

TRDOKOVINSKI REZKARJI

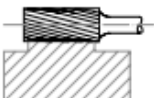
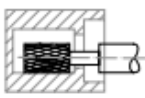
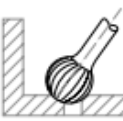
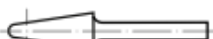
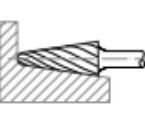
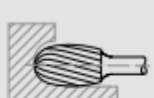
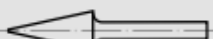
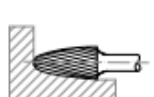
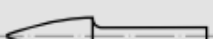
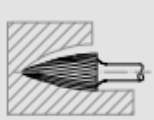
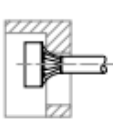


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1. POJASNILA IN TEHNIČNI PODATKI

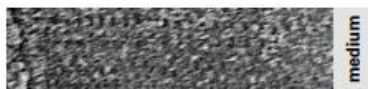
Iz našega programa vam lahko ponudimo rezkarje z vpenjalnim trnom 3mm in 6mm za ročne preme električne in pnevmatske brusilnike. Rezkarji so na voljo v vseh standardnih oblikah v vseh standardnih premerih in z različnimi glavami za obelavo vseh možnih materialov. V programu imamo rezkarje renomiranega nemškega proizvajalca z dobro in konstantno kvaliteto. Vsi rezkarji so trdokovinski, kar pomeni, da so glave iz karbidne trdine in so pilotane na HSS trn. Po naročilu lahko dobavimo tudi HSS rezkarje.

OBLIKA	PRIMER UPORABE	OBLIKA	PRIMER UPORABE
	HFA Cylindrical 		HFI Internal 
	HFC Cylindrical round nose 		HFJ Counter sink 
	HFD Spherical 		HFL Conical round nose 
	HFE Oval 		HFM Conical pointed nose 
	HFF Arch round nose 		HFN Inverted cone 
	HFG Arch pointed nose 		Burrs for radius trimming (external) 
	HFH Flame 		Burrs for radius trimming (internal) 

MATERIAL	TRDNOST (N/MM2)	OBDELAVA	OZOBLJENJE	PRIPOROČENA REZALNA HITROST (M/MIN)
● JEKLO	up to 800	coarse	Z3, Z7 Steel, ZX	500–700
		medium	Z5, Z42 Inox/Steel	300–500
		fine	ZF3	500–700
	800 to 1,200	coarse	Z7 Steel, ZX	400–600
		medium	Z5	300–400
		fine	ZF3	400–600
	from 1,200	coarse	Z7 Steel, Z4	300–500
		medium	Z5	300–400
		fine	ZF3	400–600
● NERJAVEČE JEKLO	up to 800	coarse	Z2, Z6	400–500
		medium	Z3, Z7 Steel, Z4, Z5, Z42 Inox/Steel	300–500
		fine	ZF3	400–600
● LITINA	150 to 300	coarse	Cast, Z6	400–600
		medium	Z7 Steel	300–500
	300 to 450	coarse	Cast, Z7 Steel	300–500
		medium	Z5	300–500
		fine	ZF3	400–700
● ALU	up to 450	coarse	Z9 Alu	600–1,000
		medium	Z1	500–900
● MEDENINA IN BRON	up to 450	coarse	Z9 Alu, Z1	400–800
	from 450	medium	Z2	400–600
		fine	ZF3	500–600
● TITAN	up to 900	coarse	Z6	300–500
		medium	Z7 Steel	300–400
		fine	ZF3	500–700
	900 to 1,500	coarse	Z4	300–400
		medium	Z5	400–500
		fine	ZF3	400–600
● PLASTIKA IN LES	20 to 400	coarse	Composite coarse/fine, Z1, Z9 Alu	600–1,000
		fine	Composite coarse/fine, Wood	500–900
	400 to 1,000	coarse	Composite coarse/fine, Z1	500–800
		fine	Composite coarse/fine, Z2, Wood	400–800

OBDELAVA: COARSE= GROBA; MEDIUM= SREDNJA; FINE= FINA

OBDELAVA:

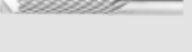


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PRIPOROČENA REZALNA HITROST M/MIN									
PREMIER ORODJA (MM)		300	400	500	600	700	800	900	1,000
	2	48,000	64,000	80,000	95,000	111,000	127,000	143,000	159,000
	3	32,000	42,000	53,000	64,000	74,000	85,000	95,000	106,000
	4	24,000	32,000	40,000	48,000	56,000	64,000	72,000	80,000
	6	16,000	21,000	27,000	32,000	37,000	42,000	48,000	53,000
	8	12,000	16,000	20,000	24,000	28,000	32,000	36,000	40,000
	10	10,000	13,000	16,000	19,000	22,000	25,000	29,000	32,000
	12	8,000	11,000	13,000	16,000	19,000	21,000	24,000	27,000
	16	6,000	8,000	10,000	12,000	14,000	16,000	18,000	20,000
	20	5,000	6,000	8,000	10,000	11,000	13,000	14,000	16,000
OBRATI (RPM)									

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Različna ozobljenja

OZOBLJENJE / TIP	LASTNOSTI	OZOBLJENJE / TIP	LASTNOSTI
	Z9 Alu Zelo grob, enostranski nasek za mehke materiale		Z42 Inox / Steel robusten križni nasek za inox in jeklo
	Z1 Grob enostranski nasek za mehke materiale		Z4 fin križni nasek za trde materiale
	Z2 Brass robusten enostranski nasek za velik odzvem		Z6 robusten in grob križni nasek
	Z3 srednji enostranski nasek		Z7 Steel srednji križni nasek
	Z5 Hard zelo fin enostranski nasek za viskokvalitetne površine		Cast Robusten in grob križni nasek za litine
	ZF1 to ZF3 fin križni nasek od grobega do finega za popolno površino		Composite Coarse and Fine križni nasek za strojno obdelavo plastike ali kompozitov
	Wood rašpa za delanje vzorcev v lesu		ZX univerzalni križni nasek za skoraj vse materiale

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Posebne dodatne prevleke

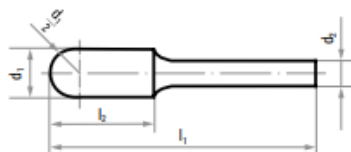
	Posebna značilnost	Lastnosti	Prevleka	Trenje na jeklu (mikro m)
AllCoat* 	splošna uporaba	Splošna uporaba pri obdelavi rjavnih kovin, kot je jeklo in litina ali plastika Visoka žilavost Primerno za uporabo v živilski industriji Biokompatibilno	TiN (titanium nitride)	0.65–0.70
HeavyDuty 	Primerno za ekstremne termične in mehanske obremenitve	Visokozmogljiva prevleka z visoko trdoto in majhnim prenosom temperature, uporabna pri obdelavi visokoabrazivnih in trdih materialov	TiAlN (titanium aluminium nitride) see page 17	0.30–0.35
ThermoShock* 	Visoke in trenutne termične obremenitve	Prevleka je odporna na obrabo, posebej primerno za uporabo na jeklih, ki jih je težje obdelovati (jekla z nizko ali visoko vsebnostjo dodatnih elementov) Za fino razigljevanje	TiCN (titanium carbon nitride)	0.10–0.20
LowFriction* 	lotusov efekt	Posebna prevleka z lotus efektom, za dolge opilke posebej na ALU zlitinah Zelo zmanjša trenje in obrabo orodja Zmanjša obremenitev	LTE (hard, carbon-based coating)	0.10–0.20
LightFlow 	Enostavno odstranjevanje odrezkov	Kombinacija visoke odpornosti na obrabo in majhnega trenja in malo oprijemanja pri brušenju grafita, aluminija, bakra, karbona, lesa in titanovih zlitin	TT®-ta-C (carbon layer made from solid carbon) see page 31	0.05–0.10 (dry)

* po naročilu

2. REZKARJI

1.1 Z7 z TiAlN prevleko

- Visokozmogljiva prevleka
- za obdelave zelo trdih in abrazivnih materialov
 - Ekstremne aplikacije
 - Za visoke temperaturne in mehanske obremenitve

