

Key Cutters Manufacturer for
Key Duplicator Machine

钨钢钥匙铣刀专业制造商

2019

www.raisekeycutter.com

ZHANGJIAGANG RUIZHENG TOOL CO., LTD.
张家港市锐正精密工具有限公司

A Building, Qigan Industry Area, No8. Xinjing Road,
Zhangjiagang Development Zone, Jiangsu Province ,china 215600

Tel: +86-0512-5891 3626
Tel/ Wechat/ Whatsapp: +86-139 1567 1526
Linkedin: andier.qian@raisetool.com
Youtube: andier.qian@raisetool.com
Facebook: www.facebook.com/raise.tool

E-mail: andier.qian@raisetool.com
www.raisekeycutter.com

江苏省张家港市经济开发区新泾中路8号棋杆工业区A座



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在此仅做索引和指示之用, 帮助用户能够快速查找产品信息。

本手册专供给使用RAISE® 产品的专业锁匠。

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exclusive property of authorized manufacturers. Said trade-marks or trade names are
nominated only for the purposes of information so that our users can rapidly identify product
information.

This catalogue is reserved exclusively for professional locksmiths who use RAISE® key cutters.

选好刀, 找锐正
RAISE CUTTERS
RAISE PERFORMANCE



-  **HIGHER HARDNESS**
硬度高
-  **MORE PRECISE**
更精准
-  **MORE DURABLE**
更耐用

ZHANGJIAGANG
RUIZHENG TOOL CO., LTD.

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Angle Milling Cutters. 圆片刀 59 - 82

65 Φ60×6×Φ16×40° Φ60×7.3×Φ12.7×40° Φ70×7.3×Φ12.7×40°

66 Φ52×7.4×Φ10×40° Φ57.15×2.5×Φ12.7×45° Φ57.15×6.35×Φ12.7×45°

67 Φ60.3×2.5×Φ12.7×45° Φ60.4×3.05×Φ9.525×40° Φ60.45×7.3×Φ12.7×40°

68 Φ63×2.5×Φ16×45° Φ70×6.0×Φ20×40° Φ70×7.2×Φ12.7×40°

69 Φ70×7.4×Φ12.7×40° Φ80×5.0×Φ16×40° Φ80×6.0×Φ12.7×40°

70 Φ50×5.0×Φ10×86° Φ60×5.0×Φ12.7×80° Φ60.4×5.25×Φ9.52×84°

71 Φ60.4×5.25×Φ9.53×80° Φ63×5×Φ16×84° Φ63×5.0×Φ16×80°

72 Φ63×5.0×Φ16×70° Φ68×6×Φ16×80° Φ80×5.0×Φ16×84°

73 Φ80×5×Φ16×80° Φ80×5.0×Φ16×80° Φ63×1.4×Φ16

74 Φ63×1.5×Φ16 Φ64.6×1.5×Φ9.53 Φ64.6×2.4×Φ9.53

75 Φ70×1.15×Φ25.4 Φ70×1.3×Φ25.4 Φ70×1.3×Φ22

76 Φ80×1.25×Φ22 Φ80×1.4×Φ22 Φ80×1.4×Φ16

77 Φ80×1.5×Φ16 Φ80×1.5×Φ22 Φ80×2.0×Φ22

78 Φ60.4×1.14×Φ9.53 Φ63×1.4×Φ16 Φ63×1.5×Φ16

79 Φ64.6×1.8×Φ9.53 Φ70×1.15×Φ25.4 Φ70×1.3×Φ22

80 Φ70×1.3×Φ25.4 Φ100×1.0×Φ22 Φ80×1.25×Φ22

81 Φ80×1.4×Φ22 Φ80×1.5×Φ22 Φ80×2.0×Φ22

82 Φ80×2.5×Φ22 Φ100×1.0×Φ22 Φ100×1.25×Φ22

Catalog of Raise order code. 锐正订货编号索引

Table with columns: 订货编号, 锐正代码, Type, 55 Grade, 60 Grade, 80 Grade, Cutting wheels. Contains detailed product listings for various cutting tools.

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Table with columns: 订货编号, 锐正代码, Dimple cutter Type, 55 Grade, 60 Grade, 80 Grade, Cutting wheels. Contains detailed product listings for various cutting tools.

Catalog of key machine code. 钥匙机机型索引

■ 通用55系列 55 COMMON GRADE ■ 专业60系列 60 UNIVERSAL GRADE ■ TOP 80 SWISS GRADE ■ 圆片类 cutting Wheels

JMA

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
CAPRI	F1/ F1W/ F13W	Dimple cutter	p22	p33		
	P1/ P13	Tracer point	p25	p34		
CAPRI SMART	F1W/ F6W/ F13W	Dimple cutter	p22	p33		
	P1/ P6/ P13	Tracer point	p25	p34		
	F11W/ F3W/ F17W	End mill cutter		p31		
	P11/ P3/ P17	Tracer point	p21	p32		
VIENNA VIENNA SMART	FP24/ FP24W	Angle milling cutter				p72
BERNA	FP24/ FP24W	Angle milling cutter				p72
DAKKI	F1W	End mill cutter	p22	p33		
	P1	Tracer point	p25	p34		
SARATOGA	FP24/ FP24W	Angle milling cutter				p72
	FP19/ FP19W	Side milling cutter				p74
	FP26W	Side milling cutter				p77
TITAN BIT	FP19/ FP19W	Side milling cutter				p74
SENA	FP26W	Side milling cutter				p77
ECCO/ ECCO PLUS ECCO AUTOMATIC	FP11/ FP11W	Angle milling cutter				p71
ECCO BIT	FP8/ FP8W	Side milling cutter				p73
ECCO RG	FP8/ FP8W	Side milling cutter				p73
VOLGA BIT	FP19/ FP19W	Side milling cutter				p74
ECCO-0091	FP32	Angle milling cutter				p68
X-CODE 数控钥匙机	F1W/ F6W/ F13W	Dimaple cutter		p33		
	P1/ P6/ P13	Tracer point		p34		
	F11W/ F3W/ F17W	End mill cutter		p31		
	P11/ P3/ P17	Tracer point		p32		

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MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
530A	Φ70x7.2xΦ12.7x40°	Angle milling cutter				p68
US101	US101	Angle milling cutter				p67
US101	0021#	Flat slotter				p79
	0021C.C.	Flat slotter				p79

GLADAID

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
GL-368	8811/ 8810	Angle milling cutter				p68
	8826	Side milling cutter				p75
	3628/ 8823/ 0021#	Flat slotter				p79
GL-888	8811/ 8810	Angle milling cutter				p68
	8826	Side milling cutter				p75
	3628/ 8823/ 0021#	Flat slotter				p79
	H10012/ 0012/ 0012IC.C	Angle milling cutter				p68
GL-333A	8811/ 8810	Angle milling cutter				p68
	0021#	Flat slotter				p79
GL-030	3012/ 3012W	Angle milling cutter				p70
GL-320	3012/ 3012W	Angle milling cutter				p70
	0012	Angle milling cutter				p68
GL-203 & GL-303	C10/ C11/ C12 C13/ C14/ C15	End mill cutter	p20			

Mul-T-Lock

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
Mul-T-Lock	No.0100/ No.0090 No.0103/ No.0093	Dimple cutter Tracer point	p29			

ANSAN

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
CARISMA	B53	Angle milling cutter				p70
	B54	Angle milling cutter				p70

MIRACLE

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
MIRACLE A7/A9	EW6515L EW6020L-4F/ EW6025L TW6110	End mill cutter Tracer point		p37 p38		

SEC-E9

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
SEC-E9	EW5520LB/ EW5525LB	End mill cutter	p28			
	EW6019L-4F/ EW6020L-4F EW6025L	End mill cutter		p37		
	TW6110	Tracer point		p38		

3D LKP

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
3D Elite	TR2.5/ TR0.0625 5mm tubular keys	End mill cutter			p48	
	V2/ LKP 1.7	Tracer point			p48	
	3D Elite Wheel carbide	Angle milling cutter				p66
3D PRO X and XL	TR2.5/ TR0.0625 5mm tubular keys	End mill cutter			p48	
	V2/ LKP 1.7	Tracer point			p48	
	TR2.5/ TR0.0625 5mm tubular keys	End mill cutter			p48	
3D Xtreme and S	V2/ LKP 1.7	Tracer point			p48	
	3D Elite Wheel carbide	Angle milling cutter				p69
	3D Elite Wheel HSSM35	Angle milling cutter				p69
Retro	TR2.5/ TR0.0625 5mm tubular keys	End mill cutter			p48	
	V2/ LKP 1.7	Tracer point			p48	

HPC

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
9160MC 9170MC 9180MC	CW-23MC	Angle milling cutter				p66
HPC 9100 HPC 9110	34MC/ 23RF	Angle milling cutter				p66

JINGJI

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
L1S	EW5509B/ EW5510B	End mill cutter	p19/ 20	p31		
L2	EW5512B/ EW5515B	End mill cutter	p19/ 20	p31		
L3	EW5520B/ EW5525B	End mill cutter	p19/ 20	p31		
MINI	EW5530B	End mill cutter	p19/ 20	p31		
P1	0014J-M35	Angle milling cutter				p69
	0014J-M35	Angle milling cutter				p69
P2	SG2W	Side milling cutter				p77
	0014J-M35	Angle milling cutter				p69
P-MINI	SG2W	Side milling cutter				p77

WENXING

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
218-D		Angle milling cutter				p65
218-A		Angle milling cutter				p65
218-B		Angle milling cutter				p65
216		Angle milling cutter				p65
268		Angle milling cutter				p65
288	HJ-0114	Angle milling cutter				p65
288-A	0110#	Angle milling cutter				p65
288-B	0114#	Angle milling cutter				p65
218D	0114C.C	Angle milling cutter				p65
218E		Angle milling cutter				p65
288C		Angle milling cutter				p65
218F		Angle milling cutter				p65
288F		Angle milling cutter				p65
298A		Angle milling cutter				p65
298B		Angle milling cutter				p65
233-A		Angle milling cutter				p65
233B		Angle milling cutter				p65
233C		Angle milling cutter				p65
100-B	HJ-0010	Angle milling cutter				p65
283-A	0010#M35	Angle milling cutter				p65
283-B	0010I.C.C	Angle milling cutter				p65
217	0010C.C	Angle milling cutter				p65
100-A	0010B	Angle milling cutter				p65
100-A1		Angle milling cutter				p65
100-A2		Angle milling cutter				p65
100-A3		Angle milling cutter				p65
100A	0022#/ 0022C.C	Flat slotter				p79
	0022AC.C/ HJ-0022A	Side milling cutter				p75
	0022#/ 0022C.C	Flat slotter				p79
100A1	0022AC.C/ HJ-0022A	Side milling cutter				p75
100A2	0022#/ 0022C.C	Flat slotter				p79
100A2	0022AC.C/ HJ-0022A	Side milling cutter				p75
100A3	0022#/ 0022C.C	Flat slotter				p79
100A3	0022AC.C/ HJ-0022A	Side milling cutter				p75
100B	0022#/ 0022C.C	Flat slotter				p79
	0022AC.C/ HJ-0022A	Side milling cutter				p75
	0022#/ 0022C.C	Flat slotter				p79
100C	0022AC.C/ HJ-0022A	Side milling cutter				p75
201A		Angle milling cutter				p65
201B	HJ-0011/ 0011M35	Angle milling cutter				p65
201C	0011C1.C.C/ 0011B.C.C	Angle milling cutter				p65
201D		Angle milling cutter				p65
100D	H-0011/ 0011M35/ 0011C1.C.C/ 0011B.C.C	Angle milling cutter				p65
	0020AC.C/ HJ-0020A	Side milling cutter				p75
	0020#/ 0020C.C	Flat slotter				p80
100E	H-0011/ 0011M35/ 0011C1.C.C/ 0011B.C.C	Angle milling cutter				p65
100E1	0020AC.C/ HJ-0020A	Side milling cutter				p75
100F	0020#/ 0020C.C	Flat slotter				p80
	H-0011/ 0011M35/ 0011C1.C.C/ 0011B.C.C	Angle milling cutter				p65
	0020AC.C/ HJ-0020A	Side milling cutter				p75
100F1	0020#/ 0020C.C	Flat slotter				p80
	H-0011/ 0011M35/ 0011C1.C.C/ 0011B.C.C	Angle milling cutter				p65
	0020AC.C/ HJ-0020A	Side milling cutter				p75
100G	HJ-0023A/ 0023C.C	Side milling cutter				p76
100G1	0017A1.C.C	Angle milling cutter				p69
	0023#M35/ 0023C.C.C	Flat slotter				p81
	HJ-0023A/ 0023C.C	Side milling cutter				p76
100G2	0014M35/ 0014C.C/ H-0003A/ 0014C.C	Angle milling cutter				p69
	0023#M35/ 0023C.C.C	Flat slotter				p81
	HJ-0023A/ 0023C.C	Side milling cutter				p76

