

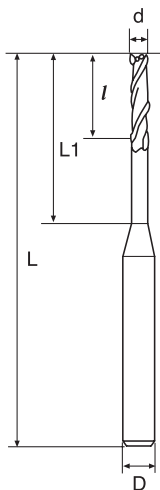
SPEED TIGER



SPEED TIGER
INSERTS
SLIM CHUCK
YES DRILLS
NICECUT
GE DRILLS
GROOVING
MINITOOOLS
MICROTOOLS AMS
MOULDMILL
MINIMILL
MILLING

SQUARE SERIES-LONG NECK-2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm



LNT	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L1	L	D	Z			
LNT05022 AlTiN	0.5	0.75	2	50	4	2	0,010	●	54,-
LNT05042 AlTiN	0.5	0.75	4	50	4	2	0,010	●	54,-
LNT05062 AlTiN	0.5	0.75	6	50	4	2	0,010	●	54,-
LNT06022 AlTiN	0.6	0.9	2	50	4	2	0,010	●	50,-
LNT06042 AlTiN	0.6	0.9	4	50	4	2	0,010	●	50,-
LNT06062 AlTiN	0.6	0.9	6	50	4	2	0,010	●	50,-
LNT07042 AlTiN	0.7	1.1	4	50	4	2	0,010	●	50,-
LNT07062 AlTiN	0.7	1.1	6	50	4	2	0,010	●	50,-
LNT08042 AlTiN	0.8	1.2	4	50	4	2	0,010	●	50,-
LNT08062 AlTiN	0.8	1.2	6	50	4	2	0,010	●	50,-
LNT08082 AlTiN	0.8	1.2	8	50	4	2	0,010	●	50,-
LNT09062 AlTiN	0.9	1.4	6	50	4	2	0,010	●	50,-
LNT09082 AlTiN	0.9	1.4	8	50	4	2	0,010	●	50,-
LNT09102 AlTiN	0.9	1.4	10	50	4	2	0,010	●	50,-
LNT10062 AlTiN	1	1.5	6	50	4	2	0,010	●	40,50
LNT10082 AlTiN	1	1.5	8	50	4	2	0,010	●	40,50
LNT10102 AlTiN	1	1.5	10	50	4	2	0,010	●	40,50
LNT10122 AlTiN	1	1.5	12	50	4	2	0,010	●	40,50
LNT10162 AlTiN	1	1.5	16	50	4	2	0,010	●	40,50
LNT12062 AlTiN	1.2	1.8	6	50	4	2	0,010	●	50,-
LNT12082 AlTiN	1.2	1.8	8	50	4	2	0,010	●	50,-
LNT12102 AlTiN	1.2	1.8	10	50	4	2	0,010	●	50,-
LNT12122 AlTiN	1.2	1.8	12	50	4	2	0,010	●	50,-
LNT14062 AlTiN	1.4	2.1	6	50	4	2	0,010	●	50,-
LNT14102 AlTiN	1.4	2.1	10	50	4	2	0,010	●	50,-
LNT14162 AlTiN	1.4	2.1	16	50	4	2	0,010	●	50,-
LNT15062 AlTiN	1.5	2.3	6	50	4	2	0,010	●	40,50
LNT15082 AlTiN	1.5	2.3	8	50	4	2	0,010	●	40,50
LNT15102 AlTiN	1.5	2.3	10	50	4	2	0,010	●	40,50
LNT15122 AlTiN	1.5	2.3	12	50	4	2	0,010	●	40,50
LNT15142 AlTiN	1.5	2.3	14	50	4	2	0,010	●	40,50
LNT15162 AlTiN	1.5	2.3	16	50	4	2	0,010	●	40,50
LNT15182 AlTiN	1.5	2.3	18	50	4	2	0,010	●	40,50
LNT15202 AlTiN	1.5	2.3	20	50	4	2	0,010	●	40,50
LNT16062 AlTiN	1.6	2.4	6	50	4	2	0,010	●	50,-
LNT16082 AlTiN	1.6	2.4	8	50	4	2	0,010	●	50,-
LNT16102 AlTiN	1.6	2.4	10	50	4	2	0,010	●	50,-
LNT16122 AlTiN	1.6	2.4	12	50	4	2	0,010	●	50,-

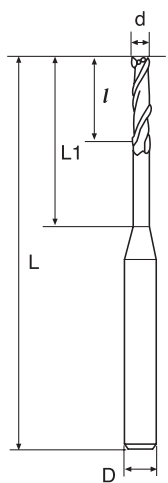
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

MILLING
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SLIM CHUCK
INSERTS
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SQUARE SERIES-LONG NECK-2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm



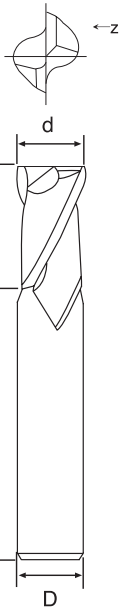
LNT	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes	kg	STOCK	€
	d	l	L1	L	D	Z			
LNT16142 AlTiN	1.6	2.4	14	50	4	2	0,010	●	50,-
LNT16162 AlTiN	1.6	2.4	16	50	4	2	0,010	●	50,-
LNT16182 AlTiN	1.6	2.4	18	50	4	2	0,010	●	50,-
LNT18082 AlTiN	1.8	2.7	8	50	4	2	0,010	●	50,-
LNT18142 AlTiN	1.8	2.7	14	50	4	2	0,010	●	50,-
LNT18202 AlTiN	1.8	2.7	20	50	4	2	0,010	●	50,-
LNT20062 AlTiN	2	3	6	50	4	2	0,010	●	40,50
LNT20082 AlTiN	2	3	8	50	4	2	0,010	●	40,50
LNT20102 AlTiN	2	3	10	50	4	2	0,010	●	40,50
LNT20122 AlTiN	2	3	12	50	4	2	0,010	●	40,50
LNT20142 AlTiN	2	3	14	50	4	2	0,010	●	40,50
LNT20162 AlTiN	2	3	16	50	4	2	0,010	●	40,50
LNT20182 AlTiN	2	3	18	50	4	2	0,010	●	40,50
LNT20202 AlTiN	2	3	20	50	4	2	0,010	●	40,50
LNT25082 AlTiN	2.5	4	8	50	4	2	0,010	●	40,50
LNT25102 AlTiN	2.5	4	10	50	4	2	0,010	●	40,50
LNT25122 AlTiN	2.5	4	12	50	4	2	0,010	●	40,50
LNT25142 AlTiN	2.5	4	14	50	4	2	0,010	●	40,50
LNT25162 AlTiN	2.5	4	16	50	4	2	0,010	●	40,50
LNT25202 AlTiN	2.5	4	20	50	4	2	0,010	●	40,50
LNT30082 AlTiN	3	4.5	8	50	6	2	0,020	●	44,-
LNT30102 AlTiN	3	4.5	10	50	6	2	0,020	●	44,-
LNT30122 AlTiN	3	4.5	12	50	6	2	0,020	●	44,-
LNT30162 AlTiN	3	4.5	16	60	6	2	0,020	●	50,50
LNT30202 AlTiN	3	4.5	20	60	6	2	0,020	●	50,50
LNT30252 AlTiN	3	4.5	25	75	6	2	0,020	●	50,50
LNT35122 AlTiN	3.5	6	12	50	6	2	0,020	●	44,-
LNT35162 AlTiN	3.5	6	16	60	6	2	0,020	●	53,50
LNT35202 AlTiN	3.5	6	20	75	6	2	0,020	●	53,50
LNT35252 AlTiN	3.5	6	25	75	6	2	0,020	●	53,50
LNT35302 AlTiN	3.5	6	30	75	6	2	0,020	●	53,50
LNT40122 AlTiN	4	6	12	50	6	2	0,020	●	44,-
LNT40162 AlTiN	4	6	16	60	6	2	0,020	●	53,50
LNT40202 AlTiN	4	6	20	75	6	2	0,020	●	53,50
LNT40252 AlTiN	4	6	25	75	6	2	0,020	●	53,50
LNT40302 AlTiN	4	6	30	75	6	2	0,020	●	53,50
LNT40352 AlTiN	4	6	35	75	6	2	0,020	●	53,50

Application: Recommend Suitable Not Recommend

Carbon steel Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

SQUARE SERIES- 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



SSE MSE SE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
SSE0102 TiSiN	1	3	50	3	2	0,020	○	21,-
MSE0102 TiSiN	1	3	50	4	2	0,020	●	21,-
SSE0152 TiSiN	1.5	4	50	3	2	0,020	○	21,-
MSE0152 TiSiN	1.5	4	50	4	2	0,020	●	21,-
SSE0202 TiSiN	2	6	50	3	2	0,020	○	21,-
MSE0202 TiSiN	2	6	50	4	2	0,020	●	21,-
SSE0252 TiSiN	2.5	8	50	3	2	0,020	○	21,-
MSE0252 TiSiN	2.5	8	50	4	2	0,020	●	21,-
SSE0302 TiSiN	3	8	50	3	2	0,020	○	21,-
MSE0302 TiSiN	3	8	50	4	2	0,020	●	21,-
MSE0352 TiSiN	3.5	10	50	4	2	0,020	●	21,-
MSE0402 TiSiN	4	11	50	4	2	0,020	●	21,-
SE0102 TiSiN	1	3	50	6	2	0,020	●	29,-
SE0152 TiSiN	1.5	4	50	6	2	0,020	●	29,-
SE0202 TiSiN	2	6	50	6	2	0,020	●	29,-
SE0252 TiSiN	2.5	8	50	6	2	0,020	●	29,-
SE0302 TiSiN	3	8	50	6	2	0,020	●	29,-
SE0352 TiSiN	3.5	10	50	6	2	0,020	●	29,-
SE0402 TiSiN	4	11	50	6	2	0,020	●	29,-
SE0452 TiSiN	4.5	13	50	6	2	0,020	●	29,-
SE0502 TiSiN	5	13	50	6	2	0,020	●	29,-
SE0552 TiSiN	5.5	13	50	6	2	0,020	●	29,-
SE0602 TiSiN	6	16	50	6	2	0,020	●	29,-
SE0652 TiSiN	6.5	16	60	8	2	0,040	●	53,-
SE0702 TiSiN	7	16	60	8	2	0,040	●	53,-
SE0752 TiSiN	7.5	19	60	8	2	0,040	●	53,-
SE0802 TiSiN	8	20	60	8	2	0,040	●	53,-
SE0852 TiSiN	8.5	20	75	10	2	0,080	●	75,50
SE0902 TiSiN	9	20	75	10	2	0,080	●	75,50
SE0952 TiSiN	9.5	25	75	10	2	0,080	●	75,50
SE1002 TiSiN	10	25	75	10	2	0,080	●	75,50
SE1052 TiSiN	10.5	25	75	12	2	0,100	●	103,50
SE1102 TiSiN	11	30	75	12	2	0,110	●	103,50
SE1152 TiSiN	11.5	30	75	12	2	0,110	●	103,50
SE1202 TiSiN	12	32	75	12	2	0,110	●	103,50
SE1402 TiSiN	14	40	100	16	2	0,240	●	235,-
SE1602 TiSiN	16	40	100	16	2	0,290	●	235,-
SE1802 TiSiN	18	45	100	20	2	0,360	●	301,50
SE2002 TiSiN	20	45	100	20	2	0,390	●	301,50

Application: ■ Recommend □ Suitable x Not Recommend

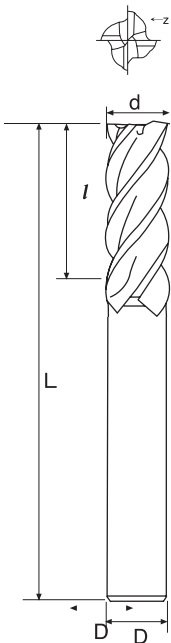
Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
□	■	■	□	-	-	□	-	-

- Disponibile - Lieferbar - On stock
- A richiesta - Auf Anfrage - On request

MILLING
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NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