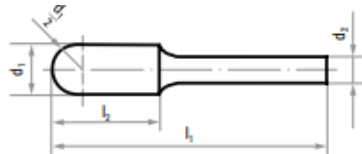


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Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010616608TIALN	HFA 0616.06		Z7 Steel	ZYA 0616	6	16	6	50	1
A10010820608TIALN	HFA 0820.06		Z7 Steel	ZYA 0820	8	20	6	60	1
A10011020608TIALN	HFA 1020.06		Z7 Steel	ZYA 1020	10	20	6	60	1
A10010820608TIAL1	HFAS 0820.06		Z7 Steel	ZYA-S 0820	8	20	6	60	1
A10011020608TIAL1	HFAS 1020.06		Z7 Steel	ZYA-S 1020	10	20	6	60	1
A10011225608TIAL1	HFAS 1225.06		Z7 Steel	ZYA-S 1225	12	25	6	65	1
A10020616608TIALN	HFC 0616.06		Z7 Steel	WRC 0616	6	16	6	50	1
A10020820608TIALN	HFC 0820.06		Z7 Steel	WRC 0820	8	20	6	60	1
A10021020608TIALN	HFC 1020.06		Z7 Steel	WRC 1020	10	20	6	60	1
A10021225608TIALN	HFC 1225.06		Z7 Steel	WRC 1225	12	25	6	65	1
A10030606608TIALN	HFD 0605.06		Z7 Steel	KUD 0605	6	5	6	50	1
A10030808608TIALN	HFD 0807.06		Z7 Steel	KUD 0807	8	7	6	47	1
A10031010608TIALN	HFD 1009.06		Z7 Steel	KUD 1009	10	9	6	49	1
A10101225608TIALN	HFF 1225.06		Z7 Steel	RBF 1225	12	25	6	65	1
A10040618608TIALN	HFG 0618.06		Z7 Steel	SPG 0618	6	18	6	50	1
A10041020608TIALN	HFG 1020.06		Z7 Steel	SPG 1020	10	20	6	60	1
A10041225608TIALN	HFG 1225.06		Z7 Steel	SPG 1225	12	25	6	65	1
A10041630608TIALN	HFG 1630.06		Z7 Steel	SPG 1630	16	30	6	70	1
A10090820608TIALN	HFH 0820.06		Z7 Steel	–	8	20	6	60	1
A10091230608TIALN	HFH 1230.06		Z7 Steel	–	12	30	6	70	1
A10071020608TIALN	HFL 1020.06		Z7 Steel	KEL 1020	10	20	6	60	1
A10051020608TIALN	HFM 1020.06		Z7 Steel	SKM 1020	10	20	6	60	1

Recommended for: ● Inox/Steel ● Steel ● Cast material ● Titanium

2.1 Z7 Jeklo, litina, pogojno titan



- Thanks to the central cross cut, this burr is perfect for use on steel.
- Our choice of shapes lets you find the right tool for every application.

★★★

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010313308	HFA 0313.03		Z7 Steel	ZYA 0313	3	13	3	40	1
A10010413608	HFA 0413.06		Z7 Steel	ZYA 0413	4	13	6	50	1
A10010613308	HFA 0613.03		Z7 Steel	ZYA 0613	6	13	3	43	1
A10010616608	HFA 0616.06		Z7 Steel	ZYA 0616	6	16	6	50	1
A10010820608	HFA 0820.06		Z7 Steel	ZYA 0820	8	20	6	60	1
A10011020608	HFA 1020.06		Z7 Steel	ZYA 1020	10	20	6	60	1
A10011025608	HFA 1025.06		Z7 Steel	ZYA 1025	10	25	6	65	1
A10011225608	HFA 1225.06		Z7 Steel	ZYA 1225	12	25	6	65	1
A10011625608	HFA 1625.06		Z7 Steel	ZYA 1625	16	25	6	65	1
A100103133080001	HFAS 0313.03		Z7 Steel	ZYA-S 0313	3	13	3	40	1
A100104136080001	HFAS 0413.06		Z7 Steel	ZYA-S 0413	4	13	6	50	1
A100106133080001	HFAS 0613.03		Z7 Steel	ZYA-S 0613	6	13	3	43	1
A100106166080001	HFAS 0616.06		Z7 Steel	ZYA-S 0616	6	16	6	50	1
A100108206080001	HFAS 0820.06		Z7 Steel	ZYA-S 0820	8	20	6	60	1
A100110136080001	HFAS 1013.06		Z7 Steel	ZYA-S 1013	10	13	6	53	1
A100110206080001	HFAS 1020.06		Z7 Steel	ZYA-S 1020	10	20	6	60	1
A100110256080001	HFAS 1025.06		Z7 Steel	ZYA-S 1025	10	25	6	65	1
A100112256080001	HFAS 1225.06		Z7 Steel	ZYA-S 1225	12	25	6	65	1
A100112258080001	HFAS 1225.08		Z7 Steel	ZYA-S 1225	12	25	8	65	1
A100116256080001	HFAS 1625.06		Z7 Steel	ZYA-S 1625	16	25	6	65	1
A10020210308	HFC 0210.03		Z7 Steel	WRC 0210	2	10	3	40	1
A10020313308	HFC 0313.03		Z7 Steel	WRC 0313	3	13	3	40	1
A10020413608	HFC 0413.06		Z7 Steel	WRC 0413	4	13	6	50	1
A10020613308	HFC 0613.03		Z7 Steel	WRC 0613	6	13	3	43	1
A10020616608	HFC 0616.06		Z7 Steel	WRC 0616	6	16	6	50	1
A10020820608	HFC 0820.06		Z7 Steel	WRC 0820	8	20	6	60	1
A10021020608	HFC 1020.06		Z7 Steel	WRC 1020	10	20	6	60	1
A10021025608	HFC 1025.06		Z7 Steel	WRC 1025	10	25	6	65	1
A10021225608	HFC 1225.06		Z7 Steel	WRC 1225	12	25	6	65	1
A10021225808	HFC 1225.08		Z7 Steel	WRC 1225	12	25	8	65	1
A10021625608	HFC 1625.06		Z7 Steel	WRC 1625	16	25	6	65	1

A10030303308	HFD 0302.03		Z7 Steel	KUD 0302	3	2	3	40	1
A100304043080001	HFD 0403.03		Z7 Steel	KUD 0403	4	3	3	34	1
A10030404608	HFD 0403.06		Z7 Steel	KUD 0403	4	3	6	50	1
A10030606308	HFD 0605.03		Z7 Steel	KUD 0605	6	5	3	35	1
A10030606608	HFD 0605.06		Z7 Steel	KUD 0605	6	5	6	50	1
A10030808608	HFD 0807.06		Z7 Steel	KUD 0807	8	7	6	47	1
A10031010608	HFD 1009.06		Z7 Steel	KUD 1009	10	9	6	49	1
A10031212608	HFD 1210.06		Z7 Steel	KUD 1210	12	10	6	51	1
A10031210808	HFD 1210.08		Z7 Steel	KUD 1210	12	10	8	51	1
A10031616608	HFD 1614.06		Z7 Steel	KUD 1614	16	14	6	54	1
A10032020608	HFD 2018.06		Z7 Steel	KUD 2018	20	18	6	58	1

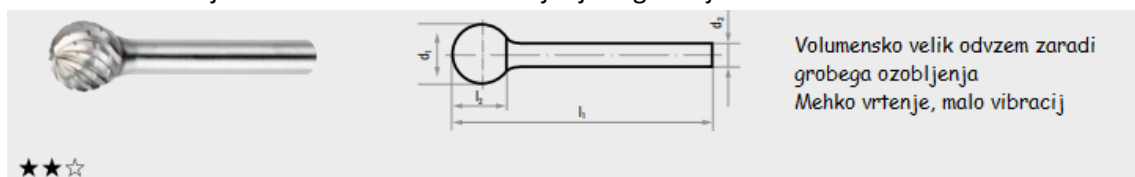
Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₁ mm	d ₂ mm	l ₂ mm	Pakiranje vsebuje
A10060307308	HFE 0307.03		Z7 Steel	TRE 0307	3	7	3	40	1
A10060610308	HFE 0610.03		Z7 Steel	TRE 0610	6	10	3	40	1
A10060610608	HFE 0610.06		Z7 Steel	TRE 0610	6	10	6	50	1
A10060813608	HFE 0813.06		Z7 Steel	TRE 0813	8	13	6	53	1
A10061220608	HFE 1220.06		Z7 Steel	TRE 1220	12	20	6	60	1
A10061625608	HFE 1625.06		Z7 Steel	TRE 1625	16	25	6	65	1
A10100313308	HFF 0313.03		Z7 Steel	RBF 0313	3	13	3	40	1
A10100613308	HFF 0613.03		Z7 Steel	RBF 0613	6	13	3	43	1
A10100618608	HFF 0618.06		Z7 Steel	RBF 0618	6	18	6	50	1
A10100820608	HFF 0820.06		Z7 Steel	–	8	20	6	60	1
A10101020608	HFF 1020.06		Z7 Steel	RBF 1020	10	20	6	60	1
A10101225608	HFF 1225.06		Z7 Steel	RBF 1225	12	25	6	65	1
A10101225808	HFF 1225.08		Z7 Steel	RBF 1225	12	25	8	65	1
A10101230608	HFF 1230.06		Z7 Steel	RBF 1230	12	30	6	70	1
A10101630608	HFF 1630.06		Z7 Steel	RBF 1630	16	30	6	70	1
A10040307308	HFG 0307.03		Z7 Steel	SPG 0307	3	7	3	40	1
A10040313308	HFG 0313.03		Z7 Steel	SPG 0313	3	13	3	40	1
A10040613308	HFG 0613.03		Z7 Steel	SPG 0613	6	13	3	43	1
A10040618608	HFG 0618.06		Z7 Steel	SPG 0618	6	18	6	50	1
A10040820608	HFG 0820.06		Z7 Steel	–	8	20	6	60	1
A10041020608	HFG 1020.06		Z7 Steel	SPG 1020	10	20	6	60	1
A10041220608	HFG 1220.06		Z7 Steel	SPG 1220	12	20	6	60	1
A10041225608	HFG 1225.06		Z7 Steel	SPG 1225	12	25	6	65	1
A10041230608	HFG 1230.06		Z7 Steel	SPG 1230	12	30	6	70	1
A10041630608	HFG 1630.06		Z7 Steel	SPG 1630	16	30	6	70	1
A10090613308	HFH 0613.03		Z7 Steel	–	6	13	3	43	1
A10090820608	HFH 0820.06		Z7 Steel	–	8	20	6	60	1
A10091230608	HFH 1230.06		Z7 Steel	–	12	30	6	70	1
A10091635608	HFH 1635.06		Z7 Steel	–	16	35	6	75	1
A10070820608	HFL 0820.06		Z7 Steel	–	8	20	6	60	1
A10071020608	HFL 1020.06		Z7 Steel	KEL 1020	10	20	6	60	1
A10071225608	HFL 1225.06		Z7 Steel	KEL 1225	12	25	6	65	1
A10071230608	HFL 1230.06		Z7 Steel	KEL 1230	12	30	6	70	1
A10071630608	HFL 1630.06		Z7 Steel	KEL 1630	16	30	6	70	1

