2TA	3	14	3	50	20	12,45 €	12,90 €	12,90 €	16,05 €	13,45 €	
WRC 031403L3TA	C031403L3	SC-42ML3TA	3	14	3	75	25	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €	auf Anfrage
WRC 061303TA	C061303	SC-51MTA	6,3	12,7	3	50	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €	
WRC 031606TA	C031606	SC-12MTA	3	16	6	60	20	20,05 €	20,85 €	20,85 €	26,10 €	21,60 €	
WRC 051606TA	C051606	SC-14MTA	5	16	6	50	20	20,20 €	21,75 €	21,75 €	26,25 €	21,75 €	
WRC 061606TA	C061606	SC-1MTA	6	16	6	50	23	21,00 €	21,80 €	21,80 €	27,05 €	22,55 €	
WRC 061306TA	C061306L6	SC-1ML6TA	6	16	6	162	45	41,50 €	42,30 €	42,30 €	47,55 €	43,05 €	on request
WRC 082006TA	C082006	SC-2MTA	8	19	6	64	25	30,45 €	32,65 €	32,65 €	38,05 €	32,65 €	
WRC 082506TA	C082506	SC-2MATA	8	25	6	69	28	33,55 €	34,80 €	35,80 €	42,25 €	36,05 €	
WRC 101906TA	C101906	SC-3MTA	9,5	19	6	64	30	30,75 €	31,85 €	31,85 €	38,40 €	32,95 €	
WRC 102506TA	C102506	SC-3MATA	9,5	25	6	69	37	34,35 €	35,60 €	35,60 €	43,20 €	36,80 €	
WRC 101906L6TA	C101906L6	SC-3ML6TA	9,5	19	6	169	54	53,20 €	54,20 €	54,20 €	60,75 €	55,30 €	sur demande
WRC 112506TA	C112506	SC-4MTA	11	25	6	69	45	43,95 €	45,55 €	45,55 €	55,00 €	47,10 €	
WRC 122506TA	C122506	SC-5MTA	12,7	25	6	69	52	46,45 €	48,20 €	48,20 €	58,40 €	49,90 €	
WRC 122606L6TA	C122506L6	SC-5ML6TA	12,7	25	6	175	75	72,05 €	73,80 €	73,80 €	84,05 €	75,50 €	
WRC 162506TA	C162506	SC-6MTA	16	25	6	69	82	59,95 €	62,15 €	62,15 €	75,20 €	64,30 €	
WRC 192506TA	C192506	SC-7MTA	19	25	6	69	113	86,05 €	89,15 €	89,15 €	107,80 €	92,30 €	
WRC 252506TA	C252506	SC-9MTA	25	25	6	69	192	132,65 €	138,10 €	138,10 €	170,70 €	143,50 €	

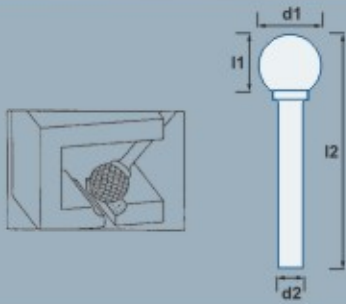
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: WRC 031606
How to order: WRC 031606
Example de com: WRC 031606










HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Kugel
KUD - D - SD

-  Ball
-  Sphérique (ou boule)
-  Esférica
-  Sferica
-  Forma sferica
-  Cfepa
-  球头体

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KUD 020203	D020203	SD-41M	2,5	2,3	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
KUD 030203	D030203	SD-42M	3	2,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
KUD 030203L2	D030203L2	SD-42ML2	3	2,5	3	50	20	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €	auf Anfrage
KUD 030203L2	D030203L3	SD-42ML3	3	2,5	3	75	25	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	
KUD 060503	D060503	SD-51M	6,3	5	3	44	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	
KUD 030206	D030206	SD-12M	3	2	6	50	20	16,50 €	17,25 €	17,25 €	22,25 €	18,05 €	
KUD 050406	D050406	SD-14M	5	4	6	50	20	16,50 €	17,25 €	17,25 €	22,25 €	18,05 €	on request
KUD 060506	D060506	SD-1M	6	5	6	50	23	15,85 €	16,65 €	16,65 €	22,05 €	17,40 €	
KUD 060506L6	D060506L6	SD-1ML6	6	5	6	155	45	28,25 €	31,10 €	31,10 €	34,50 €	29,85 €	
KUD 080606	D080606	SD-2M	8	6,4	6	51	24	17,10 €	18,05 €	18,05 €	23,15 €	18,80 €	
KUD 100806	D100806	SD-3M	9,5	8	6	53	30	18,95 €	20,40 €	20,40 €	25,65 €	20,85 €	
KUD 111006	D111006	SD-4M	11	9,5	6	54	45	24,10 €	25,35 €	25,35 €	32,45 €	26,45 €	
KUD 121106	D121106	SD-5M	12,7	11	6	55	52	24,85 €	26,10 €	26,10 €	33,55 €	27,35 €	sur demande
KUD 121106L6	D121106L6	SD-5ML6	12,7	11	6	161	75	37,30 €	38,55 €	38,55 €	46,00 €	39,80 €	
KUD 161406	D161406	SD-6M	16	14	6	58	82	31,10 €	32,65 €	32,65 €	41,95 €	34,20 €	
KUD 191606	D191606	SD-7M	19	16	6	62	113	42,25 €	44,45 €	44,45 €	57,00 €	46,45 €	
KUD 252106	D252106	SD-9M	25,4	21	6	72	192	69,60 €	73,00 €	73,00 €	93,95 €	78,10 €	

TiAlN beschichtet
TiAlN coated
TIALN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KUD 020203TA	D020203	SD-41MTA	2,5	2,3	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
KUD 030203TA	D030203	SD-42MTA	3	2,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
KUD 030203L2TA	D030203L2	SD-42ML2TA	3	2,5	3	50	20	12,45 €	12,90 €	12,90 €	16,05 €	13,45 €	auf Anfrage
KUD 030203L2TA	D030203L3	SD-42ML3TA	3	2,5	3	75	25	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €	
KUD 060503TA	D060503	SD-51MTA	6,3	5	3	44	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €	
KUD 030206TA	D030206	SD-12MTA	3	2	6	50	20	18,85 €	19,60 €	19,60 €	24,60 €	20,40 €	
KUD 050406TA	D050406	SD-14MTA	5	4	6	50	20	19,90 €	20,70 €	20,70 €	25,65 €	21,45 €	on request
KUD 060506TA	D060506	SD-1MTA	6	5	6	50	23	20,35 €	21,15 €	21,15 €	26,55 €	21,90 €	
KUD 060506L6TA	D060506L6	SD-1ML6TA	6	5	6	155	45	40,85 €	43,65 €	43,65 €	47,10 €	42,40 €	
KUD 080606TA	D080606	SD-2MTA	8	6,4	6	51	24	23,30 €	24,25 €	24,25 €	29,35 €	25,00 €	
KUD 100806TA	D100806	SD-3MTA	9,5	8	6	53	30	28,00 €	29,40 €	29,40 €	35,65 €	29,85 €	
KUD 111006TA	D111006	SD-4MTA	11	10	6	54	45	36,35 €	37,60 €	37,60 €	44,75 €	38,70 €	
KUD 121106TA	D121106	SD-5MTA	12,7	11	6	55	52	37,15 €	38,40 €	38,40 €	45,85 €	39,65 €	sur demande
KUD 121106L6TA	D121106L6	SD-5ML6TA	12,7	11	6	161	75	62,75 €	64,00 €	64,00 €	71,45 €	65,25 €	
KUD 161406TA	D161406	SD-6MTA	16	14	6	58	82	47,55 €	49,10 €	49,10 €	58,40 €	50,65 €	
KUD 191606TA	D191606	SD-7MTA	19	16	6	62	113	66,15 €	68,35 €	68,35 €	80,95 €	70,35 €	
KUD 252106TA	D252106	SD-9MTA	25,4	21	6	72	192	93,50 €	96,95 €	96,95 €	117,90 €	102,05 €	

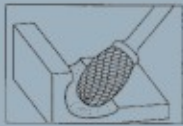
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: KUD 030206
How to order: KUD 030206
Example de com: KUD 030206



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Tropfen
TRE - E - SE

- Oval
- Ovale
- Oval
- Ovale
- Forma de picatura
- Obar
- 椭圆形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base										
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut		Taille	
								3	6	3SP	1	4		5
TRE 030503	E030503	SE-41M	3	5,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage	
TRE 030503L2	E030503L2	SE-41ML2	3	5	3	50	5	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €		
TRE 030503L3	E030503L3	SE-41ML3	3	5	3	75	5	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €		
TRE 061003	E061003	SE-51M	6,3	9,5	3	47	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	on request	
TRE 061006	E061006	SE-1M	6	9,5	6	50	23	19,60 €	20,50 €	20,50 €	26,45 €	21,60 €		
TRE 061006L6	E061006L6	SE-1ML6	6	9,5	6	160	45	32,00 €	32,95 €	32,95 €	38,85 €	34,05 €		
TRE 101606	E101606	SE-3M	9,5	16	6	60	30	24,10 €	25,35 €	25,35 €	32,45 €	26,60 €	sur demande	
TRE 101606L6	E101606L6	SE-3ML6	9,5	16	6	166	54	36,50 €	37,75 €	37,75 €	44,90 €	39,00 €		
TRE 122206	E122206	SE-5M	12,7	22	6	67	52	34,20 €	35,90 €	35,90 €	46,15 €	37,60 €		
TRE 122206	E122206	SE-5ML6	12,7	22	6	172	75	46,60 €	48,30 €	48,30 €	58,55 €	50,05 €	sur demande	
TRE 162506	E162506	SE-6M	16	25	6	70	82	48,45 €	50,80 €	50,80 €	65,40 €	53,30 €		
TRE 192506	E192506	SE-7M	19	25	6	70	113	62,15 €	65,25 €	65,25 €	83,85 €	68,35 €		