SQUARE SERIES-4 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6



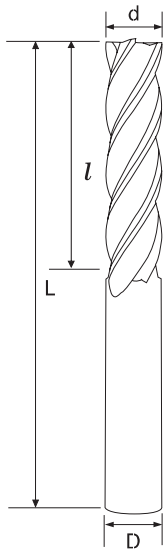
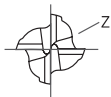
SSE MSE SE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
SSE0104 TiSiN	1	3	50	3	4	0,020	○	21,-
MSE0104 TiSiN	1	3	50	4	4	0,020	●	21,-
SSE0154 TiSiN	1.5	4	50	3	4	0,020	○	21,-
MSE0154 TiSiN	1.5	4	50	4	4	0,020	●	21,-
SSE0204 TiSiN	2	6	50	3	4	0,020	○	21,-
MSE0204 TiSiN	2	6	50	4	4	0,020	●	21,-
SSE0254 TiSiN	2.5	8	50	3	4	0,020	○	21,-
MSE0254 TiSiN	2.5	8	50	4	4	0,020	●	21,-
SSE0304 TiSiN	3	8	50	3	4	0,020	○	21,-
MSE0304 TiSiN	3	8	50	4	4	0,020	●	21,-
MSE0354 TiSiN	3.5	10	50	4	4	0,020	●	21,-
MSE0404 TiSiN	4	11	50	4	4	0,020	●	21,-
SE0104 TiSiN	1	3	50	6	4	0,020	●	29,-
SE0154 TiSiN	1.5	4	50	6	4	0,020	●	29,-
SE0204 TiSiN	2	6	50	6	4	0,020	●	29,-
SE0254 TiSiN	2.5	8	50	6	4	0,020	●	29,-
SE0304 TiSiN	3	8	50	6	4	0,020	●	29,-
SE0354 TiSiN	3.5	10	50	6	4	0,020	●	29,-
SE0404 TiSiN	4	11	50	6	4	0,020	●	29,-
SE0454 TiSiN	4.5	13	50	6	4	0,020	●	29,-
SE0504 TiSiN	5	13	50	6	4	0,020	●	29,-
SE0554 TiSiN	5.5	13	50	6	4	0,020	●	29,-
SE0604 TiSiN	6	16	50	6	4	0,040	●	29,-
SE0654 TiSiN	6.5	16	60	8	4	0,040	●	53,-
SE0704 TiSiN	7	16	60	8	4	0,040	●	53,-
SE0754 TiSiN	7.5	19	60	8	4	0,040	●	53,-
SE0804 TiSiN	8	20	60	8	4	0,040	●	53,-
SE0854 TiSiN	8.5	20	75	10	4	0,080	●	75,50
SE0904 TiSiN	9	20	75	10	4	0,080	●	75,50
SE0954 TiSiN	9.5	25	75	10	4	0,080	●	75,50
SE1004 TiSiN	10	30	75	10	4	0,080	●	75,50
SE1054 TiSiN	10.5	30	75	12	4	0,100	●	103,50
SE1104 TiSiN	11	30	75	12	4	0,110	●	103,50
SE1154 TiSiN	11.5	30	75	12	4	0,110	●	103,50
SE1204 TiSiN	12	32	75	12	4	0,110	●	103,50
SE1404 TiSiN	14	40	100	16	4	0,240	●	235,-
SE1604 TiSiN	16	40	100	16	4	0,290	●	235,-
SE1804 TiSiN	18	45	100	20	4	0,360	●	301,50
SE2004 TiSiN	20	45	100	20	4	0,390	●	301,50

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	-50HRC	High-hardened ~55HRC	-60HRC	-65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

SQUARE SERIES-LONG FLUTE-4 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



LET	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
LET0104 TiSiN	1	6	50	4	4	0,020	●	35,-
LET0154 TiSiN	1.5	9	50	4	4	0,020	●	35,-
LET0204 TiSiN	2	12	50	4	4	0,020	●	35,-
LET0254 TiSiN	2.5	12	50	4	4	0,020	●	35,-
LET0304 TiSiN	3	15	60	6	4	0,020	●	38,50
LET0354 TiSiN	3,5	15	60	6	4	0,020	●	38,50
LET0404 TiSiN	4	20	75	6	4	0,020	●	49,-
LET0454 TiSiN	4.5	20	75	6	4	0,030	●	49,-
LET0504 TiSiN	5	25	75	6	4	0,030	●	49,-
LET0554 TiSiN	5.5	25	75	6	4	0,030	●	49,-
LET0604 TiSiN	6	30	75	6	4	0,030	●	49,-
LET0704 TiSiN	7	30	100	8	4	0,060	●	78,-
LET0804 TiSiN	8	40	100	8	4	0,070	●	78,-
LET0904 TiSiN	9	40	100	10	4	0,090	●	99,50
LET1004 TiSiN	10	40	100	10	4	0,110	●	99,50
LET1104 TiSiN	11	40	100	12	4	0,140	●	127,-
LET1204 TiSiN	12	50	100	12	4	0,140	●	127,-
LET1404 TiSiN	14	50	150	16	4	0,350	●	335,-
LET1604 TiSiN	16	60	150	16	4	0,370	●	335,-
LET2004 TiSiN	20	90	200	20	4	0,720	●	679,-

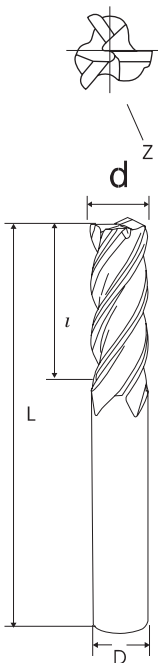
Application: ■ Recommend □ Suitable x Not Recommend

Carbon steel Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminun alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
□	■	■	□	-	-	□	-	-

MILLING
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NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

SQUARE SERIES-FLUTE ANGLE 45°-3 FLUTES

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5 m



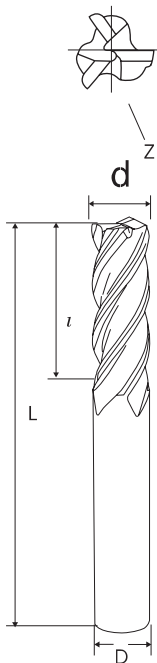
MPE PE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
MPE0103 TiSiN	1	3	50	4	3	0,010	●	21,-
MPE0153 TiSiN	1.5	4	50	4	3	0,020	●	21,-
MPE0203 TiSiN	2	6	50	4	3	0,020	●	21,-
MPE0253 TiSiN	2.5	8	50	4	3	0,020	●	21,-
MPE3303 TiSiN	3	8	50	3	3	0,020	●	21,-
MPE0303 TiSiN	3	8	50	4	3	0,020	●	21,-
MPE0353 TiSiN	3.5	10	50	4	3	0,020	●	21,-
MPE0403 TiSiN	4	11	50	4	3	0,020	●	21,-
PE0103 TiSiN	1	3	50	6	3	0,020	●	29,-
PE0153 TiSiN	1.5	4	50	6	3	0,020	●	29,-
PE0203 TiSiN	2	6	50	6	3	0,020	●	29,-
PE0253 TiSiN	2.5	8	50	6	3	0,020	●	29,-
PE0303 TiSiN	3	8	50	6	3	0,020	●	29,-
PE0353 TiSiN	3.5	10	50	6	3	0,020	●	29,-
PE0403 TiSiN	4	11	50	6	3	0,020	●	29,-
PE0453 TiSiN	4.5	13	50	6	3	0,020	●	29,-
PE0503 TiSiN	5	13	50	6	3	0,020	●	29,-
PE0553 TiSiN	5.5	13	50	6	3	0,020	●	29,-
PE0603 TiSiN	6	16	50	6	3	0,020	●	29,-
PE0653 TiSiN	6.5	16	60	8	3	0,040	●	53,-
PE0703 TiSiN	7	16	60	8	3	0,040	●	53,-
PE0753 TiSiN	7.5	19	60	8	3	0,040	●	53,-
PE0803 TiSiN	8	20	60	8	3	0,040	●	53,-
PE0853 TiSiN	8.5	20	75	10	3	0,080	●	75,50
PE0903 TiSiN	9	20	75	10	3	0,080	●	75,50
PE0953 TiSiN	9.5	25	75	10	3	0,080	●	75,50
PE1003 TiSiN	10	30	75	10	3	0,080	●	75,50
PE1053 TiSiN	10.5	30	75	12	3	0,100	●	103,50
PE1103 TiSiN	11	30	75	12	3	0,110	●	103,50
PE1153 TiSiN	11.5	30	75	12	3	0,110	●	103,50
PE1203 TiSiN	12	32	75	12	3	0,110	●	103,50
PE1403 TiSiN	14	40	100	16	3	0,240	●	235,-
PE1603 TiSiN	16	40	100	16	3	0,290	●	235,-
PE1803 TiSiN	18	45	100	20	3	0,360	●	301,50
PE2003 TiSiN	20	45	100	20	3	0,390	●	301,50

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	High-hardened ~50HRC	High-hardened ~55HRC	High-hardened ~60HRC	High-hardened ~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SQUARE SERIES-FLUTE ANGLE 45°-4 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



MPE PE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
MPE0104 TiSiN	1	3	50	4	4	0,010	●	21,-
MPE0154 TiSiN	1.5	4	50	4	4	0,020	●	21,-
MPE0204 TiSiN	2	6	50	4	4	0,020	●	21,-
MPE0254 TiSiN	2.5	8	50	4	4	0,020	●	21,-
MPE3304 TiSiN	3	8	50	3	4	0,020	●	21,-
MPE0304 TiSiN	3	8	50	4	4	0,020	●	21,-
MPE0354 TiSiN	3.5	10	50	4	4	0,020	●	21,-
MPE0404 TiSiN	4	11	50	4	4	0,020	●	21,-
PE0104 TiSiN	1	3	50	6	4	0,020	●	29,-
PE0154 TiSiN	1.5	4	50	6	4	0,020	●	29,-
PE0204 TiSiN	2	6	50	6	4	0,020	●	29,-
PE0254 TiSiN	2.5	8	50	6	4	0,020	●	29,-
PE0304 TiSiN	3	8	50	6	4	0,020	●	29,-
PE0354 TiSiN	3.5	10	50	6	4	0,020	●	29,-
PE0404 TiSiN	4	11	50	6	4	0,020	●	29,-
PE0454 TiSiN	4.5	13	50	6	4	0,020	●	29,-
PE0504 TiSiN	5	13	50	6	4	0,020	●	29,-
PE0554 TiSiN	5.5	13	50	6	4	0,020	●	29,-
PE0604 TiSiN	6	16	50	6	4	0,020	●	29,-
PE0654 TiSiN	6.5	16	60	8	4	0,040	●	53,-
PE0704 TiSiN	7	16	60	8	4	0,040	●	53,-
PE0754 TiSiN	7.5	19	60	8	4	0,040	●	53,-
PE0804 TiSiN	8	20	60	8	4	0,040	●	53,-
PE0854 TiSiN	8.5	20	75	10	4	0,080	●	75,50
PE0904 TiSiN	9	20	75	10	4	0,080	●	75,50
PE0954 TiSiN	9.5	25	75	10	4	0,080	●	75,50
PE1004 TiSiN	10	30	75	10	4	0,080	●	75,50
PE1054 TiSiN	10.5	30	75	12	4	0,100	●	103,50
PE1104 TiSiN	11	30	75	12	4	0,110	●	103,50
PE1154 TiSiN	11.5	30	75	12	4	0,110	●	103,50
PE1204 TiSiN	12	32	75	12	4	0,110	●	103,50
PE1404 TiSiN	14	40	100	16	4	0,240	●	235,-
PE1604 TiSiN	16	40	100	16	4	0,290	●	235,-
PE1804 TiSiN	18	45	100	20	4	0,360	●	301,50
PE2004 TiSiN	20	45	100	20	4	0,390	●	301,50

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

2024



141

MILLING

MINIMILL

MOULDMILL

MICROTOOLS
AMS

MINITOLS

GROOVING

GE DRILLS

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YES DRILLS

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INSERTS

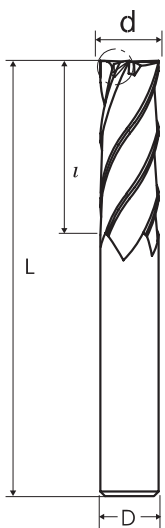
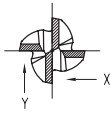
SPEED TIGER

SQUARE SERIES - FLUTE ANGLE 35° / 38° - 4 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