WENXING

MACHINE	Cutter Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
100G3	0014M35/ 0014C.C/ H-0003A/ 0014C.C	Angle milling cutter				p69
	0023#M35/ 0023C.C.C	Flat slotter				p81
	HJ-0023A/ 0023C.C	Side milling cutter				p76
100G5	0014I.C.C/ 0014I.C.C	Angle milling cutter				p69
100H	0017I.C.C	Angle milling cutter				p69
	0023#/ 0023C.C.C/ 0023C.C/ H-0002A	Flat slotter				p80
101	HJ-0011/ 0011M35/ 0011C1.C.C	Angle milling cutter				p65
219	HJ-0011/ 0011M35	Angle milling cutter				p65
219A	0118C.C	Angle milling cutter				p65
Q27	0011C1.C.C	Angle milling cutter				p65
RG1BL		Angle milling cutter				p65
DePai (488E/ 298 288D)DuFu	0111#	Angle milling cutter				p65
238B5						
Q29	0014J-M35/ 0014I.C.C HJ-0014I/ 0014I.C.C	Angle milling cutter				p69
202A	0023#M35/ 0023C.C.C	Flat slotter				p81
	HJ-0023A/ 0023C.C	Side milling cutter				p76
202C	0023#M35/ 0023C.C.C	Flat slotter				p81
	HJ-0023A/ 0023C.C	Side milling cutter				p76
202	0022#/ 0022C.C	Flat slotter				p79
	HJ-0022A/ 0022AC.C	Side milling cutter				p75
220	0016	Angle milling cutter				p65
208	0017A1.C.C	Angle milling cutter				p69
363	0070/ 0071/ 0072/ 0073 0080/ 0081/ 0082	Tracer point	p21	p32		
	0100/ 0103	Tracer point	p25	p34		
	0040#/ 0041#/ 0042# 0060#/ 0061#/ 0062#	End mill cutter	p19/ 20	p31		
333L	0070/ 0071/ 0072/ 0073 0080/ 0081/ 0082	Tracer point	p21	p32		
	0100/ 0103	Tracer point	p25	p34		
	0040#/ 0041#/ 0042# 0060#/ 0061#/ 0062#	End mill cutter	p19/ 20	p31		
369	0070/ 0071/ 0072/ 0073 0080/ 0081/ 0082	Tracer point	p21	p32		
	0100/ 0103	Tracer point	p25	p34		

Catalog of RAISE Ref. 锐正代码索引

■ 通用55系列 55 COMMON GRADE

■ 专业60系列 60 UNIVERSAL GRADE

■ TOP 80 SWISS GRADE

■ 圆片类 cutting Wheels

Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
3012	Angle milling cutter				p70
3628	Flat slotter				p79
8810	Angle milling cutter				p68
8811	Angle milling cutter				p68
8823	Flat slotter				p79
8826	Side milling cutter				p75
0010#M35	Angle milling cutter				p65
0010B	Angle milling cutter				p65
0010C.C.C	Angle milling cutter				p65
0010I.C.C.	Angle milling cutter				p65
0011#M35	Angle milling cutter				p65
0011B	Angle milling cutter				p65
0011C.C.C.	Angle milling cutter				p65
0012	Angle milling cutter				p68
0012 C.C.	Angle milling cutter				p68
0012I.C.C	Angle milling cutter				p68
0014I.C.C.	Angle milling cutter				p69
0014J C.C	Angle milling cutter				p69
0014JM35	Angle milling cutter				p69
0016AI.C.C.	Angle milling cutter				p65
0017AI.C.C.	Angle milling cutter				p69
0020#	Flat slotter				p80
0020A	Side milling cutter				p75
0020AC.C.	Side milling cutter				p75
0020C.C.	Flat slotter				p80
0021#	Flat slotter				p79
0021AC.C.	Side milling cutter				p75
0021C.C.	Flat slotter				p79
0022#	Flat slotter				p79
0022AC.C.	Side milling cutter				p75
0022C.C.	Flat slotter				p79
0023C.C.	Side milling cutter				p76
0023CC.C.	Flat slotter				p81
0023DC.C	Flat slotter				p81
0038#	End mill cutter	p19/20	p31		
0039#	End mill cutter	p19/20	p31		
0039B	End mill cutter	p19/20	p31		
0040#	End mill cutter	p19/20	p31		
0041#	End mill cutter	p19/20	p31		
0042#	End mill cutter	p19/20	p31		
0043#	End mill cutter	p20	p31		
0060#	Dimple cutter	p22/23/24	p33		
0060B#	Dimple cutter	p22/23/24	p33		
0060Q#	Dimple cutter	p22	p33		
0061#	Dimple cutter	p22	p33		
0062#	Dimple cutter	p22/23/24	p33		
0068	Tracer point	p21	p32		
0069	Tracer point	p21	p32		
0069B	Tracer point	p21	p32		
0070	Tracer point	p21	p32		
0071	Tracer point	p21	p32		
0072	Tracer point	p21	p32		
0073	Tracer point	p21	p32		
0080	Tracer point	p25	p34		
0080B	Tracer point	p25	p34		
0080Q	Tracer point	p25	p34		
0081	Tracer point	p25	p34		
0082	Tracer point	p25	p34		
0090	Dimple cutter	p29			
0093	Dimple cutter	p29			
0100	Tracer point	p29			
0103	Tracer point	p29			
0110	Angle milling cutter				p65
0114 C.C.	Angle milling cutter				p65
0114#M35	Angle milling cutter				p65
01D	Dimple cutter		p44	p56	
01F	Angle milling cutter				p67
01L	End mill cutter		p43	p55	
01T	Tracer point		p44	p55	
02D	Dimple cutter		p44	p56	
02L	End mill cutter		p43	p55	
02T	Tracer point		p44	p55	
03L	End mill cutter		p43	p55	
03T	Tracer point		p44	p55	
04D	Angle milling cutter		p44	p56	
18D	Engraving cutter		p44	p56	
26MC	Angle milling cutter				p73
3012W	Angle milling cutter				p70
34MC	Angle milling cutter				p66

Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
3D Elite	Angle milling cutter				p66
Wheel carbide					
3D Elite	Angle milling cutter				p66
Wheel HSSM35					
530A	Angle milling cutter				p68
5mm Tubular Cutter	End mill cutter			p48	
60MC	Angle milling cutter				p65
AT-U01	Angle milling cutter				p71
AT-U01W	Angle milling cutter				p71
AW5509	End mill cutter	p19			
AW5510	End mill cutter	p19			
AW5512	End mill cutter	p19			
AW5515	End mill cutter	p19			
AW5520	End mill cutter	p19			
AW5525	End mill cutter	p19			
B3310	Tracer point		p35	p49	
B3320	End mill cutter		p35	p49	
B3403	End mill cutter		p35	p49	
B3404	Tracer point		p35	p49	
B4403	End mill cutter		p35	p49	
B53	Angle milling cutter				p70
B54	Angle milling cutter				p70
C10	End mill cutter	p20			
C11	End mill cutter	p20			
C12	End mill cutter	p20			
C13	End mill cutter	p20			
C14	End mill cutter	p20			
C15	End mill cutter	p20			
carbide Cutter					
Wheel for 3D	Angle milling cutter				p69
Xtreme and S					
CL002	Tracer point		p35	p49	
CL003	Tracer point		p35	p49	
CL005	End mill cutter		p35	p49	
RIC09617B/ B4403					
CU100	Angle milling cutter				p73
CU11	Angle milling cutter				p73
CU14	Angle milling cutter				p71
FK2M35	Side milling cutter				p74
CU15AC	Side milling cutter				p74
CU15C	Flat slotter				p78
CU50A	Angle milling cutter				p73
Cutter Wheel for					
3D Xtreme and S	Angle milling cutter				p69
CW-23MC	Angle milling cutter				p66
D717898ZB (P32)	Angle milling cutter				p73
D911868ZR (P21)	Angle milling cutter				p70
DC011A	End mill cutter		p35	p49	
EM18	Angle milling cutter				p70
EM18W	Angle milling cutter				p70
EW5509B	End mill cutter	p20			
EW5510B	End mill cutter	p20			
EW5512B	End mill cutter	p20			
EW5515B	End mill cutter	p20			
EW5520B	End mill cutter	p20			
EW5520LB	End mill cutter	p28			
EW5525B	End mill cutter	p20			
EW5525LB	End mill cutter	p28			
EW5530B-4F	End mill cutter	p20			
EW6019L	End mill cutter		p37		
EW6020L	End mill cutter		p37		
EW6025L	End mill cutter		p37		
EW6515L	End mill cutter		p37		
F1	Dimple cutter	p22	p33		
F11	End mill cutter		p31		
F11W	End mill cutter		p31		
F13W	Dimple cutter	p22	p33		
F17W	End mill cutter		p31		
F1W	Dimple cutter	p22	p33		
F22	End mill cutter		p31		
F22W	End mill cutter		p31		
F26	Dimple cutter	p22			
F26W	Dimple cutter	p22			
F3	End mill cutter		p31		
F30	End mill cutter		p31		
F30W	End mill cutter		p31		
F3W	End mill cutter		p31		
F42	Dimple cutter		p33		
F42W	Dimple cutter		p33		

Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
F44	End mill cutter		p31		
F44W	End mill cutter		p31		
F5	Dimple cutter	p22	p33		
F5W	Dimple cutter	p22	p33		
F6	Dimple cutter	p22	p33		
F6W	Dimple cutter	p22	p33		
FP11	Angle milling cutter				p71
ECC0009	Angle milling cutter				p71
FP11W	Angle milling cutter				p71
FP12	Angle milling cutter				p71
FP12W	Angle milling cutter				p71
FP18	Side milling cutter				p76
FP18W	Side milling cutter				p76
FP19	Side milling cutter				p74
FP19W	Side milling cutter				p74
FP20	Side milling cutter				p76
FP20W	Side milling cutter				p76
FP21	Side milling cutter				p77
FP21W	Side milling cutter				p77
FP23	Flat slotter				p80
FP23W	Flat slotter				p80
FP24	Angle milling cutter				p72
FP24W	Angle milling cutter				p72
FP26W	Side milling cutter				p77
FP32	Angle milling cutter				p68
FP8	Side milling cutter				p73
FP8W	Side milling cutter				p73
H114	End mill cutter		p39	p51	
H129	End mill cutter		p39	p51	
HJ-0010	Angle milling cutter				p65
HJ-0011	Angle milling cutter				p65
HJ-0012	Angle milling cutter				p68
HJ-0014J	Angle milling cutter				p69
HJ-0017	Angle milling cutter				p69
HJ-0020A	Side milling cutter				p75
HJ-0022A	Side milling cutter				p75
HJ-0023A	Side milling cutter				p76
HJ-0114	Angle milling cutter				p65
HJ-01F	Angle milling cutter				p67
HJ-EM18	Angle milling cutter				p70
HJ-P01	Angle milling cutter				p72
HJ-SG2	Angle milling cutter				p77
HJ-X23MC	Angle milling cutter				p67
HPP01	Angle milling cutter				p72
HPP032	Angle milling cutter				p73
HSSG1	Flat slotter				p81
HSSG2	Side milling cutter				p77
HSSG3	Flat slotter				p80
HSSG32	Side milling cutter				p73
Mul-T-Lock set	Dimple cutter	p29			
P01	Angle milling cutter				p72
P01W	Angle milling cutter				p72
P1	Tracer point	p25	p34		
P11	Tracer point	p21	p32		
P13	Tracer point	p25	p34		
P17	Tracer point	p21	p32		
P21	Angle milling cutter				p70
P21W	Angle milling cutter				p70
P3	Tracer point	p21	p32		
P5	Tracer point	p25	p34		
P6	Tracer point	p25	p34		
PL1.0	Flat slotter				p82
PL1.25	Flat slotter				p82
RIC05304B	End mill cutter		p35	p49	
RY10030	Angle milling cutter				p73
SG1	Flat slotter				p81
SG10	Flat slotter				p81
SG10W	Flat slotter				p81
SG12	Flat slotter				p82
SG12W	Flat slotter				p82
SG14	Flat slotter				p78
SG14W	Flat slotter				p78
SG17	Flat slotter				p79
SG17W	Flat slotter				p79
SG18	Side milling cutter				p74
SG18W	Side milling cutter				p74
SG19	Side milling cutter				p74
SG19W	Side milling cutter				p74

Ref.	Type	55 Grade	60 Grade	80 Grade	Cutting wheels
SG1W	Flat slotter				p81
SG2	Side milling cutter				p77
SG23W	Flat slotter				p80
SG2W	Side milling cutter				p77
SG3W	Flat slotter				p80
SG4W	Flat slotter				p80
STYLUS LKP1.7	Tracer point				
T1	Tracer point	p25	p34	p48	
T101	Tracer point	p21	p32		
T114	Tracer point	p21	p32		
T129	Tracer point	p21	p32		
T22	Tracer point	p21	p32		
T26	Tracer point	p25	p34		
T3	Tracer point	p21	p32		
T30	Tracer point	p21	p32		
T42	Tracer point	p25	p34		
T44	Tracer point	p21	p32		
T6	Tracer point	p25	p32		
T81	Flat slotter				p80
SG3	Flat slotter				p80
TH7009	Tracer point	p21			
TH7010	Tracer point	p21			
TH7012	Tracer point	p21			
TH7015	Tracer point	p21			
TH7020	Tracer point	p21			
TH7025	Tracer point	p21			
TH7030	Tracer point	p21			
TH8080	Tracer point	p25	p34		
TH8090	Tracer point	p25	p34		
TH8095	Tracer point	p25	p34		
TH8100	Tracer point	p25	p34		
TH8105	Tracer point	p25	p34		
TL002	Tracer point		p35		
TL003	Tracer point		p35	p50	
TR0.0625	End mill cutter			p49	
TR2.5	End mill cutter			p48	
TW6110	Tracer point		p38	p48	
U01	Angle milling cutter				p71
U01W	Angle milling cutter				p71
U101	Tracer point		p40	p52	
U102	Tracer point		p40	p52	
U102TT	Tracer point		p40	p52	
U103	Tracer point		p40	p52	
U103TT	Tracer point				



致力于打造高端钥匙铣刀
全球领导品牌

TO BE THE LEADER BRAND
OF HIGH QUALITY KEY CUTTERS
IN THE WORLD

锐正RAISE® 致力于打造高端钥匙铣刀全球领导品牌。

锐正RAISE® 的使命是“以优质的铣刀、创新的服务项目, 为全球锁匠更好、更快、更省心的赢利不懈努力!”

我们将牢记企业宗旨: 专注最锋利的钥匙铣刀的研发和制造, 努力实现客户、企业和员工共赢!

Our Vision is to be the leader brand of high quality KEY CUTTERS in the world.

Our Mission is to help millions of locksmiths all over the world increase their profit by RAISE® quality products and solution.

We will keep in mind the corporate purpose: focus on research and development of the sharpest key milling cutter, and strive to achieve a win-win situation for customers, enterprises and employees !