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base										
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut		Taille	
								3	6	3SP	1	4		5
TRE 030503TA	E030503	SE-41MTA	3	5,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage	
TRE 030503L2TA	E030503L2	SE-41ML2TA	3	5	3	50	5	12,45 €	12,90 €	12,90 €	16,05 €	13,45 €		
TRE 030503L3TA	E030503L3	SE-41ML3TA	3	5	3	75	5	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €		
TRE 061003TA	E061003	SE-51MTA	6,3	9,5	3	47	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €	on request	
TRE 061006TA	E061006	SE-1MTA	6	9,5	6	50	23	24,10 €	25,05 €	25,05 €	30,95 €	26,10 €		
TRE 061006L6TA	E061006L6	SE-1ML6TA	6	9,5	6	160	45	44,60 €	45,55 €	45,55 €	51,45 €	46,60 €		
TRE 101606TA	E101606	SE-3MTA	9,5	16	6	60	30	33,10 €	34,35 €	34,35 €	41,50 €	35,60 €	sur demande	
TRE 101606L6TA	E101606L6	SE-3ML6TA	9,5	16	6	166	54	55,45 €	56,70 €	56,70 €	63,85 €	57,95 €		
TRE 122206TA	E122206	SE-5MTA	12,7	22	6	67	52	46,45 €	48,20 €	48,20 €	58,40 €	49,90 €		
TRE 122206TA	E122206	SE-5ML6TA	12,7	22	6	172	75	72,05 €	73,80 €	73,80 €	84,05 €	75,50 €	sur demande	
TRE 162506TA	E162506	SE-6MTA	26	25	6	70	82	64,90 €	67,25 €	67,25 €	81,90 €	69,75 €		
TRE 192506TA	E192506	SE-7MTA	19	25	6	70	113	86,05 €	89,15 €	89,15 €	107,80 €	92,30 €		

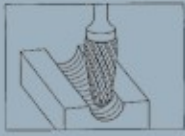
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: TRE 061006
How to order: TRE 061006
Example de com: TRE 061006



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Rundbogen
RBF - F - SF

- Ball nosed tree
- Ogive bout rond
- Ojival
- Ogiva a punta arrondata
- Forma arc rotunjit
- Параблa с закругленной головкой
- 半球形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base											
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut			Taille	
								3	6	3SP	1	4	5		
RBF 030603	F030603	SF-41M	3	6	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €			
RBF 031303	F031303	SF-42M	3	12	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €			
RBF 031303L2	F031303L2	SF-42ML2	3	12	3	50	20	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €	auf Anfrage		
RBF 031303L3	F031303L3	SF-42ML3	3	12	3	75	25	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €			
RBF 061303	F061303	SF-51M	6,3	12,7	3	50	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €			
RBF 061606	F061606	SF-1M	6	16	6	50	23	17,70 €	18,65 €	18,65 €	23,90 €	19,45 €			
RBF 061606L6	F061606L6	SF-1ML6	6	16	6	163	45	30,15 €	31,10 €	31,10 €	36,65 €	31,85 €	on request		
RBF 101906	F101906	SF-3M	9,5	19	6	64	30	22,35 €	23,45 €	23,45 €	30,30 €	24,70 €			
RBF 101906L6	F101906L6	SF-3ML6	9,5	19	6	169	54	34,80 €	35,90 €	35,90 €	42,75 €	37,10 €			
RBF 112506	F112506	SF-4M	11	25	6	70	45	29,20 €	30,60 €	30,60 €	39,45 €	32,15 €			
RBF 121906	F121906	SF-13M	12,7	19	6	64	45	31,40 €	32,95 €	32,95 €	42,40 €	34,50 €			
RBF 122506	F122506	SF-5M	12,7	25	6	70	52	31,70 €	33,25 €	33,25 €	42,90 €	34,80 €			
RBF 122506L6	F122506L6	SF-5ML6	12,7	25	6	175	75	44,10 €	45,65 €	45,65 €	55,30 €	47,20 €	sur demande		
RBF 162506	F162506	SF-6M	16	25	6	70	82	45,35 €	47,70 €	47,70 €	61,20 €	50,05 €			
RBF 192506	F192506	SF-7M	19	25	6	70	113	59,95 €	62,90 €	62,90 €	80,95 €	66,00 €			
RBF 193206	F193206	SF-14M	19	32	6	77	120	62,45 €	65,55 €	65,55 €	84,35 €	68,65 €			
RBF 193806	F193806	SF-15M	19	38	6	83	145	86,95 €	91,35 €	91,35 €	117,45 €	95,70 €			

TiAlN beschichtet
TiAlN coated
TIALN avec revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base											
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung			Cut			Taille	
								3	6	3SP	1	4	5		
RBF 030603TA	F030603	SF-41MTA	3	6	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €			
RBF 031303TA	F031303	SF-42MTA	3	12	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €			
RBF 031303L2TA	F031303L2	SF-42ML2TA	3	12	3	50	20	12,45 €	12,90 €	12,90 €	16,06 €	13,45 €	auf Anfrage		
RBF 031303L3TA	F031303L3	SF-42ML3TA	3	12	3	75	25	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €			
RBF 061303TA	F061303	SF-51MTA	6,3	12,7	3	50	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €			
RBF 061606TA	F061606	SF-1MTA	6	16	6	50	23	22,25 €	23,15 €	23,15 €	28,45 €	23,95 €			
RBF 061606L6TA	F061606L6	SF-1ML6TA	6	16	6	163	45	42,75 €	43,65 €	43,65 €	48,95 €	44,45 €	on request		
RBF 101906TA	F101906	SF-3MTA	9,5	19	6	64	30	31,40 €	32,50 €	32,50 €	39,40 €	33,70 €			
RBF 101906L6TA	F101906L6	SF-3ML6TA	9,5	19	6	169	54	53,75 €	54,85 €	54,85 €	61,70 €	56,05 €			
RBF 112506TA	F112506	SF-4MTA	11	25	6	70	45	41,50 €	42,90 €	42,90 €	51,75 €	44,45 €			
RBF 121906TA	F121906	SF-13MTA	12,7	19	6	64	45	43,65 €	45,20 €	45,20 €	54,70 €	46,75 €			
RBF 122506TA	F122506	SF-5MTA	12,7	25	6	70	52	43,95 €	45,55 €	45,55 €	55,15 €	47,10 €			
RBF 122506L6TA	F122506L6	SF-5ML6TA	12,7	25	6	175	75	69,60 €	71,15 €	71,15 €	80,80 €	72,70 €	sur demande		
RBF 162506TA	F162506	SF-6MTA	16	25	6	70	82	61,80 €	64,15 €	64,15 €	77,65 €	66,50 €			
RBF 192506TA	F192506	SF-7MTA	19	25	6	70	113	83,90 €	86,85 €	86,85 €	104,85 €	89,95 €			
RBF 193206TA	F193206	SF-14MTA	19	32	6	77	120	86,35 €	89,45 €	89,45 €	108,25 €	92,55 €			
RBF 193806TA	F193806	SF-15MTA	19	38	6	83	145	116,30 €	120,65 €	120,65 €	146,75 €	125,05 €			

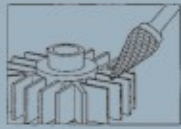
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: RBF 061606
How to order: RBF 061606
Example de com: RBF 061606



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Spitzbogen
SPG - G - SG

- Tree
- Ogive pointue
- Ojival en punta
- Ogiva a punta
- Forma arc ascutit
- Параблa с заостренной головкой
- 树形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35						Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille		
								3	6	3SP	1	4	5	
SPG 030603	G030603	SG-41M	3	6	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €		
SPG 031003	G031003	SG-43M	3	9,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €		
SPG 031303	G031303	SG-44M	3	12,7	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage	
SPG 031303L2	G031303L2	SG-44ML2	3	12	3	50	8	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €		
SPG 031303L3	G031303L3	SG-44ML3	3	12	3	75	8	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €		
SPG 061303	G061303	SG-51M	6,3	12,7	3	50	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €		
SPG 061606	G061606	SG-1M	6	16	6	50	23	17,70 €	18,65 €	18,65 €	23,90 €	19,45 €	on request	
SPG 061606L6	G061606L6	SG-1ML6	6	16	6	163	45	30,15 €	31,10 €	31,10 €	36,35 €	31,85 €		
SPG 081906	G081906	SG-2M	8	19	6	64	24	23,90 €	25,20 €	25,20 €	32,35 €	26,25 €		
SPG 101906	G101906	SG-3M	9,5	19	6	64	30	22,35 €	23,45 €	23,45 €	30,30 €	24,70 €		
SPG 101906L6	G101906L6	SG-3ML6	9,5	19	6	169	54	34,80 €	35,90 €	35,90 €	42,75 €	37,10 €		
SPG 122506	G122506	SG-5M	12,7	25	6	70	52	31,70 €	33,25 €	33,25 €	42,90 €	34,80 €		
SPG 122506L6	G122506L6	SG-5ML6	12,7	25	6	175	75	44,10 €	45,65 €	45,65 €	55,30 €	47,20 €	sur demande	
SPG 121906	G121906	SG-13M	12,7	19	6	64	45	31,40 €	32,95 €	32,95 €	42,40 €	34,50 €		
SPG 162506	G162506	SG-6M	16	25	6	70	82	45,35 €	47,70 €	47,70 €	61,20 €	50,05 €		
SPG 192506	G192506	SG-7M	19	25	6	70	113	59,95 €	62,90 €	62,90 €	80,95 €	72,85 €		