DH	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	kg	STOCK	€
	d	l	L	D	Z			
DH0104 TiSiN	1	3	50	6	4	0,020	○	29,-
DH0154 TiSiN	1,5	4	50	6	4	0,020	○	29,-
DH0204 TiSiN	2	6	50	6	4	0,020	○	29,-
DH0304 TiSiN	3	8	50	6	4	0,020	○	29,-
DH0404 TiSiN	4	11	50	6	4	0,020	○	29,-
DH0604 TiSiN	6	16	50	6	4	0,020	○	29,-
DH0804 TiSiN	8	20	60	8	4	0,040	○	53,-
DH1004 TiSiN	10	30	75	10	4	0,080	○	75,50
DH1204 TiSiN	12	32	75	12	4	0,110	○	103,50
DH1604 TiSiN	16	40	100	16	4	0,290	○	235,-
DH2004 TiSiN	20	45	100	20	4	0,390	○	301,50



Application: Recommend Suitable Not Recommend

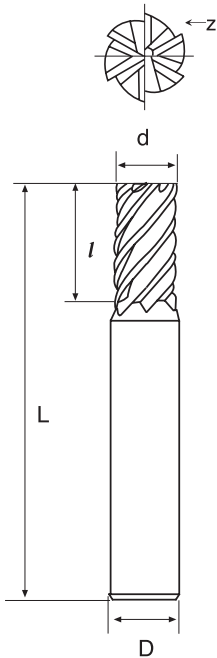
Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

SQUARE SERIES - FOR HARD MATERIAL - MULTIPLE FLUTE

- Ultra Fine Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm' Grain Size=0.4 m



UVT ULVT	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
UVT0204 AlTiN	2	4	50	4	4	0,010	○	52,-
UVT0304 AlTiN	3	6	50	6	4	0,020	○	51,-
UVT0404 AlTiN	4	8	50	6	4	0,020	○	51,-
UVT0506 AlTiN	5	13	50	6	6	0,020	○	51,-
UVT0606 AlTiN	6	16	50	6	6	0,020	○	51,-
UVT0806 AlTiN	8	20	60	8	6	0,050	○	71,50
UVT1006 AlTiN	10	30	75	10	6	0,090	○	103,50
UVT1206 AlTiN	12	32	75	12	6	0,120	○	133,50
UVT1606 AlTiN	16	40	100	16	6	0,400	○	289,-
UVT2008 AlTiN	20	45	100	20	8	0,600	○	484,50
UVT2508 AlTiN	25	45	100	25	8	0,940	○	811,-
ULVT0606 AlTiN	6	25	75	6	6	0,020	○	61,50
ULVT0806 AlTiN	8	30	75	8	6	0,050	○	75,50
ULVT1006 AlTiN	10	40	100	10	6	0,090	○	127,-
ULVT1206 AlTiN	12	45	100	12	6	0,120	○	159,50
ULVT1606 AlTiN	16	65	150	16	6	0,400	○	373,50
ULVT2008 AlTiN	20	75	150	20	8	0,600	○	692,-
ULVT2508 AlTiN	25	80	150	25	8	0,940	○	953,-



Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
		~50HRC	~55HRC	~60HRC			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SQUARE SERIES - FOR HARD MATERIAL - MULTIPLE FLUTE

- Super Ultra Fine Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2µm

200
Nano

HRC
▶ 65

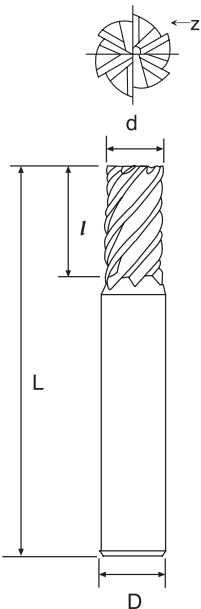
45°

SI



SFUVT SFULVT

	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
SFUVT0606 nACo	6	15	60	6	6	0,020	○	90,-
SFUVT0806 nACo	8	20	60	8	6	0,050	○	122,50
SFUVT1006 nACo	10	25	75	10	6	0,090	○	196,50
SFUVT1206 nACo	12	30	75	12	6	0,120	○	224,50
SFUVT1606 nACo	16	45	100	16	6	0,400	○	473,50
SFUVT2008 nACo	20	45	100	20	8	0,600	○	750,50
SFUVT2508 nACo	25	45	100	25	8	0,940	○	982,-
SFULVT0606 nACo	6	25	75	6	6	0,020	○	102,-
SFULVT0806 nACo	8	35	100	8	6	0,050	○	141,50
SFULVT1006 nACo	10	45	100	10	6	0,090	○	224,50
SFULVT1206 nACo	12	50	100	12	6	0,120	○	255,50
SFULVT1606 nACo	16	65	150	16	6	0,400	○	539,-
SFULVT2008 nACo	20	75	150	20	8	0,600	○	1018,-
SFULVT2508 nACo	25	80	150	25	8	0,940	○	1317,-



Application: Recommend Suitable Not Recommend

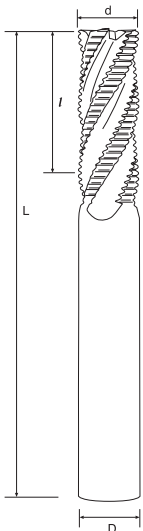
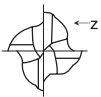
Carbon steel Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-

FINE PITCH ROUGHING SERIES

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.51µm



NTA		Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
		d	l	L	D	Z			
NTA0504	AlTiN	5	13	50	6	4	0,020	○	67,50
NTA0604	AlTiN	6	16	50	6	4	0,020	○	67,50
NTA0704	AlTiN	7	16	60	8	4	0,040	○	83,-
NTA0804	AlTiN	8	19	60	8	4	0,040	○	83,-
NTA0904	AlTiN	9	25	75	10	4	0,080	○	112,50
NTA1004	AlTiN	10	25	75	10	4	0,080	○	112,50
NTA1104	AlTiN	11	30	75	12	4	0,110	○	138,-
NTA1204	AlTiN	12	30	75	12	4	0,110	○	138,-
NTA1404	AlTiN	14	35	100	16	4	0,260	○	339,50
NTA1504	AlTiN	15	35	100	16	4	0,270	○	339,50
NTA1604	AlTiN	16	35	100	16	4	0,280	○	339,50
NTA2004	AlTiN	20	45	100	20	4	0,400	○	451,50



Application: Recommend Suitable Not Recommend

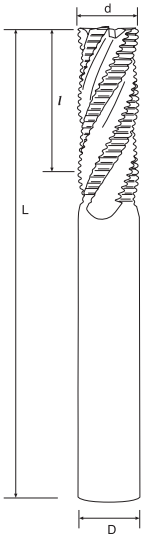
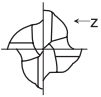
Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ROUGHING SERIES

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.51µm



XTA	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	kg	STOCK	€
	d	l	L	D	Z			
XTA0504 AlTiN	5	13	50	6	4	0,020	○	67,50
XTA0604 AlTiN	6	16	50	6	4	0,020	○	67,50
XTA0704 AlTiN	7	16	60	8	4	0,040	○	86,-
XTA0804 AlTiN	8	19	60	8	4	0,040	○	86,-
XTA0904 AlTiN	9	25	75	10	4	0,080	○	114,50
XTA1004 AlTiN	10	25	75	10	4	0,080	○	114,50
XTA1104 AlTiN	11	30	75	12	4	0,110	○	138,-
XTA1204 AlTiN	12	30	75	12	4	0,110	○	138,-
XTA1604 AlTiN	16	35	100	16	4	0,280	○	341,-
XTA2004 AlTiN	20	45	100	20	4	0,400	○	451,50



Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

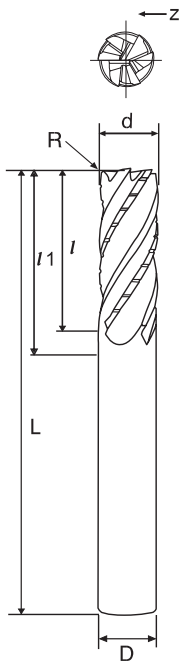
KKF MULTI FLUTES HIGH EFFICIENCY

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm



KKF	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
KKF0602	6	16	50	6	2	0,020	○	83,-
KKF0802	8	19	60	8	2	0,040	○	117,-
KKF1002	10	25	75	10	2	0,080	○	155,50
KKF1202	12	30	75	12	2	0,080	○	190,50
KKF1602	16	35	110	16	2	0,280	○	452,-
KKF2002	20	45	110	20	2	0,400	○	679,50

KKF	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
KKF0603	6	16	50	6	3	0,020	○	83,-
KKF0803	8	19	60	8	3	0,040	○	117,-
KKF1003	10	25	75	10	3	0,080	○	155,50
KKF1203	12	30	75	12	3	0,110	○	190,50
KKF1603	16	35	110	16	3	0,280	○	452,-
KKF2003	20	45	110	20	3	0,400	○	679,50



Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	-	-

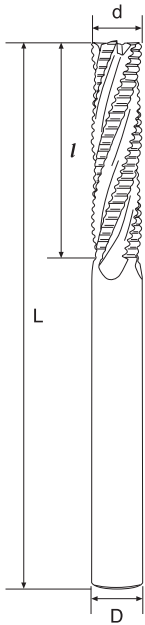
KKR MULTI FLUTES HIGH EFFICIENCY

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm

400
NanoHRC
45

35°

nACRo



KKR	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKR0602	6	16	50	6	2	0,020	○	83,-
KKR0802	8	19	60	8	2	0,040	○	117,-
KKR1002	10	25	75	10	2	0,080	○	155,50
KKR1202	12	30	75	12	2	0,110	○	190,50
KKR1602	16	35	110	16	2	0,280	○	452,-
KKR2002	20	45	110	20	2	0,400	○	679,50
KKR2502	25	50	110	25	2	0,670	○	885,50

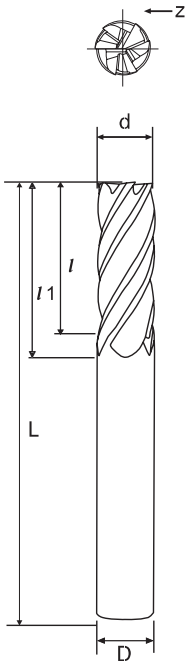
KKR	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKR0603	6	16	50	6	3	0,020	○	83,-
KKR0803	8	19	60	8	3	0,040	○	117,-
KKR1003	10	25	75	10	3	0,080	○	155,50
KKR1203	12	30	75	12	3	0,110	○	190,50
KKR1603	16	35	110	16	3	0,280	○	452,-
KKR2003	20	45	110	20	3	0,400	○	679,50
KKR2503	25	50	110	25	3	0,670	○	885,50

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	-	-

KKM MULTI FLUTES HIGH EFFICIENCY

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm



KKM	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKM0602	6	16	50	6	2	0,020	○	83,-
KKM0802	8	19	60	8	2	0,040	○	117,-
KKM1002	10	22	75	10	2	0,080	○	155,50
KKM1202	12	26	75	12	2	0,110	○	165,-
KKM1602	16	35	110	16	2	0,280	○	371,50
KKM2002	20	40	110	20	2	0,400	○	600,-
KKM2502	25	45	110	25	2	0,670	○	811,50

KKM	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKM0603	6	16	50	6	3	0,020	○	83,-
KKM0803	8	19	60	8	3	0,040	○	117,-
KKM1003	10	25	75	10	3	0,080	○	163,-
KKM1203	12	30	75	12	3	0,110	○	173,-
KKM1603	16	40	110	16	3	0,280	○	400,50
KKM2003	20	45	110	20	3	0,400	○	636,50
KKM2503	25	50	110	25	3	0,670	○	842,-

KKM	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKM1004	10	25	75	10	4	0,080	○	163,-
KKM1204	12	30	75	12	4	0,110	○	173,-
KKM1604	16	40	110	16	4	0,280	○	400,50
KKM2004	20	45	110	20	4	0,400	○	636,50
KKM2504	25	50	110	25	4	0,670	○	842,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC		
	■	■	■	■	□	-	-

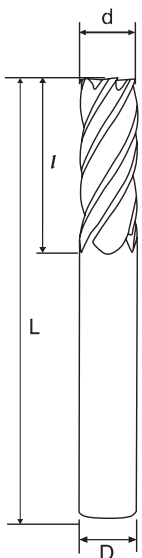
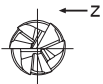
KKH MULTI FLUTES HIGH EFFICIENCY

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm

400
NanoHRC
65

35°

nAco



KKH	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKH0602	6	16	50	6	2	0,020	○	60,50
KKH0802	8	19	60	8	2	0,040	○	83,-
KKH1002	10	22	75	10	2	0,080	○	92,-
KKH1202	12	26	75	12	2	0,110	○	160,50
KKH1602	16	35	110	16	2	0,280	○	371,50
KKH2002	20	40	110	20	2	0,400	○	600,-
KKH2502	25	45	110	25	2	0,670	○	811,50

