



## Hartmetall-Frässtifte

**E** Tungsten carbide rotary burrs

**I** Frese rotative in metallo duro



Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D** **Übersicht**  
Hartmetall-Frässtifte

**E** **Overview**  
Tungsten carbide rotary burrs

**I** **Sommario**  
Frese rotative in metallo duro



**INOX**  
Herausragende Fräslleistung bei Edelstahl/Niro  
Outstanding milling performance in stainless steel  
Eccellente rendimento di fresatura in acciaio inossidabile

**SPECIAL STEEL**  
Aggressive Geometrie – hoher Materialabtrag  
Aggressive geometry – high chip removal  
Geometria aggressiva – elevata asportazione di materiale



Typ / Type / Tipo	ZYA	ZYA-S	WRC	SPG	WKN
Typ / Type / Tipo ISO	A	A-S	C	G	N
Stirnverzahnung / Front cut / Taglio in testa		ja / yes / si			
Ø mm	2-20	2-20	3-20	3-16	3-12
Code / Codice	777	778	779	780	781
Seite / Page / Pagina	186	187	188	189	190

Zahnung / Cutting profile / Dentatura

<b>NEW</b>	<b>0</b>	INOX					
	<b>1A</b>	Aluminium Aluminium Aluminio					
	<b>1</b>	DIN C					
	<b>2</b>						
	<b>3</b>	DIN MY					
	<b>4</b>	Diamant Diamond Diamanta					
	<b>6</b>	DIN MX					
	<b>6</b>	DIN MX					
<b>NEW</b>	<b>9</b>	SPECIAL STEEL					

**D** Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem separaten Zerspannungshandbuch.









**E** You will find the cutting conditions for all tools in our separate cutting manual.

**I** Per i parametri di lavorazione per tutti gli utensili richiedete il nostro manuale tecnico.

**D** **Übersicht**  
Hartmetall-Frässtifte

**E** **Overview**  
Tungsten carbide rotary burrs

**I** **Sommario**  
Frese rotative in metallo duro

							
SKM	KSK	KSJ	TRE	KUD	RBF	KEL	B
M	K	J	E	D	F	L	H
3-16	3-20	3-16	3-16	2,5-20	3-20	3-16	6-16
783	784	785	786	787	788	789	790
191	192	193	194	195	196	197	198
					▬	▬	
				▬	▬	▬	
					▬	▬	
▬				▬	▬	▬	
▬	▬	▬	▬	▬	▬	▬	▬
▬			▬	▬	▬	▬	▬
▬	▬	▬	▬	▬	▬	▬	▬
▬				▬	▬		
					▬	▬	



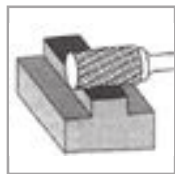
Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D Hartmetall-Frässtifte,**  
Zylinder, ohne  
Stirnverzahnung

**E Tungsten carbide rotary  
burrs, cylindrical,  
without front cut**

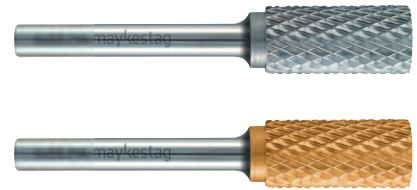
**I Frese rotative in metallo duro,  
cilindriche,  
senza taglio in testa**

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



**DIN**  
**ZYA**

**ISO**  
**A**



d1 mm	d2 mm	l1 mm	l2 mm	Code 7770 Art.-Nr.	Code 7778 Art.-Nr.	Code 7771 Art.-Nr.	Code 7772 Art.-Nr.	Code 7773 Art.-Nr.
2	3	38	10					0 7773031021 00
3	3	<b>38</b>	14					0 7773031031 00
3	3	<b>50</b>	14					
3	3	<b>65</b>	14					0 7773033031 00
4	3	40	10					0 7773031041 00
4	6	50	14					
6	3	43	13					0 7773031061 00
<b>New</b>	6	6	50	0 7770061061 00	0 7778061061 00			0 7773061061 00
<b>New</b>	8	6	65	0 7770061081 00				0 7773061081 00
	10	6	<b>58</b>					
<b>New</b>	10	6	<b>65</b>	0 7770061101 00	0 7778061101 00			0 7773061101 00
<b>New</b>	12	6	70	0 7770061121 00	0 7778061121 00			0 7773061121 00
	12	8	70					
	16	6	70					0 7773061161 00
	20	6	70					0 7773061201 00