董事长
Managing director

钱洪良
Andwer Qian

锐正RAISE®

RAISE®
KEY CUTTER



锐正是全球领先的高端钥匙铣刀专业生产厂家，专注于全球最锋利的钨钢钥匙铣刀研发与制造。

RAISE is a professional and leader manufacturer of key milling cutters for key duplicator machines.

张家港市锐正精密工具有限公司成立于2009年,是全球领先的高端钥匙铣刀专业生产厂家,专注于全球最锋利的钨钢钥匙铣刀研发与制造,锐正公司集自主科研发、生产制造、品牌营销于一体,专注钥匙铣刀研发和生产十余年,能够生产各种品牌和型号钥匙机上使用的铣刀,适用于全球30多个品牌的钥匙机,比如SILCA, KEYLINE, JMA, HPC, ILCO, WENXING, JINGJI, MIRACLE, E9,ANSAN, BIANCHI, NINJA, FUTURA,3D,GLADAID,EAST OF WU等等。

铣刀类型包括立式铣刀和圆片式铣刀,立式铣刀包括:加工汽车钥匙和民用钥匙槽的铣刀、打钥匙孔的钻头以及导针,可用于手动钥匙机和数控钥匙机,圆片式铣刀包括:钥匙开牙刀、棋杆钥匙切口刀等。所有铣刀规格约1000种,常见铣刀规格300余种。

Our company: RAISE KEY CUTTER, founded in 2009, is a professional and leader manufacturer of key milling cutters for key duplicator machines including SILCA, KEYLINE, JMA, HPC, KABA, ILCO, WENXING etc. We focus on the production of high quality of key cutters with the hardness material both HSS Co and solid carbide.

The types of milling cutters include end mill cutters and cutting wheels. The end mill cutter includes milling cutters for processing automobile keys and civil keys, dimple cutters and tracers, which can be used for manual key machine and CNC key machine. Cutting wheels include angle milling cutter, side milling cutter and flat slotter for Mortice keys etc. The specifications of milling cutter are about 1000 kinds. We have more than 300 kinds of common type key cutters in stock .

美国ALOA协会, 欧洲ELF协会唯一的专业铣刀制造工厂参展商, 生产工作通过SGS实地认证, 产品通过CE认证。

RAISE is the only professional manufacturer of milling cutters on ALOA (USA) and ELF (Europe).



PROFESSIONAL MANUFACTURER OF KEY CUTTERS FOR KEY DUPLICATOR MACHINE

2008

- 3月. 从事模具行业数控铣刀生产拥有8年经验的锐正公司, 成立钥匙机铣刀项目部。
- 4月. 第一支全钨钢钥匙机铣刀诞生。

2009

- 8月. 第一支全钨钢子母珠钥匙刀诞生。

2010

- 4月. 第一批出口海外的刀片发往钥匙机生产大国---意大利。
- 5月. 参加中国锁匠518年会, 钨钢铣刀受到极大欢迎。
- 6月. 第一片全钨钢角度斜口刀成功上线。

2011

- 5月. 第一片全钨钢三面刃铣刀诞生。
- 8月. 第一支全钨钢打孔钥匙钻头生产。

2012

- 4月. 适用于美国HPC钥匙机的铣刀发往美国。
- 8月. 采用日本进口HSS M42生产的高硬度、高耐磨度钨钢铣刀诞生。
- 9月. 锐正公司应邀参加美国锁匠协议年度会议ALOA, 并首次在美国市场展示RAISE钨钢刀具。

2013

- 8月. 锐正所有圆形刀片生产升级为全磨齿工艺, 这是行业内工艺的划时代革新。
- 12月. 第10万名欧美锁匠购买了RAISE钥匙机铣刀。

2014

- 6月. 加工福特钥匙的全钨钢钥匙刀片诞生。
- 10月. 全钨钢钻孔铣刀实现机器人全自动化生产。

2015

- 4月. 全钨钢钥匙角度三面刃口设计测试成功, 锁匠称为---屠龙刀。锐正钥匙机铣刀微信服务号上线, 给锁匠选刀提供贴心服务, 只要输入钥匙机型号, 就可以查询所有刀具规格(附二维码)。



- 5月. 设计出适用SILCA的钨钢角度刀图纸并测试成功。锐正钥匙刀官方网站开通。

www.raisekeycutter.com

2016

- 2月. 锐正钥匙刀生产基地通过瑞士SGS认证。
- 3月. 密齿型全钨钢斜口刀诞生。
- 5月. 三面刃侧刃工艺全面升级, 侧刃切割锋利无噪音。
- 6月. 开发出无磁导针, 解决了锁匠困扰的导针定位问题。
- 10月. 锐正新型抗断型C级锁芯铣槽刀, 单刃铣刀也叫青虹刀研制并测试成功。
- 11月. 锐正全磨齿含钴高速钢角度铣刀---锐正黑金刚研制成功投放市场。

2017

- 1月. 锐正推出H型双刃直槽钻孔刀。
- 4月. 锐正全新的恒温数控车间建成投入使用。锐正推出开灵Keyline994专用铣刀。
- 5月. 推出NINJA TOTAL钨钢圆片铣刀。
- 6月. 锐正采用全自动机器人生产线, 极大地提高了铣槽刀的锋利度。
- 9月. 在俄罗斯海滨城市---亚斯特拉罕---举办锁匠会议及培训班, 联合李氏工具发明人李志勤和CONDOR数控机工程师对俄罗斯的60名锁匠进行了一次培训。参加欧洲ELF研讨会, 获得欧洲锁匠用户好评。
- 10月. 锐正新一代锋利型狼牙刀诞生。
- 11月. 采用欧洲顶尖工艺, 钻铣结合的钻孔刀研制成功, 发给国外测试效果良好。

2018

- 4月. 引进国内最先进的影像仪检测设备, 测量精度0.001mm。
- 6月. 研制出雕刻刀, 美国客户测试, 效果非常满意。
- 7月. 参加美国ALOA锁匠会议。
- 9月. 研制出3D Laser设备使用的专用铣刀。带倒角的立铣刀测试成功, 带给美国客户测试, 效果良好。
- 11月. 低阻力抗断性导针研制成功, 锁匠测试完成。
- 12月. 引进200倍放大镜, 自动在线检测设备, 保证了产品品质的稳定性。

2008

- March . Raise key cutter with eight years experience in the mold industry CNC milling production founded Project Department of Key milling cutters.
- April . The first solid carbide mill cutter was produced.

2009

- August . The first carbide mul-t-lock was produced.

2010

- April . The first batch key milling cutters was sent to key duplicating machine producing country --- Italy.
- May . We attended 518 Chinese locksmith meeting and the carbide key milling cutter was greatly welcomed.
- June . The first carbide angle milling cutter was successfully online.

2011

- May . The first carbide side milling cutter was produced.
- August . The first carbide dimpling cutter was produced.

2012

- April . The key milling cutters which are suitable for US HPC key duplicating machine were sent to the United States.
- August . The key milling cutter which adopted HSS M42 imported from Japan was produced, with high hardness and high wear resistance.
- September . The RAISE key cutter was invited to participate in the annual meeting of the American Locksmiths Association-ALOA and showed the carbide key milling cutter in the US market for the first time.

2013

- August . The production of RAISE circular cutter was improved to grinding manufacturing process, which is a landmark innovation in the process industry.
- December . The No. 100,000 locksmith bought key milling cutter from RAISE.

2014

- June . The carbide key milling cutter which is used to process Ford key was produced.
- October . The solid carbide dimpling cutter realized the fully automatic production.

2015

- April . Carbide angle milling cutter with side milling design succeeded, locksmiths call it --- Dragon cutter.

RAISE wechat service was launched, which provided the intimate service for the locksmith., just input the model key machine, you can check all specifications of key milling cutters.

- May . We developed the drawing of carbide angle milling cutters which was suitable for SILCA key duplicating machine, test received success.

The official Website of raise key cutter officially opened---www.raisekeycutter.com.

2016

- February . Production base of RAISE key cutter passed the certification of Swiss SGS.
- March . The carbide oblique key cutter with the dense tooth was produced.
- May . The craft of side milling cutter had a comprehensive upgrade, the side cutting edge became sharper without noise.
- June . Developing a non-magnetic tracer, which solved the localization problem of tracer that puzzled locksmith.
- October . RAISE new anti-breaking C-class cylinder milling cutter, single-edge endmill cutter also called QIHONG end mill cutter developed and tested successfully.
- November . RAISE full-grinding cobalt-containing high-speed steel angle milling cutter---RAISE BLACK ANGLE MILLING CUTTER was successfully and put on the market.

2017

- January . RAISE released the Type II double-edge straight groove dimple cutters.
- April . RAISE's new constant temperature CNC workshop was completed and put into use. RAISE launched the Keyline 994 special end mill cutter.
- May . NINJA TOTAL carbide angle milling cutter was launched.
- June . RAISE adopted a fully automatic production line, which greatly improved the sharpness of the milling cutter.
- September . A locksmith meeting and training class was held in the Russian coastal city of Astrakhan. In collaboration with Lishi inventor Li Zhiqin and CONDOR CNC machine engineers, a training of 60 locksmiths in Russia was conducted. RAISE participated in the European ELF seminar and was well received by European locksmith users.
- October . RAISE's new generation of LANGYA end mill cutters are produced.
- November . Using the top European craftsmanship, the drilling and milling combined dimple cutter was successfully developed and sent to foreign countries for good test results.

2018

- April . The company introduced the most advanced image detector equipment in China with a measurement accuracy of 0.001mm.
- June . The carving cutter was developed and tested by American customers. The effect was very satisfactory.
- July . Attended the American ALOA Locksmiths Conference.
- September . The company developed a special milling cutter for 3D Laser Key Products.
- September . The end mill cutter with chamfer was successfully tested and brought to the US customer for testing.
- November . The low-resistance anti-breaking tracer point was successfully developed and the locksmith test was completed.
- December . The introduction of 200 times microscope, automatic online testing equipment, ensure the stability of product quality.



DEVELOPMENT HISTORY

发展历程

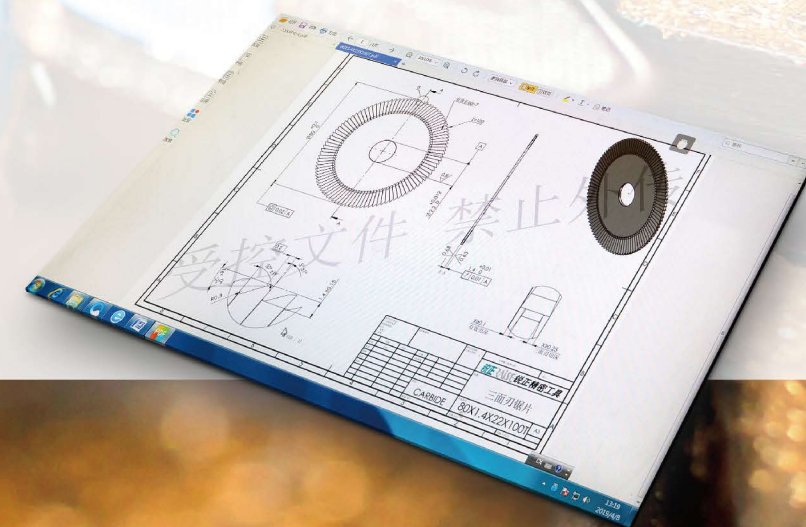
锐正 RAISE KEY CUTTER

TECHNOLOGICAL INNOVATION

技术创新

RAISE has an independent research and development team, cooperate with Jiangsu University of Science and Technology to set up the " Center for cutting dynamics research " in RAISE workshop. After 10 years of technology accumulation and innovation, RAISE has obtained more than 30 patents including 6 invention patents. From 2009, RAISE invented more than 30 kinds of new type milling cutters, such as RAISE dragon cutter, RASIE black HSS-Co cutter, RAISE QIHONG cutter, RAISE LANGYA milling cutter etc. All of these milling cutter and technologies are more efficient, more convenient and easier to duplicate the key. They were deeply loved by locksmith.

锐正公司拥有独立的研究、开发与测试团队，并与江苏科技大学建立了产学研合作关系，共同在锐正公司设立了“切削动力学研究(分)中心”，经过10年的技术积累与创新，目前已获得30多项专利，其中发明专利6项。从2009年国内首家生产全钨钢立铣刀开始，锐正公司创造性地发明了30多种新型铣刀，如锐正屠龙刀、锐正黑金刚、锐正青虹刀、锐正狼牙刀等等，所有这些铣刀和技术，使配钥匙使用更加便利、过程更加高效，深受锁匠师傅的喜爱。



先进的 生产设备

PRODUCTION & EQUIPMENT



优质的铣刀生产离不开先进的设备和工艺, 以及专业的技术人才, 锐正公司引进了进口的五轴联动全自动磨削中心等众多先进设备, 目前拥有CNC磨削中心6套, 角度铣刀生产线3条, 硬质合金圆锯片生产线2条, 各类数控磨床50多台, 拥有年产立铣刀50万支, 圆刀片12万片的生产能力, 工厂通过了瑞士SGS认证。



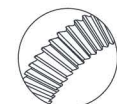
Good quality milling cutter depends on the advanced equipment and technology. RAISE has the imported automatic five-axis grinding machine and other advanced equipments. Currently we have 6 sets of CNC milling machines, 3 sets of angle milling cutter production line, 2 set of carbide flat slotter production line, all kinds of CNC grinding machine more than 50 sets. The annual capacity of RAISE is up to 500000 pieces of end mill cutter and 120000 pieces of angle milling cutter. RAISE passed the Swiss SGS certification.