KKH	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKH0603	6	16	50	6	3	0,020	○	62,50
KKH0803	8	19	60	8	3	0,040	○	92,-
KKH1003	10	25	75	10	3	0,080	○	139,-
KKH1203	12	30	75	12	3	0,110	○	173,-
KKH1603	16	40	110	16	3	0,280	○	400,50
KKH2003	20	45	110	20	3	0,400	○	636,50
KKH2503	25	50	110	25	3	0,670	○	842,-

KKH	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
KKH1004	10	25	75	10	4	0,080	○	139,-
KKH1204	12	30	75	12	4	0,110	○	173,-
KKH1604	16	40	110	16	4	0,280	○	400,50
KKH2004	20	45	110	20	4	0,400	○	636,50
KKH2504	25	50	110	25	4	0,670	○	842,-

Application: Recommend Suitable Not Recommend

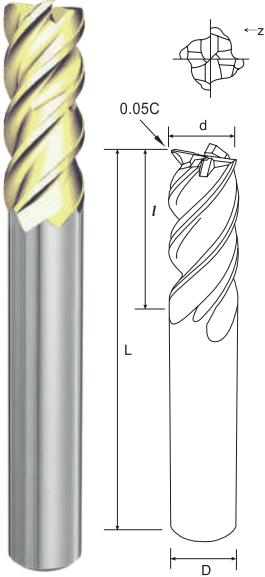
Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	-	-

KKM MULTI FLUTES HIGH EFFICIENCY

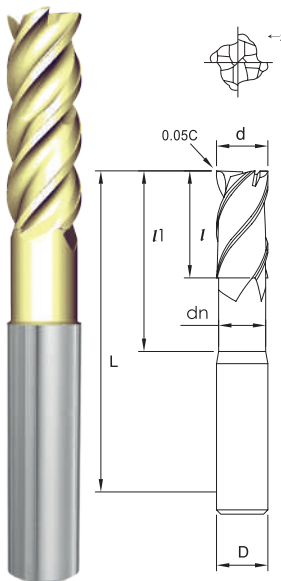
- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm

400 PLUS

HRC > 45



PVE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Corner Chamfer Width	KG	STOCK	€
	d	l	L	D	Z	C			
PVE1T0404	4	8	50	6	4	0.2	0,021	○	40,-
PVE1T0504	5	10	50	6	4	0.25	0,021	○	40,-
PVE1T0604	6	12	50	6	4	0.3	0,021	○	40,-
PVE1T0804	8	19	60	8	4	0.4	0,047	○	54,50
PVE1T1004	10	23	75	10	4	0.5	0,090	○	86,-
PVE1T1204	12	27	75	12	4	0.6	0,118	○	113,50
PVE1T1604	16	32	100	16	4	0.8	0,270	○	269,-
PVE1T2004	20	39	100	20	4	1	0,390	○	410,-



PNVE	Diameter	Flute Length	Efficient Leng	Full Length	Shank Diameter	Flutes	Corner Chamfer Width	Neck Diameter	KG	STOCK	€
	d	l	l1	L	D	Z	C	dn			
PNVE1T0404	4	6	22	75	6	4	0.2	3.7	0,026	○	59,50
PNVE1T0504	5	8	24	75	6	4	0.25	4.6	0,026	○	59,50
PNVE1T0604	6	9	26	75	6	4	0.3	5.5	0,026	○	59,50
PNVE1T0804	8	12	35	100	8	4	0.4	7.4	0,073	○	79,-
PNVE1T1004	10	15	43	120	10	4	0.5	9.2	0,140	○	121,-
PNVE1T1204	12	18	51	120	12	4	0.6	11	0,240	○	156,-
PNVE1T1604	16	24	59	120	16	4	0.8	15	0,360	○	284,50

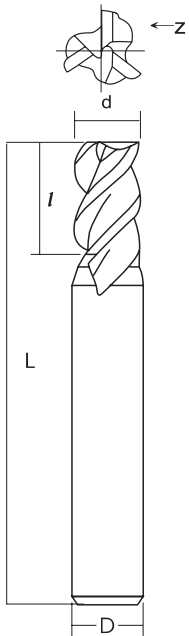
Application: Recommend Suitable Not Recommend

<30HRC	Pre-harden steel 30-40HRC	High-hardened 40-50HRC	High-hardened 50-65HRC	carbon steel, Alloy steel	Stainless steel	Titanium alloy	Nickel/ Inconel alloy	Copper alloy	Aluminum alloy
-	■	□	-	-	-	■	■	-	-

MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

HPSS SUPER PLUGGING+SLOTING

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



HPSS	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
HPSS0200	2	4	50	6	3	0,020	○	69,-
HPSS0250	2.5	5	50	6	3	0,020	○	69,-
HPSS0300	3	6	50	6	3	0,020	○	71,50
HPSS0350	3.5	8	50	6	3	0,020	○	71,50
HPSS0400	4	8	50	6	3	0,020	○	74,50
HPSS0450	4.5	10	50	6	3	0,020	○	75,50
HPSS0500	5	10	50	6	3	0,020	○	80,50
HPSS0550	5.5	13	50	6	3	0,020	○	75,50
HPSS0600	6	13	60	6	3	0,020	○	80,50
HPSS0650	6.5	16	60	8	3	0,020	○	124,-
HPSS0700	7	16	60	8	3	0,040	○	106,-
HPSS0750	7.5	16	60	8	3	0,040	○	120,50
HPSS0800	8	19	60	8	3	0,040	○	106,-
HPSS0850	8.5	19	75	10	3	0,080	○	135,50
HPSS0900	9	19	75	10	3	0,080	○	135,50
HPSS0950	9.5	19	75	10	3	0,080	○	154,50
HPSS1000	10	22	75	10	3	0,090	○	149,50
HPSS1100	11	22	75	12	3	0,110	○	185,-
HPSS1200	12	26	100	12	3	0,150	○	187,50
HPSS1300	13	26	100	14	3	0,180	○	249,50
HPSS1400	14	26	100	14	3	0,200	○	222,50
HPSS1500	15	26	100	16	3	0,230	○	430,50
HPSS1600	16	30	100	16	3	0,260	○	408,-
HPSS2000	20	32	100	20	3	0,380	○	565,-

Application: Recommend Suitable Not Recommend

Carbon steel Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
■	■	□	-	-	-	-	-	-

FHPS 4 FLUTES • SHORT – (HEAVY- DUTY OPERATION TYPE)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41Jm



FHPS	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
FHPS020	2	3	50	6	4	0,020	●	69,-
FHPS021	2.1	3.2	50	6	4	0,020	●	69,-
FHPS022	2.2	3.3	50	6	4	0,020	●	69,-
FHPS023	2.3	3.5	50	6	4	0,020	●	69,-
FHPS024	2.4	3.6	50	6	4	0,020	●	69,-
FHPS025	2.5	3.8	50	6	4	0,020	●	69,-
FHPS026	2.6	3.9	50	6	4	0,020	●	69,-
FHPS027	2.7	4.1	50	6	4	0,020	●	69,-
FHPS028	2.8	4.2	50	6	4	0,020	●	69,-
FHPS029	2.9	4.4	50	6	4	0,020	●	69,-
FHPS030	3	4.5	50	6	4	0,020	●	69,-
FHPS031	3.1	4.7	50	6	4	0,020	●	71,50
FHPS032	3.2	4.8	50	6	4	0,020	●	71,50
FHPS033	3.3	5	50	6	4	0,020	●	71,50
FHPS034	3.4	5.1	50	6	4	0,020	●	71,50
FHPS035	3.5	5.3	50	6	4	0,020	●	71,50
FHPS036	3.6	5.4	50	6	4	0,020	●	71,50
FHPS037	3.7	5.6	50	6	4	0,020	●	71,50
FHPS038	3.8	5.7	50	6	4	0,020	●	71,50
FHPS039	3.9	5.9	50	6	4	0,020	●	71,50
FHPS040	4	6	50	6	4	0,020	●	71,50
FHPS041	4.1	6.2	50	6	4	0,020	●	75,50
FHPS042	4.2	6.3	50	6	4	0,020	●	75,50
FHPS043	4.3	6.5	50	6	4	0,020	●	75,50
FHPS044	4.4	6.6	50	6	4	0,020	●	75,50
FHPS045	4.5	6.8	50	6	4	0,020	●	75,50
FHPS046	4.6	6.9	50	6	4	0,020	●	75,50
FHPS047	4.7	7.1	50	6	4	0,020	●	75,50
FHPS048	4.8	7.2	50	6	4	0,020	●	75,50
FHPS049	4.9	7.4	50	6	4	0,020	●	75,50
FHPS050	5	7.5	50	6	4	0,020	●	75,50
FHPS051	5.1	7.7	50	6	4	0,020	●	80,50
FHPS052	5.2	7.8	50	6	4	0,020	●	80,50
FHPS053	5.3	8	50	6	4	0,020	●	80,50
FHPS054	5.4	8.1	50	6	4	0,020	●	80,50
FHPS055	5.5	8.3	50	6	4	0,020	●	80,50

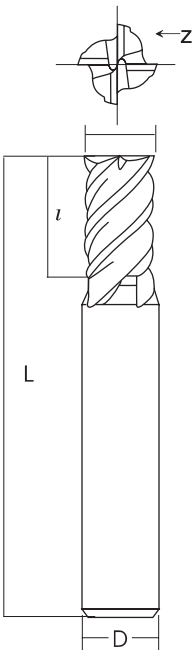
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□	-	-	-	-

MILLING
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SLIM CHUCK
INSERTS
SPEED TIGER

HPSS SUPER PLUGGING+SLOTTING

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 μm



FHPS	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
FHPS056	5.6	8.4	50	6	4	0,020	●	80,50
FHPS057	5.7	8.6	50	6	4	0,020	●	80,50
FHPS058	5.8	8.7	50	6	4	0,020	●	80,50
FHPS059	5.9	8.9	50	6	4	0,020	●	80,50
FHPS060	6	9	50	6	4	0,020	●	80,50
FHPS061	6.1	9.2	60	8	4	0,040	●	117,-
FHPS062	6.2	9.3	60	8	4	0,040	●	117,-
FHPS063	6.3	9.5	60	8	4	0,040	●	117,-
FHPS064	6.4	9.6	60	8	4	0,040	●	117,-
FHPS065	6.5	9.8	60	8	4	0,040	●	117,-
FHPS066	6.6	9.9	60	8	4	0,040	●	117,-
FHPS067	6.7	10.1	60	8	4	0,040	●	117,-
FHPS068	6.8	10.2	60	8	4	0,040	●	117,-
FHPS069	6.9	10.4	60	8	4	0,040	●	117,-
FHPS070	7	10.5	60	8	4	0,040	●	117,-
FHPS071	7.1	10.7	60	8	4	0,040	●	127,-
FHPS072	7.2	10.8	60	8	4	0,040	●	127,-
FHPS073	7.3	11	60	8	4	0,040	●	127,-
FHPS074	7.4	11.1	60	8	4	0,040	●	127,-
FHPS075	7.5	11.3	60	8	4	0,040	●	127,-
FHPS076	7.6	11.4	60	8	4	0,040	●	127,-
FHPS077	7.7	11.6	60	8	4	0,040	●	127,-
FHPS078	7.8	11.7	60	8	4	0,040	●	127,-
FHPS079	7.9	11.9	60	8	4	0,040	●	127,-
FHPS080	8	12	60	8	4	0,040	●	127,-
FHPS081	8.1	12.2	75	10	4	0,080	●	146,50
FHPS082	8.2	12.3	75	10	4	0,080	●	146,50
FHPS083	8.3	12.5	75	10	4	0,080	●	146,50
FHPS084	8.4	12.6	75	10	4	0,080	●	146,50
FHPS085	8.5	12.8	75	10	4	0,080	●	146,50
FHPS086	8.6	12.9	75	10	4	0,080	●	146,50
FHPS087	8.7	13.1	75	10	4	0,080	●	146,50
FHPS088	8.8	13.2	75	10	4	0,080	●	146,50
FHPS089	8.9	13.4	75	10	4	0,080	●	146,50
FHPS090	9	13.5	75	10	4	0,080	●	146,50
FHPS091	9.1	13.7	75	10	4	0,080	●	173,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□	-	-	-	-