A10050307308	HFM 0307.03		Z7 Steel	SKM 0307	3	7	3	40	1	
A10050311308	HFM 0311.03		Z7 Steel	SKM 0311	3	11	3	40	1	
A10050613308	HFM 0613.03		Z7 Steel	SKM 0613	6	13	3	43	1	
A10050618608	HFM 0618.06		Z7 Steel	SKM 0618	6	18	6	50	1	
A10050820608	HFM 0820.06		Z7 Steel	-	8	20	6	60	1	
A10051020608	HFM 1020.06		Z7 Steel	SKM 1020	10	20	6	60	1	
A10051225608	HFM 1225.06		Z7 Steel	SKM 1225	12	25	6	65	1	
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Pack contains
A10120307308	HFN 0307.03		Z7 Steel	WKN 0307	3	7	3	40	10°	1
A101203073080001	HFNS 0307.03		Z7 Steel	WKN-S 0307	3	7	3	40	10°	1

3.1 Z42 Inox/Jeklo



Novo ozobljenje Z42, reže najboljše 2 najbolj pogosto uporabljena materiala v kovinarstvu in sicer jeklo in inox. Posebno ozobljenje zagotavlja maksimalen odvzem



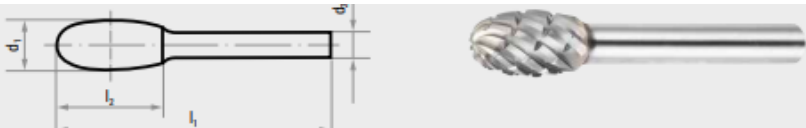
★★★

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₁ mm	d ₂ mm	l ₂ mm	Pakiranje vsebuje
A10010616620	HFA 0616.06		Z42 Inox/Steel	ZYA 0616	6	16	6	50	1
A10010820620	HFA 0820.06		Z42 Inox/Steel	ZYA 0820	8	20	6	60	1
A10011020620	HFA 1020.06		Z42 Inox/Steel	ZYA 1020	10	20	6	60	1
A10011225620	HFA 1225.06		Z42 Inox/Steel	ZYA 1225	12	25	6	65	1
A10020616620	HFC 0616.06		Z42 Inox/Steel	WRC 0616	6	16	6	50	1
A10020820620	HFC 0820.06		Z42 Inox/Steel	WRC 0820	8	20	6	60	1
A10021020620	HFC 1020.06		Z42 Inox/Steel	WRC 1020	10	20	6	60	1
A10021225620	HFC 1225.06		Z42 Inox/Steel	WRC 1225	12	25	6	65	1
A10030605620	HFD 0605.06		Z42 Inox/Steel	KUD 0605	6	5	6	50	1
A10030807620	HFD 0807.06		Z42 Inox/Steel	KUD 0807	8	7	6	47	1
A10031009620	HFD 1009.06		Z42 Inox/Steel	KUD 1009	10	9	6	49	1
A10031210620	HFD 1210.06		Z42 Inox/Steel	KUD 1210	12	10	6	51	1
A10100618620	HFF 0618.06		Z42 Inox/Steel	RBF 0618	6	18	6	50	1
A10100820620	HFF 0820.06		Z42 Inox/Steel	-	8	20	6	60	1
A10101020620	HFF 1020.06		Z42 Inox/Steel	RBF 1020	10	20	6	60	1
A10101225620	HFF 1225.06		Z42 Inox/Steel	RBF 1225	12	25	6	65	1
A10040618620	HFG 0618.06		Z42 Inox/Steel	SPG 0618	6	18	6	50	1
A10040820620	HFG 0820.06		Z42 Inox/Steel	-	8	20	6	60	1
A10041020620	HFG 1020.06		Z42 Inox/Steel	SPG 1020	10	20	6	60	1
A10041225620	HFG 1225.06		Z42 Inox/Steel	SPG 1225	12	25	6	65	1
A10050618620	HFM 0618.06		Z42 Inox/Steel	SKM 0618	6	18	6	50	1
A10050820620	HFM 0820.06		Z42 Inox/Steel	-	8	20	6	60	1
A10051020620	HFM 1020.06		Z42 Inox/Steel	SKM 1020	10	20	6	60	1
A10051225620	HFM 1225.06		Z42 Inox/Steel	SKM 1225	12	25	6	65	1

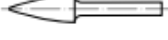
4.1 Cast/Litina

Slika in opis

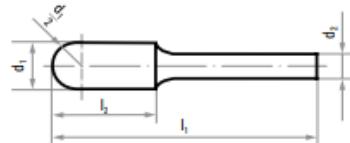
Idealno za čiščenje, razigljevanje
in posnemanje robov
Visok odvzem
Dolga življ. doba



★★☆

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010616621	HFA 0616.06		Cast	ZYA 0616	6	16	6	50	1
A10010820621	HFA 0820.06		Cast	ZYA 0820	8	20	6	60	1
A10011020621	HFA 1020.06		Cast	ZYA 1020	10	20	6	60	1
A10011225621	HFA 1225.06		Cast	ZYA 1225	12	25	6	65	1
A10020616621	HFC 0616.06		Cast	WRC 0616	6	16	6	50	1
A10020820621	HFC 0820.06		Cast	WRC 0820	8	20	6	60	1
A10021020621	HFC 1020.06		Cast	WRC 1020	10	20	6	60	1
A10021225621	HFC 1225.06		Cast	WRC 1225	12	25	6	65	1
A10030605621	HFD 0605.06		Cast	KUD 0605	6	5	6	50	1
A10030807621	HFD 0807.06		Cast	KUD 0807	8	7	6	47	1
A10031009621	HFD 1009.06		Cast	KUD 1009	10	9	6	49	1
A10031210621	HFD 1210.06		Cast	KUD 1210	12	10	6	51	1
A10060610621	HFE 0610.06		Cast	TRE 0610	6	10	6	50	1
A10060813621	HFE 0813.06		Cast	TRE 0813	8	13	6	53	1
A10061016621	HFE 1016.06		Cast	TRE 1016	10	16	6	56	1
A10061220621	HFE 1220.06		Cast	TRE 1220	12	20	6	60	1
A10100618621	HFF 0618.06		Cast	RBF 0618	6	18	6	50	1
A10100820621	HFF 0820.06		Cast	–	8	20	6	60	1
A10101020621	HFF 1020.06		Cast	RBF 1020	10	20	6	60	1
A10101225621	HFF 1225.06		Cast	RBF 1225	12	25	6	65	1
A10040618621	HFG 0618.06		Cast	SPG 0618	6	18	6	50	1
A10040820621	HFG 0820.06		Cast	–	8	20	6	60	1
A10041020621	HFG 1020.06		Cast	SPG 1020	10	20	6	60	1
A10041225621	HFG 1225.06		Cast	SPG 1225	12	25	6	65	1