6套CNC磨削中心
6 sets of CNC grinding centers



年产立铣刀 **500,000** 只
Annual output 500,000 end mills

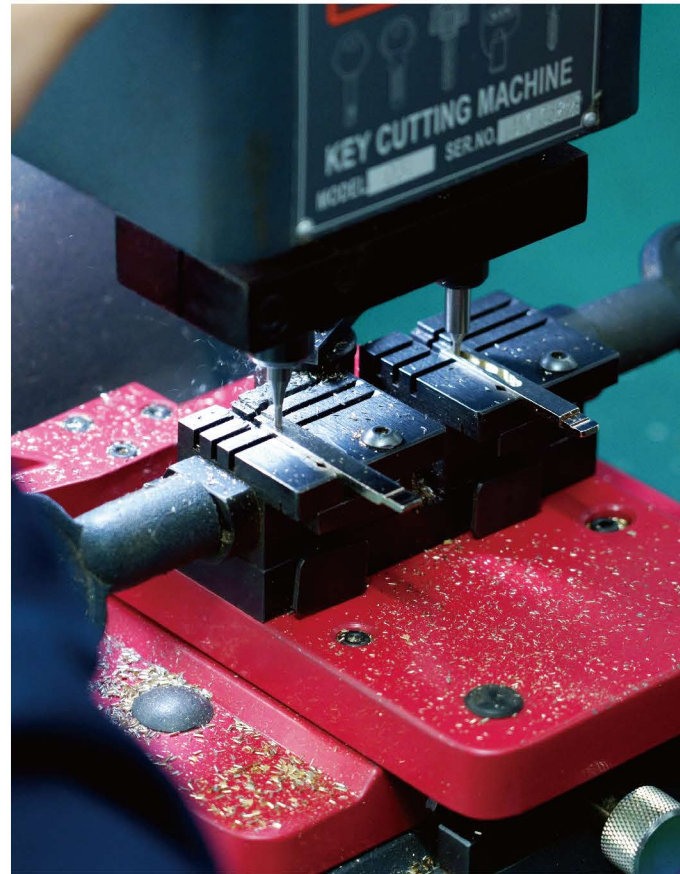
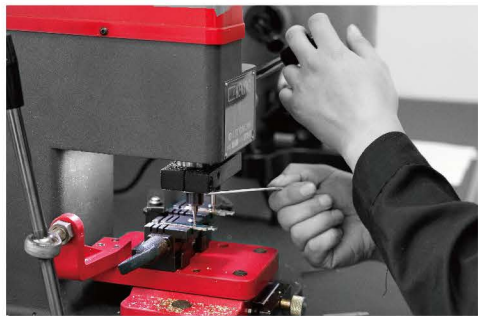


年产圆片刀 **120,000** 只
Annual output 120,000 cutting wheels



全过程 质量管理

为了确保铣刀产品的高质量标准，锐正公司建立了完整的质量管理体系，实施了全过程质量管理。目前公司配备了高倍率投影仪6台、光学显微镜5台、高倍电子显微镜、200倍放大影像检测仪、硬度计、在线自动柄径测量系统、在线同心度探测系统、动平衡调节软件，专业的质量团队全天24小时坚持在做首检、过程检、入库检等质量管理工作，确保不合格品不入库，让锁匠师傅放心使用。



PRODUCT TEST CENTER

产品测试中心

为了确保铣刀的使用效果，锐正公司在行业内建立了设备最齐全的铣刀测试中心，测试中心拥有各类铣刀测试主机十余台，包括国内的机型和国外的机型，既有手动机型，也有数控机型，配备了各种钥匙和锁芯，测试的项目包括：铣刀锋利度测试、铣刀抗断性测试、铣刀耐磨性测试、配钥匙开启率测试，等等。实践出真知，只有测试加工出来的钥匙能够打开锁芯，才能确保铣刀使用没有问题。



In order to ensure the use of milling cutters, RAISE has established the most complete milling cutter testing center in the industry. The testing center has more than ten sets of milling cutter testing machines, including domestic models and foreign models. There are manual key machine, electronic key machine and a variety of keys and lock cylinders. The test items include: milling cutter sharpness test, milling cutter fracture test, milling cutter wear resistance test, key opening rate test, and many more. We know that genuine knowledge comes from practise: cutter is suitable when tested key can open the lock cylinder.



In order to ensure the high quality standard of milling cutter, RAISE has established a complete quality management system and implemented the whole process quality management. At present, RAISE is equipped with 6 high-magnification projectors, 5 optical microscopes, high-power electron microscope, 200 times magnification image detector, hardness tester, online automatic shank measuring system, online concentricity detection system, dynamic balance adjustment software. The professional quality team insists on doing quality management work such as the first inspection, process inspection, and warehouse inspection 24 hours a day to ensure that the unqualified products are not stored in the warehouse, so that the locksmith can use it with confidence.

WHOLE PROCESS QUALITY MANAGEMENT



HIGH PERFORMANCE MILLING TOOL PRODUCTS

高性能的 铣刀产品

为了确保铣刀产品的高性能,锐正公司选用了行业领先的硬质合金棒材作为原材料,包括瑞典SADVIK硬质合金,台湾春保硬质合金等,材料耐磨性好,韧性强,耐冲击,品质稳定,适合钥匙行业使用;高速钢材料选用日本进口的含钴高速钢,用专门的热处理工艺进行热处理,硬度达到64-68HRC,耐磨性远超同类产品。

In order to ensure the high performance of milling cutter products, RAISE adopt the best carbide bar as the raw material, including Sweden SADVIK carbide, Taiwan Chunbao carbide, etc., The material is wear resistance, toughness, impact resistance, quality stability and suitable for key cutting; High speed steel is made of cobalt-containing high speed steel imported from Japan and treated with special heat treatment technology. Its hardness is up to 64-68hrc and its wear resistance is much higher than similar products.



SOLIDE CARBIDE
钨钢材质



MORE PRECISE
更精准



MORE DURABLE
更耐用



SHARPNESS STRENGT
锋利度高



ANTI SEISMIC
抗震



NO BURR
无毛刺



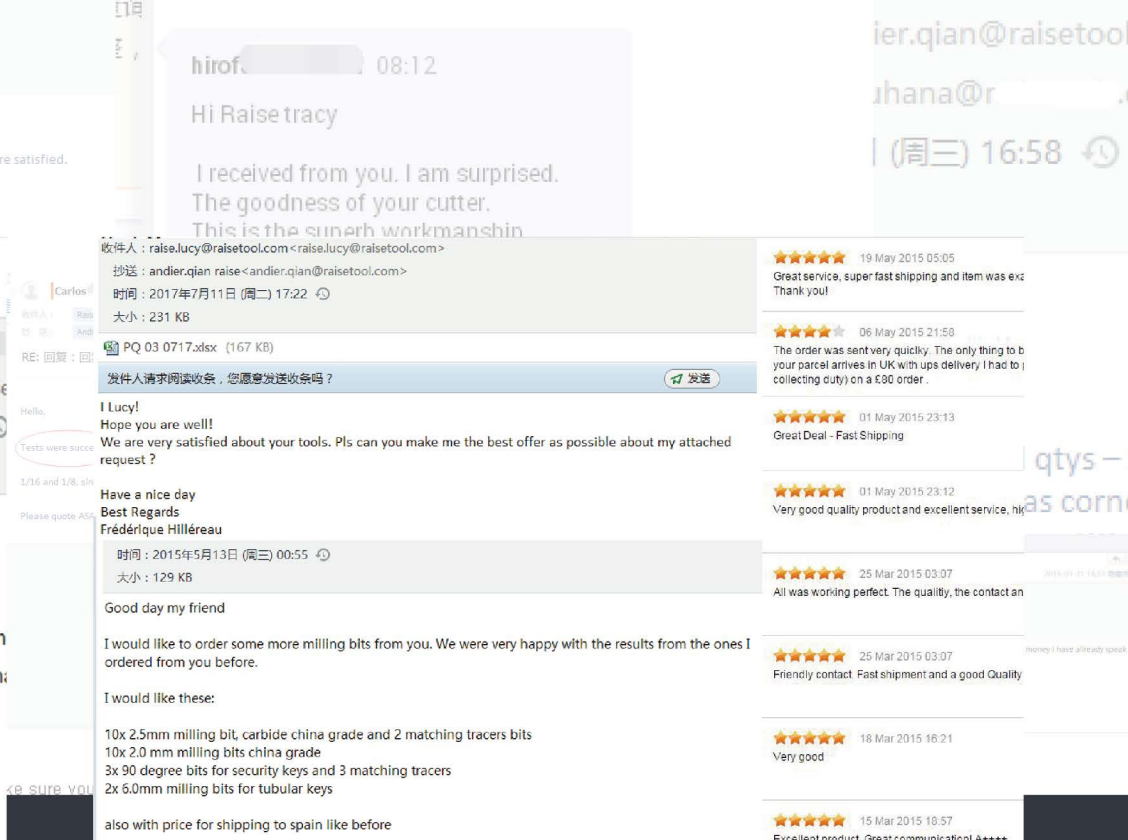
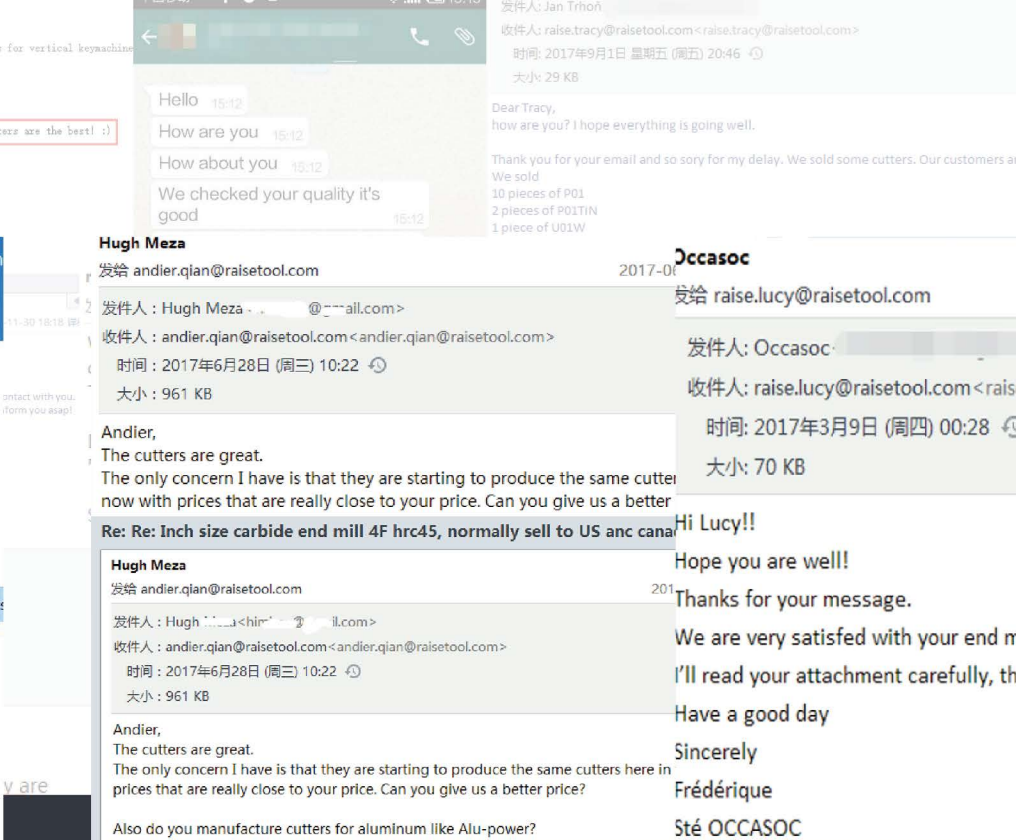
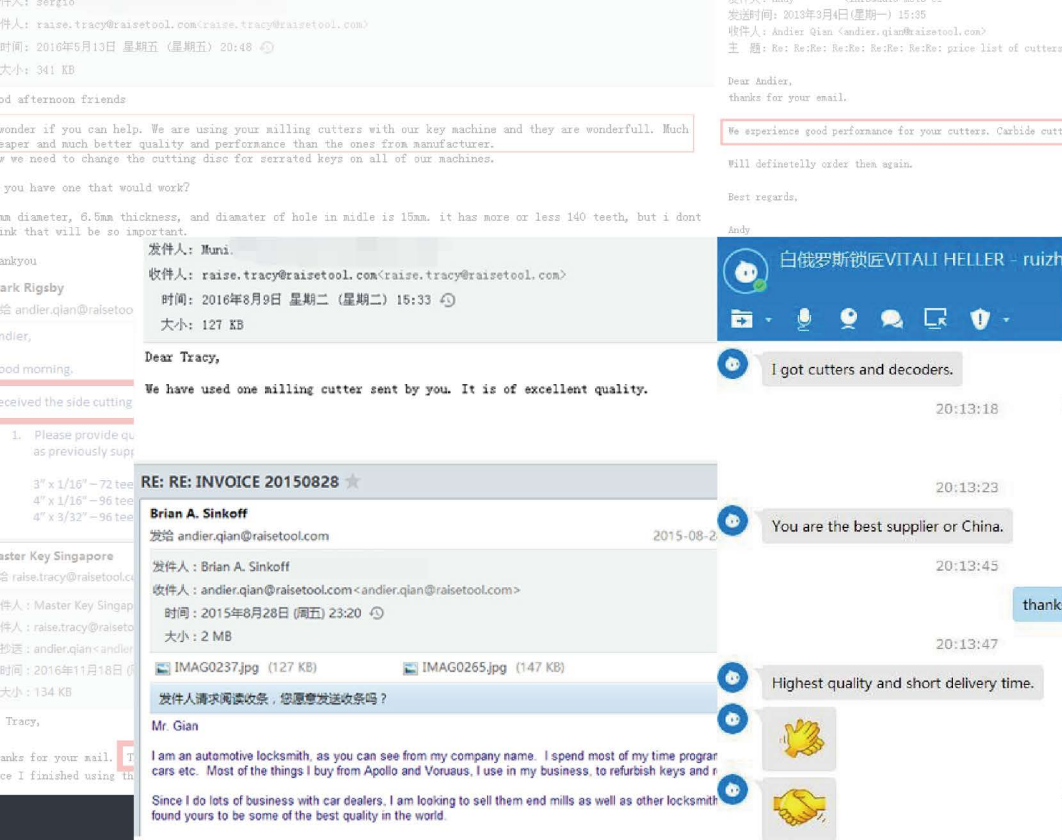
WHOLE COURSE TEST
全检验