FHPS 4 FLUTES • SHORT – (HEAVY- DUTY OPERATION TYPE)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm



FHPS	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
FHPS092	9.2	13.8	75	10	4	0,080	●	173,-
FHPS093	9.3	14	75	10	4	0,080	●	173,-
FHPS094	9.4	14.1	75	10	4	0,080	●	173,-
FHPS095	9.5	14.3	75	10	4	0,080	●	173,-
FHPS096	9.6	14.4	75	10	4	0,080	●	173,-
FHPS097	9.7	14.6	75	10	4	0,080	●	173,-
FHPS098	9.8	14.7	75	10	4	0,090	●	173,-
FHPS099	9.9	14.9	75	10	4	0,090	●	173,-
FHPS100	10	15	75	10	4	0,100	●	173,-
FHPS105	10.5	15.8	100	12	4	0,120	●	198,-
FHPS110	11	16.5	100	12	4	0,150	●	198,-
FHPS115	11.5	17.3	100	12	4	0,160	●	198,-
FHPS120	12	18	100	12	4	0,160	●	198,-
FHPS125	12.5	18.8	100	14	4	0,180	●	229,50
FHPS130	13	19.5	100	14	4	0,200	●	229,50
FHPS135	13.5	20.3	100	14	4	0,250	●	229,50
FHPS140	14	21	100	14	4	0,260	●	229,50
FHPS145	14.5	21.8	100	16	4	0,280	●	425,50
FHPS150	15	22.5	100	16	4	0,280	●	425,50
FHPS155	15.5	23.3	100	16	4	0,290	●	425,50
FHPS160	16	24	100	16	4	0,290	●	425,50
FHPS170	17	25.5	100	20	4	0,310	●	530,-
FHPS180	18	27	100	20	4	0,330	●	530,-
FHPS190	19	28.5	100	20	4	0,350	●	530,-
FHPS200	20	30	100	20	4	0,370	●	530,-

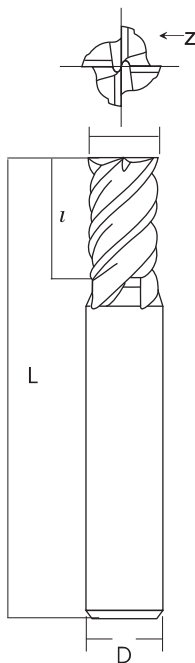
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□	-	-	-	-

MILLING
MINIMILL
MOULDMILL
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AMS
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YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

UMG - CR- FHP 4 FLUTES • SHORT WITH CORNER – RADIUS (HEAVY- DUTY OPERATION TYPE)

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.41µm



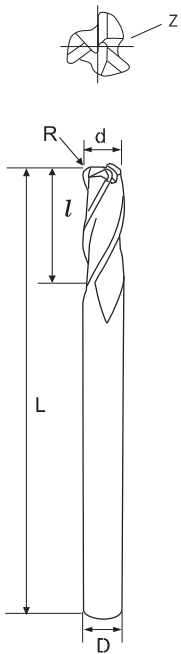
CRFHP	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	R	l	L	D	Z			
CRFHP0302	3	0.2	8	60	6	4	0,020	●	93,50
CRFHP0305	3	0.5	8	60	6	4	0,020	●	93,50
CRFHP0402	4	0.2	11	60	6	4	0,020	●	96,-
CRFHP0405	4	0.5	11	60	6	4	0,020	●	96,-
CRFHP0410	4	1	11	60	6	4	0,020	●	96,-
CRFHP0502	5	0.2	13	60	6	4	0,020	●	100,50
CRFHP0505	5	0.5	13	60	6	4	0,020	●	100,50
CRFHP0510	5	1	13	60	6	4	0,020	●	100,50
CRFHP0603	6	0.3	13	60	6	4	0,020	●	103,50
CRFHP0605	6	0.5	13	60	6	4	0,020	●	103,50
CRFHP0610	6	1	13	60	6	4	0,020	●	103,50
CRFHP0803	8	0.3	19	60	8	4	0,040	●	125,-
CRFHP0805	8	0.5	19	60	8	4	0,050	●	125,-
CRFHP0810	8	1	19	60	8	4	0,040	●	125,-
CRFHP0815	8	1.5	19	60	8	4	0,040	●	125,-
CRFHP0820	8	2	19	60	8	4	0,040	●	125,-
CRFHP1003	10	0.3	22	75	10	4	0,090	●	165,-
CRFHP1005	10	0.5	22	75	10	4	0,080	●	165,-
CRFHP1010	10	1	22	75	10	4	0,090	●	165,-
CRFHP1015	10	1.5	22	75	10	4	0,080	●	165,-
CRFHP1020	10	2	22	75	10	4	0,080	●	165,-
CRFHP1030	10	3	22	75	10	4	0,080	●	165,-
CRFHP1205	12	0.5	26	100	12	4	0,160	●	201,50
CRFHP1210	12	1	26	100	12	4	0,150	●	201,50
CRFHP1215	12	1.5	26	100	12	4	0,150	●	201,50
CRFHP1220	12	2	26	100	12	4	0,160	●	201,50
CRFHP1230	12	3	26	100	12	4	0,160	●	201,50
CRFHP1610	16	1	35	100	16	4	0,170	●	412,-
CRFHP1615	16	1.5	35	100	16	4	0,200	●	412,-
CRFHP1620	16	2	35	100	16	4	0,290	●	412,-
CRFHP1630	16	3	35	100	16	4	0,290	●	412,-
CRFHP2010	20	1	40	100	20	4	0,330	●	582,-
CRFHP2015	20	1.5	40	100	20	4	0,360	●	582,-
CRFHP2020	20	2	40	100	20	4	0,390	●	582,-
CRFHP2030	20	3	40	100	20	4	0,410	●	582,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
■	■	■	□	□	-	-	-	-

CORNER RADIUS SERIES - 3 FLUTES

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5 m



SURTA		Diameter	Radius of Ball Nose	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
		d	R	l	L	D	Z			
SURTA0200203	TiSiN	2	0.2	6	50	4	3	0,010	○	54,-
SURTA0200253	TiSiN	2	0.25	6	50	4	3	0,010	○	54,-
SURTA0200303	TiSiN	2	0.3	6	50	4	3	0,010	○	54,-
SURTA0200503	TiSiN	2	0.5	6	50	4	3	0,010	○	54,-
SURTA0300203	TiSiN	3	0.2	10	50	3	3	0,010	○	54,-
SURTA0300303	TiSiN	3	0.3	10	50	3	3	0,010	○	54,-
SURTA0300503	TiSiN	3	0.5	10	50	3	3	0,010	○	54,-
SURTA0301003	TiSiN	3	1	10	50	3	3	0,010	○	54,-
SURTA4300203	TiSiN	3	0.2	10	50	4	3	0,110	○	54,-
SURTA4300253	TiSiN	3	0.25	10	50	4	3	0,110	○	54,-
SURTA4300303	TiSiN	3	0.3	10	50	4	3	0,110	○	54,-
SURTA4300503	TiSiN	3	0.5	10	50	4	3	0,110	○	54,-
SURTA4300753	TiSiN	3	0.75	10	50	4	3	0,110	○	54,-
SURTA4301003	TiSiN	3	1	10	50	4	3	0,110	○	54,-
SURTA0400203	TiSiN	4	0.2	13	60	4	3	0,010	○	54,-
SURTA0400253	TiSiN	4	0.25	13	60	4	3	0,010	○	54,-
SURTA0400303	TiSiN	4	0.3	13	60	4	3	0,010	○	54,-
SURTA0400503	TiSiN	4	0.5	13	60	4	3	0,020	○	54,-
SURTA0400753	TiSiN	4	0.75	13	60	4	3	0,020	○	54,-
SURTA0401003	TiSiN	4	1	13	60	4	3	0,020	○	67,50
SURTA0500203	TiSiN	5	0.2	15	60	5	3	0,020	○	67,50
SURTA0500253	TiSiN	5	0.25	15	60	5	3	0,020	○	67,50
SURTA0500303	TiSiN	5	0.3	15	60	5	3	0,020	○	67,50
SURTA0500503	TiSiN	5	0.5	15	60	5	3	0,020	○	67,50
SURTA0500753	TiSiN	5	0.75	15	60	5	3	0,020	○	67,50
SURTA0501003	TiSiN	5	1	15	60	5	3	0,030	○	67,50
SURTA0600203	TiSiN	6	0.2	16	70	6	3	0,030	○	71,50
SURTA0600253	TiSiN	6	0.25	16	70	6	3	0,030	○	71,50
SURTA0600303	TiSiN	6	0.3	16	70	6	3	0,030	○	71,50

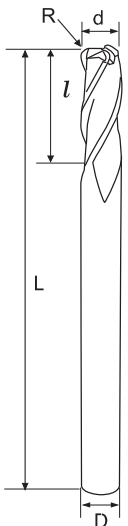
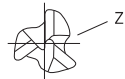
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	High-hardened ~50HRC	High-hardened ~55HRC	High-hardened ~60HRC	High-hardened ~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

CORNER RADIUS SERIES - 3 FLUTES

- Micro Grain Carbide
- WC=88 Co=12 HRA=92. 4 Rupture= 3950N/mm² Grain Size=0 .5 m



SURTA		Diameter	Radius of Ball Nose	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
		d	R	l	L	D	Z			
SURTA0600503	TiSiN	6	0.5	16	70	6	3	0,030	○	71,50
SURTA0600753	TiSiN	6	0.75	16	70	6	3	0,030	○	71,50
SURTA0601003	TiSiN	6	1	16	70	6	3	0,030	○	71,50
SURTA0601253	TiSiN	6	1.25	16	70	6	3	0,030	○	71,50
SURTA0601503	TiSiN	6	1.5	16	70	6	3	0,050	○	71,50
SURTA0800253	TiSiN	8	0.25	23	70	8	3	0,050	○	95,-
SURTA0800303	TiSiN	8	0.3	23	70	8	3	0,050	○	95,-
SURTA0800503	TiSiN	8	0.5	23	70	8	3	0,050	○	95,-
SURTA0800753	TiSiN	8	0.75	23	70	8	3	0,050	○	95,-
SURTA0801003	TiSiN	8	1	23	70	8	3	0,050	○	95,-
SURTA0801253	TiSiN	8	1.25	23	70	8	3	0,050	○	95,-
SURTA0801503	TiSiN	8	1.5	23	70	8	3	0,090	○	95,-
SURTA0802003	TiSiN	8	2	23	70	8	3	0,090	○	95,-
SURTA1000253	TiSiN	10	0.25	25	80	10	3	0,090	○	118,50
SURTA1000303	TiSiN	10	0.3	25	80	10	3	0,090	○	118,50
SURTA1000503	TiSiN	10	0.5	25	80	10	3	0,090	○	118,50
SURTA1000753	TiSiN	10	0.75	25	80	10	3	0,090	○	118,50
SURTA1001003	TiSiN	10	1	25	80	10	3	0,090	○	118,50
SURTA1001253	TiSiN	10	1.25	25	80	10	3	0,090	○	118,50
SURTA1001503	TiSiN	10	1.5	25	80	10	3	0,110	○	118,50
SURTA1002003	TiSiN	10	2	25	80	10	3	0,110	○	118,50
SURTA1002503	TiSiN	10	2.5	25	80	10	3	0,110	○	118,50
SURTA1200303	TiSiN	12	0.3	30	80	12	3	0,110	○	162,-
SURTA1200503	TiSiN	12	0.5	30	80	12	3	0,110	○	162,-
SURTA1201003	TiSiN	12	1	30	80	12	3	0,110	○	162,-
SURTA1201253	TiSiN	12	1.25	30	80	12	3	0,110	○	162,-
SURTA1201503	TiSiN	12	1.5	30	80	12	3	0,110	○	162,-
SURTA1202003	TiSiN	12	2	30	80	12	3	0,110	○	162,-
SURTA1202503	TiSiN	12	2.5	30	80	12	3	0,110	○	162,-
SURTA1203003	TiSiN	12	3	30	80	12	3	0,110	○	162,-

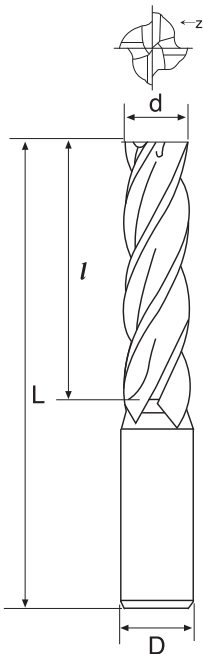
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Micro Grain Carbide
- WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5 m