d1 mm	d2 mm	l1 mm	l2 mm	Code 7774 Art.-Nr.	Code 7776 Art.-Nr.	Code 7777 Art.-Nr.	Code 7779 Art.-Nr.
2	3	38	10		0 7776031021 00		
3	3	<b>38</b>	14	0 7774031031 00	0 7776031031 00	0 7777031031 00	
3	3	<b>50</b>	14		0 7776032031 00		
3	3	<b>65</b>	14		0 7776033031 00		
4	3	40	10		0 7776031041 00		
4	6	50	14	0 7774061041 00	0 7776061041 00		
6	3	43	13	0 7774031061 00	0 7776031061 00		
6	6	50	16	0 7774061061 00	0 7776961061 00	0 7777061061 00	
8	6	65	20	0 7774061081 00	0 7776061081 00	0 7777061081 00	
10	6	<b>58</b>	13		0 7776063101 00		
10	6	<b>65</b>	20	0 7774061101 00	0 7776961101 00	0 7777061101 00	
12	6	70	25	0 7774061121 00	0 7776961121 00	0 7777061121 00	
12	8	70	25		0 7776081121 00		
16	6	70	25	0 7774061161 00	0 7776061161 00		
20	6	70	25				

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

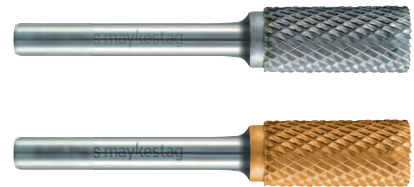
Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Zylinder, mit Stirnverzahnung

**E** Tungsten carbide rotary burrs, cylindrical, with front cut

**I** Frese rotative in metallo duro, cilindriche, taglio in testa

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7780 Art.-Nr.	Code 7788 Art.-Nr.	Code 7781 Art.-Nr.	Code 7782 Art.-Nr.	Code 7783 Art.-Nr.
2	3	38	10					0 7783031021.00
2	3	50	10					
3	3	38	14					0 7783031031.00
3	3	50	14					0 7783032031.00
3	3	75	14					0 7783034031.00
4	6	50	14					0 7783061041.00
6	3	43	13					0 7783031061.00
6	6	50	16				0 7782061061.00	0 7783061061.00
8	6	65	20				0 7782061081.00	0 7783061081.00
10	6	58	13					
10	6	65	20		0 7788061101.00		0 7782061101.00	0 7783061101.00
12	6	70	25		0 7788961121.00		0 7782061121.00	0 7783061121.00
16	6	70	25					0 7783061161.00
20	8	70	25					

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7784 Art.-Nr.	Code 7786 Art.-Nr.	Code 7787 Art.-Nr.	Code 7789 Art.-Nr.
2	3	38	10				
2	3	50	10	0 7784032021.00			
3	3	38	14	0 7784031031.00	0 7786031031.00	0 7787031031.00	
3	3	50	14	0 7784032031.00	0 7786032031.00		
3	3	75	14	0 7784034031.00			
4	6	50	14	0 7784061041.00	0 7786061041.00		
6	3	43	13	0 7784031061.00	0 7786031061.00		
<b>New</b>	6	6	50	0 7784061061.00	0 7786961061.00	0 7787061061.00	0 7789061061.00
<b>New</b>	8	6	65	0 7784061081.00	0 7786061081.00	0 7787061081.00	0 7789061081.00
	10	6	58		0 7786062101.00		
<b>New</b>	10	6	65	0 7784061101.00	0 7786961101.00	0 7787061101.00	0 7789061101.00
<b>New</b>	12	6	70		0 7786961121.00	0 7787061121.00	0 7789061121.00
	16	6	70	0 7784061161.00	0 7786061161.00		
	20	8	70	0 7784081201.00			

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

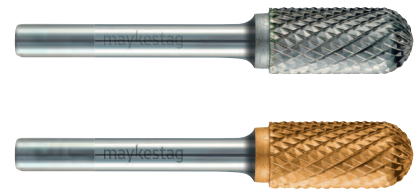
Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D** Hartmetall-Frässtifte, Walzenrund