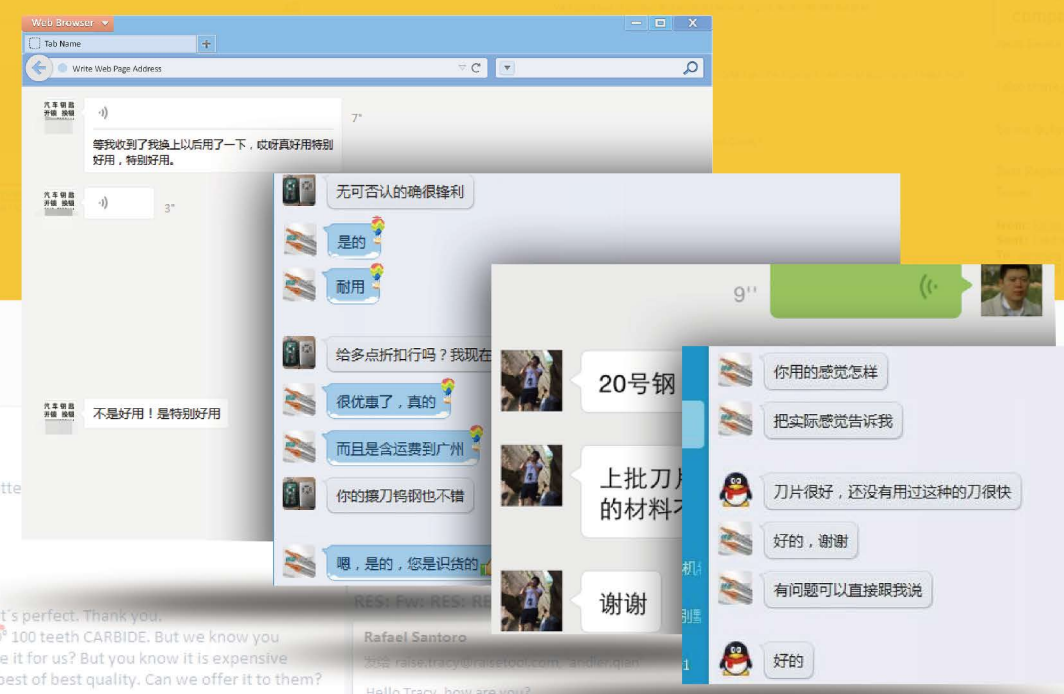
BEEN TESTED
经过开锁测试



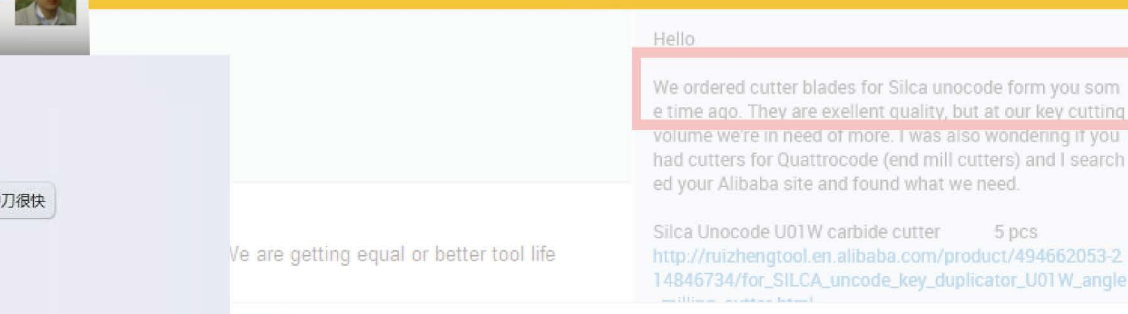
IMPACT RESISTANCE
耐冲击



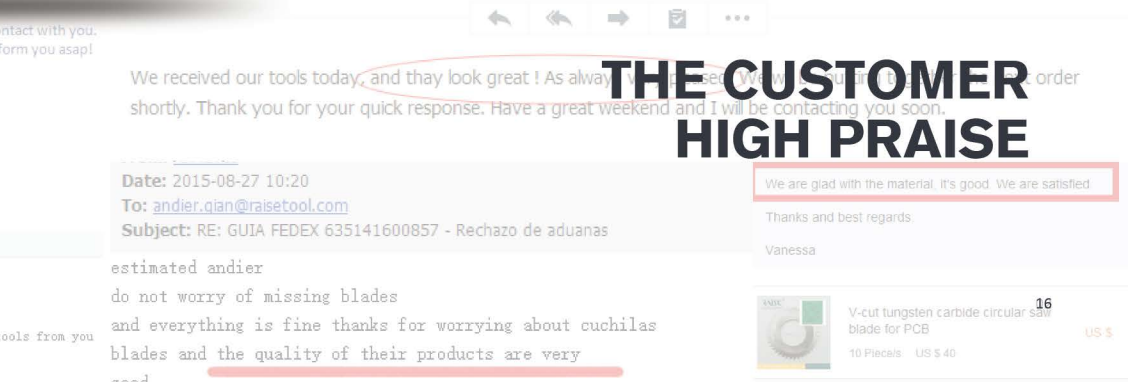
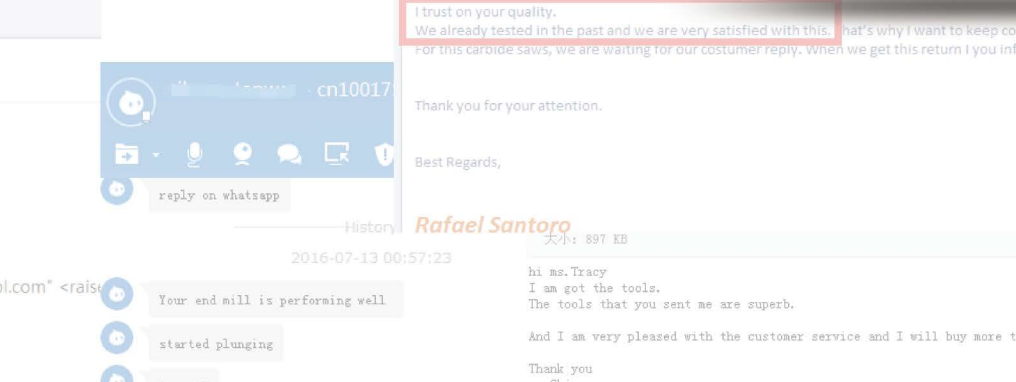
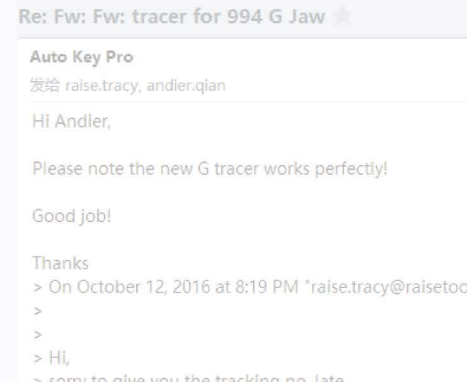
锐正公司发明的锐正黑金刚, 选用了高硬度含钴高速钢, 经过黑纳米涂层处理, 比黄色钛刀使用寿命增加40%以上, 既适合加工铜钥匙, 也适合加工铁钥匙; 锐正公司开发的锐正狼牙铣刀, 锋利, 尺寸精准, 切出的钥匙光滑, 无毛刺, 还可以加工原厂本田等高硬钥匙; 锐正公司发明的锐正青虹铣刀, 克服了转速低的钥匙机使用钨钢铣刀容易断刀的问题, 使钨钢铣刀的适应性更强; 锐正公司发明的钨钨属龙刀, 密齿型, 是铁钥匙的克星, 连续加工500多把十字铁钥匙。在此期间, 锐正公司还对工艺不断改良, 发明了独特的磨制工艺, 提高了刀尖的刚性, 很好得克服了断齿的问题。



RAISE Black angle milling cutter is adopt high-hardness cobalt-containing high-speed steel. After black nano-coating treatment, the service life is increased by more than 40% than yellow TiN coating. It is suitable for processing copper key and processing iron key. The LANGYA milling cutter developed by RAISE is sharp and exact size. Processed key is smooth without burrs. It can also process high-hard keys such as the original Honda keys; RAISE QIHONG milling cutter has overcome the problem that carbide milling cutter is easily broken with key machine low-speed situation which makes carbide milling cutter more adaptable; RAISE carbide DRAGON cutters are the dense tooth design, continuous process more than 500 cross iron keys especially for cutting the iron key. In the meantime, RAISE has continuously improved the process, invented a unique grinding process, improved the rigidity of the tool tip and well overcame the problem of broken teeth.



客户好评



THE CUSTOMER HIGH PRAISE



COMPARED WITH THE WORLD

1,200,000 LOCKSMITHS

RAISE is a high-tech enterprise, JiangSu province private high-tech enterprises, with the right to import and export and sale with RAISE® brand. Products are exported to the United States, Japan, Canada, Mexico, Brazil, Israel, Russia, Spain, Italy, Germany, France, Britain, Sweden, the Czech republic, Iran, Malaysia, Thailand, India, South Africa, Dubai, Saudi Arabia and other more than 50 countries and regions. 1.2 million locksmiths used RAISE key cutter all around the world. RAISE also provides supporting services of milling cutter for key machine factory for 10 years.

与全球超过 1,200,000 锁匠同行

锐正精密工具有限公司是高新技术企业、江苏省民营高科技企业，拥有自营进出口权，以 RAISE® 品牌销售。产品远销美国、日本、加拿大、墨西哥、巴西、以色列、俄罗斯、西班牙、意大利、德国、法国、英国、瑞典、捷克、伊朗、马来西亚、泰国、印度、南非、迪拜、沙特等50多个国家和地区，全球范围内已经有120万人次的锁匠使用过锐正的铣刀。RAISE也为钥匙主机厂连续10年提供铣刀配套服务。

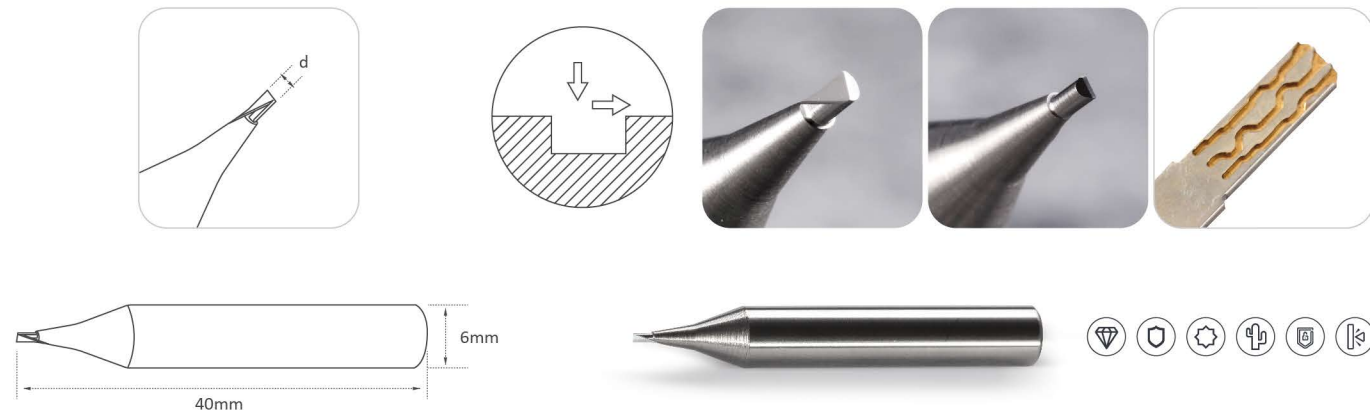


CARBIDE SINGLE-EDGE END MILL CUTTER RAISE QINGHONG 锐正青虹™ 钨钢单刃铣刀

通用55系列

55 COMMON GRADE

抗断设计 Stronger teeth design to prevent broken



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代铣刀代码 Replaceable cutters Ref
P-4097	AW5509	0.9mm	EW5509B / 0039#
P-774	AW5510	1.0mm	EW5510B / 0039#
P-1155	AW5512	1.2mm	EW5512B / 0039B#
P-775	AW5515	1.5mm	EW5515B / JMA F3 / 0040#
P-3694	AW5520	2.0mm	EW5520B / JMA F33 / SILCA F44 / 0041#
P-3695	AW5525	2.5mm	EW5525B / JMA F11 / SILCA F22 / 0042#

适用机型:各种立式手动钥匙机;如

Suit for Machine:
various vertical manual key machines,
such as

- 363 383AC
- 333L 388AC
- 339 398AC
- 369 399AC
- 368A&B Q36
- 398AC Q38
- 399AC Q39
- 369 Q30
- 368B Q32 Q31



材料

全钨钢抗冲击材料磨制而成,耐磨性好,抗冲击性能好。

工艺

专利设计,3个维度加强刀尖刚性,刚性比螺旋槽强50%,抗断性能好。

特性

刀刃锋利,可以切削铜钥匙,白铜钥匙,镍白铜钥匙。

优势

适用于C级锁芯多轨道钥匙的加工,加工的钥匙槽口光滑,没有毛刺。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

Manufacturing process

It has patented design and three dimensions to enhance the rigidity of the tip, the rigidity is 50% stronger than the spiral groove end mill design, and not easily broken.

Features

Cutter edge is very sharp, can cut copper key and nickel silver key.

Advantages

It is suitable for the processing of C-class lock cylinder multi-track key, which makes processed key slot smooth and no burr.

适合加工的钥匙:

所有内铣槽钥匙,特别适合加工C级锁芯多轨道钥匙。

Suit for processing keys:

All internal milling Laser keys, automotive keys, High Security keys, especially suitable for machining C-class lock cylinder multi-track keys.