5.1 Z4, Inox, jeklo, titan, plastika in les



★★☆

fino križno ozobljenje za trde materiale

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010313304	HFA 0313.03		Z4	ZYA 0313	3	13	3	40	1
A10010616604	HFA 0616.06		Z4	ZYA 0616	6	16	6	50	1
A10010820604	HFA 0820.06		Z4	ZYA 0820	8	20	6	60	1
A10011020604	HFA 1020.06		Z4	ZYA 1020	10	20	6	60	1
A10011025604	HFA 1025.06		Z4	ZYA 1025	10	25	6	65	1
A10011225604	HFA 1225.06		Z4	ZYA 1225	12	25	6	65	1
A10011225804	HFA 1225.08		Z4	ZYA 1225	12	25	8	65	1
A100103133040001	HFAS 0313.03		Z4	ZYA-S 0313	3	13	3	40	1
A100106166040001	HFAS 0616.06		Z4	ZYA-S 0616	6	16	6	50	1
A100108206040001	HFAS 0820.06		Z4	ZYA-S 0820	8	20	6	60	1
A100110206040001	HFAS 1020.06		Z4	ZYA-S 1020	10	20	6	60	1
A100110256040001	HFAS 1025.06		Z4	ZYA-S 1025	10	25	6	65	1
A100112256040001	HFAS 1225.06		Z4	ZYA-S 1225	12	25	6	65	1
A100112258040001	HFAS 1225.08		Z4	ZYA-S 1225	12	25	8	65	1
A10020313304	HFC 0313.03		Z4	WRC 0313	3	13	3	40	1
A10020413604	HFC 0413.06		Z4	WRC 0413	4	13	6	50	1
A10020616604	HFC 0616.06		Z4	WRC 0616	6	16	6	50	1
A10020820604	HFC 0820.06		Z4	WRC 0820	8	20	6	60	1
A10021020604	HFC 1020.06		Z4	WRC 1020	10	20	6	60	1
A10021020804	HFC 1020.08		Z4	WRC 1020	10	20	8	60	1
A10021225604	HFC 1225.06		Z4	WRC 1225	12	25	6	65	1
A10030303304	HFD 0302.03		Z4	KUD 0302	3	2	3	40	1
A10030404604	HFD 0403.06		Z4	KUD 0403	4	3	6	50	1
A10030606604	HFD 0605.06		Z4	KUD 0605	6	5	6	50	1
A10030808604	HFD 0807.06		Z4	KUD 0807	8	7	6	47	1
A10031010604	HFD 1009.06		Z4	KUD 1009	10	9	6	49	1
A10031212604	HFD 1210.06		Z4	KUD 1210	12	10	6	51	1
A10031212804	HFD 1210.08		Z4	KUD 1210	12	10	8	51	1
A10031616604	HFD 1614.06		Z4	KUD 1614	16	14	6	54	1

A10060610604	HFE 0610.06		Z4	TRE 0610	6	10	6	50	1
A10060813604	HFE 0813.06		Z4	TRE 0813	8	13	6	53	1
A10061220604	HFE 1220.06		Z4	TRE 1220	12	20	6	60	1
A10100307304	HFF 0307.03		Z4	RBF 0307	3	7	3	40	1
A10100618604	HFF 0618.06		Z4	RBF 0618	6	18	6	50	1
A10101020604	HFF 1020.06		Z4	RBF 1020	10	20	6	60	1
A10101225604	HFF 1225.06		Z4	RBF 1225	12	25	6	65	1
A10040313304	HFG 0313.03		Z4	SPG 0313	3	13	3	40	1
A10040618604	HFG 0618.06		Z4	SPG 0618	6	18	6	50	1
A10041020604	HFG 1020.06		Z4	SPG 1020	10	20	6	60	1
A10041225604	HFG 1225.06		Z4	SPG 1225	12	25	6	65	1
A10041230604	HFG 1230.06		Z4	SPG 1230	12	30	6	70	1
A10041630604	HFG 1630.06		Z4	SPG 1630	16	30	6	70	1

Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pack contains		
A10090613304	HFH 0613.03		Z4	–	6	13	3	43	1		
A10090820604	HFH 0820.06		Z4	–	8	20	6	60	1		
A10091230604	HFH 1230.06		Z4	–	12	30	6	70	1		
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r mm	α	Pack contains
A10071225604	HFL 1225.06		Z4	KEL 1225	12	25	6	65	3.3	14°	1
A10071230604	HFL 1230.06		Z4	KEL 1230	12	30	6	70	2.6	14°	1
A10071230804	HFL 1230.08		Z4	KEL 1230	12	30	8	70	2.6	14°	1
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pack contains		
A10050618604	HFM 0618.06		Z4	SKM 0618	6	18	6	50	1		
A10051020604	HFM 1020.06		Z4	SKM 1020	10	20	6	60	1		
A10051225604	HFM 1225.06		Z4	SKM 1225	12	25	6	65	1		
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Pack contains	
A10120607604	HFN 0607.06		Z4	WKN 0607	6	7	6	50	10°	1	
A10121013604	HFN 1013.06		Z4	WKN 1013	10	13	6	53	10°	1	
A10121213604	HFN 1213.06		Z4	WKN 1213	12	13	6	53	20°	1	
A10122013604	HFN 2013.06		Z4	–	20	13	6	53	30°	1	
A101216136040001	HFNS 1613.06		Z4	WKN-S 1613	16	13	6	53	20°	1	

6.1 Z6 Inox, jeklo, titan, plastika in les

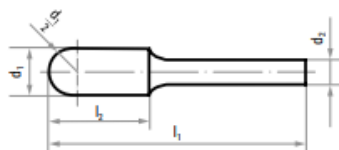
■ grob križni nasek								★★☆	
Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10020820606	HFC 0820.06		Z6	WRC 0820	8	20	6	60	1
A10021020606	HFC 1020.06		Z6	WRC 1020	10	20	6	60	1
A10021225606	HFC 1225.06		Z6	WRC 1225	12	25	6	65	1
A10101020606	HFF 1020.06		Z6	RBF 1020	10	20	6	60	1

8.1 Miniaturni rezkarji, inox, jeklo, titan



★★★				Z 3mm osjo Velika dimanzijska točnost Zelo miren tek Univerzalno ozobljenje Narejeno iz fino-zrnatega karbida				
Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010104312	HFA 01004.03		Universal	1	4	3	40	1
A100101043120001	HFA 01504.03		Universal	1,5	4	3	40	1
A10010204312	HFA 02004.03		Universal	2	4	3	40	1
A10020104312	HFC 01004.03		Universal	1	4	3	40	1
A100201043120001	HFC 01504.03		Universal	1,5	4	3	40	1
A10020204312	HFC 02004.03		Universal	2	4	3	40	1
A10030101312	HFD 01001.03		Universal	1	0,9	3	40	1
A100301013120001	HFD 01501.03		Universal	1,5	1,35	3	40	1
A10030202312	HFD 02002.03		Universal	2	1,8	3	40	1
A10060104312	HFE 01504.03		Universal	1,5	4	3	40	1
A10100104312	HFF 01504.03		Universal	1,5	4	3	40	1
A10040104312	HFG 01504.03		Universal	1,5	4	3	40	1
A10050104312	HFM 01504.03		Universal	1,5	4	3	40	1

9.1 Z5 mini rezkar



Z 3mm osjo

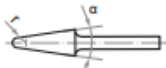
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Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010210305	HFA 0210.03		Z5 Hard	ZYA 0210	2	10	3	40	1
A10010313305	HFA 0313.03		Z5 Hard	ZYA 0313	3	13	3	40	1
A10010607305	HFA 0607.03		Z5 Hard	ZYA 0607	6	7	3	37	1
A10010613305	HFA 0613.03		Z5 Hard	ZYA 0613	6	13	3	43	1
A100102103050001	HFAS 0210.03		Z5 Hard	ZYA-S 0210	2	10	3	40	1
A100103133050001	HFAS 0313.03		Z5 Hard	ZYA-S 0313	3	13	3	40	1
A100106073050001	HFAS 0607.03		Z5 Hard	ZYA-S 0607	6	7	3	37	1
A100106133050001	HFAS 0613.03		Z5 Hard	ZYA-S 0613	6	13	3	43	1
A10020210305	HFC 0210.03		Z5 Hard	WRC 0210	2	10	3	40	1
A10020313305	HFC 0313.03		Z5 Hard	WRC 0313	3	13	3	40	1
A10020613305	HFC 0613.03		Z5 Hard	WRC 0613	6	13	3	43	1
A10030303305	HFD 0302.03		Z5 Hard	KUD 0302	3	2	3	40	1
A100304043050001	HFD 0403.03		Z5 Hard	KUD 0403	4	3	3	34	1
A10030606305	HFD 0605.03		Z5 Hard	KUD 0605	6	5	3	35	1
A10060307305	HFE 0307.03		Z5 Hard	TRE 0307	3	7	3	40	1
A10060610305	HFE 0610.03		Z5 Hard	TRE 0610	6	10	3	40	1
A10100307305	HFF 0307.03		Z5 Hard	RBF 0307	3	7	3	40	1
A10100313305	HFF 0313.03		Z5 Hard	RBF 0313	3	13	3	40	1
A10100613305	HFF 0613.03		Z5 Hard	RBF 0613	6	13	3	43	1
A10040307305	HFG 0307.03		Z5 Hard	SPG 0307	3	7	3	40	1
A10040313305	HFG 0313.03		Z5 Hard	SPG 0313	3	13	3	40	1
A10040613305	HFG 0613.03		Z5 Hard	SPG 0613	6	13	3	43	1
A10090307305	HFH 0307.03		Z5 Hard	-	3	7	3	40	1
A10090613305	HFH 0613.03		Z5 Hard	-	6	13	3	43	1
A10050307305	HFM 0307.03		Z5 Hard	SKM 0307	3	7	3	40	1
A10050311305	HFM 0311.03		Z5 Hard	SKM 0311	3	11	3	40	1
A10050613305	HFM 0613.03		Z5 Hard	SKM 0613	6	13	3	43	1
A10120307305	HFN 0307.03		Z5 Hard	WKN 0307	3	7	3	40	1
A10120607305	HFN 0607.03		Z5 Hard	WKN 0607	6	7	3	37	1
A101203073050001	HFNS 0307.03		Z5 Hard	WKN-S 0307	3	7	3	40	1
A101206073050001	HFNS 0607.03		Z5 Hard	WKN-S 0607	6	7	3	37	1