TiAlN beschichtet
TiAlN coated
TIALN avec revêtement



Rabatt / Discount / Remise			Grp. 35						Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille		
								3	6	3SP	1	4	5	
SPG 030603TA	G030603	SG-41MTA	3	6	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €		
SPG 031003TA	G031003	SG-43MTA	3	9,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €		
SPG 031303TA	G031303	SG-44MTA	3	12,7	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage	
SPG 031303L2TA	G031303L2	SG-44ML2TA	3	12	3	50	8	12,45 €	12,90 €	12,90 €	16,05 €	13,45 €		
SPG 031303L3TA	G031303L3	SG-44ML3TA	3	12	3	75	8	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €		
SPG 061303TA	G061303	SG-51MTA	6,3	12,7	3	50	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €		
SPG 061606TA	G061606	SG-1MTA	6	16	6	50	23	22,25 €	23,15 €	23,15 €	28,45 €	23,95 €	on request	
SPG 061606L6TA	G061606L6	SG-1ML6TA	6	16	6	163	45	42,75 €	43,65 €	43,65 €	48,95 €	44,45 €		
SPG 081906TA	G081906	SG-2MTA	8	19	6	64	24	32,95 €	34,20 €	34,20 €	41,35 €	35,25 €		
SPG 101906TA	G101906	SG-3MTA	9,5	19	6	64	30	31,40 €	32,50 €	32,50 €	39,30 €	33,70 €		
SPG 101906L6TA	G101906L6	SG-3ML6TA	9,5	19	6	169	54	53,75 €	54,85 €	54,85 €	61,70 €	56,05 €		
SPG 122506TA	G122506	SG-5MTA	12,7	25	6	70	52	43,95 €	45,55 €	45,55 €	55,15 €	47,10 €		
SPG 122506L6TA	G122506L6	SG-5ML6TA	12,7	25	6	175	75	69,60 €	71,15 €	71,15 €	80,80 €	72,70 €	sur demande	
SPG 121906TA	G121906	SG-13MTA	12,7	19	6	64	45	43,65 €	45,20 €	45,20 €	54,70 €	46,75 €		
SPG 162506TA	G162506	SG-6MTA	16	25	6	70	82	61,80 €	64,15 €	64,15 €	77,65 €	66,50 €		
SPG 192506TA	G192506	SG-7MTA	19	25	6	70	113	83,90 €	86,85 €	86,85 €	104,85 €	96,75 €		

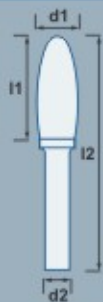
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: SPG 061606
How to order: SPG 061606
Example de com: SPG 061606



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Flame
FLA - H - SH

- Flame
- Flamme
- Llama
- Fiamma
- Forma arc ascutit
- Язычок пламени
- 火炬形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
FLA 030603	H030603	SH-41M	3	6,3	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
FLA 030603L2	H030603L2	SH-41ML2	3	6,3	3	50	20	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €	auf Anfrage
FLA 030603L3	H030603L3	SH-41ML3	3	6,3	3	75	25	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	
FLA 061306	H061306	SH-1M	6	12,7	6	50	23	19,60 €	20,50 €	20,50 €	26,45 €	21,60 €	
FLA 061306	H061306	SH-1ML6	6	12,7	6	160	45	32,00 €	32,95 €	32,95 €	38,85 €	34,05 €	on request
FLA 081906	H081906	SH-2M	8	19	6	63	24	21,75 €	22,85 €	22,85 €	29,35 €	23,90 €	
FLA 081906	H081906L6	SH-2ML6	8	19	6	169	55	34,20 €	35,25 €	35,25 €	41,80 €	36,35 €	
FLA 123206	H123206	SH-5M	12,7	32	6	76	52	44,75 €	46,90 €	46,90 €	60,40 €	49,40 €	
FLA 123206L6	H123206L6	SH-5ML6	12,7	32	6	182	75	57,15 €	59,35 €	59,35 €	72,85 €	61,85 €	sur demande
FLA 163606	H163606	SH-6M	16	36	6	80	82	64,30 €	67,55 €	67,55 €	86,80 €	70,70 €	
FLA 19416	H194106	SH-7M	19	41	6	85	113	93,20 €	97,85 €	97,85 €	125,80 €	102,50 €	

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
FLA 030603TA	H030603	SH-41MTA	3	6,3	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	8,40 €	
FLA 030603L2TA	H030603L2	SH-41ML2TA	3	6,3	3	50	20	12,45 €	12,90 €	12,90 €	16,05 €	13,45 €	auf Anfrage
FLA 030603L3TA	H030603L3	SH-41ML3TA	3	6,3	3	75	25	16,50 €	17,10 €	17,10 €	21,15 €	17,80 €	
FLA 061306TA	H061306	SH-1MTA	6	12,7	6	50	23	24,10 €	25,05 €	25,05 €	30,95 €	26,10 €	
FLA 061306TA	H061306	SH-1ML6TA	6	12,7	6	160	45	44,60 €	45,55 €	45,55 €	51,45 €	46,60 €	on request
FLA 081906TA	H081906	SH-2MTA	8	19	6	63	24	30,75 €	31,85 €	31,85 €	38,40 €	32,95 €	
FLA 081906L6TA	H081906L6	SH-2ML6TA	8	19	6	169	55	53,15 €	54,20 €	54,20 €	60,75 €	55,30 €	
FLA 123206TA	H123206	SH-5MTA	12,7	32	6	76	52	57,05 €	59,20 €	59,20 €	72,70 €	61,70 €	
FLA 123206L6TA	H123206L6	SH-5ML6TA	12,7	32	6	182	75	85,90 €	88,10 €	88,10 €	101,60 €	90,55 €	sur demande
FLA 163606TA	H163606	SH-6MTA	16	36	6	80	82	82,15 €	85,40 €	85,40 €	104,70 €	88,55 €	
FLA 19416TA	H194106	SH-7MTA	19	41	6	85	113	122,55 €	127,20 €	127,20 €	155,15 €	131,85 €	

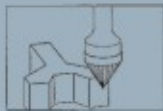
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: FLA 061306
How to order: FLA 061306
Example de com: FLA 061306



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Kegel 60°
KSJ - J - SJ

- Countersink 60°
- Conique 60°
- Cónica 60°
- Conica 60°
- Forma tesire conica 60°
- зенкер с вершиной 60°
- 圆锥形60°

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base						
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut			Taille	
								3	6	3SP	1	4		5
KSJ 030203	J030203	SJ-42M	3	2,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage	
KSJ 060406	J060406	SJ-1M	6	4	6	50	23	16,15 €	17,10 €	17,10 €	21,75 €	17,70 €		
KSJ 100806	J100806	SJ-3M	9,5	8	6	50	28	19,90 €	20,90 €	20,90 €	26,90 €	21,95 €	on request	
KSJ 121106	J121106	SJ-5M	12,7	11	6	58	52	24,55 €	25,80 €	25,80 €	33,10 €	27,05 €		
KSJ 161406	J161406	SJ-6M	16	14,5	6	61	82	32,35 €	33,85 €	33,85 €	43,65 €	35,45 €		
KSJ 191806	J191806	SJ-7M	19	17,5	6	65	113	43,35 €	45,55 €	45,55 €	58,55 €	48,00 €	sur demande	
KSJ 252506	J252506	SJ-9M	25	24,5	6	68	192	68,35 €	71,75 €	71,75 €	92,25 €	75,15 €		

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base						
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut			Taille	
								3	6	3SP	1	4		5
KSJ 030203TA	J030203	SJ-42MTA	3	2,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage	
KSJ 060406TA	J060406	SJ-1MTA	6	4	6	50	23	20,65 €	21,60 €	21,60 €	26,25 €	22,25 €		
KSJ 100806TA	J100806	SJ-3MTA	9,5	8	6	50	28	28,90 €	29,85 €	29,85 €	35,90 €	30,95 €	on request	
KSJ 121106TA	J121106	SJ-5MTA	12,7	11	6	58	52	36,85 €	38,10 €	38,10 €	45,35 €	39,30 €		
KSJ 161406TA	J161406	SJ-6MTA	16	14,5	6	61	82	48,80 €	50,35 €	50,35 €	60,10 €	51,90 €		
KSJ 191806TA	J191806	SJ-7MTA	19	17,5	6	65	113	67,25 €	69,45 €	69,45 €	82,50 €	71,90 €	sur demande	
KSJ 252506TA	J252506	SJ-9MTA	25	14,5	6	68	192	92,30 €	95,70 €	95,70 €	116,20 €	99,10 €		

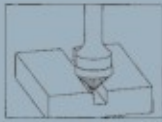
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: KSJ 100806
How to order: KSJ 100806
Example de com: KSJ 100806



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Kegel 90°
KSK - K - SK

- Countersink 90°
- Conique 90°
- Cónica 90°
- Conica 90°
- Forma tesire conica 90°
- зенкер с вершиной 90°
- 圆锥形90°

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KSK 030203	K030203	SK-42M	3	1,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage
KSK 060306	K060306	SK-1M	6	3	6	50	23	16,15 €	17,10 €	17,10 €	21,75 €	17,70 €	on request
KSK 100506	K100506	SK-3M	9,5	4,7	6	52	30	19,90 €	20,90 €	20,90 €	26,90 €	21,95 €	sur demande
KSK 120606	K120606	SK-5M	12,7	6,3	6	54	52	24,55 €	25,80 €	25,80 €	33,10 €	27,05 €	
KSK 160806	K160806	SK-6M	16	8	6	57	82	32,35 €	33,85 €	33,85 €	43,65 €	35,45 €	
KSK 191006	K191006	SK-7M	19	9,5	6	58	113	43,35 €	45,55 €	45,55 €	58,55 €	48,00 €	
KSK 251206	K251206	SK-9M	25	12,7	6	60	192	68,35 €	71,75 €	71,75 €	92,25 €	75,15 €	