**E** Tungsten carbide rotary burrs, ball nose

**I** Frese rotative in metallo duro, cilindriche sferica

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7790 Art.-Nr.	Code 7798 Art.-Nr.	Code 7791 Art.-Nr.	Code 7792 Art.-Nr.	Code 7793 Art.-Nr.
3	3	38	14					0 7793031031 00
3	3	50	14					0 7793032031 00
4	3	40	10					0 7793031041 00
4	6	50	14					0 7793061041 00
5	3	42	12					
6	3	43	14					0 7793031061 00
<b>New</b>	6	6	50	0 7790061061 00		0 7791061061 00	0 7792061061 00	0 7793061061 00
	6	6	150	16				0 7793062061 00
<b>New</b>	8	6	65	20	0 7790061081 00	0 7798061081 00	0 7792061081 00	0 7793061081 00
<b>New</b>	10	6	65	20	0 7790061101 00	0 7798061101 00	0 7792061101 00	0 7793061101 00
	10	6	70	25				
	10	6	150	20				
<b>New</b>	12	6	70	25	0 7790061121 00	0 7798061121 00	0 7792061121 00	0 7793061121 00
	12	6	150	25				
	12	8	70	25				
	16	6	70	25				0 7793061161 00
	20	6	70	25				

				4	6	6	9 <b>NEW</b>	
d1 mm	d2 mm	l1 mm	l2 mm	Code 7794 Art.-Nr.	Code 7796 Art.-Nr.	Code 7797 Art.-Nr.	Code 7799 Art.-Nr.	
3	3	38	14	0 7794031031 00	0 7796031031 00	0 7797031031 00		
3	3	50	14		0 7796032031 00			
4	3	40	10	0 7794031041 00	0 7796031041 00			
4	6	50	14		0 7796061041 00			
5	3	42	12	0 7794031051 00				
6	3	43	14	0 7794031061 00	0 7796031061 00			
<b>New</b>	6	6	50	16	0 7794061061 00	0 7796961061 00	0 7797061061 00	0 7799061061 00
	6	6	150	16	0 7794062061 00	0 7796062061 00		
<b>New</b>	8	6	65	20	0 7794061081 00	0 7796061081 00	0 7797061081 00	0 7799061081 00
<b>New</b>	10	6	65	20	0 7794061101 00	0 7796961101 00	0 7797061101 00	0 7799061101 00
	10	6	70	25		0 7796063101 00		
	10	6	150	20	0 7794062101 00			
<b>New</b>	12	6	70	25	0 7794061121 00	0 7796961121 00	0 7797061121 00	0 7799061121 00
	12	6	150	25	0 7794062121 00			
	12	8	70	25		0 7796081121 00		
	16	6	70	25	0 7794061161 00	0 7796061161 00		
	20	6	70	25	0 7794061201 00			

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Spitzbogen

**E** Tungsten carbide rotary burrs, arc pointed nose

**I** Frese rotative in metallo duro, a lancia

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



INOX



DIN MX



Aluminium  
Aluminium  
Aluminio



DIN MY



DIN MX



DIN C



Diamant  
Diamond  
Diamante

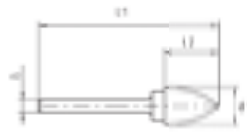


SPECIAL STEEL



DIN  
SPG

ISO  
G



Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7800 Art.-Nr.	Code 7808 Art.-Nr.	Code 7801 Art.-Nr.	Code 7802 Art.-Nr.	Code 7803 Art.-Nr.
3	3	38	12					0 7803031031 00
4	3	40	10					0 7803031041 00
4	6	50	14					
6	3	43	13					0 7803031061 00
<b>New</b>	6	6	50	0 7800061061 00				0 7803061061 00
<b>New</b>	8	6	65	0 7800061081 00				0 7803061081 00
<b>New</b>	10	6	65	0 7800061101 00	0 7808061101 00			0 7803061101 00
<b>New</b>	12	6	70	0 7800061121 00	0 7808061121 00			0 7803061121 00
	12	8	70					
	16	6	75					0 7803061161 00
	16	8	75					

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7804 Art.-Nr.	Code 7806 Art.-Nr.	Code 7807 Art.-Nr.	Code 7809 Art.-Nr.
3	3	38	12	0 7804031031 00	0 7806031031 00	0 7807031031 00	
4	3	40	10				
4	6	50	14		0 7806061041 00		
6	3	43	13	0 7804031061 00			
<b>New</b>	6	6	50	0 7804061061 00	0 7806961061 00	0 7807061061 00	0 7809061061 00
<b>New</b>	8	6	65	0 7804061081 00	0 7806061081 00		0 7809061081 00
<b>New</b>	10	6	65	0 7804061101 00	0 7806961101 00	0 7807061101 00	0 7809061101 00
<b>New</b>	12	6	70	0 7804061121 00	0 7806961121 00	0 7807061121 00	0 7809061121 00
	12	8	70		0 7806081121 00		
	16	6	75	0 7804061161 00	0 7806061161 00		
	16	8	75		0 7806081161 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