对应的导针规格详见21页

Corresponding tracer point specifications, refer to page 21

同样功能

55系列螺旋槽锋利型,立铣刀,可参照20页
60系列高光4刃螺旋立铣刀,可参照31页

Same function

55 COMMON GRADE end mill cutter, refer to page 20
60 UNIVERSAL GRADE High gloss grinding 4-flutes end mill cutter, refer to page 31

注意事项:
请选用正确规格的导针;刀尖伸出安装孔的距离不要超过20mm;
GLADAID和精准钥匙机请选用特定规格的铣刀,详情可咨询RAISE的工程师。

Attention:
Please choose the Corresponding tracer point size, The distance from the tip of cutter to the mounting hole should less than 20mm.
For GLADAID and MODERN key machines, please use a specific size end mill cutter. For details, please contact RAISE engineers.

SOLID CARBIDE HELICAL END MILL CUTTER RAISE LANGYA 锐正狼牙™ 钨钢螺旋立铣刀

通用55系列

55 COMMON GRADE

锋利,加工钥匙无毛刺 Sharp, processing keys without burrs



规格表 Specification Form

订货编号 Order Code	锐正代码 RAISE Ref	d 规格 Size	可替代产品的代码 Replaceable cutters Ref
P-3515	EW5509B	0.9mm	0038#
P-3244	EW5510B	1.0mm	0039#
P-3120	EW5512B	1.2mm	0039B#
P-3121	EW5515B	1.5mm	JMA F3 / JMA F3W / 0040#
P-3122	EW5520B	2.0mm	JMA F33 / SILCA F44 / 0041#
P-3124	EW5525B	2.5mm	JMA F11 / JMA F11W / SILCA F22 / 0042#
P-3127	EW5530B-4F	3.0mm	JMA F17 / SILCA F30 / 0043#

适用机型:各种手动钥匙机

Suit for machine:
various vertical manual key machines,
such as

- 363 383AC
- 333L 388AC
- 339 398AC
- 369 399AC
- 368A&B Q36
- 398AC Q38
- 399AC Q39
- 369 Q30
- 368B Q32 Q31



注意事项:
请选用正确规格的导针;刀尖伸出安装孔的距离不要超过20mm;
GLADAID和精准钥匙机请选用特定规格的铣刀,详情可咨询RAISE的工程师。

Attention:
Please choose the Corresponding tracer point size, The distance from the tip of cutter to the mounting hole should less than 20mm.
For GLADAID and JZ MODERN key machines, please use a specific size end mill cutter. For details, please contact RAISE engineers.

材料

全钨钢抗冲击材料磨制而成,耐磨性好,抗冲击性能好。
It is made of solid carbide impact-resistant material, with good wear resistance and good impact resistance.

工艺

全自动化磨削中心磨制,刃口锋利。

Manufacturing process

Be produced by 5-axis grinding center. Cutter edge is very sharp.

特性

刀刃锋利,抗断性刀尖保护,刀尖强度更大;适合钥匙机使用的槽型和角度,抗冲击性能好。

Features

Cutter edge is sharp, Tip protection against break. It is suitable for making key groove, Inner groove or outside groove, with good impact resistance.

优势

适用于C级锁芯多轨道钥匙的加工,加工的钥匙槽口光滑,没有毛刺,可以切削铜钥匙,白铜钥匙,黄铜钥匙。

Advantages

It is suitable for the processing of C-class lock cylinder multi-track key. The processed key slot is smooth and has no burrs. It can cut copper key, nickel silver key and brass key.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙,特别适合加工C级锁芯多轨道钥匙,各种内铣外铣汽车钥匙。

Suit for processing keys:

Internal milling slots and external milling slots, especially suitable for machining C-class lock cylinder multi-track keys, various internal milling and external keys, laser keys, standard automotive keys, High Security keys.

对应的导针规格详见21页,对应的滑爽型导针规格详见32页

Corresponding tracer point specifications, refer to page 21.
Corresponding smooth tracer point specifications, refer to page 32.

同样功能

55系列单刃铣刀抗断设计锐正青虹刀,可参照19页
60系列高光4刃螺旋立铣刀,可参照31页

Same function

55 COMMON GRADE single-edge end mill cutter anti-break design RAISE QIHONG cutter, refer to page 19.
60 UNIVERSAL GRADE High gloss grinding 4-flutes end mill cutter, refer to page 31.



HSS TRACER POINT FOR VERTICAL MECHANICAL KEY MACHINE

高速钢立式钥匙机定位导针



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3580	TH7009	0.9mm	0068
P-667	TH7010	1.0mm	0069
P-1149	TH7012	1.2mm	0069B
P-668	TH7015	1.5mm	JMA P3 / SILCA T3 / 0070
P-669	TH7020	2.0mm	JMA P33 / SILCA T44 / 0071 / T114
P-672	TH7025	2.5mm	JMA P11 / SILCA T22 / 0072 / T101
P-673	TH7030	3.0mm	JMA P17 / SILCA T30 / 0073 / T129

适用机型:各种立式手动钥匙机;如

Suit for Machine: various vertical manual key machines, such as

- 363 383AC
- 333L 388AC
- 339 398AC
- 369 399AC
- 368A&B Q36
- 398AC Q38
- 399AC Q39
- 369 Q30
- 368B Q32 Q31



材料

高硬度高速工具钢磨制, 淬火60HRC以上, 硬度高, 不变形。

特性

尺寸精度高, 柄部光滑, 与钥匙机轴配合度高, 钥匙定位准确。

优势

刃部去毛刺工艺, 钥匙轨迹定位滑动流畅, 有效克服阻力。

Material

It is made of High-hardness high speed steel, HARDNESS above 60HRC, higher hardness, no deformation.

Features

Good dimensional accuracy, smooth handle, good cooperation with the key cutting machine shaft, accurate key positioning.

Advantages

Deburring process of the cutter edge, the key track is positioned to slide smoothly, effectively overcome the resistance.



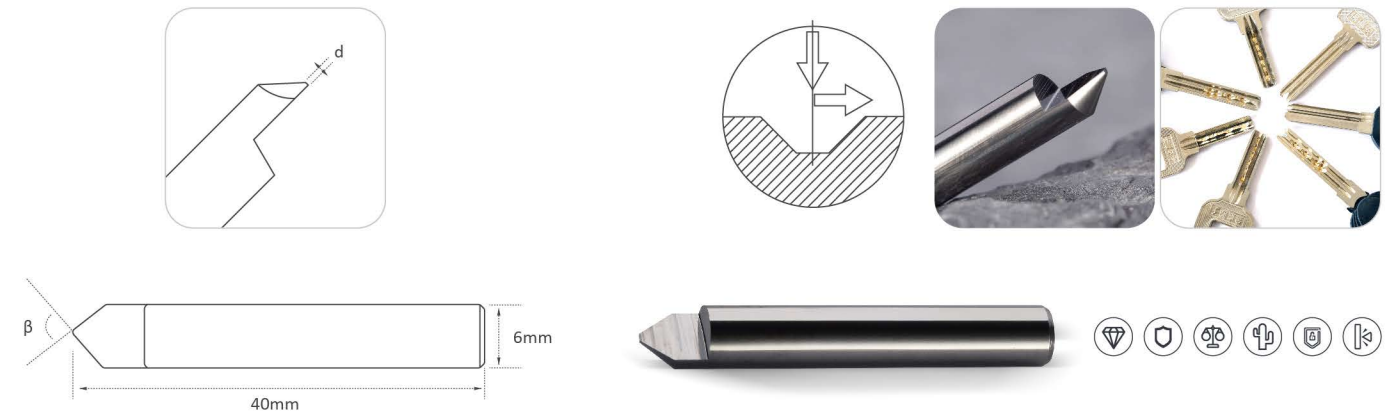
可配合所有锐正RAISE的立式钥匙铣刀使用, 规格详见19页, 20页, 31页
Can be suitable for all RAISE vertical key milling cutters, refer to page 19, page 20, page 31

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂白铜钥匙 Cutting 100 pieces original Nickel Silver keys



SOLID CARBIDE SINGLE-EDGED DIMPLE CUTTER 钨钢半圆型打孔扁钻

锋利大钻力 Sharp and large drilling force



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width	可替代产品代码 Replaceable cutters Ref
P-4013	DW1082	82°	0.8mm	SILCA F26 / W62 / 0060Q#
P-3768	DW1090	90°	0.8mm	F1-CA / F1W / F5
P-506	DW1095	95°	0.8mm	F49W / 0060#
P-4014	DW1100	100°	0.8mm	SILCA F42 / 0061#
P-4015	DW1106	106°	1.0mm	W63 / SILCA F6 / 0062#

适用机型: 各种立式手动钥匙机, 也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for Machine: various vertical manual key machines, suitable for manual key machines such as SILCA, JMA, JINGJI, etc.

- 363 368A&B 368B 399AC Q30
- 333L 398AC 383AC Q36 Q32
- 339 399AC 388AC Q38 Q31
- 369 369 398AC Q39 SILCA, JMA, JINGJI



材料

全钨钢抗冲击材料磨制而成, 耐磨性好, 抗冲击性能好。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

工艺

大钻力刀尖设计, 断屑快; 全自动化磨削中心磨制, 刃口锋利。

Manufacturing process

Large drilling force cutter tip design, fast chip removal, be produced by 5-axis grinding center. Cutter edge is very sharp.

特性

刀刃锋利, 独特的后角设计, 打深孔时不会震动。

Features

Sharp cutter edge, unique back angle design, no vibration when deep hole.

优势

适用于各种铜钥匙和铁钥匙的钻孔。

Advantages

Suitable for drilling various copper keys and iron keys.

适合加工的钥匙: 防盗门钥匙, 金点原子, 卡巴, 美利保, 保德安, 单排珠打孔钥匙。

Suit for processing keys: Security door key, goldatom, KABA, Meilibao, Baodean, a row of slot pin.

对应的通用55系列导针规格详见25页

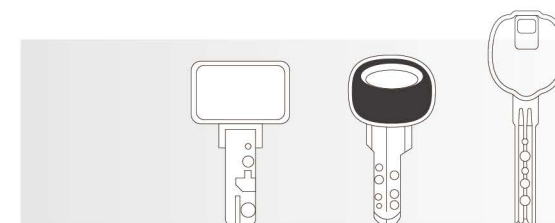
对应的双刃打孔扁钻详见23页

对应的小头打孔扁钻详见26页

Corresponding 55 COMMON GRADE tracer point specifications, please refer to page 25.

Corresponding double-edge dimpling cutter specifications, please refer to page 23.

Corresponding small head dimple cutter for Double Row of Pins, please refer to page 26.



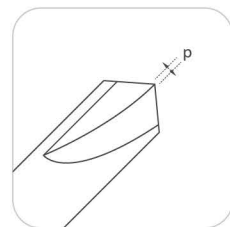
SOLID CARBIDE DOUBLE-EDGED DIMPLE CUTTER 钨钢双刃直槽打孔扁钻

23

通用55系列

55 COMMON GRADE

平稳, 抗断 Smooth, Stronger teeth to prevent broken



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width	可替代产品代码 Replaceable cutters Ref
P-3328	DW2090-J4.5	90°小头 small head	1.0mm	
P-3263	DW2095-J4.5	95°小头 small head	1.0mm	
P-3325	DW2105-J4.5	105°小头 small head	1.0mm	
P-695	DW2090	90°	1.0mm	F1-CA / F1W / 0060B#
P-694	DW2095	95°	1.0mm	F49W / 0060#
P-1173	DW2105	105°	1.0mm	W63 / SILCA F6 / 0062#

适用机型: 各种立式手动钥匙机, 也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for Machine: various vertical manual key machines, suitable for manual key machines such as SILCA, JMA, JINGJI, etc.

363	368A&B	368B	399AC
333L	398AC	383AC	Q36
339	399AC	388AC	Q38
369	369	398AC	Q39



材料

全钨钢抗冲击材料磨制而成, 耐磨性好, 抗冲击性能好。

工艺

全自动化磨削中心磨制, 刃口锋利。

特性

抗断性刀尖保护, 抗冲击性能好, 耐用, 钻削平稳。

优势

适用于各种铜钥匙和铁钥匙的钻孔。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

Manufacturing process

Fully automated grinding center for grinding, sharp cutter edge.

Features

Anti-break tip protection, good impact resistance, durability, and stable drilling.

Advantages

Drilling for various copper keys and iron keys.

适合加工的钥匙: 防盗门钥匙, 卡巴, 美利保, 保德安。

Suit for processing keys:

Security door key, goldatom, KABA, Meilibao, Baodean.

对应的55系列导针规格详见25页

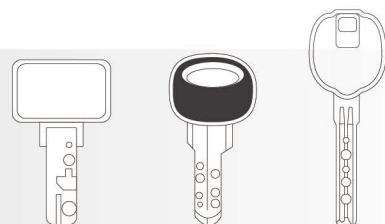
对应的半圆打孔扁钻详见22页

对应的小头打孔扁钻详见26页

Corresponding 55 COMMON GRADE tracer point specifications, please refer to page 25.

Corresponding semi-circular dimple cutters, please refer to page 22.

Corresponding small head dimple cutters for Double Row of Pins, please refer to page 26.



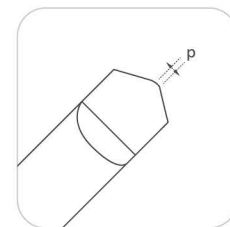
SOLID CARBIDE DOUBLE-SIDE DIMPLE CUTTER 钨钢双面型打孔扁钻

通用55系列

24

55 COMMON GRADE

平稳 Smooth



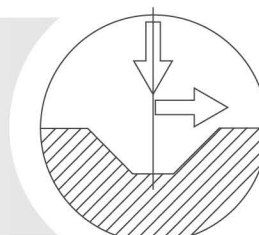
规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width	可替代产品代码 Replaceable cutters Ref
P-698	DW3090	90°	1.0mm	0060B#
P-699	DW3095	95°	1.0mm	0060#
P-701	DW3105	105°	1.0mm	0062#

适用机型: 各种立式手动钥匙机, 也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for Machine: various vertical manual key machines, suitable for manual key machines such as SILCA, JMA, JINGJI, etc.