TiALN beschichtet
TiALN coated
TiALN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KSK 030203TA	K030203	SK-42MTA	3	1,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage
KSK 060306TA	K060306	SK-1MTA	6	3	6	50	23	20,65 €	21,60 €	21,60 €	26,25 €	22,25 €	on request
KSK 100506TA	K100506	SK-3MTA	9,5	4,7	6	52	30	28,90 €	29,85 €	29,85 €	35,90 €	30,95 €	sur demande
KSK 120606TA	K120606	SK-5MTA	12,7	6,3	6	54	52	36,85 €	38,10 €	38,10 €	45,35 €	39,30 €	
KSK 160806TA	K160806	SK-6MTA	16	8	6	57	82	48,80 €	50,35 €	50,35 €	60,10 €	51,90 €	
KSK 191006TA	K191006	SK-7MTA	19	9,5	6	58	113	67,25 €	69,45 €	69,45 €	82,50 €	71,90 €	
KSK 251206TA	K251206	SK-9MTA	25	12,7	6	60	192	92,30 €	95,70 €	95,70 €	116,20 €	99,10 €	

Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: KSK 100506
How to order: KSK 100506
Example de com: KSK 100506



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Rundkegel
KEL - L - SL

- Ball nosed cone
- Conique bout arrondi
- Cónica punta redonda
- Conica a punta arrotondata
- Forma de con rotunjit
- Конус с закругленной головкой
- 锥形圆头

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KEL 031003	L031003	SL-41M	3	9,5	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
KEL 031203	L031203	SL-42M	3	12,7	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage
KEL 061606	L061606	SL-1M	6	16	6	50	23	17,90 €	18,90 €	18,90 €	24,10 €	19,75 €	
KEL 061606L6	L061606L6	SL-1ML6	6	16	6	166	45	30,30 €	31,25 €	31,25 €	36,50 €	32,15 €	
KEL 082206	L082206	SL-2M	8	22	6	67	24	22,70 €	23,80 €	23,80 €	30,60 €	25,00 €	on request
KEL 102706	L102706	SL-3M	9,5	27	6	72	30	27,05 €	28,45 €	28,45 €	36,50 €	29,85 €	
KEL 102706L6	L102706L6	SL-3ML6	9,5	27	6	177	54	39,45 €	40,90 €	40,90 €	48,95 €	42,25 €	
KEL 122806	L122806	SL-4M	12,7	28	6	73	45	34,50 €	36,20 €	36,20 €	46,60 €	38,20 €	
KEL 122806L6	L122806L6	SL-4ML6	12,7	28	6	178	70	46,90 €	48,65 €	48,65 €	59,05 €	50,65 €	sur demande
KEL 163006	L163006	SL-5M	16	30	6	75	52	60,60 €	63,50 €	63,50 €	81,85 €	66,65 €	
KEL 163306	L163306	SL-6M	16	33	6	78	82	60,60 €	63,50 €	63,50 €	81,85 €	66,65 €	
KEL 193806	L193806	SL-7M	19	38	6	83	113	86,95 €	91,35 €	91,35 €	117,45 €	95,70 €	

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise			Grp. 35					Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille	
								3	6	3SP	1	4	5
KEL 031003TA	L031003	SL-41MTA	3	9,5	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
KEL 031203TA	L031203	SL-42MTA	3	12,7	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage
KEL 061606TA	L061606	SL-1MTA	6	16	6	50	23	22,40 €	23,30 €	23,30 €	28,60 €	24,25 €	
KEL 061606L6TA	L061606L6	SL-1ML6TA	6	16	6	166	45	42,90 €	43,80 €	43,80 €	49,10 €	44,75 €	
KEL 082206TA	L082206	SL-2MTA	8	22	6	67	24	31,70 €	32,80 €	32,80 €	39,60 €	34,05 €	on request
KEL 102706TA	L102706	SL-3MTA	9,5	27	6	72	30	36,05 €	37,45 €	37,45 €	45,55 €	38,85 €	
KEL 102706L6TA	L102706L6	SL-3ML6TA	9,5	27	6	177	54	58,40 €	59,85 €	59,85 €	67,90 €	61,20 €	
KEL 122806TA	L122806	SL-4MTA	12,7	28	6	73	45	46,75 €	48,50 €	48,50 €	58,90 €	50,50 €	
KEL 122806L6TA	L122806L6	SL-4ML6TA	12,7	28	6	178	70	72,40 €	74,10 €	74,10 €	84,50 €	76,15 €	sur demande
KEL 163006TA	L163006	SL-5MTA	16	30	6	75	52	78,45 €	81,40 €	81,40 €	99,70 €	84,50 €	
KEL 163306TA	L163306	SL-6MTA	16	33	6	78	82	78,45 €	81,40 €	81,40 €	99,70 €	84,50 €	
KEL 193806TA	L193806	SL-7MTA	19	38	6	83	113	116,30 €	120,65 €	120,65 €	146,75 €	125,05 €	

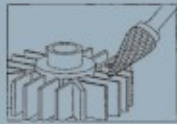
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: KEL 061606
How to order: KEL 061606
Example de com: KEL 061606



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Spitzkegel
SKM - M - SM

- Cone
- Conique bout pointu
- Cónica punta recta
- Conica a punta
- Forma de con ascutit
- Конус
- 锥形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise			Grp. 35						Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille		
								3	6	3SP	1	4	5	
SKM 030903	M030903	SM-41M	3	8,9	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage	
SKM 031103	M031103	SM-42M	3	11	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €		
SKM 031103L2	M031103L2	SM-42ML2	3	11	3	50	20	10,10 €	10,60 €	10,60 €	13,70 €	11,10 €		
SKM 031103L3	M031103L3	SM-42ML3	3	11	3	75	25	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	on request	
SKM 031603	M031603	SM-43M	3	16	3	38	7	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €		
SKM 061203	M061203	SM-51M	6,3	12,7	3	54	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €		
SKM 061206	M061206	SM-1M	6	12,7	6	50	23	17,40 €	18,20 €	18,20 €	23,45 €	19,10 €	sur demande	
SKM 061906	M061906	SM-2M	6	19	6	50	24	18,65 €	19,60 €	19,60 €	25,20 €	20,50 €		
SKM 062506	M062506	SM-3M	6	25	6	50	30	19,90 €	22,70 €	22,70 €	26,90 €	21,95 €		
SKM 101606	M101606	SM-4M	9,5	16	6	61	45	26,75 €	27,95 €	27,95 €	36,05 €	29,05 €		
SKM 122206	M122206	SM-5M	12,7	22	6	67	52	34,20 €	35,90 €	35,90 €	46,60 €	37,60 €		
SKM 162506	M162506	SM-6M	16	25	6	73	82	53,15 €	55,75 €	55,75 €	71,75 €	58,40 €		

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise			Grp. 35						Grundpreise / Basic prices / Prix de base					
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut		Taille		
								3	6	3SP	1	4	5	
SKM 030903TA	M030903	SM-41MTA	3	8,9	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage	
SKM 031103TA	M031103	SM-42MTA	3	11	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €		
SKM 031103L2TA	M031103L2	SM-42ML2TA	3	11	3	50	20	13,40 €	13,85 €	13,85 €	16,95 €	14,40 €		
SKM 031103L3TA	M031103L3	SM-42ML3TA	3	11	3	75	25	16,50 €	17,10 €	17,10 €	21,25 €	17,80 €	on request	
SKM 031603TA	M031603	SM-43MTA	3	16	3	38	7	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €		
SKM 061203TA	M061203	SM-51MTA	6,3	12,7	3	54	7	19,30 €	19,90 €	19,90 €	23,95 €	20,60 €		
SKM 061206TA	M061206	SM-1MTA	6	12,7	6	50	23	21,90 €	22,70 €	22,70 €	28,00 €	23,65 €	sur demande	
SKM 061906TA	M061906	SM-2MTA	6	19	6	50	24	23,15 €	24,10 €	24,10 €	29,70 €	25,05 €		
SKM 062506TA	M062506	SM-3MTA	6	25	6	50	30	24,40 €	27,20 €	27,20 €	31,40 €	26,45 €		
SKM 101606TA	M101606	SM-4MTA	9,5	16	6	61	45	35,75 €	37,00 €	37,00 €	45,05 €	38,05 €		
SKM 122206TA	M122206	SM-5MTA	12,7	22	6	67	52	46,45 €	48,20 €	48,20 €	58,90 €	49,90 €		
SKM 162506TA	M162506	SM-6MTA	16	25	6	73	82	69,60 €	72,25 €	72,25 €	88,20 €	74,85 €		

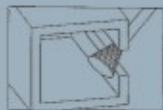
Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: SKM 061206
How to order: SKM 061206
Example de com: SKM 061206



HARTMETALL - FRÄSSTIFTE

Carbide burrs - Fraises limes rotatives carbure



Winkel
WKN - N - SN

- Inverted cone
- Conique renversée
- Cónica Invertida
- Conica rovesciata
- Forma unghiulara
- Перевернутый конус
- 倒锥形

Unbeschichtet
Uncoated
Sans revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base									
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut			Taille
								3	6	3SP	1	4	
WKN 030303	N030303	SN-41M	2,5	3	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	auf Anfrage
WKN 030403	N030403	SN-42M	3	4	3	38	5	7,60 €	8,10 €	8,10 €	10,90 €	8,40 €	
WKN 060603	N060603	SN-51M	6,3	6	3	44	7	13,20 €	13,85 €	13,85 €	17,90 €	14,55 €	on request
WKN 060806	N060806	SN-1M	6	8	6	50	23	16,05 €	16,80 €	16,80 €	21,60 €	17,60 €	
WKN 101006	N101006	SN-2M	9,5	9,5	6	55	24	30,45 €	32,00 €	32,00 €	41,20 €	33,55 €	sur demande
WKN 121206	N121206	SN-4M	12,7	12,7	6	58	45	31,70 €	33,25 €	33,25 €	42,90 €	34,80 €	
WKN 161906	N161906	SN-6M	16	19	6	64	82	45,35 €	47,70 €	47,70 €	61,20 €	50,05 €	
WKN 191606	N191606	SN-7M	19	16	6	61	113	53,45 €	56,10 €	56,10 €	72,25 €	58,70 €	