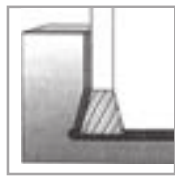


**D Hartmetall-Frässtifte,**  
Winkel, ohne  
Stirnverzahnung

**E Tungsten carbide rotary  
burrs,** inverted cone, without  
front cut

**I Frese rotative in metallo duro,**  
tronco conica, senza taglio in  
testa

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7810 Art.-Nr.	Code 7818 Art.-Nr.	Code 7811 Art.-Nr.	Code 7812 Art.-Nr.	Code 7813 Art.-Nr.
3	3	38	3					0 7813031031 00
6	3	36	6					0 7813031061 00
8	6	53	8					0 7813061081 00
10	6	55	10					
12	6	57	12					0 7813061121 00

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7814 Art.-Nr.	Code 7816 Art.-Nr.	Code 7817 Art.-Nr.	Code 7819 Art.-Nr.
3	3	38	3		07816031031 00		
6	3	36	6		07816031061 00		
8	6	53	8		07816061081 00		
10	6	55	10		07816061101 00		
12	6	57	12		07816061121 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

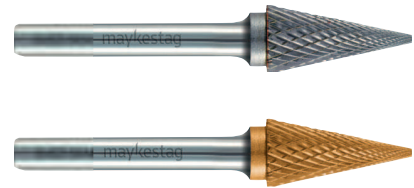
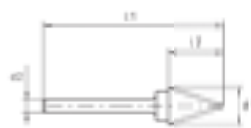
Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Spitzkegel

**E** Tungsten carbide rotary burrs, conical pointed nose

**I** Frese rotative in metallo duro, conica

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7830 Art.-Nr.	Code 7838 Art.-Nr.	Code 7831 Art.-Nr.	Code 7832 Art.-Nr.	Code 7833 Art.-Nr.
3	3	<b>38</b>	12					0 7833031031 00
3	3	<b>50</b>	12					0 7833032031 00
4	3	40	10					0 7833031041 00
6	3	43	13					0 7833031061 00
6	6	50	16					0 7833061061 00
8	6	63	18					0 7833061081 00
10	6	66	20				0 7832061101 00	0 7833061101 00
12	6	70	25					0 7833061121 00
16	6	70	25					0 7833061161 00

				4	6	6 <b>NEW</b>	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7834 Art.-Nr.	Code 7836 Art.-Nr.	Code 7837 Art.-Nr.	Code 7839 Art.-Nr.
3	3	<b>38</b>	12	0 7834031031 00	0 7836031031 00	0 7837031031 00	
3	3	<b>50</b>	12				
4	3	40	10				
6	3	43	13	0 7834031061 00	0 7836031061 00		
6	6	50	16	0 7834061061 00	0 7836961061 00	0 7837061061 00	
8	6	63	18	0 7834061081 00	0 7836061081 00	0 7837061081 00	
10	6	66	20	0 7834061101 00	0 7836961101 00	0 7837061101 00	
12	6	70	25	0 7834061121 00	0 7836961121 00	0 7837061121 00	
16	6	70	25	0 7834061161 00	0 7836061161 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

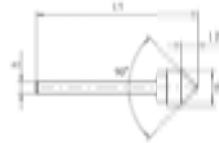
Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D** Hartmetall-Frässtifte, Konus 90°

**E** Tungsten carbide rotary burrs, cone 90°

**I** Frese rotative in metallo duro, conica 90°

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7840 Art.-Nr.	Code 7848 Art.-Nr.	Code 7841 Art.-Nr.	Code 7842 Art.-Nr.	Code 7843 Art.-Nr.
3	3	38	2					0 7843031031 00
4	6	50	3					0 7843061041 00
5	3	34	4					0 7843031051 00
6	6	50	5					0 7843061061 00
8	6	53	8					0 7843061081 00
10	6	55	10					0 7843061101 00
12	6	57	12					0 7843061121 00
16	6	61	16					0 7843061161 00
20	6	65	20					0 7843061201 00