363	368A&B	368B	399AC
333L	398AC	383AC	Q36
339	399AC	388AC	Q38
369	369	398AC	Q39



材料

全钨钢抗冲击材料磨制而成, 耐磨性好, 抗冲击性能好。

工艺

大钻力刀尖设计, 断屑快; 全自动化磨削中心磨制, 刃口锋利。

特性

刀刃锋利, 独特的后角设计, 打深孔时不会震动。

优势

适用于各种铜钥匙和铁钥匙的钻孔。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

Manufacturing process

large drilling force cutter tip design, fast chip removal, be produced by 5-axis grinding center. Cutter edge is very sharp.

Features

Sharp cutter edge, unique back angle design, no vibration when deep hole.

Advantages

Suitable for drilling various copper keys and iron keys, Single Row of Pins.

适合加工的钥匙: 防盗门钥匙, 金点原子, 卡巴, 美利保, 保德安, 单排珠打孔钥匙。

Suit for processing keys:

Security door key, goldatom, KABA, Meilibao, Baodean, a row of slot pin.

对应的通用55系列导针规格详见25页

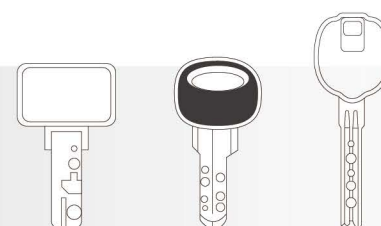
对应的双刃打孔扁钻详见23页

对应的小头打孔扁钻详见26页

Corresponding 55 COMMON GRADE tracer point specifications, please refer to page 25.

Corresponding double-edge dimpling cutter specifications, please refer to page 23.

Corresponding small head dimple cutter for Double Row of Pins, please refer to page 26.



高速钢打孔定位导针

精确 Accuracy



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width	可替代产品代码 Replaceable cutters Ref
P-678	TH8080	80°	0.7mm	0080Q / T26
P-679	TH8090	90°	0.7mm	0080B / T1
P-680	TH8095	95°	0.7mm	0080 / T49
P-681	TH8100	100°	0.7mm	0081 / T42
P-682	TH8105	105°	0.9mm	0082

适用机型: 各种立式手动钥匙机

Suit for Machine: various vertical manual key machines

363	368A&B	368B	399AC
333L	398AC	383AC	Q36
339	399AC	388AC	Q38
369	369	398AC	Q39



材料

高硬度工具钢磨制, 淬火60HRC以上, 硬度高, 不变形。

优势

尺寸精准度好, 柄部光滑, 与钥匙机轴配合度高, 钥匙定位准确。

Material

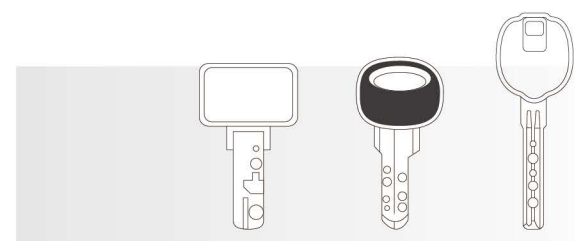
It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

Advantages

Good dimensional accuracy, smooth handle, high degree of cooperation with the key cutting machine shaft, accurate key positioning.

适合加工的钥匙: 单排珠打孔钥匙。

Suit for processing keys: Single-row bead punch key.



对应的半圆形打孔钻头规格详见22页

对应的双刃直槽打孔钻头规格详见23页

双排珠钥匙, 小头导针详见27页

Corresponding semi-circular dimple cutters, please refer to page 22.

Corresponding double-edged straight groove dimple cutters, please refer to page 23.

Double-row bead key, small head tracer points are detailed in page 27.

钨钢半圆型小头打孔扁钻

锋利 不会打到夹具 Sharp and Not hit the jaw



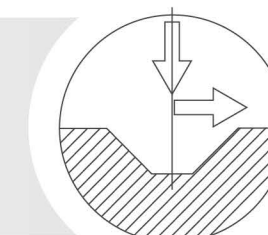
规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width
P-1224	DW1090-4.5	90°	0.8mm
P-1223	DW1095-4.5-0.8	95°	0.8mm
P-1222	DW1105-4.5-1.0	105°	1.0mm

适用机型: 各种立式手动钥匙机, 也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for Machine: various vertical manual key machines, suitable for manual key machines such as SILCA, JMA, JINGJI, etc.

363	368A&B	368B	399AC
333L	398AC	383AC	Q36
339	399AC	388AC	Q38
369	369	398AC	Q39



材料

全钨钢抗冲击材料磨制而成, 耐磨性好, 抗冲击性能好。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

工艺

大钻力刀尖设计, 断屑快; 全自动化磨削中心磨制, 刃口锋利。

Manufacturing process

Large drilling force cutter tip design, fast chip removal, be produced by 5-axis grinding center. Cutter edge is very sharp.

特性

刀刃锋利, 独特的后角设计, 打深孔时不会震动。

Features

Sharp cutter edge, unique back angle design, no vibration when deep hole.

优势

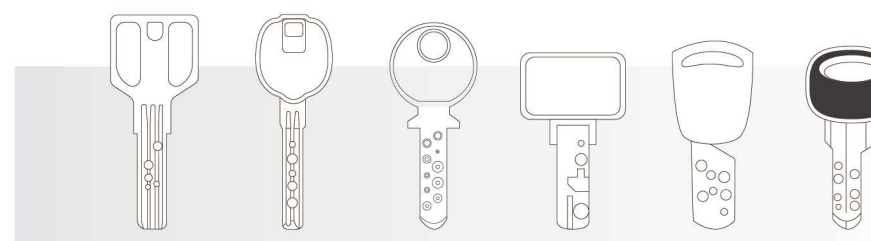
适用于各种铜钥匙和铁钥匙的钻孔。

Advantages

Suitable for drilling various copper keys and iron keys, Single Row of Pins.

适合加工的钥匙: 防盗门钥匙, 卡巴, 美利保, 保德安。

Suit for processing keys: Security door key, goldatom, KABA, Meilibao, Baodean.



对应的小头导针规格详见27页

Corresponding small head dimple tracer points, please refer to page 27.

HSS TRACER POINT FOR DIMPLING FOR DOUBLE ROW OF PINS

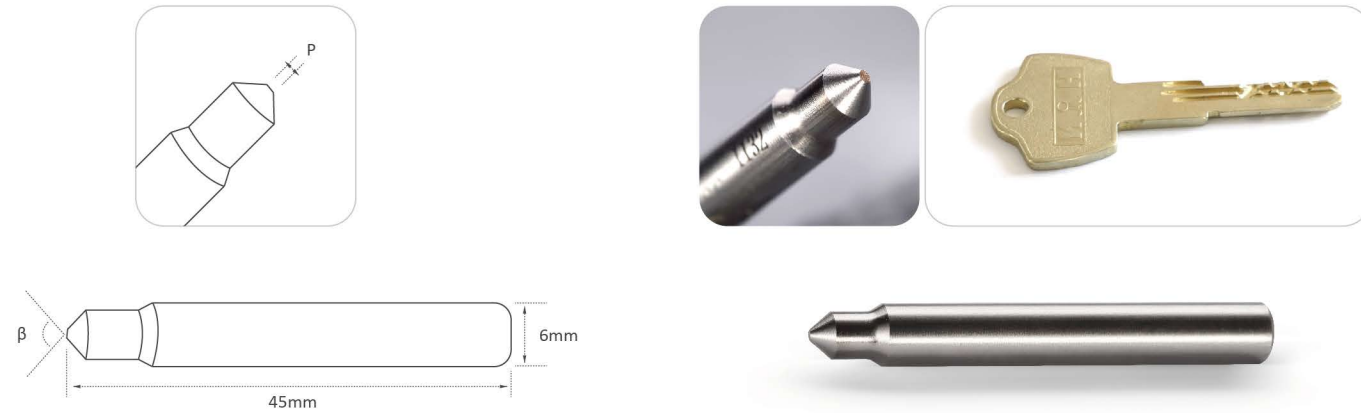
27

通用55系列

55 COMMON GRADE

高速钢小头打孔定位导针

双排珠钥匙使用 For double row of pins



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip Width	可替代产品代码 Replaceable cutters Ref
P-2941	TH8080-J4.5	80°	0.8	T5 / T13 / P5
P-3386	TH8090-J4.5	90°	0.8	
P-1472	TH8095-J4.5	95°	0.8	
P-1475	TH8105-J4.5	105°	0.9	

适用机型:各种立式手动钥匙机,也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for Machine:
Various vertical manual key machines can also be used in SILCA, JMA, JINGJI and other manual key machines.

363	369	399AC	383AC	399AC
333L	368A&B	369	388AC	Q36
339	398AC	368B	398AC	Q38 Q39



材料

高硬度工具钢磨制, 淬火60HRC以上, 硬度高, 不变形。

Material

It is made of High-hardness high speed steel, HARDNESS above 60HRC, higher hardness, no deformation.

特性

尺寸精度高, 角度精准, 柄部光滑, 与钥匙机轴配合度高, 钥匙定位准确。

Features

Good dimensional accuracy, angle accuracy, smooth handle, Close coordination with the key cutting machine Cutter shaft, accurate key positioning.

优势

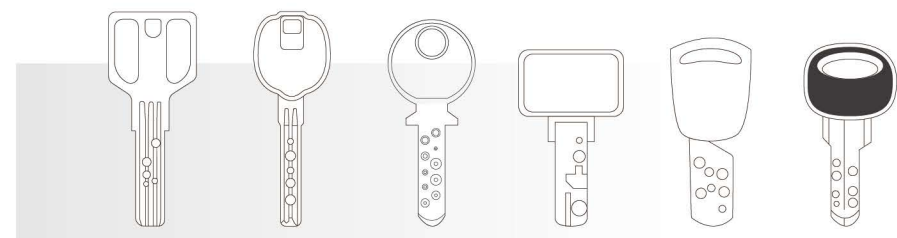
头部直径变小, 适合加工双排弹珠钥匙, 避开夹具干扰。

Advantages

The head diameter becomes smaller, suit for processing the double row of pins key, avoid the jaw interference.

适合加工的钥匙: 防盗门钥匙, 卡巴, 美利保, 保德安。

Suit for processing keys: Security door key, goldatom, KABA, Meilibao, Baodean.



对应的小头扁钻规格详见26页

Corresponding small head dimple cutter for Double Row of Pins, please refer to page 26.

ELECTRONIC KEY CUTTING MACHINES MILLING CUTTER AND TRACER POINT

通用55系列

28

55 COMMON GRADE

普及型数控钥匙机钨钢铣刀及导针



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3123	EW5520LB	2.0mm	T60-E20-P
P-3900	EW5525LB	2.5mm	
P-707	TW6110	1.0mm	T60-P10

适用机型:
通用型数控钥匙机
Miracle A7, A9, SEC-E9

Suit for machine:
Universal electronic key cutting machines, Miracle A7, A9, SEC-E9, CONDOR

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

The electronic key cutting machines carbide tracer point has good conductivity, and it will not bent, ensuring accurate detection and not hurting the jaw and the spindle.

材料

高硬度钨钢磨制, 耐磨性好, 抗冲击性能好。

Material

It is made of solid carbide, the material is impact-resistant material, with good wear resistance and good impact resistance.

工艺

全自动化磨削中心磨制, 刃口锋利。

Manufacturing process

5-axis grinding center fully automated grinding, sharp cutting edge.

品质

柄部圆度好, 匹配所有数控钥匙机的刀轴, 大大降低高速旋转时的刀刀偏摆。

Quality

The roundness of the handle is good, matching the cutter shaft of all electronic key cutting machines, greatly reducing the blade yaw during high-speed rotation.

特性

尺寸精准, 切割钥匙尺寸精密度高。

Features

Precise size, high precision of cutting key size.

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。

Advantages

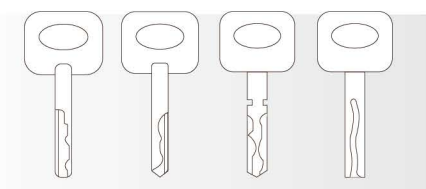
Sharp, can cut brass key and nickel silver key, smooth cutter edge, no burrs.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工进口要硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys:

All internal milling slots and external milling slot keys, suitable for processing nickel silver keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



更高等级的同型号60系列的数控机铣刀和导针规格详见37页, 38页

Better quality 60 UNIVERSAL GRADE electronic key milling cutters and tracer points, please refer to page 37, page 38.

子母珠钥匙专用铣刀套装 (整体钨钢打孔刀和W刀)



规格表 Specification

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Specifications	产品代码 Cutters Ref
P-709	Mul-T-Lock	4 in sets	No.0100 / No.0090w / No.0103 / No.0093w

适用机型:各种立式手动钥匙机

Suit for machine:
Various manual vertical
key cutting machines



材料

钻头采用全钨钢抗冲击材料磨制而成, 耐磨性好, 抗冲击性能好。

Material

It is made of solid carbide, the material is impact-resistant material with good wear resistance and good impact resistance.

工艺

大钻头刀尖设计, 断屑快; 钨钢W钻孔刀, 锋利, 排屑好。

Manufacturing process

Large drilling force cutter tip design, fast chip removal; W carbide dimple is sharp, good chip removal.

优势

角度准确, 配出的子母钥匙开启率高。

Advantages

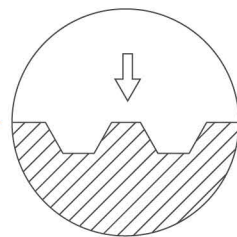
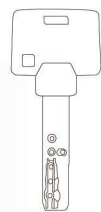
The angle is accurate, and opening rate of copying key is high.

适合加工的钥匙:

无敌钥匙, Mul-T-Lock钥匙, 保德安, 卡德曼等。

Suit for processing keys:

Mul-T-Lock keys, Baodean, Kademan etc.