TiAlN beschichtet
TiAlN coated
TiAlN avec revêtement



Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base									
DIN Code	ISO code	SCTI code	d1 ca. Ø mm	l1 ca. Ø mm	d2 Ø mm h9	l2 ca. mm	Gewicht weight poids g	Zahnung		Cut			Taille
								3	6	3SP	1	4	
WKN 030303TA	N030303	SN-41MTA	2,5	3	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	auf Anfrage
WKN 030403TA	N030403	SN-42MTA	3	4	3	38	5	9,95 €	10,45 €	10,45 €	13,25 €	10,75 €	
WKN 060603TA	N060603	SN-51MTA	6,3	6	3	44	7	17,70 €	18,35 €	18,35 €	22,40 €	19,05 €	on request
WKN 060806TA	N060806	SN-1MTA	6	8	6	50	23	20,55 €	21,30 €	21,30 €	26,10 €	22,10 €	
WKN 101006TA	N101006	SN-2MTA	9,5	9,5	6	55	24	39,45 €	41,00 €	41,00 €	50,15 €	42,55 €	sur demande
WKN 121206TA	N121206	SN-4MTA	12,7	12,7	6	58	45	43,95 €	45,55 €	45,55 €	55,15 €	47,10 €	
WKN 161906TA	N161906	SN-6MTA	16	19	6	64	82	61,80 €	64,15 €	64,15 €	77,65 €	66,50 €	
WKN 191606TA	N191606	SN-7MTA	19	16	6	61	113	77,35 €	80,00 €	80,00 €	96,15 €	82,65 €	

Andere Abmessungen und Zahnungen liefern wir gerne auf Anfrage.
Please ask for other dimensions and cuts.
Autres dimensions ou dentures sur demande.

Bestellbeispiel: WKN 060806
How to order: WKN 060806
Example de com: WKN 060806





Model 75RSP	
Geschwindigkeit(U-min) /Speed (rpm) /Vitesse	75,000
Kraft/Power /Force	0.11kW / 0.15Hp
Gewicht /Weight /Poids (kgs)	0.15
Geräuschpegel /Noise Level /Niveau sonore (dbA)	66
Spannzange/Standard Collet/ Pince de serrage (mm)	3 (Type CC)
Luftverbrauch/Air Usage/Consommation d'air (m3/min)	0.20
Abluft/Exhaust/Air extrait	Hinten/Rear/ Arrière
Bedienung/Control /Commande	Schalthebel/Roll throttle/Levier d'embrayage
Schlauchanschluss/Hose/Tuyau	Einschliesslich M8/Included-M8/Inclus M8

Price: 199,00 €

Anwendungsgebiete Application Sectors Domaine d'utilisation

- Luftfahrt/ Automobil/Werkzeuge- und Formenbau
- Aerospace/ Automotive/Die and Mould
- Aéronautique / Automobile / Die and Mould

Empfohlene Werkzeuge Recommended Consumables Routillage

- HM-Frässtifte/Schleifstifte/Polierstifte
- Tungsten Carbide Burrs/ Point Montés / Polishing Points
- Fraises limes rotatives carbure/ Point Montés / Points de polissage



Kurzinfo 75RSP Key Points - 75RSP Points clés - 75RSP

- Präzises Hochgeschwindigkeitsschleifen /Abluft nach hinten ermöglicht ruhiges arbeiten/
Durch die geringe Größe kann die Maschine wie ein Stift gehalten werden was sehr genaues arbeiten ermöglicht
- High speeds enable precise deburring/ Rear exhaust provides quiet operation/ Slim body can be held like a pen for detailed work
- Haute vitesse précise permettant d'ébavurage / arrière d'échappement permet un fonctionnement silencieux
Corps mince dont la taille permet l'emploi comme stylo pour faciliter réalisation des travaux elaborés

Einsatzgebiete Areas of Use Domaine d'utilisation

- Für präzises Entgraten und feine Schleifarbeiten
- Suitable for precision deburring and fine grinding
- Convenable pour la precision d'ebavurage et de broyage detaille





Price: 219,00 €


Model 252P

Geschwindigkeit(U-min) / Speed (rpm) / Vitesse		25000
Kraft/Power / Force	kW	0,37
	Hp	0,50
Durchmesser/Diameter/Diamètre	mm	38,00
	inch	1,49
Länge/Lenght/Longueur	mm	167,00
	inch	6,57
Gewicht /Weight / Poids (kgs)	kg	0,70
	1,54	1,54
Geräuschpegel / Noise Level / Niveau sonore (dbA)		73
Spannzange/Standard Collet/ Pince de serrage	mm	6,00
	inch	1/4"
Luftverbrauch/Air Usage/ Consommation d'air	m ³ /min	0,57
	cfm	20,00
Abgassysteme/Exhaust/Exhaust		Front
Schlauchanschluss/Hose Inlet/Tuyau de raccordeme		1/4"

Vorteile/Advantages/Advantages

-  • Der 252P lässt sich sehr vielseitig einsetzen u.a. mit HM-Frässtiften 10-12 mm und Trennscheiben.
- Der Motor hat eine Leistung von KW 0,37.
- Der Sicherungshebel verhindert ein plötzliches Anschalten.
- Der ergonomisch angepasste Griff schützt die Hand des Bedieners gegen Kälte.
- Die vordere, radiale Abluft verstärkt die Sicherheit des Bedieners.
- Verstärkte Stabilität durch einen Stahlkörper.
- 252P ist eine kompakte Maschine bis Griffdurchmesser von nur 38 mm.
- Der Motor kann ausgetauscht werden.
- Der Motor des 252P ist sehr einfach aufgebaut, was eine eventuelle Reparatur sehr unkompliziert macht.

-  • The 252P is suitable for use with a wide range of consumables including 10 -12 mm tungsten carbide burs and cut off wheels.
- The motor has a power output of 0.50 Hp.
- Safety lever fitted to eliminate risk of accidental start up.
- Ergo sleeve fitted to help insulate the operator's hands against cold.
- Front radial exhaust for increased operator safety.
- Heavy Duty Body (Steel Construction)
- The 252P model is a compact tool with a gripping diameter of only 38mm.
- Replacement Motor Available
- The P252 has a very simple motor design which means that repair of this tool is very straightforward.

-  • Le 252p est adapté pour une utilisation avec une large gamme de consommables, y compris 10 -12 mm en carbure de tungstène et de fraises coupées roues.
- Le moteur a une puissance de sortie de 0,50 Hp.
- De sécurité munis de levier afin d'éliminer les risques de démarrage accidentel.
- Ergo manche muni d'aider à protéger l'opérateur de mains contre le froid.
- Front radiale des gaz d'échappement pour accroître la sécurité de l'opérateur.
- Heavy Duty Body (construction en acier)
- Le 252p est un modèle compact avec un outil de préhension de seulement 38 mm de diamètre.
- Moteur de remplacement disponibles
- Le P252 dispose d'un moteur de conception très simple ce qui signifie que la réparation de cet outil est très simple.



Model 27LRSV	
Geschwindigkeit(U-min) / Speed (rpm) / Vitesse	25,000
Kraft/Power / Force	0,75kW/1,00Hp
Gewicht /Weight / Poids (kgs)	0.85
Geräuschpegel / Noise Level / Niveau sonore (dbA)	72
Spannzange/Standard Collet/ Pince de serrage	6 (Nr. 12416060)
Luftverbrauch/Air Usage/ Consommation d'air (m3/min)	0.92
Abluft/Exhaust/Air extrait	Hinten/Rear/ Arrière
Bedienung/Control / Commande	Schalthebel/Roll throttle/ Levier d'embrayage
Schlauchanschluss/Hose/Tuyau	Einschliesslich 1/4"/Included-1/4"/Inclus-1/4"

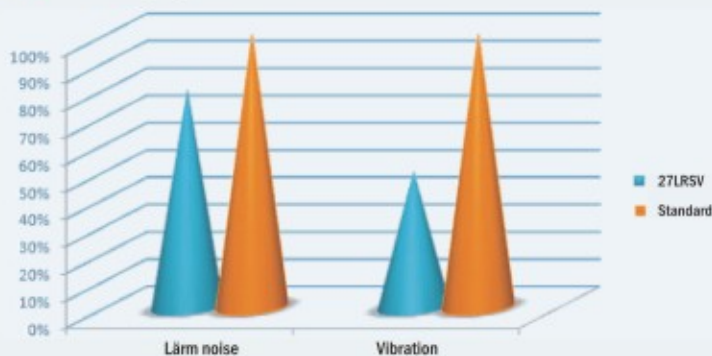
Price: 299,00 €

Kurzinfo Key Points Points clés

- Werkzeugvibrationen werden durch eine einzigartige Motoraufhängung drastisch reduziert
 • Weniger Vibrationen verbessern das Wohlbefinden des Arbeiters und verlängert die Lebensdauer von Verbrauchsteilen
- Unique suspended motor design dramatically reduces tool vibration
 • Reduced vibration improves operator comfort and extends consumable life
 • Fast stock removal and superior surface finish
- Unique en suspension moteur outil de conception réduit considérablement les vibrations
 • Réduction de vibration améliore le confort de l'opérateur et étend la vie des consommables
 • Enlèvement rapide et finition supérieure de surface

Einsatzgebiete Areas of Use Domaine d'utilisation

- Entgraten und generelles
- Deburring and general stock removal
- Ebavurage général et enlèvement