				4	6	6 <b>NEW</b>	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7844 Art.-Nr.	Code 7846 Art.-Nr.	Code 7847 Art.-Nr.	Code 7849 Art.-Nr.
3	3	38	2				
4	6	50	3				
5	3	34	4				
6	6	50	5				
8	6	53	8				
10	6	55	10		0 7846061101 00		
12	6	57	12		0 7846061121 00		
16	6	61	16				
20	6	65	20				

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Konus 60°

**E** Tungsten carbide rotary burrs, cone 60°

**I** Frese rotative in metallo duro, conica 60°

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



INOX



DIN MX



Aluminium  
Aluminium  
Aluminio



DIN MY



DIN MX



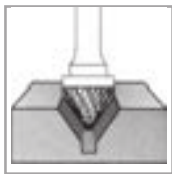
DIN C



Diamant  
Diamond  
Diamante

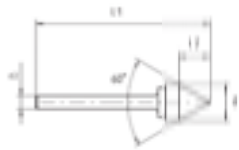


SPECIAL STEEL



DIN  
KSJ

ISO  
J



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7850 Art.-Nr.	Code 7858 Art.-Nr.	Code 7851 Art.-Nr.	Code 7852 Art.-Nr.	Code 7853 Art.-Nr.
3	3	38	3					0 785303103100
4	6	50	4					0 785306104100
6	6	50	6					0 785306106100
10	6	55	10					0 785306110100
12	6	57	12					0 785306112100
16	6	61	16					0 785306116100

				4	6	6 <b>NEW</b>	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7854 Art.-Nr.	Code 7856 Art.-Nr.	Code 7857 Art.-Nr.	Code 7859 Art.-Nr.
3	3	38	3				
4	6	50	4				
6	6	50	6		0 785606106100		
10	6	55	10				
12	6	57	12		0 785606112100		
16	6	61	16		0 785606116100		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

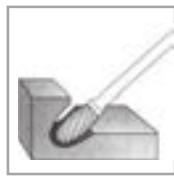
Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D** Hartmetall-Frässtifte, Tropfen

**E** Tungsten carbide rotary burrs, oval

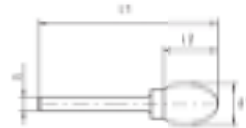
**I** Frese rotative in metallo duro, ovale

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



**DIN**  
**TRE**

**ISO**  
**E**



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7860 Art.-Nr.	Code 7868 Art.-Nr.	Code 7861 Art.-Nr.	Code 7862 Art.-Nr.	Code 7863 Art.-Nr.
3	3	38	6					0 7863031031 00
4	3	36	6					0 7863031041 00
4	6	50	6					
6	3	40	10					0 7863031061 00
6	6	50	10					0 7863061061 00
8	6	58	13					0 7863061081 00
10	6	61	16					0 7863061101 00
12	6	65	20					0 7863061121 00
16	6	70	25					0 7863061161 00

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7864 Art.-Nr.	Code 7866 Art.-Nr.	Code 7867 Art.-Nr.	Code 7869 Art.-Nr.
3	3	38	6	0 7864031031 00	0 7866031031 00		
4	3	36	6		0 7866031041 00		
4	6	50	6		0 7866061041 00		
6	3	40	10	0 7864031061 00	0 7866031061 00		
6	6	50	10	0 7864061061 00	0 7866061061 00		
8	6	58	13	0 7864061081 00	0 7866061081 00		
10	6	61	16	0 7864061101 00	0 7866061101 00		
12	6	65	20	0 7864061121 00	0 7866061121 00		
16	6	70	25	0 7864061161 00	0 7866061161 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Kugel