SUS	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
SUS0104	1	3	50	4	4	0,020	○	30,-
SUS0154	1.5	4	50	4	4	0,020	○	30,-
SUS0204	2	6	50	4	4	0,040	○	30,-
SUS0254	2.5	8	50	4	4	0,040	○	30,-
SUS0304	3	9	50	4	4	0,080	○	30,-
SUS6304	3	9	50	6	4	0,600	○	62,50
SUS0404	4	11	50	4	4	0,080	○	30,-
SUS6404	4	11	50	6	4	0,600	○	99,50
SUS0504	5	13	50	6	4	0,110	○	37,50
SUS0604	6	16	50	6	4	0,110	○	37,50
SUS0804	8	20	60	8	4	0,280	○	63,50
SUS1004	10	30	75	10	4	0,400	○	86,-
SUS1204	12	32	75	12	4	0,400	○	125,-

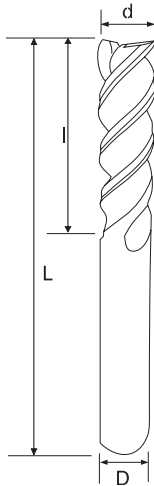


Application: Recommend Suitable Not Recommend

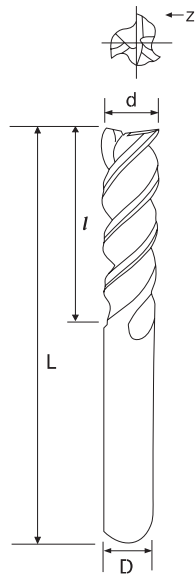
Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input type="checkbox"/>	-	-	-	-	<input checked="" type="checkbox"/>	-	-

U-TYPE ALUMINUM

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6µm



AUE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
AUE0253	2.5	8	50	6	3	0,020	○	30,-
AUE0303	3	9	50	6	3	0,020	○	30,-
AUE0403	4	12	50	6	3	0,020	○	30,-
AUE0503	5	15	50	6	3	0,020	○	30,-
AUE0603	6	18	50	6	3	0,020	○	30,-
AUE0803	8	20	60	8	3	0,050	○	61,50
AUE1003	10	30	75	10	3	0,090	○	90,-
AUE1203	12	32	75	12	3	0,130	○	121,50
AUE1603	16	45	100	16	3	0,300	○	281,-
AUE2003	20	45	100	20	3	0,400	○	434,50
AUEL0603	6	30	75	6	3	0,020	○	44,-
AUEL0803	8	40	100	8	3	0,050	○	92,-
AUEL1003	10	42	100	10	3	0,090	○	134,50
AUEL1203	12	52	100	12	3	0,180	○	180,-



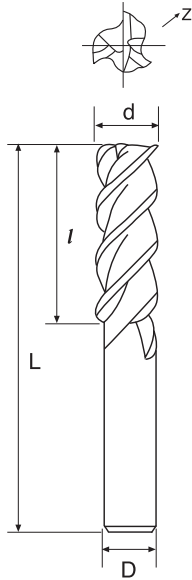
S-AUE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
S-AUE0603 TB	6	10	50	6	3	0,021	○	56,50
S-AUE0803 TB	8	13	60	8	3	0,047	○	95,50
S-AUE1003 TB	10	16	75	10	3	0,090	○	133,50
S-AUE1203 TB	12	19	75	12	3	0,118	○	172,50

Application: Recommend Suitable Not Recommend

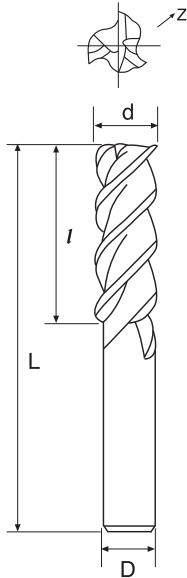
Carbon steel Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
-	-	-	-	-	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SQUARE SERIES - FOR ALUMINUM - 3 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



AET	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
AET0103 TB	1	3	50	4	3	0,020	●	70,50
AET0123 TB	1.2	4	50	4	3	0,020	●	80,50
AET0153 TB	1.5	4	50	4	3	0,020	●	80,50
AET0183 TB	1.8	5	50	4	3	0,020	●	80,50
AET0203 TB	2	6	50	4	3	0,020	●	70,50
AET0303 TB	3	8	50	6	3	0,020	●	70,50
AET0403 TB	4	10	50	6	3	0,020	●	70,50
AET0503 TB	5	13	50	6	3	0,020	●	70,50
AET0603 TB	6	15	50	6	3	0,020	●	70,50
AET0803 TB	8	20	60	8	3	0,060	●	118,50
AET1003 TB	10	25	75	10	3	0,080	●	168,-
AET1203 TB	12	30	75	12	3	0,080	●	203,50
AET1603 TB	16	42	100	16	3	0,100	●	362,-
AET2003 TB	20	52	100	20	3	0,120	●	609,-
AET2503 TB	25	62	125	25	3	0,150	●	1107,-



AEL	Diameter	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	l	L	D	Z			
AEL50303 TB	3	12	60	6	3	0,020	○	78,-
AEL50403 TB	4	16	60	6	3	0,020	○	78,-
AEL50503 TB	5	20	60	6	3	0,020	○	78,-
AEL50603 TB	6	25	75	6	3	0,040	○	90,-
AEL50803 TB	8	32	75	8	3	0,080	○	139,-
AEL51003 TB	10	45	100	10	3	0,110	○	198,-
AEL51203 TB	12	45	100	12	3	0,260	○	243,50
AEL51603 TB	16	65	150	16	3	0,360	○	642,50
AEL52003 TB	20	75	150	20	3	0,670	○	830,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC ~60HRC ~65HRC			Stainless steel	Copper alloy	Aluminum alloy
-	-	-	-	-	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Disponibile - Lieferbar - On stock
- A richiesta - Auf Anfrage - On request

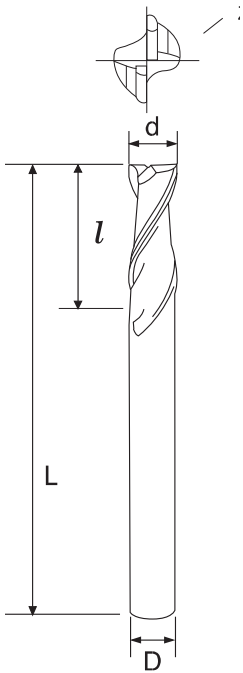
MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

SQUARE SERIES - FOR ALUMINUM - 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.611m



AET	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
AET0052 TB	0.5	1.5	50	4	2	0,020	○	80,50
AET0062 TB	0.6	1.5	50	4	2	0,020	○	80,50
AET0082 TB	0.8	2	50	4	2	0,020	○	80,50
AET0102 TB	1	3	50	6	2	0,020	○	70,50
AET0122 TB	1.2	4	50	6	2	0,020	○	80,50
AET0152 TB	1.5	4	50	6	2	0,020	○	80,50
AET0182 TB	1.8	5	50	6	2	0,020	○	80,50
AET0202 TB	2	6	50	6	2	0,020	○	70,50
AET0302 TB	3	8	50	6	2	0,020	○	70,50
AET0402 TB	4	10	50	6	2	0,020	○	70,50
AET0502 TB	5	13	50	6	2	0,020	○	70,50
AET0602 TB	6	15	50	6	2	0,020	○	70,50
AET0802 TB	8	20	60	8	2	0,040	○	118,50
AET1002 TB	10	25	75	10	2	0,080	○	168,-
AET1202 TB	12	30	75	12	2	0,110	○	203,50
AET1602 TB	16	42	100	16	2	0,260	○	362,-
AET2002 TB	20	52	100	20	2	0,360	○	609,-
AET2502 TB	25	62	125	25	2	0,670	○	1107,-

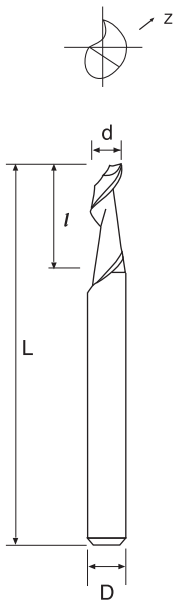


Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
-	-	-	-	-	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SQUARE SERIES - FOR WOOD & PLASTIC & ALUMINUM -1 FLUTE

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



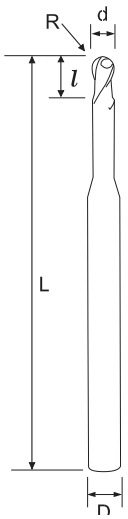
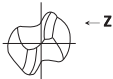
AP	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flutes Z	KG	STOCK	€
AP0100	1	4	50	3	1	0,010	○	74,50
AP0150	1.5	6	50	3	1	0,010	○	74,50
AP0200	2	8	50	2	1	0,010	○	74,50
AP0201	2	8	60	2	1	0,010	○	74,50
AP0202	2	8	50	3	1	0,010	○	74,50
AP0250	2.5	8	50	3	1	0,010	○	74,50
AP0251	2.5	8	60	3	1	0,010	○	82,-
AP0300	3	10	50	3	1	0,010	○	74,50
AP0301	3	10	60	3	1	0,010	○	82,-
AP0302	3	10	80	6	1	0,030	○	92,-
AP0310	3.17	12.7	60	6.35	1	0,030	○	139,-
AP0400	4	12	60	4	1	0,020	○	74,50
AP0401	4	20	70	4	1	0,020	○	82,-
AP0402	4	30	80	4	1	0,020	○	90,-
AP0403	4	12	60	6	1	0,030	○	92,-
AP0470	4.765	15.9	70	6.35	1	0,040	○	139,-
AP0500	5	16	70	5	1	0,040	○	92,-
AP0501	5	30	80	5	1	0,040	○	99,50
AP0600	6	16	60	6	1	0,030	○	99,50
AP0601	6	25	75	6	1	0,030	○	99,50
AP0602	6	30	75	6	1	0,030	○	112,-
AP0604	6	38	100	6	1	0,050	○	105,-
AP0630	6.35	15.8	70	6.35	1	0,040	○	139,-
AP0800	8	22	75	8	1	0,060	○	139,-
AP0801	8	38	100	8	1	0,080	○	146,50
AP1000	10	30	80	10	1	0,100	○	181,50
AP1200	12	30	100	12	1	0,170	○	213,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>

BALL NOSE - LONG NECK - 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



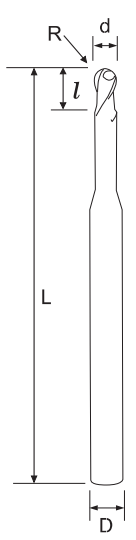
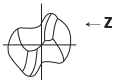
LNBT	Diameter	Radius of Ball Nose	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	R	l	L1	L	D	Z			
LNBT05022 AlTiN	0.5	0.25	0.75	2	50	4	2	0,010	●	60,50
LNBT05042 AlTiN	0.5	0.25	0.75	4	50	4	2	0,010	●	60,50
LNBT05062 AlTiN	0.5	0.25	0.75	6	50	4	2	0,010	●	60,50
LNBT06022 AlTiN	0.6	0.3	0.9	2	50	4	2	0,010	●	57,-
LNBT06042 AlTiN	0.6	0.3	0.9	4	50	4	2	0,010	●	57,-
LNBT06062 AlTiN	0.6	0.3	0.9	6	50	4	2	0,010	●	57,-
LNBT08042 AlTiN	0.8	0.4	1.2	4	50	4	2	0,010	●	57,-
LNBT08062 AlTiN	0.8	0.4	1.2	6	50	4	2	0,010	●	57,-
LNBT08082 AlTiN	0.8	0.4	1.2	8	50	4	2	0,010	●	57,-
LNBT10062 AlTiN	1	0.5	1.5	6	50	4	2	0,010	●	42,50
LNBT10082 AlTiN	1	0.5	1	8	50	4	2	0,010	●	42,50
LNBT10102 AlTiN	1	0.5	1.5	10	50	4	2	0,010	●	42,50
LNBT10122 AlTiN	1	0.5	1.5	12	50	4	2	0,010	●	42,50
LNBT12062 AlTiN	1.2	0.6	1.8	6	50	4	2	0,010	●	55,-
LNBT12082 AlTiN	1.2	0.6	1.8	8	50	4	2	0,010	●	55,-
LNBT12102 AlTiN	1.2	0.6	1.8	10	50	4	2	0,010	●	55,-
LNBT12122 AlTiN	1.2	0.6	1.8	12	50	4	2	0,010	●	55,-
LNBT14062 AlTiN	1.4	0.7	2.1	6	50	4	2	0,010	●	55,-
LNBT14102 AlTiN	1.4	0.7	2.1	10	50	4	2	0,010	●	55,-
LNBT14162 AlTiN	1.4	0.7	2.1	16	50	4	2	0,010	●	55,-
LNBT15062 AlTiN	1.5	0.75	2.3	6	50	4	2	0,010	●	42,50
LNBT15082 AlTiN	1.5	0.75	2.3	8	50	4	2	0,010	●	42,50
LNBT15102 AlTiN	1.5	0.75	2.3	10	50	4	2	0,010	●	42,50
LNBT15122 AlTiN	1.5	0.75	2.3	12	50	4	2	0,010	●	42,50
LNBT15142 AlTiN	1.5	0.75	2.3	14	50	4	2	0,010	●	42,50
LNBT15162 AlTiN	1.5	0.75	2.3	16	50	4	2	0,010	●	42,50
LNBT15182 AlTiN	1.5	0.75	2.3	18	50	4	2	0,010	●	42,50
LNBT15202 AlTiN	1.5	0.75	2.3	20	50	4	2	0,010	●	42,50
LNBT16062 AlTiN	1.6	0.8	2.4	6	50	4	2	0,010	●	55,-
LNBT16082 AlTiN	1.6	0.8	2.4	8	50	4	2	0,010	●	55,-