Rabatt / Discount / Remise		Grp. 35		Grundpreise / Basic prices / Prix de base	
Bestell-Nr Order No. No. d.com	Verpackung Packing Emballage	Kurzbezeichnung Description Description	Inhalt 1 Stück Content 1 piece each Contenu resp. 1 piece	Bruttopreis Gross price Prix de Base	
Leere Schraubbox Empty boxes Boite vide					
355-12-3-Schraubbox 355-12-3-Schraubbox 355-12-3-Schraubbox	Schraubbox Screw-Box Boite	Leere Schraubbox mit 12 Bohrungen Dm. 3 mm Empty Screw-Box with 12 holes dia. 3 mm Boite vide avec 12 trous dia. 3 mm	Blaue Schraubbox mit 12 Bohrungen 3 mm Blue Screw-Box with 12 holes dia. 3 mm Coffret plastique bleu avec insert mousse 12 compartiments 3 mm	2,70 €	
355-12-6-Schraubbox 355-12-6-Schraubbox 355-12-6-Schraubbox	Schraubbox Screw-Box Boite	Leere Schraubbox mit 12 Bohrungen Dm. 6 mm Empty Screw-Box with 12 holes dia. 6 mm Boite vide avec 12 trous dia. 6 mm	Blaue Schraubbox mit 12 Bohrungen 6 mm Blue Screw-Box with 12 holes dia. 6 mm Coffret plastique bleu avec insert mousse 12 compartiments 6 mm	2,70 €	
355-8-3-Schraubbox 355-8-3-Schraubbox 355-8-3-Schraubbox	Schraubbox Screw-Box Boite	Leere Schraubbox mit 8 Bohrungen Dm. 3 mm Empty Screw-Box with 8 holes dia. 3 mm Boite vide avec 8 trous dia. 3 mm	Blaue Schraubbox mit 8 Bohrungen 3 mm Blue Screw-Box with 8 holes dia. 3 mm Coffret plastique bleu avec insert mousse 8 compartiments 3 mm	2,70 €	
355-8-6-Schraubbox 355-8-6-Schraubbox 355-8-6-Schraubbox	Schraubbox Screw-Box Boite	Leere Schraubbox mit 8 Bohrungen Dm. 6 mm Empty Screw-Box with 8 holes dia. 6 mm Boite vide avec 8 trous dia. 6 mm	Blaue Schraubbox mit 8 Bohrungen 6 mm Blue Screw-Box with 8 holes dia. 6 mm Coffret plastique bleu avec insert mousse 8 compartiments 6 mm	2,70 €	



Sortimente mit 3 mm Schaft Sets with 3 mm shank Jeux avec tige 3 mm					
355-08-0306-03-6 355-08-0306-03-6 355-08-0306-03-6	Schraubbox Screw-Box Boite	8 Stück Kopfdm. 2+3+6 mm, Schaft 3 mm, Zahnung 6 8 pieces head 2+3+6 mm, shank 3 mm, cut 6 8 pièce tete 2+3+6 mm, tige 3 mm, taille 6	ZYA 0211 + ZYA 0313 + WRC 0313 + WRC 0613 + KUD 0302 + KUD 0605 + RBF 0307 + RBF 0613	97,00 €	
355-08-0306-03-3S 355-08-0306-03-3S 355-08-0306-03-3S	Schraubbox Screw-Box Boite	8 Stück Kopfdm. 2+3+6 mm, Schaft 3 mm, Zahnung 3 8 pieces head 2+3+6 mm, shank 3 mm, cut 3 8 pièce tete 2+3+6 mm, tige 3 mm, taille 3	ZYA 0211 + ZYA 0313 + WRC 0313 + WRC 0613 + KUD 0302 + KUD 0605 + RBF 0307 + RBF 0613	97,00 €	
355-11-0304-03-6 355-11-0304-03-6 355-11-0304-03-6	Schraubbox Screw-Box Boite	11 Stück Kopfdm. 3+4 mm, Schaft 3 mm, Zahnung 6 11 pieces head 3+4 mm, shank 3 mm, cut 6 11 pièce tete 3+4 mm, tige 3 mm, taille 6	ZYA 0313 + ZYAS 0313 + WRC 0313 + SKM 0307 + KEL 0312 + KUD 0302 + KUD 0403 + FLA 0306 + RBF 0313 + SPG 0313 + TRE 0307	102,00 €	
355-11-0304-03-3 355-11-0304-03-3 355-11-0304-03-3	Schraubbox Screw-Box Boite	11 Stück Kopfdm. 3+4 mm, Schaft 3 mm, Zahnung 3 11 pieces head 3+4 mm, shank 3 mm, cut 3 11 pièce tete 3+4 mm, tige 3 mm, taille 3	ZYA 0313 + ZYAS 0313 + WRC 0313 + SKM 0307 + KEL 0312 + KUD 0302 + KUD 0403 + FLA 0306 + RBF 0313 + SPG 0313 + TRE 0307	102,00 €	



Sortimente mit 6 mm Schaft Sets with 6 mm shank Jeux avec tige 6 mm					
355-08-1012-06-6 355-08-1012-06-6 355-08-1012-06-6	Schraubbox Screw-Box Boite	8 Stück Kopfdm. 10+12 mm, Schaft 6 mm, Zahnung 6 8 pieces head 10+12 mm, shank 6 mm, cut 6 8 pièce tete 10+12 mm, tige 6 mm, taille 6	ZYA 1020 + ZYA 1225 + WRC 1020 + WRC 1225 + KUD 1008 + KUD 1210 + RBF 1020 + RBF 1225	225,50 €	
355-08-1012-06-3SP 355-08-1012-06-3SP 355-08-1012-06-3SP	Schraubbox Screw-Box Boite	8 Stück Kopfdm. 10+12 mm, Schaft 6 mm, Zahnung 3SP 8 pieces head 10+12 mm, shank 6, cut 3 with chip breaker 8 pièce tete 10+12 mm, tige 6 mm, taille 3SP	ZYA 1020 + ZYA 1225 + WRC 1020 + WRC 1225 + KUD 1008 + KUD 1210 + RBF 1020 + RBF 1225	225,50 €	
355-10-1012-06-6 355-10-1012-06-6 355-10-1012-06-6	Schraubbox Screw-Box Boite	10 Stück Kopfdm. 10+12 mm, Schaft 6 mm, Zahnung 6 10 pieces head 10+12 mm, shank 6 mm, cut 6 10 pièce tete 10+12 mm, tige 6 mm, taille 6	ZYA 1020 + ZYA 1225 + WRC 1020 + WRC 1225 + SPG 1020 + SPG 1225 + KEL 1225 + KUD 1210 + RBF 1225 + TRE 1020	236,00 €	
355-10-1012-06-3SP 355-10-1012-06-3SP 355-10-1012-06-3SP	Schraubbox Screw-Box Boite	10 Stück Kopfdm. 10+12 mm, Schaft 6 mm, Zahnung 3SP 10 pieces head 10+12 mm, shank 6 mm, cut 3 with chip breaker 10 pièce tete 10+12 mm, tige 6 mm, taille 3SP	ZYA 1020 + ZYA 1225 + WRC 1020 + WRC 1225 + SPG 1020 + SPG 1225 + KEL 1225 + KUD 1210 + RBF 1225 + TRE 1020	236,00 €	
355-08-0610-06-6 355-08-0610-06-6 355-08-0610-06-6	Schraubbox Screw-Box Boite	8 Stück Kopfdm. 6+10 mm, Schaft 6 mm, Zahnung 6 8 pieces head 6+10 mm, shank 6 mm, cut 6 8 pièce tete 6+10 mm, tige 6 mm, taille 6	ZYAS 0616 + ZYAS 1020 + WRC 0616 + WRC 1020 + KUD 0605 + KUD 1009 + SPG 0618 + SKM 1020	170,00 €	
355-06-06-06-6 355-06-06-06-6 355-06-06-06-6	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 6 mm, Schaft 6 mm, Zahnung 6 6 pieces head 6 mm, shank 6 mm, cut 6 6 pièce tete 6 mm, tige 6 mm, taille 6	ZYAS 0616 + WRC 0616 + KEL 0616 + RBF 0618 + SPG 0616 + SKM 0618	111,00 €	
355-06-06-06-3 355-06-06-06-3 355-06-06-06-3	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 6 mm, Schaft 6 mm, Zahnung 3 6 pieces head 6 mm, shank 6 mm, cut 3 6 pièce tete 6 mm, tige 6 mm, taille 3	ZYAS 0616 + WRC 0616 + KEL 0616 + RBF 0618 + SPG 0616 + SKM 0618	111,00 €	
355-06-12-06-6 355-06-12-06-6 355-06-12-06-6	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 12 mm, Schaft 6 mm, Zahnung 6 6 pieces head 12 mm, shank 6 mm, cut 6 6 pièce tete 12 mm, tige 6 mm, taille 6	ZYAS 1225 + WRC 1225 + KEL 1230 + RBF 1225 + SPG 1225 + SKM 1225	185,00 €	
355-06-12-06-3SP 355-06-12-06-3SP 355-06-12-06-3SP	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 12 mm, Schaft 6 mm, Zahnung 3SP 6 pieces head 12 mm, shank 6 mm, cut 3 with chip breaker 6 pièce tete 12 mm, tige 6 mm, taille 3SP	ZYAS 1225 + WRC 1225 + KEL 1230 + RBF 1225 + SPG 1225 + SKM 1225	185,00 €	
355-06-10-06-6 355-06-10-06-6 355-06-10-06-6	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 10 mm, Schaft 6 mm, Zahnung 6 6 pieces head 10 mm, shank 6 mm, cut 6 6 pièce tete 10 mm, tige 6 mm, taille 6	ZYAS 1020 + WRC 1020 + KEL 1020 + RBF 1020 + SPG 1020 + SKM 1020	140,00 €	
355-06-10-06-3SP 355-06-10-06-3SP 355-06-10-06-3SP	Schraubbox Screw-Box Boite	6 Stück Kopfdm. 10 mm, Schaft 6 mm, Zahnung 3SP 6 pieces head 10 mm, shank 6 mm, cut 3 chip breaker 6 pièce tete 10 mm, tige 6 mm, taille 3SP	ZYAS 1020 + WRC 1020 + KEL 1020 + RBF 1020 + SPG 1020 + SKM 1020	140,00 €	