**E** Tungsten carbide rotary burrs, spherical

**I** Frese rotative in metallo duro, sferica

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



INOX



DIN MX



Aluminium  
Aluminium  
Aluminio



DIN MY



DIN MX



DIN C



Diamant  
Diamond  
Diamante



SPECIAL STEEL



d1 mm	d2 mm	l1 mm	l2 mm	<b>Code 7870</b> Art.-Nr.	<b>Code 7878</b> Art.-Nr.	<b>Code 7871</b> Art.-Nr.	<b>Code 7872</b> Art.-Nr.	<b>Code 7873</b> Art.-Nr.
2,5	3	38	2					0 7873031251 00
3	3	38	2,5					0 7873031031 00
4	3	33	3					0 7873031041 00
4	6	50	3					0 7873061041 00
5	3	34	4					0 7873031051 00
6	3	35	5					0 7873031061 00
6	6	50	5					0 7873061061 00
8	6	52	7					0 7873061081 00
10	6	54	9		0 7878061101 00			0 7873061101 00
10	6	150	9					
12	6	55	10		0 7878061121 00			0 7873061121 00
12	6	150	10					
16	6	59	14					0 7873061161 00
16	8	59	14					0 7873081161 00
20	6	63	18					0 7873061201 00

d1 mm	d2 mm	l1 mm	l2 mm	<b>Code 7874</b> Art.-Nr.	<b>Code 7876</b> Art.-Nr.	<b>Code 7877</b> Art.-Nr.	<b>Code 7879</b> Art.-Nr.
2,5	3	38	2			0 7877031251 00	
3	3	38	2,5	0 7874031031 00	0 7876031031 00	0 7877031031 00	
4	3	33	3	0 7874031041 00			
4	6	50	3	0 7874061041 00	0 7876061041 00		
5	3	34	4				
6	3	35	5	0 7874031061 00	0 7876031061 00		
6	6	50	5	0 7874061061 00	0 7876061061 00	0 7877061061 00	
8	6	52	7	0 7874061081 00	0 7876061081 00	0 7877061081 00	
10	6	54	9	0 7874061101 00	0 7876961101 00	0 7877061101 00	
10	6	150	9		0 7876062101 00		
12	6	55	10	0 7874061121 00	0 7876961121 00		
12	6	150	10		0 7876062121 00		
16	6	59	14	0 7874061161 00	0 7876061161 00		
16	8	59	14				
20	6	63	18	0 7874061201 00	0 7876061201 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

**D** Hartmetall-Frässtifte, Rundbogen

**E** Tungsten carbide rotary burrs, arc round nose

**I** Frese rotative in metallo duro, a lancia raggata

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7880 Art.-Nr.	Code 7888 Art.-Nr.	Code 7881 Art.-Nr.	Code 7882 Art.-Nr.	Code 7883 Art.-Nr.
3	3	38	12					0 7883031031 00
4	3	40	10					0 7883031041 00
6	3	43	13					0 7883031061 00
<b>New</b>	6	6	50	0 7880061061 00			0 7882061061 00	0 7883061061 00
	6	6	150					
<b>New</b>	8	6	63	0 7880061081 00			0 7882061081 00	0 7883061081 00
<b>New</b>	10	6	65	0 7880061101 00	0 7888061101 00	0 7881061101 00	0 7882061101 00	0 7883061101 00
	10	6	150					
<b>New</b>	12	6	70	0 7880061121 00	0 7888061121 00		0 7882061121 00	0 7883061121 00
	12	6	150					
	12	8	70					
	16	6	75		0 7888061161 00			0 7883061161 00
	20	6	75					

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7884 Art.-Nr.	Code 7886 Art.-Nr.	Code 7887 Art.-Nr.	Code 7889 Art.-Nr.
3	3	38	12	0 7884031031 00	0 7886031031 00		
4	3	40	10				
6	3	43	13	0 7884031061 00	0 7886031061 00		
<b>New</b>	6	6	50	0 7884061061 00	0 7886961061 00		0 7889061061 00
	6	6	150	0 7884062061 00			
<b>New</b>	8	6	63	0 7884061081 00	0 7886061081 00	0 7887061081 00	0 7889061081 00
<b>New</b>	10	6	65	0 7884061101 00	0 7886961101 00	0 7887061101 00	0 7889061101 00
	10	6	150	0 7884062101 00			
<b>New</b>	12	6	70	0 7884061121 00	0 7886961121 00	0 7887061121 00	0 7889061121 00
	12	6	150	0 7884062121 00			
	12	8	70		0 7886081121 00		
	16	6	75	0 7884061161 00	0 7886061161 00		
	20	6	75		0 7886061201 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