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

BALL NOSE - LONG NECK - 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



LNBT	Diameter	Radius of Ball Nose	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	R	l	L1	L	D	Z			
LNBT16102 AlTiN	1.6	0.8	2.4	10	50	4	2	0,010	●	55,-
LNBT16122 AlTiN	1.6	0.8	2.4	12	50	4	2	0,010	●	55,-
LNBT16142 AlTiN	1.6	0.8	2.4	14	50	4	2	0,010	●	55,-
LNBT16162 AlTiN	1.6	0.8	2.4	16	50	4	2	0,010	●	55,-
LNBT16182 AlTiN	1.6	0.8	2.4	18	50	4	2	0,010	●	55,-
LNBT16202 AlTiN	1.6	0.8	2.4	20	50	4	2	0,010	●	55,-
LNBT18082 AlTiN	1.8	0.9	2.7	8	50	4	2	0,010	●	55,-
LNBT18142 AlTiN	1.8	0.9	2.7	14	50	4	2	0,010	●	55,-
LNBT18202 AlTiN	1.8	0.9	2.7	20	50	4	2	0,010	●	55,-
LNBT20082 AlTiN	2	1	3	8	50	4	2	0,010	●	42,50
LNBT20102 AlTiN	2	1	3	10	50	4	2	0,010	●	42,50
LNBT20122 AlTiN	2	1	3	12	50	4	2	0,010	●	42,50
LNBT20142 AlTiN	2	1	3	14	50	4	2	0,010	●	42,50
LNBT20162 AlTiN	2	1	3	16	50	4	2	0,010	●	42,50
LNBT20182 AlTiN	2	1	3	18	50	4	2	0,010	●	42,50
LNBT20202 AlTiN	2	1	3	20	50	4	2	0,010	●	42,50
LNBT25082 AlTiN	2.5	1.25	4	8	50	4	2	0,010	●	42,50
LNBT25122 AlTiN	2.5	1.25	4	12	50	4	2	0,010	●	42,50
LNBT25162 AlTiN	2.5	1.25	4	16	50	4	2	0,010	●	42,50
LNBT25202 AlTiN	2.5	1.25	4	20	50	4	2	0,010	●	42,50
LNBT30102 AlTiN	3	1.5	4.5	10	50	6	2	0,010	●	50,-
LNBT30122 AlTiN	3	1.5	4.5	12	50	6	2	0,010	●	50,-
LNBT30162 AlTiN	3	1.5	4.5	16	60	6	2	0,020	●	54,-
LNBT30202 AlTiN	3	1.5	4.5	20	60	6	2	0,020	●	54,-
LNBT30252 AlTiN	3	1.5	4.5	25	75	6	2	0,020	●	60,50
LNBT40122 AlTiN	4	2	6	12	50	6	2	0,020	●	50,-
LNBT40162 AlTiN	4	2	6	16	60	6	2	0,020	●	54,-
LNBT40202 AlTiN	4	2	6	20	75	6	2	0,020	●	60,50
LNBT40252 AlTiN	4	2	6	25	75	6	2	0,020	●	60,50
LNBT40302 AlTiN	4	2	6	30	75	6	2	0,020	●	60,50

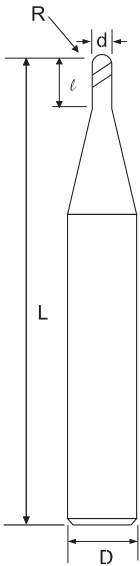
Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC ~60HRC ~65HRC			Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	-

MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

MINIATURE BALL NOSE - 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m



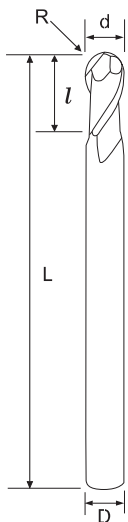
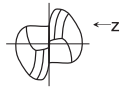
MIB	d	R	l	L	D	Z	KG	STOCK	€
MIB0032 AlTiN	0.3	0.15	0.6	50	4	2	0,010	○	69,-
MIB0042 AlTiN	0.4	0.2	0.8	50	4	2	0,010	○	62,50
MIB0052 AlTiN	0.5	0.25	1	50	4	2	0,020	○	45,50
MIB0062 AlTiN	0.6	0.3	1.2	50	4	2	0,020	○	45,50
MIB0072 AlTiN	0.7	0.35	1.4	50	4	2	0,020	○	45,50
MIB0082 AlTiN	0.8	0.4	1.6	50	4	2	0,020	○	41,50
MIB0092 AlTiN	0.9	0.45	1.8	50	4	2	0,020	○	41,50
MIB0102 AlTiN	1	0.5	2	50	4	2	0,020	○	25,50
MIB0112 AlTiN	1.1	0.55	2.2	50	4	2	0,020	○	41,50
MIB0122 AlTiN	1.2	0.6	2.4	50	4	2	0,020	○	41,50
MIB0132 AlTiN	1.3	0.65	2.6	50	4	2	0,020	○	41,50
MIB0142 AlTiN	1.4	0.7	2.8	50	4	2	0,020	○	41,50
MIB0152 AlTiN	1.5	0.75	3	50	4	2	0,020	○	25,50
MIB0162 AlTiN	1.6	0.8	3.2	50	4	2	0,020	○	41,50
MIB0172 AlTiN	1.7	0.85	3.4	50	4	2	0,020	○	41,50
MIB0182 AlTiN	1.8	0.9	3.6	50	4	2	0,020	○	41,50
MIB0192 AlTiN	1.9	0.95	3.8	50	4	2	0,020	○	41,50
MIB0202 AlTiN	2	1	4	50	4	2	0,020	○	25,50
MIB0212 AlTiN	2.1	1.05	4.2	50	4	2	0,020	○	41,50
MIB0222 AlTiN	2.2	1.1	4.4	50	4	2	0,020	○	41,50
MIB0232 AlTiN	2.3	1.15	4.6	50	4	2	0,020	○	41,50
MIB0242 AlTiN	2.4	1.2	4.8	50	4	2	0,020	○	41,50
MIB0252 AlTiN	2.5	1.25	5	50	4	2	0,020	○	25,50
MIB0262 AlTiN	2.6	1.3	5.2	50	4	2	0,020	○	41,50
MIB0272 AlTiN	2.7	1.35	5.4	50	4	2	0,020	○	41,50
MIB0282 AlTiN	2.8	1.4	5.6	50	4	2	0,020	○	41,50
MIB0292 AlTiN	2.9	1.45	5.8	50	4	2	0,020	○	41,50
MIB0302 AlTiN	3	1.5	6	50	4	2	0,020	○	25,50

Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel	High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-

BALL NOSE - 2 FLUTES

- Micro Grain Carbide
- WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.61Jm



SSB MSB SB

	Diameter	Radius of Ball Nose	Flute Length	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	R	l	L	D	Z			
SSB0102 TiSiN	1	0.5	2	50	3	2	0,020	○	35,-
MSB0102 TiSiN	1	0.5	2	50	4	2	0,020	○	35,-
SSB0152 TiSiN	1.5	0.75	3	50	3	2	0,020	○	35,-
MSB0152 TiSiN	1.5	0.75	3	50	4	2	0,020	○	35,-
SSB0202 TiSiN	2	1	4	50	3	2	0,020	○	35,-
MSB0202 TiSiN	2	1	4	50	4	2	0,020	○	35,-
SSB0252 TiSiN	2.5	1.25	5	50	3	2	0,020	○	35,-
MSB0252 TiSiN	2.5	1.25	5	50	4	2	0,020	○	35,-
SSB0302 TiSiN	3	1.5	6	50	3	2	0,020	○	35,-
MSB0302 TiSiN	3	1.5	6	50	4	2	0,020	○	35,-
MSB0352 TiSiN	3.5	1.75	7	50	4	2	0,020	○	35,-
MSB0402 TiSiN	4	2	8	50	4	2	0,020	○	35,-
SB0102 TiSiN	1	0.5	2	50	6	2	0,020	●	42,50
SB0152 TiSiN	1.5	0.75	3	50	6	2	0,020	●	42,50
SB0202 TiSiN	2	1	4	50	6	2	0,020	●	42,50
SB0252 TiSiN	2.5	1.25	5	50	6	2	0,020	●	42,50
SB0302 TiSiN	3	1.5	6	50	6	2	0,020	●	42,50
SB0352 TiSiN	3.5	1.75	7	50	6	2	0,020	●	42,50
SB0402 TiSiN	4	2	8	50	6	2	0,020	●	42,50
SB0452 TiSiN	4.5	2.25	9	50	6	2	0,020	●	42,50
SB0502 TiSiN	5	2.5	10	50	6	2	0,020	●	42,50
SB0552 TiSiN	5.5	2.75	11	50	6	2	0,020	●	42,50
SB0602 TiSiN	6	3	12	50	6	2	0,040	●	42,50
SB0702 TiSiN	7	3.5	14	60	8	2	0,040	●	70,50
SB0802 TiSiN	8	4	16	60	8	2	0,080	●	70,50
SB0902 TiSiN	9	4.5	18	75	10	2	0,080	●	100,50
SB1002 TiSiN	10	5	20	75	10	2	0,080	●	100,50
SB1102 TiSiN	11	5.5	22	75	12	2	0,080	●	142,50
SB1202 TiSiN	12	6	24	75	12	2	0,100	●	142,50
SB1402 TiSiN	14	7	28	100	16	2	0,240	●	283,-
SB1602 TiSiN	16	8	32	100	16	2	0,240	●	283,-
SB1802 TiSiN	18	9	36	100	20	2	0,360	●	479,-
SB2002 TiSiN	20	10	40	100	20	2	0,390	●	479,-

Application: Recommend Suitable Not Recommend

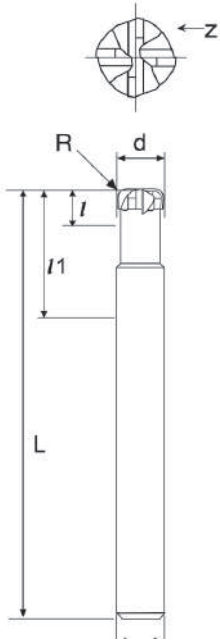
Carbon steel, Alloy steel	Pre-harden steel ~45HRC	High-hardened ~50HRC	High-hardened ~55HRC	High-hardened ~60HRC	High-hardened ~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SH SUPER HIGH SPEED HIGH HARDNESS