Sortimente mit Aluminiumverzahnung Sets with aluminum-cut Jeux avec taille aluminium					
355-05-12-06-1 355-05-12-06-1 355-05-12-06-1	Schraubbox Screw-Box Boite	5 Stück Kopfdm. 12 mm, Schaft 6 mm, Zahnung 1 5 pieces head 12 mm, shank 6 mm, cut 1 5 pièces tete 12 mm, tige 6 mm, taille 1	ZYA 1225 + WRC 1225 + KUD 1210 + RBF 1225 + KEL 1225	200,00 €	
355-08-0306-03-3S 355-08-0306-03-3S 355-08-0306-03-3S	Schraubbox Screw-Box Boite	5 Stück Kopfdm. 8+10 mm, Schaft 6 mm, Zahnung 1 5 pieces head 8+10 mm, shank 6 mm, cut 1 5 pièces tete 8+10 mm, tige 6 mm, taille 1	ZYA 1020 + WRC 1020 + KUD 1008 + RBF 1020 + KEL 1020	155,00 €	






	Ø 3 mm	Ø 6 mm	Ø 10 mm	Ø 12 mm	Ø 16 mm
Stahl Steel Acier	60.000 - 90.000	45.000 - 60.000	30.000 - 40.000	22.500 - 30.000	18.000 - 24.000
Gehärteter Stahl Hardened steel Acier trempé	60.000 - 90.000	30.000 - 45.000	19.000 - 30.000	15.000 - 22.500	12.000 - 18.000
Edelstahl Stainless steel Acier inoxydable	60.000 - 90.000	30.000 - 45.000	19.000 - 30.000	15.000 - 22.500	12.000 - 18.000
Gußeisen Cast iron Fonte	45.000 - 90.000	22.500 - 60.000	15.000 - 40.000	11.000 - 30.000	9.000 - 24.000
Titan Titanium Titane	60.000 - 90.000	30.000 - 45.000	19.000 - 30.000	15.000 - 22.500	12.000 - 18.000
Nickel Nickel Nickel	60.000 - 90.000	30.000 - 45.000	19.000 - 30.000	15.000 - 22.500	12.000 - 18.000
Kupfer/Kupferlegierungen Copper/Copper alloys Cuivre/Alliage de cuivre	45.000 - 90.000	22.500 - 60.000	15.000 - 40.000	11.000 - 30.000	9.000 - 24.000
Aluminium Aluminium Aluminium	30.000 - 90.000	15.000 - 70.000	10.000 - 50.000	7.000 - 38.000	6.000 - 30.000
Kunststoff Plastics Plastiques	30.000 - 90.000	15.000 - 70.000	10.000 - 50.000	7.000 - 38.000	6.000 - 30.000
Cermet Cermet Cermet	60.000 - 90.000	30.000 - 45.000	19.000 - 30.000	15.000 - 22.500	12.000 - 18.000




WILKE HM-Frässtifte werden auf Schweizer CNC-Schleifmaschinen von Rollomatic gefertigt.
WILKE carbide burrs are manufactured with Swiss CNC-grinding machines from Rollomatic.
Wilke fraises limes rotatives carbure sont fabriqués avec des machines de CNC-rectification de Rollomatic.





-  - Um eine optimale Leistung zu erreichen, kann es erforderlich sein, dass die angegebenen Drehzahlwerte geringfügig geregelt werden müssen.
- Härtere Materialien erfordern geringere Drehzahlen.
- Kleiner Fräser erfordern höhere Drehzahlen.
- Extralange (Länge >150mm) erfordern geringere Drehzahlen.
- Beim Arbeiten die Bewegung konstant halten und leichten Druck aufbringen.
- Arbeiten unter der optimalen Drehzahl begünstigt das Aussplittern.
- Arbeiten über der optimalen Drehzahl führt zum verstärkten Zahnverschleiß.
- Wenn man das Werkzeug zu heiß werden lässt, kann die Hartlötverbindung schmelzen und der Kopf löst sich vom Schaft.
- Durch die Benutzung verschlissener Werkzeuge und Klemmhülsen wird das Aussplittern begünstigt.
- Den Fräser nicht mehr als ein Drittel seines Umfangs in das Material senken

-  - It may be necessary to adjust the speeds shown to achieve optimum performance.
- Harder materials require slower speeds.
- Smaller burrs require faster speeds.
- Extra long burrs (> 150mm long) require slower speeds.
- Apply constant movement and light pressure when in use.
- Running below the optimum speed will encourage chipping.
- Running above the optimum speed will cause tooth wear.
- Allowing the tool to become too hot may cause the braze to melt and detach the head from the shank.
- Using tools and collets that have become worn will encourage chipping.
- Do not sink the burr for more than one third of its periphery.

-  - Il faudra peut-etre modifier les vitesses indiquees pour optimiser les performances de fonctionnement.
- Pour les materiaux plus durs, utiliser des vitesses plus lentes.
- Pour les bavures plus petites, utiliser des vitesses plus rapides.
- Pour les bavures particulierement longues (> 150mm de long), utiliser des vitesses plus lentes.
- Durant l'utilisation, deplacer constamment l'outil en appliquant une legere pression.
- Une utilisation en dessous de la vitesse optimale favorisera la formation éclats.
- Une utilisation au-dessous de la vitesse optimale entrainera une usure des dents.
- En cas de surchauffe de l'outil, la brasage risque de fondre provoquant le detachement de la tete.
- L'emploi d'outils et de douilles de serrage uses risque de provoquer la formation éclats.
- Ne pas enfoncer la fraise-lime de plus d'un tiers de sa peripherie.

Sicherheitsempfehlungen / Safety recommendations / Consignes de sécurité



Gehörschutz tragen
Wear ear protection
Casque anti-bruit



Gesichtsschutzmaske tragen
Wear protective mask
Veuillez porter un masque de protection



Schutzbrille tragen
Wear safety glasses
Veuillez porter des lunettes de protection



Schutzhandschuhe tragen
Wear protective gloves
Veuillez porter des gants de protection



Anleitung lesen
Read instructions
Veuillez lire les instructions

Terms and Conditions of Sale

1. Offers and Order

Our offers are made without obligation. All agreements reached between us and the customer for the purpose of performing this Contract are set down in writing in this Contract. We do not recognize the terms and conditions of sale and business of our customers even if we have not objected to these. Our terms and conditions of sale shall also apply if we carry out the deliveries to the Purchaser unconditionally in knowledge of conditions to the contrary or conditions deviating from our terms and conditions of sale.

2. Prices

The basic prices in our lists applicable in each case are non-binding recommended prices without VAT. They apply ex Schwalbach/Taunus and do not include the costs of packaging, freight, postage and capital maintenance. In each case, the prices applicable on the delivery date are charged.

3. Payment Conditions

- Payment must be made within 30 days after the date of invoice without cash discounts or within 10 days with a 2 % cash discount. Invoicing by means of work performed for a wage (for example subsequent sharpening and coating of tools) shall be excluded from the deduction of a discount.
- In the event of a default in payment, the statutory regulations shall apply.
- The defence of the non-performed contract as provided in Section 320 of the German Civil Code [Bürgerliches Gesetzbuch (BGB)] shall not impede the commencement of the default.
- The Purchaser is only entitled to rights of set-off if its counterclaims are established by declaratory judgment, undisputed or recognized by us.
- In the event of the existence of defects, the Purchaser is not entitled to a right of retention, unless the delivery is obviously defective or the Purchaser is obviously entitled to a right to refuse to accept the work; in such a case the Purchaser is only entitled to a right of retention if the retained amount bears an appropriate relationship to the defects and the anticipated costs of remedying the defect. The Purchaser is not entitled to assert claims and rights based on defects if the Purchaser has not made payments due and the amount due bears an appropriate relationship to value of the delivery - bearing defects - or work.

4. Retention of Title

- We retain the title to the item of sale until such time as all payments arising out of the business relationship with the Purchaser have been received. If we agree with the Purchaser to pay the purchase price debt on the basis of the cheque-bill of exchange procedure, the retention of title shall also cover the cashing of bills of exchange accepted by us by the Purchaser and shall not expire through a crediting of the received cheque at our place of business. In the event of conduct by the Purchaser contrary to the terms of the Contract, in particular in the event of a default in payment, we are entitled to take back the item of sale. The taking back of the item of sale by us shall entail a withdrawal from the Contract. After taking back the item of sale, we are entitled to sell this, the amount realised from the sale must be allowed as a credit against the obligations of the Purchaser – minus appropriate costs of the sale.
- The Purchaser is obliged to handle the item of sale carefully; in particular it is obliged to insure this adequately to the replacement value against damage from fire, water and theft at its own expense. If repair and inspection work is required, the Purchaser must carry this out in good time at its own expense.
- In the event of attachment (or seizure) of property by court authorities or other encroachments by third parties, the Purchaser must notify us in writing without undue delay so that we may bring a legal action in accordance with Section 771 of the German Code of Civil Procedure [Zivilprozessordnung (ZPO)]. If the third party is not in a position to reimburse us for the court and out-of-court costs of a legal action brought under Section 771 ZPO, the Purchaser shall be liable for the loss incurred by us.
- The Purchaser is entitled to resell the item of sale in the ordinary course of business; it shall, however, hereby assign to us in advance all debt claims in the amount of the final amount of the invoice (including VAT) for our debt claim that accrue to it against its customers or third parties from the resale, and namely independently of whether the item of sale has been resold without or after processing. The Purchaser also remains entitled to collect this debt claim after the assignment. This shall not affect our authority to collect the debt claim ourselves. We undertake, however, not to collect the debt claim as long as the Purchaser complies with its payment obligations from the collected proceeds from the sale, does not default in payment and in particular no application for the commencement of insolvency proceedings has been filed or a suspension of payments has occurred. If this is the case, however, we may demand that the Purchaser notify the assigned debt claims and their debtors to us, furnish all information required for the collection, hand over the relevant supporting documents and notify the assignment to the debtors (third parties).
- The processing or reformulation of the item of sale by the Purchaser shall always be carried out for us. If the item of sale is processed with other objects not belonging to us, we shall obtain the co-ownership of the new item in proportion of the value of the item of sale (final amount of the invoice including VAT) to the other processed objects at the time of the processing. For the item arising through the processing, in other respects, the same shall apply as for the item of sale delivered subject to retention of title.
- If the item of sale is mixed inseparably with other objects not belonging to us, we shall obtain the co-ownership of the new item in the proportion of the value of the item of sale (final amount of the invoice including VAT) to the other mixed objects at the time of the mixing. If the mixing takes place in such a way that the item of the Purchaser must be considered as the main item, the Parties to the Contract agree that the Purchaser shall transfer to us a prorated share of the co-ownership. The Purchaser shall keep the sole ownership or co-ownership in safe custody for us.
- The Purchaser also assigns to us all debt claims that a third party incurs due to the association of the item of sale with a piece of real estate as security for its claims against us.
- We undertake to release the securities to which we are entitled at the request of the Purchaser if the realised value of our securities exceeds the debt claims to be secured by more than 10%; we shall be responsible for the selection of the securities to be released.