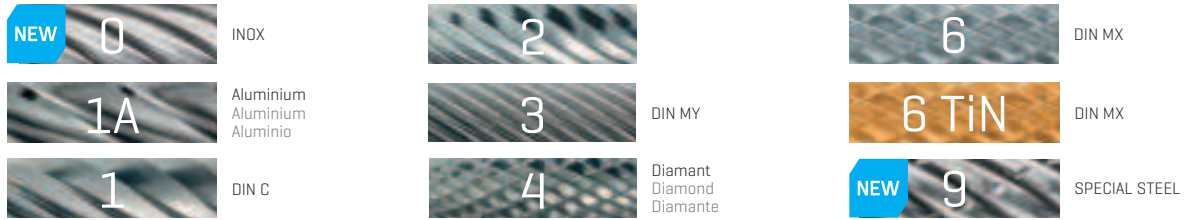
Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

**D** Hartmetall-Frässtifte, Rundkegel

**E** Tungsten carbide rotary burrs, conical round nose

**I** Frese rotative in metallo duro, conica raggiata

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



				0 <b>NEW</b>	1A	1	2	3
d1 mm	d2 mm	l1 mm	l2 mm	Code 7890 Art.-Nr.	Code 7898 Art.-Nr.	Code 7891 Art.-Nr.	Code 7892 Art.-Nr.	Code 7893 Art.-Nr.
3	3	38	14					0 7893031031.00
4	3	44	14					0 7893031041.00
4	6	50	16					
6	3	48	18					0 7893031061.00
6	6	50	20					0 7893061061.00
<b>New</b>	8	6	65	0 7890061081.00				0 7893061081.00
<b>New</b>	10	6	65	0 7890061101.00	0 7898061101.00			0 7893061101.00
<b>New</b>	12	6	70	0 7890061121.00	0 7898061121.00			0 7893061121.00
	12	6	75					
	16	6	75		0 7898061161.00			0 7893061161.00

				4	6	6	9 <b>NEW</b>
d1 mm	d2 mm	l1 mm	l2 mm	Code 7894 Art.-Nr.	Code 7896 Art.-Nr.	Code 7897 Art.-Nr.	Code 7899 Art.-Nr.
3	3	38	14	0 7894031031.00	0 7896031031.00		
4	3	44	14		0 7896031041.00		
4	6	50	16		0 7896061041.00		
6	3	48	18	0 7894031061.00			
6	6	50	20	0 7894061061.00	0 7896061061.00		
8	6	65	20	0 7894061081.00	0 7896061081.00		
<b>New</b>	10	6	65	0 7894061101.00	0 7896061101.00		0 7899061101.00
<b>New</b>	12	6	70	0 7894061121.00	0 7896061121.00		0 7899061121.00
	12	6	75		0 7896063121.00		
	16	6	75	0 7894061161.00	0 7896061161.00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.



Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro

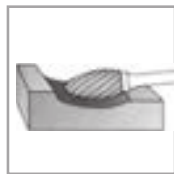


**D** Hartmetall-Frässtifte, Flamme

**E** Tungsten carbide rotary burrs, flame

**I** Frese rotative in metallo duro, fiamma

Unterschiedliche Zahnungen / Different cuts / Dentature diverse



**DIN**  
**B**

**ISO**  
**H**



d1 mm	d2 mm	l1 mm	l2 mm	0 <b>NEW</b>	1A	1	2	3
				Code 7900 Art.-Nr.	Code 7908 Art.-Nr.	Code 7901 Art.-Nr.	Code 7902 Art.-Nr.	Code 7903 Art.-Nr.
6	6	57	20					
8	6	65	20					0 7903061081 00
10	6	70	25					0 7903061101 00
12	6	75	30					0 7903061121 00
16	6	77	32					

d1 mm	d2 mm	l1 mm	l2 mm	4	6	6	9 <b>NEW</b>
				Code 7904 Art.-Nr.	Code 7906 Art.-Nr.	Code 7907 Art.-Nr.	Code 7909 Art.-Nr.
6	6	57	20		0 7906061061 00		
8	6	65	20	0 7904061081 00	0 7906061081 00		
10	6	70	25	0 7904061101 00	0 7906061101 00		
12	6	75	30	0 7904061121 00	0 7906061121 00		
16	6	77	32	0 7904061161 00	0 7906061161 00		

Nähere Informationen zu den einzelnen Zahnungen siehe Seite 199.

Detailed information about the different cuts see on page 199.

Informazioni più dettagliate circa le diverse dentature vedi pagina 199.