10.1 Z3 Univerzalen, inox, jeklo, pogojno titan

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010313303	HFA 0313.03		Z3 Universal	ZYA 0313	3	13	3	40	1
A10010413603	HFA 0413.06		Z3 Universal	ZYA 0413	4	13	6	50	1
A10010616603	HFA 0616.06		Z3 Universal	ZYA 0616	6	16	6	50	1
A10010820603	HFA 0820.06		Z3 Universal	ZYA 0820	8	20	6	60	1
A10011013603	HFA 1013.06		Z3 Universal	ZYA 1013	10	13	6	53	1
A10011020603	HFA 1020.06		Z3 Universal	ZYA 1020	10	20	6	60	1
A10011225603	HFA 1225.06		Z3 Universal	ZYA 1225	12	25	6	65	1
A10011625603	HFA 1625.06		Z3 Universal	ZYA 1625	16	25	6	65	1
A100103133030001	HFAS 0313.03		Z3 Universal	ZYA-S 0313	3	13	3	40	1
A100104136030001	HFAS 0413.06		Z3 Universal	ZYA-S 0413	4	13	6	50	1
A100106166030001	HFAS 0616.06		Z3 Universal	ZYA-S 0616	6	16	6	50	1
A100108206030001	HFAS 0820.06		Z3 Universal	ZYA-S 0820	8	20	6	60	1
A100110136030001	HFAS 1013.06		Z3 Universal	ZYA-S 1013	10	13	6	53	1
A100110206030001	HFAS 1020.06		Z3 Universal	ZYA-S 1020	10	20	6	60	1
A100112256030001	HFAS 1225.06		Z3 Universal	ZYA-S 1225	12	25	6	65	1
A100116256030001	HFAS 1625.06		Z3 Universal	ZYA-S 1625	16	25	6	65	1
A10020313303	HFC 0313.03		Z3 Universal	WRC 0313	3	13	3	40	1
A10020413603	HFC 0413.06		Z3 Universal	WRC 0413	4	13	6	50	1
A10020616603	HFC 0616.06		Z3 Universal	WRC 0616	6	16	6	50	1
A10020820603	HFC 0820.06		Z3 Universal	WRC 0820	8	20	6	60	1
A10021020603	HFC 1020.06		Z3 Universal	WRC 1020	10	20	6	60	1
A10021225603	HFC 1225.06		Z3 Universal	WRC 1225	12	25	6	65	1
A10021625603	HFC 1625.06		Z3 Universal	WRC 1625	16	25	6	65	1
A10021625803	HFC 1625.08		Z3 Universal	WRC 1625	16	25	8	65	1
A10030303303	HFD 0302.03		Z3 Universal	KUD 0302	3	2	3	40	1
A10030404603	HFD 0403.06		Z3 Universal	KUD 0403	4	3	6	50	1
A10030606603	HFD 0605.06		Z3 Universal	KUD 0605	6	5	6	50	1
A10030808603	HFD 0807.06		Z3 Universal	KUD 0807	8	7	6	47	1
A10031010603	HFD 1009.06		Z3 Universal	KUD 1009	10	9	6	49	1
A10031212603	HFD 1210.06		Z3 Universal	KUD 1210	12	10	6	51	1
A10031616603	HFD 1614.06		Z3 Universal	KUD 1614	16	14	6	54	1
A10031616803	HFD 1614.08		Z3 Universal	KUD 1614	16	14	8	54	1
A10032020603	HFD 2018.06		Z3 Universal	KUD 2018	20	18	6	58	1
A10032020803	HFD 2018.08		Z3 Universal	KUD 2018	20	18	8	58	1

A10060307303	HFE 0307.03		Z3 Universal	TRE 0307	3	7	3	40	1
A10060610603	HFE 0610.06		Z3 Universal	TRE 0610	6	10	6	50	1
A10060813603	HFE 0813.06		Z3 Universal	TRE 0813	8	13	6	53	1
A10061220603	HFE 1220.06		Z3 Universal	TRE 1220	12	20	6	60	1
A10061625803	HFE 1625.08		Z3 Universal	TRE 1625	16	25	8	65	1

Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pack contains		
A10100307303	HFF 0307.03		Z3 Universal	RBF 0307	3	7	3	40	1		
A10100618603	HFF 0618.06		Z3 Universal	RBF 0618	6	18	6	50	1		
A10100820603	HFF 0820.06		Z3 Universal	–	8	20	6	60	1		
A10101020603	HFF 1020.06		Z3 Universal	RBF 1020	10	20	6	60	1		
A10101225603	HFF 1225.06		Z3 Universal	RBF 1225	12	25	6	65	1		
A10101225803	HFF 1225.08		Z3 Universal	RBF 1225	12	25	8	65	1		
A10101230603	HFF 1230.06		Z3 Universal	RBF 1230	12	30	6	70	1		
A10101630803	HFF 1630.08		Z3 Universal	RBF 1630	16	30	8	70	1		
A10040313303	HFG 0313.03		Z3 Universal	SPG 0313	3	13	3	40	1		
A10040618603	HFG 0618.06		Z3 Universal	SPG 0618	6	18	6	50	1		
A10040820603	HFG 0820.06		Z3 Universal	–	8	20	6	60	1		
A10041020603	HFG 1020.06		Z3 Universal	SPG 1020	10	20	6	60	1		
A10041220603	HFG 1220.06		Z3 Universal	SPG 1220	12	20	6	60	1		
A10041225603	HFG 1225.06		Z3 Universal	SPG 1225	12	25	6	65	1		
A10041225803	HFG 1225.08		Z3 Universal	SPG 1225	12	25	8	65	1		
A10041230603	HFG 1230.06		Z3 Universal	SPG 1230	12	30	6	70	1		
A10041630803	HFG 1630.08		Z3 Universal	SPG 1630	16	30	8	70	1		
A10090613303	HFH 0613.03		Z3 Universal	–	6	13	3	43	1		
A10090820603	HFH 0820.06		Z3 Universal	–	8	20	6	60	1		
A10091230603	HFH 1230.06		Z3 Universal	–	12	30	6	70	1		
A10091230803	HFH 1230.08		Z3 Universal	–	12	30	8	70	1		
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r mm	α	Pack contains
A10070820603	HFL 0820.06		Z3 Universal	–	8	20	6	60	1.5	14°	1
A10071020603	HFL 1020.06		Z3 Universal	KEL 1020	10	20	6	60	2.9	14°	1
A10071225603	HFL 1225.06		Z3 Universal	KEL 1225	12	25	6	65	3.3	14°	1
A10071230603	HFL 1230.06		Z3 Universal	KEL 1230	12	30	6	70	2.6	14°	1
A10071630603	HFL 1630.06		Z3 Universal	KEL 1630	16	30	6	70	4.8	14°	1
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pack contains		
A10050307303	HFM 0307.03		Z3 Universal	SKM 0307	3	7	3	40	1		
A10050618603	HFM 0618.06		Z3 Universal	SKM 0618	6	18	6	50	1		
A10050820603	HFM 0820.06		Z3 Universal	–	8	20	6	60	1		
A10051020603	HFM 1020.06		Z3 Universal	SKM 1020	10	20	6	60	1		
A10051225603	HFM 1225.06		Z3 Universal	SKM 1225	12	25	8	65	1		
A10051225803	HFM 1225.08		Z3 Universal	SKM 1225	12	25	8	65	1		

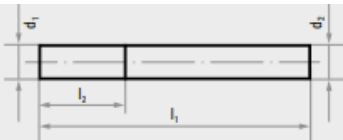
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Pack contains
A10121013603	HFN 1013.06		Z3 Universal	WKN 1013	10	13	6	53	10°	1
A10121213603	HFN 1213.06		Z3 Universal	WKN 1213	12	13	6	53	20°	1
A10121613803	HFN 1613.08		Z3 Universal	WKN 1613	16	13	8	53	20°	1
A101210136030001	HFNS 1013.06		Z3 Universal	WKN-S 1013	10	13	6	53	10°	1
A101212136030001	HFNS 1213.06		Z3 Universal	WKN-S 1213	12	13	6	53	20°	1
A101216138030001	HFNS 1613.08		Z3 Universal	WKN-S 1613	16	13	8	53	20°	1
A101216138030001	HFNS 1613.08		Z3 Universal	WKN-S 1613	16	13	8	53	20°	1

11.1 Rezkanje, vrtanje in rezanje vse v enem orodju

Rezkar za kompozite, les in materiale ojačane z vlakni. Rezkar je primeren tako za strojno kot za ročno uporabo. Kot dodatek k rezkanju mu dolga rezna površina omogoča, da ga uporabljamo tudi za odrezovanje. Konica rezkarja ima obliko ribjega repa zato je zelo primeren tudi za vrtanje ali končno rezkanje. Rezkar zaradi vsestranskosti prihrani, menjavo orodji, zaradi dolge življenjske dobe pa je primeren tudi za robotsko orodje.