- Ultra Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2 μm



KCR	Diameter	Corner Radius	Flute Length	Neck Length	Neck Diameter	Full Length	Shank Diameter	Flutes	KG	STOCK	€
	d	R	l	l1	dn	L	D	Z			
KCR0203	2	0.3	0.8	5	1.8	60	6	4	0,020	○	120,50
KCR0205	2	0.5	0.8	5	1.8	60	6	4	0,020	○	120,50
KCR0307	3	0.75	1.2	7.5	2.7	60	6	4	0,020	○	120,50
KCR0310	3	1	1.2	7.5	2.7	60	6	4	0,020	○	120,50
KCR0405	4	0.5	1.6	10	3.6	75	6	4	0,030	○	128,50
KCR0410	4	1	1.6	10	3.6	75	6	4	0,030	○	128,50
KCR0510	5	1	2	12	4.5	75	6	4	0,030	○	128,50
KCR0512	5	1.2	2	12	4.5	75	6	4	0,030	○	128,50
KCR0610	6	1	2.5	13	5.4	100	6	4	0,040	○	142,50
KCR0615	6	1.5	2.5	13	5.4	100	6	4	0,040	○	142,50
KCR0810	8	1	3.5	16	7.2	100	8	4	0,080	○	173,-
KCR0820	8	2	3.5	16	7.2	100	8	4	0,080	○	173,-
KCR0920	9	2	4	18	8.2	100	10	4	0,120	○	273,-
KCR1010	10	1	4	20	9	100	10	4	0,120	○	264,-
KCR1020	10	2	4	20	9	100	10	4	0,120	○	264,-
KCR1210	12	1	5	24	11	100	12	4	0,170	○	300,-
KCR1220	12	2	5	24	11	100	12	4	0,170	○	300,-
KCR1230	12	3	5	24	11	100	12	4	0,170	○	300,-



Application: Recommend Suitable Not Recommend

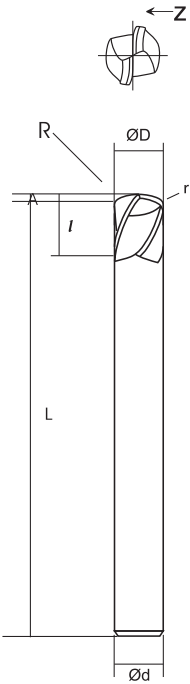
Carbon steel, Alloy steel	Pre-harden steel		High-hardened			Stainless steel	Copper alloy	Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-

BIG FOOT SUPER REMOVER

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 m



BFR	Diameter		Corner Radius		Corner	Flute Length	Full Length	Shank Diameter	KG	STOCK	€
	d	R	A	B	r	l	L	D			
BFR06050	6	5	0.66	3	2	7	60	6	0,020	○	51,-
BFR06051	6	5	0.66	3	2	7	100	6	0,050	○	73,-
BFR06060	6	6	0.66	3	1.5	7	60	6	0,020	○	51,-
BFR06061	6	6	0.66	3	1.5	7	100	6	0,040	○	73,-
BFR08080	8	8	0.88	4	2	9	60	8	0,040	○	70,50
BFR08081	8	8	0.88	4	2	9	100	10	0,080	○	102,-
BFR10100	10	10	0.9	5	3	11	75	10	0,110	○	117,-
BFR10101	10	10	0.9	5	3	11	100	12	0,120	○	128,50
BFR12120	12	12	1.6	6	3	13	75	12	0,120	○	128,50
BFR12121	12	12	1.6	6	3	13	100	12	0,180	○	149,50
BFR12150	12	15	0.91	6	3	15	75	12	0,120	○	128,50
BFR12151	12	15	0.91	6	3	15	100	12	0,150	○	149,50
BFR16160	16	16	1.77	8	4	18	150	16	0,350	○	391,50
BFR16200	16	20	1.5	8	3	22	150	16	0,400	○	391,50



Application: Recommend Suitable Not Recommend

Carbon steel, Alloy steel	Pre-harden steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminun alloy
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-

- Disponibile - Lieferbar - On stock
- A richiesta - Auf Anfrage - On request

MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS
SLIM CHUCK
INSERTS
SPEED TIGER

SUPER HIGH HARDNESS & SUPER HIGH SPEED CUTTING BALL NOSE

- Ultra Micro Grain Carbide
- WC=91 Co=9 HRA=93.2 Rupture=4000N/mm² Grain Size=0.2µm

200
Nano

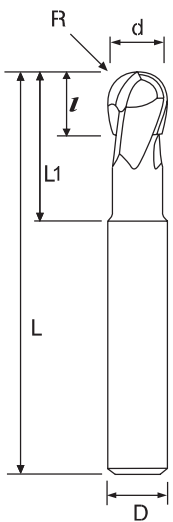
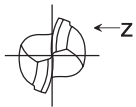
HRC
▶ 65

5°

SH



KTG	Diameter	Radius	Flute Length	Efficient Length	Neck Diameter	Full Length	Shank Diameter	kg	STOCK	€
	d	R	l	L1	dn	L	D			
KTG0102 SH	1	0.5	1	2.5	0.96	50	6	0,030	○	70,50
KTG0152 SH	1.5	0.75	1.5	4	1.46	50	6	0,030	○	70,50
KTG0202 SH	2	1	2	6	1.96	50	6	0,030	○	70,50
KTG0252 SH	2.5	1.25	2.5	7	2.46	50	6	0,030	○	70,50
KTG0302 SH	3	1.5	3	8	2.96	50	6	0,030	○	70,50
KTG4402 SH	4	2	4	8	3.96	50	4	0,020	○	55,-
KTG0402 SH	4	2	4	8	3.96	50	6	0,030	○	70,50
KTG0502 SH	5	2.5	5	12	4.96	50	6	0,030	○	70,50
KTG0602 SH	6	3	6	13	5.96	50	6	0,030	○	70,50
KTG0802 SH	8	4	8	16	7.9	60	8	0,050	○	98,50
KTG1002 SH	10	5	10	20	9.9	75	10	0,090	○	133,50
KTG1202 SH	12	6	12	24	11.9	75	12	0,120	○	205,-

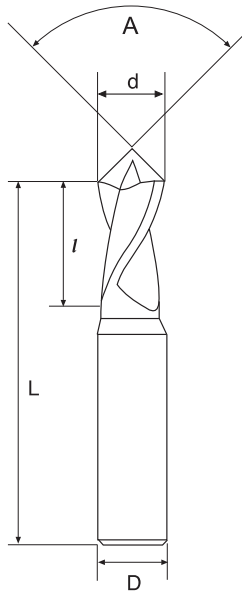


Application: Recommend Suitable Not Recommend

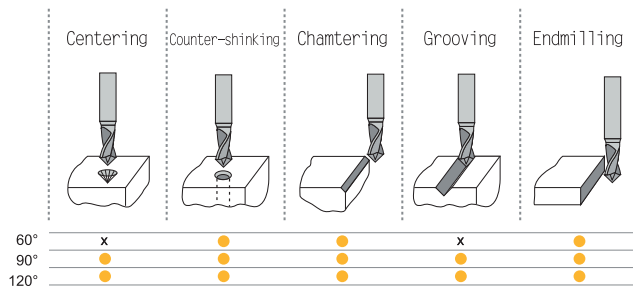
Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-

MULTI - FUNCTION END MILL SERIES - 2 FLUTES

Multi - function end mill series - 2 flutes



CDM	Diameter	Flute Length	Full Length	Shank Diameter	Tip Angle	Flutes	KG	STOCK	€
	d	l	L	D	A	Z			
CDM060030 AlTiN	3	6	50	4	60°	2	0,020	○	50,-
CDM090030 AlTiN	3	6	50	4	90°	2	0,020	○	50,-
CDM120030 AlTiN	3	6	50	4	120°	2	0,080	○	50,-
CDM060040 AlTiN	4	8	50	6	60°	2	0,020	○	63,50
CDM090040 AlTiN	4	8	50	6	90°	2	0,040	○	63,50
CDM120040 AlTiN	4	8	50	6	120°	2	0,080	○	63,50
CDM060050 AlTiN	5	10	50	6	60°	2	0,020	○	63,50
CDM090050 AlTiN	5	10	50	6	90°	2	0,050	○	63,50
CDM120050 AlTiN	5	10	50	6	120°	2	0,160	○	63,50
CDM060060 AlTiN	6	12	60	8	60°	2	0,020	○	107,-
CDM090060 AlTiN	6	12	60	8	90°	2	0,040	○	107,-
CDM120060 AlTiN	6	12	60	8	120°	2	0,150	○	107,-
CDM060080 AlTiN	8	16	75	10	60°	2	0,020	○	139,50
CDM090080 AlTiN	8	16	75	10	90°	2	0,040	○	139,50
CDM120080 AlTiN	8	16	75	10	120°	2	0,140	○	139,50
CDM060100 AlTiN	10	20	75	12	60°	2	0,020	○	152,-
CDM090100 AlTiN	10	20	75	12	90°	2	0,040	○	152,-
CDM120100 AlTiN	10	20	75	12	120°	2	0,150	○	152,-
CDM060120 AlTiN	12	25	75	12	60°	2	0,020	○	152,-
CDM090120 AlTiN	12	25	75	12	90°	2	0,090	○	152,-
CDM120120 AlTiN	12	25	75	12	120°	2	0,140	○	152,-
CDM060140 AlTiN	14	28	80	14	60°	2	0,020	○	222,50
CDM090140 AlTiN	14	28	80	14	90°	2	0,080	○	222,50
CDM120140 AlTiN	14	28	80	14	120°	2	0,150	○	222,50
CDM060160 AlTiN	16	32	100	16	60°	2	0,020	○	326,-
CDM090160 AlTiN	16	32	100	16	90°	2	0,090	○	326,-
CDM120160 AlTiN	16	32	100	16	120°	2	0,140	○	326,-
CDM060200 AlTiN	20	35	100	20	60°	2	0,020	○	391,50
CDM090200 AlTiN	20	35	100	20	90°	2	0,080	○	391,50
CDM120200 AlTiN	20	35	100	20	120°	2	0,140	○	391,50



Application: ■ Recommend □ Suitable x Not Recommend

Carbon steel, Alloy steel	Pre-hardened steel ~45HRC	~50HRC	High-hardened ~55HRC	~60HRC	~65HRC	Stainless steel	Copper alloy	Aluminum alloy
□	■	■	□	-	-	□	-	-

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

2024



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MILLING

MINIMILL

MOULDMILL

MICROTOOLS AMS

MINITOLS

GROOVING

GE DRILLS

NICECUT

YES DRILLS

SLIM CHUCK

INSERTS

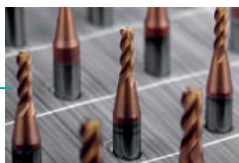
SPEED TIGER

ESEMPIO SET _ SATZ BEISPIEL _ SET EXAMPLE



**PROFI-BOX
SET PE TiSiN**

		↔ (mm)					STOCK	
		d	l	L	D	z		
Art. SET PE 3T TiSiN 45°	n° 1	PE0603 TiSiN	6	16	50	6	3	● SPECIAL NET PRICE PROMO
	n° 1	PE0803 TiSiN	8	20	60	8	3	
	n° 1	PE1003 TiSiN	10	30	75	10	3	
	n° 1	PE1203 TiSiN	12	32	75	12	3	
Art. SET PE 4T TiSiN 45°	n° 1	PE0604 TiSiN	6	16	50	6	4	● SPECIAL NET PRICE PROMO
	n° 1	PE0804 TiSiN	8	20	60	8	4	
	n° 1	PE1004 TiSiN	10	30	75	10	4	
	n° 1	PE1204 TiSiN	12	32	75	12	4	



**PROFI-BOX
SET MPE TiSiN**

		↔ (mm)					STOCK	
		d	l	L	D	z		
Art. SET MPE 3T TiSiN 45°	n° 10	MPE0103 TiSiN	1	3	50	4	3	● SPECIAL NET PRICE PROMO
	n° 10	MPE0153 TiSiN	1,5	4	50	4	3	
	n° 10	MPE0203 TiSiN	2	6	50	4	3	
	n° 10	MPE0303 TiSiN	3	8	50	4	3	
	n° 10	MPE0403 TiSiN	4	11	50	4	3	



**PROFI-BOX
SET MSB TiSiN**

		↔ (mm)					STOCK		
		d	R	l	L	D			Z
Art. SET MSB 2T/50 TiSiN 35°	n° 10	MSB0102 TiSiN	1	0,5	2	50	4	2	● SPECIAL NET PRICE PROMO
	n° 10	MSB0152 TiSiN	1,5	0,75	3	50	4	2	
	n° 10	MSB0202 TiSiN	2	1	4	50	4	2	
	n° 10	MSB0302 TiSiN	3	1,5	6	50	4	2	
	n° 10	MSB0402 TiSiN	4	2	8	50	4	2	