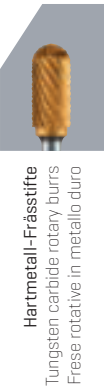
**D** Beschreibung der Verzahnungen

**E** Description of cuts

**I** Descrizione delle dentature

<b>NEW</b>	<p><b>Zahnung 0 (INOX):</b> Herausragende Fräsleistung bei Edelstahl sowie ferritischen, austenitischen und martensitischen Materialien.</p> <p><b>Cut 0 (INOX):</b> Outstanding milling performance in stainless steel as well as ferritic, austenitic and martensitic materials.</p> <p><b>Taglio 0 (INOX):</b> Eccellenti rendimento di fresatura con acciaio inossidabile e materiali ferritici, austenitici e martensitici.</p>	<p><b>Zahnung 1A (Aluminium)</b> Für Aluminium und Aluminiumlegierungen sowie Kunststoffe.</p> <p><b>Cut 1A (aluminium):</b> Suitable for aluminium and aluminium alloys as well as plastics.</p> <p><b>Dentatura 1A (alluminio):</b> Per sgrossatura alluminio, leghe di alluminio, plastica.</p>	<p><b>Zahnung 1 (DIN C)</b> Zum Entgraten nicht gehärteter Stähle, Leichtmetalle, Legierungen und Hartgummi.</p> <p><b>Cut 1 (DIN C):</b> Suitable for deburring non-hardened steels, soft steels, alloys and hard plastics.</p> <p><b>Dentatura 1 (DIN C):</b> Sgrossatura di acciai non temprati, metalli leggeri, leghe, gomma dura.</p>	<p><b>Zahnung 2</b> Für Stähle hoher Festigkeit, Inox, Stahlguss, Schweißnähte und Messing.</p> <p><b>Cut 2:</b> Suitable for steels with high tensile strength, inox, cast steels, welding seams and brass</p> <p><b>Dentatura 2:</b> Adatte per acciai ad alta resistenza, acciai inox, acciaio fuso, cordoni di saldatura, ottone.</p>
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<p><b>Zahnung 3 (DIN MY)</b> Für allgemeine Arbeiten wie Entgraten, Fasen, Kantenbrechen mit sauberer Oberfläche. Für Stähle mit hoher Festigkeit, Schweißnähte.</p> <p><b>Cut 3 (DIN MY):</b> For general purposes such as deburring, chamfering and smoothing edges with clean surface. Suitable for steels with high tensile strength and welding seams.</p> <p><b>Dentatura 3 (DIN MY):</b> Per lavorazioni universali di sgrossatura, smussatura, spianatura degli spigoli, con ottima finitura della superficie. Adatte per acciai ad alta resistenza, cordoni di saldature.</p>	<p><b>Zahnung 4 (Diamant):</b> Hohe Oberflächengüte für gehärtete Stähle, Schweißnähte hoher Festigkeit.</p> <p><b>Cut 4 (diamond):</b> Suitable for hardened steels with excellent surface quality and welding seams with high tensile strength.</p> <p><b>Dentatura 4 (diamante):</b> Ottima finitura delle superficie su acciai temprati, e saldature alta resistenza.</p>	<p><b>Zahnung 6 (DIN MX):</b> Mit dieser Universalverzahnung werden auch bei härtesten Werkstoffen und Schweißnähten glatte Oberflächen erzielt, ideal für den Werkzeug- und Formenbau.</p> <p><b>Cut 6 (DIN MX):</b> With this universal cutting profile even hardest materials and welding seams can be machined with best finishing quality. Ideal for the tool and mould industry</p> <p><b>Dentatura 6 (DIN MX):</b> Questa dentatura universale permette di ottenere delle superfici ottimali anche su acciai e saldature ad alta resistenza; ideale per acciai da utensili e acciai da stampi.</p>	<b>NEW</b>	<p><b>Zahnung 9 (SPECIAL STEEL):</b> Speziell entwickelte Geometrie für Stahl- und Gusseisenanwendungen. Hervorragende Zerspanungsleistung und hoher Materialabtrag.</p> <p><b>Cut 9 (SPECIAL STEEL):</b> Special designed geometry for steel and cast iron applications. Excellent cutting performance and high chip removal.</p> <p><b>Taglio 9 (ACCIAIO SPECIALE):</b> Speciale geometria adatta in particolare per le applicazioni con acciaio e ghisa. Eccellenti prestazioni di taglio ed elevata asportazione del truciolo</p>
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Hartmetall-Frässtifte  
Tungsten carbide rotary burrs  
Frese rotative in metallo duro