Grobi

Idealno za vrtanje, rezkanje in rezanje

Zelo dolga rezna površina

Dolga življenjska doba

Grobo ozobljenje je priporočljivo za uporabo na stacionarnih strojih

★★☆

Številka izdelka	Opis	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10180315323	HFAS 0315.03	Composite Coarse	3	15	3	42	1
A10180625623	HFAS 0625.06	Composite Coarse	6	25	6	64	1
A10180828823	HFAS 0828.08	Composite Coarse	8	28	8	73	1

Fini

Idealno za vrtanje, rezkanje in rezanje
Zelo dolga rezna površina
Dolga življenjska doba
Fino ozobljenje je zelo natančno tudi
ob ročni uporabi orodja

★★☆

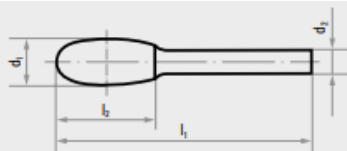
Številka izdelka	Opis	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10180625624	HFAS 0625.06	Composite Fine	6	25	6	64	1
A10180828824	HFAS 0828.08	Composite Fine	8	28	8	73	1
A101810301024	HFAS 1030.10	Composite Fine	10	30	10	77	1

12.1 Lesna rašpa

V primerjavi u HSS orodji, imajo rezkarji za les, narejeni iz finožrnate karbidne trdine, dosti daljšo življenjsko dobo. To pomeni, da lahko les in druge lahke konstrukcijske materiale, rezkate zelo dolgo. Posebno pri modeliranju ali tam kjer je potrebno odvzeti veliko materiala, je ta rezkar zelo dobro orodje. Rezkar tudi ob majhni uporabi sile, normalno opravi svoje delo. Pri svojem delu ne povzroča vibracij. Poleg lesa, lahko z njim obdelujete tudi gumo ali plastiko.



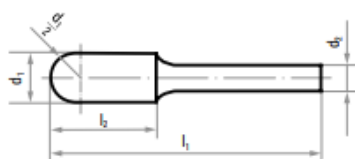
Idealno za posnemanje robov,
modeliranje in glajenje
Dolga življenjska doba zahvaljujoč
karbidni trdini
Obdelava brez vibracij
Aplikacije: izdelovanje modelov,
lesarstvo, izdelava kalupov, obdelava
mehkih materialov



★★★

Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10021225618	HFC 1225.06		Wood	12	25	6	65	1
A10031210618	HFD 1210.06		Wood	12	10	6	50	1
A10061220618	HFE 1220.06		Wood	12	20	6	60	1
A10100618618	HFF 0618.06		Wood	6	18	6	58	1
A10100820618	HFF 0820.06		Wood	8	20	6	60	1

13.1 Rezkar za medenino

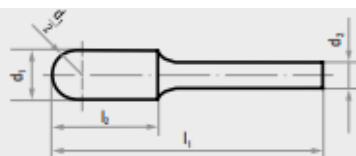


★★★☆☆

Robusten enostranski nasek za velike odvzeme

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10020313302	HFC 0313.03		Z2 Brass	WRC 0313	3	13	3	40	1
A10020616602	HFC 0616.06		Z2 Brass	WRC 0616	6	16	6	50	1
A10021225602	HFC 1225.06		Z2 Brass	WRC 1225	12	25	6	65	1
A10030303302	HFD 0302.03		Z2 Brass	KUD 0302	3	2	3	40	1
A10040618602	HFG 0618.06		Z2 Brass	SPG 0618	6	18	6	50	1
A10041225602	HFG 1225.06		Z2 Brass	SPG 1225	12	25	6	65	1
A10041230602	HFG 1230.06		Z2 Brass	SPG 1230	12	30	6	70	1
A10090613302	HFH 0613.03		Z2 Brass	–	6	13	3	43	1

14.1 Rezkar Z1 za mehke materiale (npr ALU, baker, plastiko, les)



★★★☆☆

Grobo enostransko ozobljenje za mehke materiale, npr aluminij, baker...

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r mm	α	Pakiranje vsebuje
A10020616601	HFC 0616.06		Z1	WRC 0616	6	16	6	50	–	–	1
A10021225601	HFC 1225.06		Z1	WRC 1225	12	25	6	65	–	–	1
A10101225601	HFF 1225.06		Z1	RBF 1225	12	25	6	65	–	–	1
A10040618601	HFG 0618.06		Z1	SPG 0618	6	18	6	50	–	–	1
A10071230601	HFL 1230.06		Z1	KEL 1230	12	30	6	70	2.6	14°	1
A10051225601	HFM 1225.06		Z1	SKM 1225	12	25	6	65	–	–	1

15.1 Rezkar Z9 z »Lightflow« prevleko pretežno za ALU

Nova Lightflow prevleka je inovacija, ki dodatno zmanjša trenje med obdelovancem in orodjem. Prevleka tudi dodatno pomaga, da opilki odletijo in se ne primejo, na ta način se zmanjša tudi obremenitev stroja in se ohranja rezalna hitrost.

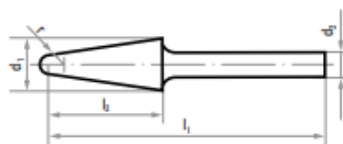


Zelo ostre rezalne površine
rezkarja
Dodaten učinek lightflow prevleke
Velik odzem zaradi grobega
naseka



Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	★★★ Pakiranje vsebuje
A10020616609LF	HFC 0616.06		Z9 Alu	WRC 0616	6	16	6	50	1
A10021225609LF	HFC 1225.06		Z9 Alu	WRC 1225	12	25	6	65	1
A10100618609LF	HFF 0618.06		Z9 Alu	RBF 0618	6	18	6	50	1
A10101225609LF	HFF 1225.06		Z9 Alu	RBF 1225	12	25	6	65	1
A10071230609LF	HFL 1230.06		Z9 Alu	KEL 1230	12	30	6	70	1

16.1 Rezkar Z9 za ALU



Rezkar za ALU in ostale barvne kovine
Idealno za rezanje, posnemanje in razizljevanje
Hitro delo
Brez zapolnjevanja

★★☆

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje
A10010313309	HFA 0313.03		Z9 Alu	ZYA 0313	3	13	3	40	1
A10010616609	HFA 0616.06		Z9 Alu	ZYA 0616	6	16	6	50	1
A10011225609	HFA 1225.06		Z9 Alu	ZYA 1225	12	25	6	65	1
A10011225809	HFA 1225.08		Z9 Alu	ZYA 1225	12	25	8	65	1
A10011625609	HFA 1625.06		Z9 Alu	ZYA 1625	16	25	6	65	1
A10020313309	HFC 0313.03		Z9 Alu	WRC 0313	3	13	3	40	1
A10020616609	HFC 0616.06		Z9 Alu	WRC 0616	6	16	6	50	1
A10020820609	HFC 0820.06		Z9 Alu	WRC 0820	8	20	6	60	1
A10021225609	HFC 1225.06		Z9 Alu	WRC 1225	12	25	6	65	1
A10021225809	HFC 1225.08		Z9 Alu	WRC 1225	12	25	8	65	1
A10021625609	HFC 1625.06		Z9 Alu	WRC 1625	16	25	6	65	1
A10030403309	HFD 0403.03		Z9 Alu	KUD 0403	4	3	3	34	1
A10030605609	HFD 0605.06		Z9 Alu	KUD 0605	6	5	6	50	1
A10031212609	HFD 1210.06		Z9 Alu	KUD 1210	12	10	6	50	1
A10031616609	HFD 1614.06		Z9 Alu	KUD 1614	16	14	6	54	1
A10031616809	HFD 1614.08		Z9 Alu	KUD 1614	16	14	8	54	1
A10061225809	HFE 1225.08		Z9 Alu	TRE 1225	12	25	8	65	1
A10061625809	HFE 1625.08		Z9 Alu	TRE 1625	16	25	8	65	1

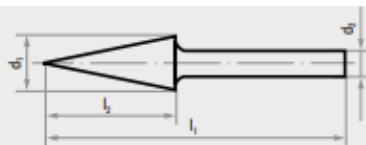
A10100313309	HFF 0313.03		Z9 Alu	RBF 0313	3	13	3	40	1
A10100618609	HFF 0618.06		Z9 Alu	RBF 0618	6	18	6	50	1
A10101225609	HFF 1225.06		Z9 Alu	RBF 1225	12	25	6	65	1
A10101225809	HFF 1225.08		Z9 Alu	RBF 1225	12	25	8	65	1
A10101630609	HFF 1630.06		Z9 Alu	RBF 1630	16	30	6	70	1
A10101630809	HFF 1630.08		Z9 Alu	RBF 1630	16	30	8	70	1
A10040313309	HFG 0313.03		Z9 Alu	SPG 0313	3	13	3	40	1
A10070820609	HFL 0820.06		Z9 Alu	-	8	20	6	60	1
A10071020609	HFL 1020.06		Z9 Alu	KEL 1020	10	20	6	60	1
A10071225609	HFL 1225.06		Z9 Alu	KEL 1225	12	25	6	65	1
A10071230609	HFL 1230.06		Z9 Alu	KEL 1230	12	30	6	70	1
A10071230809	HFL 1230.08		Z9 Alu	KEL 1230	12	30	8	70	1
A10050618609	HFM 0618.06		Z9 Alu	SKM 0618	6	18	6	50	1

17.1 Rezkar ZF1-ZF3 rotacijska pila

Rotacijska pila ima ozobljene, ki bazira na ozobljenju ročne pile, to preprečuje, da bi se pila zapolnila, tudi ob uporabi na mehkejših materialih. Precizno ozobljenje je izdelano na najsodobnejših CNC strojih. Površina je po brušenju popolnoma gladka. Pila ima 3 različne grobosti ozobljenja od ZF1 (najbolj grobo) do ZF3, ki je najbolj fino. To Vam omogoča, da za svoje delo izberete najustreznejšo pilo.