5. Time of Delivery

- The start of the time of delivery stated by us shall be on condition that all technical questions have been clarified.
- Compliance with our delivery obligation shall be on condition that the obligation of the Purchaser has been complied with in due time and form. The defence of the non-performed contract shall continue to exist.
- If the Purchaser defaults in acceptance or culpably breaches other duties to cooperate, we are entitled to demand the payment of compensation for any damage or loss incurred in this regard, including any additional expenses. We reserve the right to assert further claims.
- If the preconditions of c) are satisfied, the risk of an accidental perishing or accidental deterioration of the item of sale shall pass to the Purchaser at the time in which the Purchaser defaults in acceptance or the debtor defaults.
- We are liable under the statutory provisions if the underlying Contract of Sale is a transaction for delivery by a fixed date within the meaning of Section 286 (2) No. 4 BGB or of Section 376 of the German Commercial Code [Handelsgesetzbuch (HGB)]. We are also liable under the statutory provisions if, as a consequence of a delay in delivery for which we are responsible, the Purchaser is entitled to assert that it is no longer interested in the continued performance of the Contract.
- Furthermore, we are liable in accordance with the statutory provisions if the delay in delivery is based on a breach of contract for which we are responsible due to intent or gross negligence or if fault by our representatives or vicarious agents must be attributed to us. If the delay in delivery is not based on an intentional breach of contract for which we are responsible, our liability for damages shall be limited to foreseeable damage or loss typically occurring.
- We are also liable under the statutory provisions if the delay in delivery for which we are responsible is based on the culpable breach of a stipulation going to the root of the Contract; in this case, however, the liability for damages shall be limited to foreseeable damage or loss typically occurring.
- In other respects, we are liable in the event of a delay in delivery for each completed week of the delay within the scope of lump-sum damages for the delay in the amount of 0.5% of the value of the delivery, however no more than 5% of the value of the delivery.
- Further claims by the Purchasers are –also after the expiry of a period set for the Seller to perform - excluded, unless the liability for the tortious injury to life, limb or health is concerned.

6. Dispatch

The goods are dispatched at the risk of the Purchaser. One-way packaging shall be charged at cost and not taken back. Leased packaging (for example Collico) shall be invoiced at cost.

7. Liability for Defects

- Material defects to the goods must be notified in writing without undue delay, however no later than two weeks after the delivery. Material defects that cannot be detected upon careful inspection within this period must – by immediately suspending any handling or processing - be notified in writing without undue delay after discovery, before the expiry of the agreed or statutory limitation period.
- If a defect in the item of sale occurs, we are entitled, at our choice, to supplementary performance in the form of a remedy of the defect or by a delivery of a new item free from defects. In the event of a remedy of the defect we shall only bear the expenses up to the amount of the purchase price.
- An unsuccessful subsequent improvement shall be deemed to have occurred only after the second unsuccessful attempt. If the supplementary performance is unsuccessful, the Purchaser may demand a reduction in the purchase price, or withdraw from the Contract after the expiry of an appropriate period.
- We are liable under the statutory provisions if the Purchaser asserts claims for damages that are based on intent or gross negligence, including intent or gross negligence by our representatives or vicarious agents. Unless we are held liable for an intentional breach of contract, the liability for damages shall be limited to foreseeable damage or loss typically occurring.
- We are liable under the statutory provisions if we culpably breach a stipulation going to the root of the Contract; in this case, however, the liability for damages shall be limited to foreseeable damage or loss typically occurring.
- This shall not affect the liability for culpable injury to life, limb or health; this shall also apply for the mandatory liability under the Product Liability Act [Produkthaftungsgesetz]
- Unless regulated to the contrary above, liability shall be excluded.
- The limitation period for claims based on defects shall be 12 months, calculated from the time of the passing of the risk.
- This shall not affect the limitation period in the case of a claim for damages for the delay in delivery under Sections 478, 479 BGB; it shall be 5 years calculated from the date of delivery of the defective item.
- Liability for damages beyond the damages provided above shall be excluded regardless of the legal nature of the asserted claim. This shall apply in particular for claims for damages based on fault on the conclusion of the Contract, for any other breach of duty or for tort claims for damages for material damage or loss under Section 823 BGB.
- The limitation under the above paragraph shall also apply if the Purchaser demands damages for wasted expenses instead of a claim for damages.
- If the liability for damages is excluded or restricted with regard to us, this shall also apply in respect of the personal liability for damages by our salaried employees, employees, representatives and vicarious agents.

8. Place of Performance, Place of Jurisdiction, Applicable Law

For delivery and payment, Schwalbach shall be the place of performance; the place of jurisdiction shall be the registered office of our business. The law of the Federal Republic of Germany shall apply; the application of UN-Sales Law (CISG) shall be excluded.



Werner Wilke Zerspanungstechnik GmbH



Simple yet ingenious - the specialist of the simple tools! Simple mais génialele - spécialiste pour le simple!

Telefon +49 (0) 6196 - 5036-0

Telefax +49 (0) 6196 - 5036-88

info@wilke-tools.de

www.wilke-tools.com

Postanschrift:

Postfach 6104

D - 65735 Eschborn/Ts.

Hausanschrift:

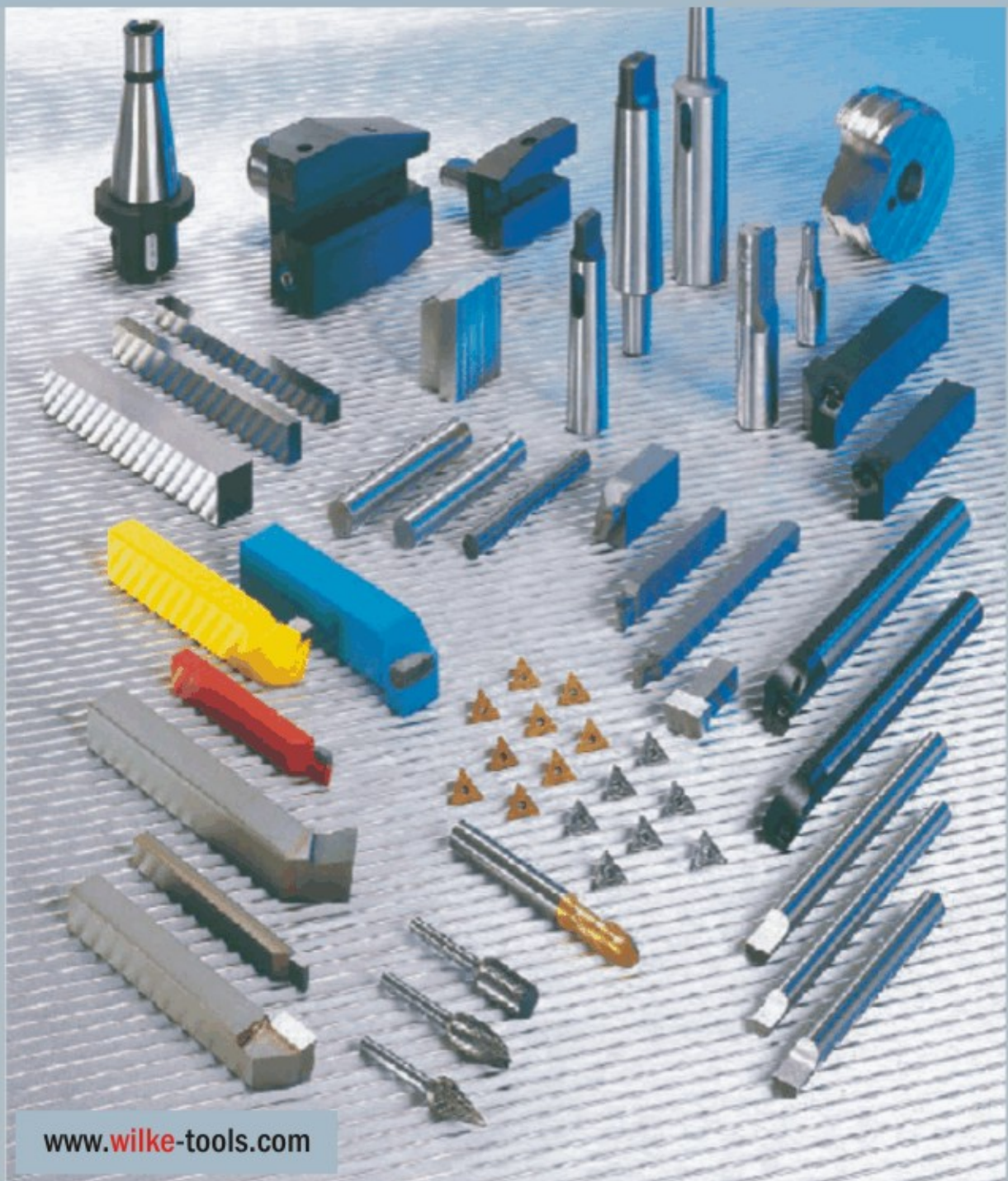
Eschborner Straße 4

D - 65824 Schwalbach/Ts.

Lager, Fertigung, Nachschleifdienst:

Auf den Sandackern 7

D - 35315 Homberg/Ohm



www.wilke-tools.com