Zelo gladka površina zahvaljujoč finemu ozobljenju
Dolga življenjska doba, ker je orodje iz karbidne trdine
Brez zapolnjevanja



Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	★★★ Pakiranje vsebuje
A100112256160001	HFAS 1225.06		ZF1	12	25	6	65	1
A10021225616	HFC 1225.06		ZF1	12	25	6	65	1
A10041230616	HFG 1230.06		ZF1	12	30	6	70	1
A100106166150001	HFAS 0616.06		ZF2	6	16	6	50	1
A100112256150001	HFAS 1225.06		ZF2	12	25	6	65	1
A10021225615	HFC 1225.06		ZF2	12	25	6	65	1
A10031009615	HFD 1009.06		ZF2	10	9	6	49	1
A10040618615	HFG 0618.06		ZF2	6	18	6	50	1
A10041230615	HFG 1230.06		ZF2	12	30	6	70	1

A10051225615	HFM 1225.06		ZF2	12	25	6	65	1
A100106166140001	HFAS 0616.06		ZF3	6	16	6	50	1
A10020616614	HFC 0616.06		ZF3	6	16	6	50	1
A10040618614	HFG 0618.06		ZF3	6	18	6	50	1
A10041230614	HFG 1230.06		ZF3	12	30	6	70	1
A10010204300	HFI 0204.03		ZI/ZF	2,5	4	3	40	1
A10010408300	HFI 0408.03		ZI/ZF	4	8	3	50	1
A10010810600	HFI 0810.06		ZI/ZF	8	10	6	65	1

18.1 Univerzalen razigljevalen rezkar za notranje razigljevanje



★★☆

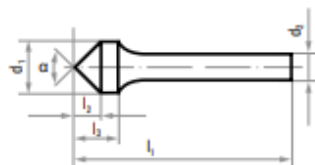
45 stopinski naklon
Za luknje različnih premerov
Hitro opravljeno delo

Lahko razigljevanje tudi težje dostopnih lukenj
Za lahko uporabo v ceveh, škatlah in raznoraznih komponentah
Posnemanje lukenj izvrtanih z svedrom

Številka izdelka	Opis	Oblika	d ₁ mm	l ₁ mm	d ₂ mm	l ₂ mm	Pakiranje vsebuje
A10170504303	HFT 0504.03	Z3 Universal	5	4	3	40	1
A10170705303	HFT 0705.03	Z3 Universal	7	5	3	40	1
A10171006603	HFT 1006.06	Z3 Universal	10	6	6	60	1
A10171207603	HFT 1207.06	Z3 Universal	12	7	6	65	1
A10171610603	HFT 1610.06	Z3 Universal	16	10	6	70	1
A10171610803	HFT 1610.08	Z3 Universal	16	10	8	120	1
A10171811803	HFT 1811.08	Z3 Universal	18	11	8	120	1

19.1 Z3 univerzalni rezkar za razigljevanje

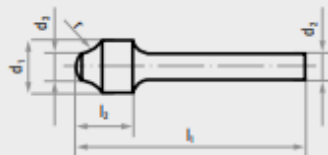
Razigli zelo učinkovito na vseh materialih
60 in 90 stopinjski kot glave
Za različne luknje



Številka izdelka	Opis	Oblika	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	l ₃ mm	α	Pakiranje vsebuje
A10080660603	HFJ 0605.06	Z3 Universal	KSJ 0605	6	5	6	50	–	60°	1
A10081090603	HFJ 1010.06	Z3 Universal	KSK 1005	10	5	6	50	10	90°	1
A10081060603	HFJ 1013.06	Z3 Universal	KSJ 1008	10	9	6	53	13	60°	1
A10081690603	HFJ 1613.06	Z3 Universal	KSK 1608	16	8	6	53	13	90°	1
A10081690803	HFJ 1613.08	Z3 Universal	KSK 1608	16	8	8	53	13	90°	1
A10081660603	HFJ 1616.06	Z3 Universal	KSJ 1613	16	14	6	56	16	60°	1

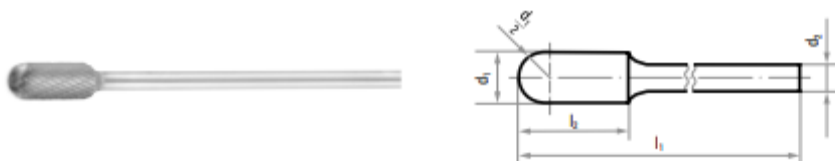
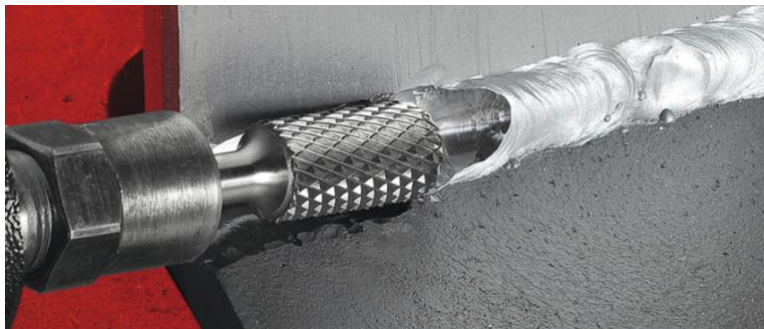
20.1 Z3 Univerzalen rezkar za zunanje razigljevanje

Dizajnirano da ustreza luknjam različnih premerov



Številka izdelka	Opis	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	l ₃ mm	Pakiranje vsebuje
A10140812603	HFR 0812.06	Z3 Universal	8	12	6	52	3	1
A10141015603	HFR 1015.06	Z3 Universal	10	15	6	55	2	1
A10141215603	HFR 1215.06	Z3 Universal	12	15	6	55	6	1
A10141215803	HFR 1215.08	Z3 Universal	12	15	8	55	6	1
A10141315603	HFR 1315.06	Z3 Universal	13	15	6	55	3	1
A10141315803	HFR 1315.08	Z3 Universal	13	15	8	55	3	1
A10141315605	HFR 1315.06	Z5 Hard	13	15	6	55	3	1

21.1 Z7 Rezkarji z posebno dolgo osjo



200mm dolga os
Zaradi križnega naseka je rezkar primeren za uporabo na jeklu

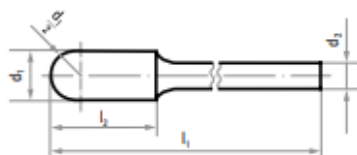
★★★

Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	n _{max} rpm	Pakiranje vsebuje
A10011225608200	HFA 1225.06 L		Z7 Steel	12	25	6	225	2,300	1
A10020616608200	HFC 0616.06 L		Z7 Steel	6	16	6	216	2,300	1
A10020820608200	HFC 0820.06 L		Z7 Steel	8	20	6	220	4,200	1
A10021020608200	HFC 1020.06 L		Z7 Steel	10	20	6	220	4,200	1
A10021225608200	HFC 1225.06 L		Z7 Steel	12	25	6	225	3,400	1
A10030605608200	HFD 0605.06 L		Z7 Steel	6	5	6	205	3,400	1
A10030807608200	HFD 0807.06 L		Z7 Steel	8	7	6	207	2,900	1
A10031009608200	HFD 1009.06 L		Z7 Steel	10	9	6	209	2,300	1
A10031210608200	HFD 1210.06 L		Z7 Steel	12	10	6	210	5,200	1
A10031210808200	HFD 1210.08 L		Z7 Steel	12	10	8	210	5,300	1
A10061220608200	HFE 1220.06 L		Z7 Steel	12	20	6	220	2,500	1
A10100618608200	HFF 0618.06 L		Z7 Steel	6	18	6	218	4,100	1
A10101230808200	HFF 1230.08 L		Z7 Steel	12	30	8	230	3,500	1
A10040618608200	HFG 0618.06 L		Z7 Steel	6	18	6	218	4,100	1
A10041230808200	HFG 1230.08 L		Z7 Steel	12	30	8	230	3,500	1
A10091020608200	HFH 1020.06 L		Z7 Steel	10	20	6	220	2,900	1

Da bi se izognili prelomu osi, nikoli ne presežite maksimalnih dovoljenih obratov. V primeru, da rezkar date v obdelovalno luknjo, preden stroj prižgete, lahko delate z dvojnimi obrati od predpisanih, s tem, da mora biti rezkar v luknji dokler stroj po izklopu popolnoma ne miruje.

22.1 Z3 Rezkarji z posebno dolgo osjo

200mm dolga os
Enojni nasek za univerzalno uporabo



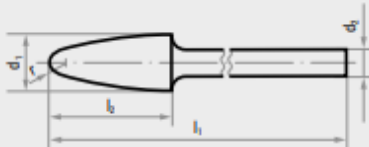
★★☆

Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₁ mm	d ₂ mm	l ₂ mm	n _{max} rpm	Pakiranje vsebuje
A10020616603200	HFC 0616.06 L		Z3 Universal	6	16	6	216	4,200	1
A10020820603200	HFC 0820.06 L		Z3 Universal	8	20	6	220	3,400	1
A10030605603200	HFD 0605.06 L		Z3 Universal	6	5	6	205	5,200	1
A10030807603200	HFD 0807.06 L		Z3 Universal	8	7	6	207	4,600	1
A10031009603200	HFD 1009.06 L		Z3 Universal	10	9	6	209	3,900	1
A10031210603200	HFD 1210.06 L		Z3 Universal	12	10	6	210	3,400	1
A10061220603200	HFE 1220.06 L		Z3 Universal	12	20	6	220	2,500	1
A10100618603200	HFF 0618.06 L		Z3 Universal	6	18	6	218	4,100	1
A10040618603200	HFG 0618.06 L		Z3 Universal	6	18	6	218	4,100	1
A10091020603200	HFH 1020.06 L		Z3 Universal	10	20	6	220	2,900	1

Da bi se izognili prelomu osi, nikoli ne presežite maksimalnih dovoljenih obratov. V primeru, da rezkar date v obdelovalno luknjo, preden stroj prižgete, lahko delate z dvojnimi obrati od predpisanih, s tem, da mora biti rezkar v luknji dokler stroj po izklopu popolnoma ne miruje.

23.1 ZX Univerzalni rezkarji z posebno dolgo osjo

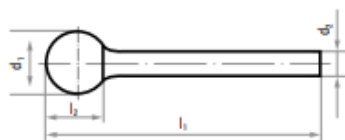


				150mm dolga os Univerzalno ozobljenje za vse aplikacije Z križnim nasekom za visoko učinkovitost					
☆☆☆									
Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	n _{max} rpm	Pakiranje vsebuje
A10020820622150	HFC 0820.06 BASE-X		ZX Universal	8	20	6	170	5,500	1
A10021020622150	HFC 1020.06 BASE-X		ZX Universal	10	20	6	170	4,700	1
A10021225622150	HFC 1225.06 BASE-X		ZX Universal	12	25	6	175	3,600	1
Številka izdelka	Opis	Oblika	Ozobljenje	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	n _{max} rpm	Pakiranje vsebuje
A10030807622150	HFD 0807.06 BASE-X		ZX UNIVERSAL	8	7	6	157	7,900	1
A10031009622150	HFD 1009.06 BASE-X		ZX UNIVERSAL	10	9	6	159	6,600	1
A10100820622150	HFF 0820.06 BASE-X		ZX UNIVERSAL	8	20	6	170	5,600	1
A10101225622150	HFF 1225.06 BASE-X		ZX UNIVERSAL	12	25	6	175	3,600	1

Da bi se izognili prelomu osi, nikoli ne presežite maksimalnih dovoljenih obratov. V primeru, da rezkar date v obdelovalno luknjo, preden stroj prižgete, lahko delate z dvojnimi obrati od predpisanih, s tem, da mora biti rezkar v luknji dokler stroj po izklopu popolnoma ne miruje.

24.1 ZX Univerzalni rezkarji

Univerzalni rezkar za vse aplikacije
Z križnim nasekom za visoko
učinkovitost



★☆☆

Številka izdelka	Opis	Oblika	Ozobljenje	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Pakiranje vsebuje		
A10010313322	HFA 0313.03 BASE-X		ZX Universal	ZYA 0313	3	13	3	40	10		
A10010616622	HFA 0616.06 BASE-X		ZX Universal	ZYA 0616	6	16	6	50	10		
A10010820622	HFA 0820.06 BASE-X		ZX Universal	ZYA 0820	8	20	6	60	10		
A10011020622	HFA 1020.06 BASE-X		ZX Universal	ZYA 1020	10	20	6	60	10		
A10011225622	HFA 1225.06 BASE-X		ZX Universal	ZYA 1225	12	25	6	65	5		
A10020313322	HFC 0313.03 BASE-X		ZX Universal	WRC 0313	3	13	3	40	10		
A10020613322	HFC 0613.03 BASE-X		ZX Universal	WRC 0613	6	13	3	43	10		
A10020616622	HFC 0616.06 BASE-X		ZX Universal	WRC 0616	6	16	6	50	10		
A10020820622	HFC 0820.06 BASE-X		ZX Universal	WRC 0820	8	20	6	60	10		
A10021020622	HFC 1020.06 BASE-X		ZX Universal	WRC 1020	10	20	6	60	10		
A10021225622	HFC 1225.06 BASE-X	ZX Universal	WRC 1225	12	25	6	65	5			
A10030403322	HFD 0403.03 BASE-X		ZX Universal	KUD 0403	4	3	3	34	10		
A10030605322	HFD 0605.03 BASE-X		ZX Universal	KUD 0605	6	5	3	35	10		
A10030807622	HFD 0807.06 BASE-X		ZX Universal	KUD 0807	8	7	6	47	10		
A10031009622	HFD 1009.06 BASE-X		ZX Universal	KUD 1009	10	9	6	49	10		
A10031210622	HFD 1210.06 BASE-X		ZX Universal	KUD 1210	12	10	6	51	5		
A10100313322	HFF 0313.03 BASE-X		ZX Universal	RBF 0313	3	13	3	40	10		
A10100618622	HFF 0618.06 BASE-X		ZX Universal	RBF 0618	6	18	6	50	10		
A10100820622	HFF 0820.06 BASE-X		ZX Universal	-	8	20	6	60	10		
A10101020622	HFF 1020.06 BASE-X		ZX Universal	RBF 1020	10	20	6	60	10		
A10101225622	HFF 1225.06 BASE-X		ZX Universal	RBF 1225	12	25	6	65	5		
A10040313322	HFG 0313.03 BASE-X		ZX Universal	SPG 0313	3	13	3	40	10		
A10040613322	HFG 0613.03 BASE-X		ZX Universal	SPG 0613	6	13	3	43	10		
A10040820622	HFG 0820.06 BASE-X		ZX Universal	SPG 0820	8	20	6	60	10		
A10041020622	HFG 1020.06 BASE-X		ZX Universal	SPG 1020	10	20	6	60	10		
A10041225622	HFG 1225.06 BASE-X		ZX Universal	SPG 1225	12	25	6	65	5		
A10041230622	HFG 1230.06 BASE-X	ZX Universal	SPG 1230	12	30	6	65	5			
Product number	Description	Shape	Cut	Similar to DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r mm	α	Pack contains
A10071230622	HFL 1230.06 BASE-X		ZX Universal	KEL 1230	12	30	6	70	2.6	14°	5
A10050311322	HFM 0311.03 BASE-X		ZX Universal	SKM 0311	3	11	3	40	-	14°	10
A10050618622	HFM 0618.06 BASE-X		ZX Universal	SKM 0618	6	18	6	50	-	16°	10
A10051020622	HFM 1020.06 BASE-X		ZX Universal	SKM 1020	10	20	6	60	-	27°	10
A10051225622	HFM 1225.06 BASE-X		ZX Universal	SKM 1225	12	25	6	65	-	26°	5

25.1 5 in 10 delni seti različnih rezkarjev

						
Set HM STEEL S3 Set HM STEEL S6 Set HM INOX S6 Set HM ALU S3 Set HM ALU S6						
Številka izdelka	Opis	Ozobljenje	Premier osi	En paket vsebuje		
A10390010	Set HM STEEL S3	Z7 jeklo	3	10 parts: HFA 0313 HFC 0613 HFG 0313 HFF 0313	HFA 0613 HFD 0302 HFG 0613	HFC 0313 HFD 0605 HFM 0613
A1039001006	Set HM STEEL S6	Z7 jeklo	6	10 parts: HFAS 0616 HFC 1225 HFD 1210 HFF 0820	HFAS 1225 HFC 1225 HFG 0618 HFF 1225	HFC 0616 HFD 0605 HFG 1225
Recommended for: ☐ Steel ☒ Cast material ☐ Titanium						
A1039001020	Set HM INOX S6	Z42 inox /Jeklo	6	10 parts: HFA 0616 HFC 1225 HFG 0618 HFF 1225	HFA 1225 HFD 0605 HFG 1225	HFC 0616 HFD 1210 HFF 0618
Recommended for: ☒ Inox/Steel ☐ Steel ☐ Cast material						
A1039000509	Set HM ALU S3	Z9 ALU	3	5 parts: HFA 0313 HFF 0313	HFC 0313 HFG 0313	HFD 0403
A10390005096	Set HM ALU S6	Z9 ALU	6	5 parts: HFA 0616 HFF 0618	HFC 0616 HFD 0605	HFM 0618



Številka izdelka	Opis	Ozobljenje	Premier osi	En paket vsebuje		
A10390053	F5 S3 BASE-X	ZX Universal	3	5 parts: HFA 0313 HFF 0313	HFC 0313 HFG 0313	HFD 0605
A10390056	F5 S6 BASE-X	ZX Universal	6	5 parts: HFA 1225 HFF 1225	HFC 1225 HFG 1225	HFD 1210