CARBIDE MUL-T-LOCK
SPECIAL MILLING CUTTER SET

SOLID CARBIDE HIGH GLOSS GRINDING 4 FLUTES END MILL CUTTER

高光型钨钢4刃钥匙机立铣刀

锋利抗断 Sharp and anti-breaking, longer life



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3850	EW6009B-4F	0.9mm	0038#
P-4041	EW6010B-4F	1.0mm	0039#
P-4042	EW6012B-4F	1.2mm	0039B#
P-3851	EW6015B-4F	1.5mm	JMA F3 / JMA F3W / 0040#
P-3852	EW6020B-4F	2.0mm	JMA F33 / SILCA F44 / 0041#
P-3823	EW6025B-4F	2.5mm	JMA F11 / SILCA F22 / 0042#
P-3412	EW6030B-4F	3.0mm	JMA F17 / SILCA F30 / 0043#

适用机型:各种手动钥匙机

Suit for machine:
various vertical manual key machines

- 363 383AC
- 333L 388AC
- 339 398AC
- 369 399AC
- 368A&B Q36
- 398AC Q38
- 399AC Q39
- 369 Q30
- 368B Q32



材料

选用高等级耐磨抗断钨钢材料,超细颗粒,钴含量高,材料耐磨性好,更不易断。

Material

It is made of high grade wear resistance and anti-breaking carbide material, Co%>10%, ultrafine grain, high cobalt content, good wear resistance and not easily broken.

加工工艺

全自动化磨削中心磨制,全钨钢材料抛光工艺,刃口锋利,可以切削铜钥匙,白铜钥匙,镍铜钥匙,包括本田、大众原厂钥匙。

Manufacturing process

Be produced by 5-axis grinding center. High gloss grinding, sharp edge, can cut copper key, nickel silver key, including Honda, Volkswagen original key and STRATTEC keys.

特点

4个刀刃,抗断性刀尖保护,抗冲击性能好,有效克服断刀问题;适用于C级锁芯多轨道钥匙的加工,加工的钥匙槽口光滑,没有毛刺。

Features

4 cutting edges, Stronger teeth design to prevent broken, good impact resistance, effectively overcome the problem of broken cutter; suitable for the processing of C-class key cylinder multi-track key, processed groove is smooth without burrs.

适合加工的钥匙: (所有内铣槽和外铣槽钥匙)

特别适合加工C级锁芯多轨道钥匙,各种内铣外铣槽汽车钥匙。适合切削铜钥匙,白铜钥匙,镍铜钥匙,包括本田、大众原厂钥匙。

Suit for processing keys:

Especially suitable for processing C-class lock cylinder multi-track keys, all internal milling slots and external milling slot keys. Suitable to cut copper key, white copper key, nickel silver key, including Honda, Volkswagen original key and STRATTEC keys.

对应的60系列导针规格详见32页

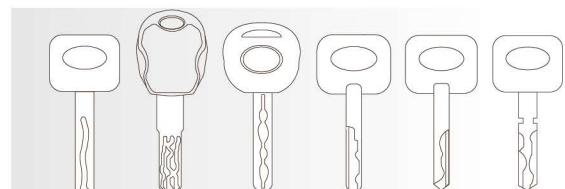
Corresponding 60 UNIVERSAL GRADE tracer point, please refer to page 32.

同样功能,不同系列的铣刀

55系列单刃铣刀抗断性设计青虹刀,可参照19页。55系列3刃螺旋立铣刀,可参照20页。

Same function, different series

55 COMMON GRADE single flutes end mill RAISE QIHONG refer to page 19. 55 COMMON GRADE 3 flutes end mill cutter refer to page 20.



SOLID CARBIDE SMOOTH AND LOW DRAG TRACER POINT 钨钢滑爽型导针

低阻力不卡顿,在曲线轨道母钥匙槽走轨迹容易转弯,大大减少断刀现象,永不生锈
Smooth tracer, easily trajectory in the mother key, protect cutters avoid broken



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-4011	TW7009	0.9mm	0068
P-4007	TW7010	1.0mm	0069
P-4008	TW7012	1.2mm	0069B
P-1218	TW7015	1.5mm	0070 / T3
P-1219	TW7020	2.0mm	0071
P-1220	TW7025	2.5mm	0072
P-4009	TW7030	3.0mm	0073 / T30

适用机型:各种手动钥匙机

Suit for Machine:
Various vertical manual key machines

- 363 383AC
- 333L 388AC
- 339 398AC
- 369 399AC
- 368A&B Q36
- 398AC Q38
- 399AC Q39
- 369 Q30
- 368B Q32



材料

选用韧性好的钨钢材料加工而成,不会折弯,基本不会磨损,长久保证尺寸。

Material

Choose impact resistance carbide, don't bend and wear, guarantee size precision.

加工工艺

全自动化专用设备磨制,端面圆润光滑,尺寸精准。

Manufacturing process

Automotive grinding, cutter polishing, size precision.

特性

在C级多轨道钥匙槽内滑动不卡顿,走刀顺畅,由于加工钥匙时导针卡顿,手拿不稳的时候特别容易断刀,所以导针滑动顺畅,大大减少断刀现象。

Features

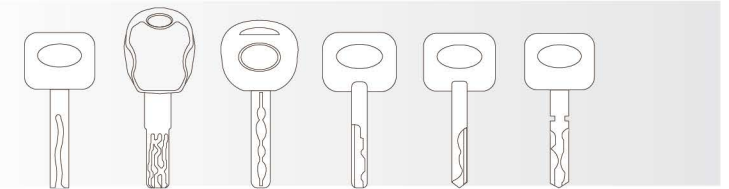
Process C-class multi-track key smoothly, easily Trajectory in the mother key. Due to cutter break easily when cutting key, polishing tracer will protect cutters from breaking.

适合加工的钥匙: (所有内铣槽和外铣槽钥匙)

特别适合加工C级锁芯多轨道钥匙的导针定位,各种内铣

Suit for processing keys:

Very suitable to process of C-class key cylinder multi-track and external milling slot keys.



对应的60系列铣刀规格详见31页

Corresponding 60 UNIVERSAL GRADE end mill cutter, please refer to page 31.

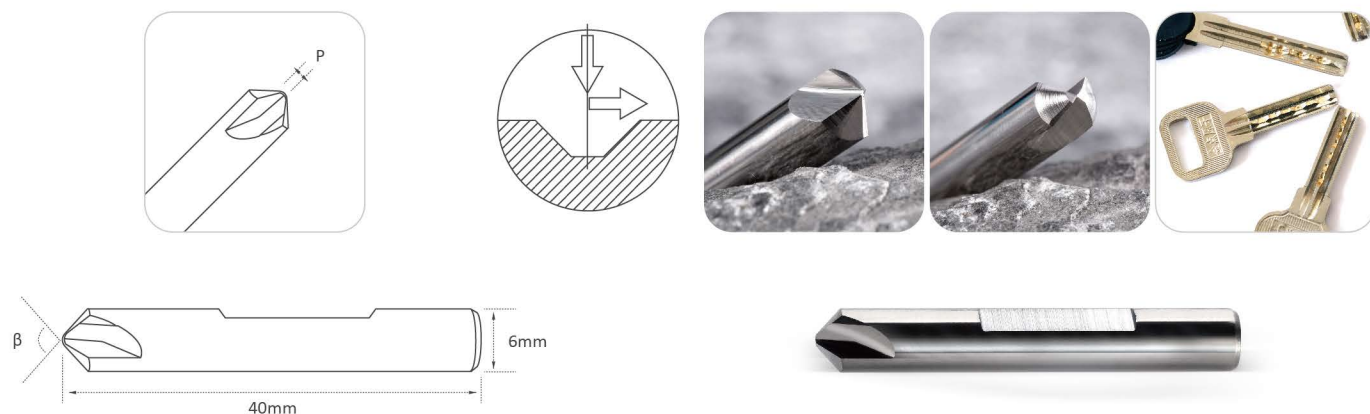
	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙,副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂白铜钥匙 Cutting 100 pieces original Nickel Silver keys

SOLID CARBIDE DIMPLE CUTTER 钨钢钻铣打孔刀

专业60系列

60 UNIVERSAL GRADE

锋利, 平稳钻孔 Sharp and smooth drilling



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-3501	DW5080-0.7	80°	0.7mm	W138 / D722580ZB
P-2157	DW5090-0.8	90°	0.8mm	W103 / W238 / W105 / F1W / F5
P-3426	DW5095-0.8	95°	0.8mm	W234
P-2841	DW5100-0.8	100°	0.8mm	0061# / W289 / W113 / W110 / SILCA F42 / JMA F13W
P-4004	DW5106-1.0	106°	1.0mm	W63 / F6 / 0062# / W102

适用机型: 各种立式钥匙机
也可用于SILCA, JMA, JINGJI等手动钥匙机。

Suit for machine:
Various vertical key machines.
And suit for SILCA, JMA, JINGJI manual key cutting machine

363	369	399AC	383AC	399AC
333L	368A&B	369	388AC	Q36
339	398AC	368B	398AC	Q38
				Q39



材料

选用高等级耐磨抗断钨钢材料加工而成, 材料耐磨性好, 抗冲击。

Material

Made of high-grade wear-resistant solid carbide, the material has good wear resistance and impact resistance.

工艺

刀尖采用钻头设计, 全自动化磨削中心磨制, 刃口锋利, 可以加工各种材质的钥匙。

Manufacturing process

The tool tip is designed with a drilling and milling head, ground by a full-automatic grinding center, sharp cutting edge, which can process keys of various materials.

特性

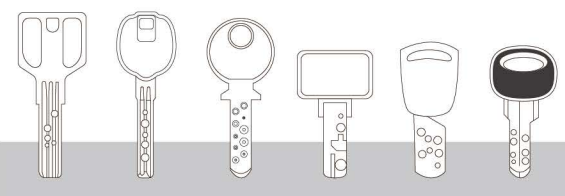
大钻力刀尖设计, 断屑快, 钻削轻快, 无震动; 加工的钥匙槽口光滑, 没有毛刺。

Features

High drill force design, fast chip removal, light drilling and no vibration, processed key smoothly without burrs.

适合加工的钥匙: 防盗门钥匙, 卡巴, 美利保, 保德安。

Suit for processing keys:
Security door key, Kaba, Melibao, baodean.



对应的60系列钨钢导针规格详见34页

对应的普通型单刃扁钻规格详见22页

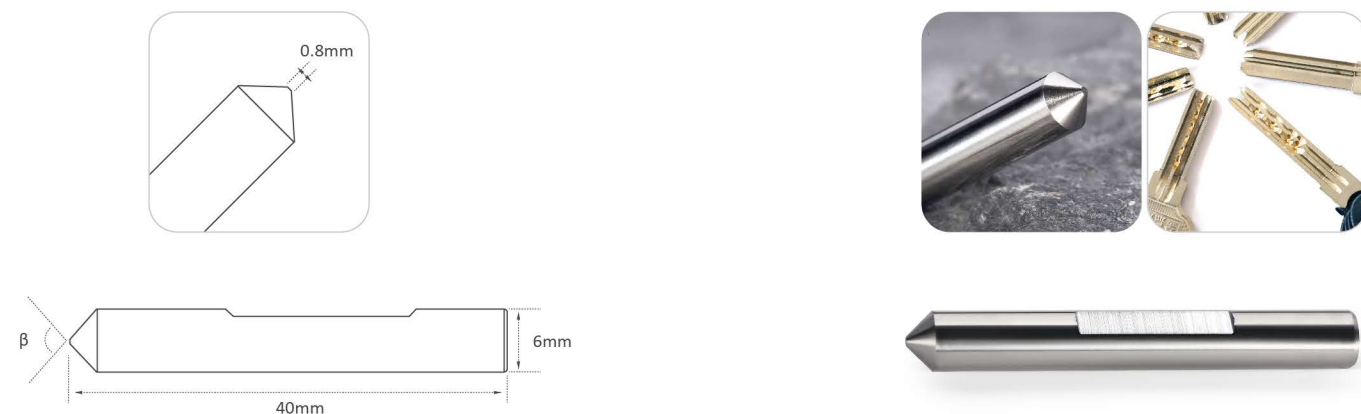
Corresponding 60 UNIVERSAL GRADE carbide tracer refer to page 34.
Corresponding common single-flute dimple cutter refer to page 22.

SOLID CARBIDE TRACER POINT FOR DIMPLING 钨钢角度导针

专业60系列

60 UNIVERSAL GRADE

精确耐磨, 永不生锈 Precision and wear resistance & Never rust



规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 规格角度 Angle	可替代产品代码 Replaceable cutters Ref
P-4016	T26W / TW8080	80°	TH8080 / T26 / 0080Q
P-4017	T1W / TW8090	90°	TH8090 / T1 / P1 / 0080B
P-4018	T49W / TW8095	95°	TH8095 / T49 / 0080
P-4019	T42W / TW8100	100°	TH8100 / T42 / 0081 / P13
P-4020	TW8105	105°	TH8105 / 0082

适用机型: 各种立式手动钥匙机

Suit for machine:
Various vertical manual key machines

363	368B
333L	383AC
339	388AC
369	398AC
368A&B	399AC
398AC	Q36
399AC	Q38
369	Q39



材料

整体钨钢, 硬度高, 不变形, 几乎没有磨损。

Material

It is made of carbide, high hardness, no deformation, almost no wear.

特性

尺寸精度高, 柄部光滑, 与钥匙机轴配合度高, 钥匙定位准确。

Features

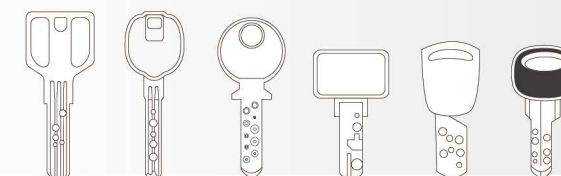
Size precision, smooth handle, high cooperation with the key cutting machine shaft, position accuracy.

适合加工的钥匙:

单排珠打孔钥匙: 步阳, 保德安, 美利保, 玥玛等。

Suit for processing keys:

Single row of slot pins: BUYANG, BAODEAN, MEILIBAO, YUEMA...



对应的钨钢钻头扁钻详见33页

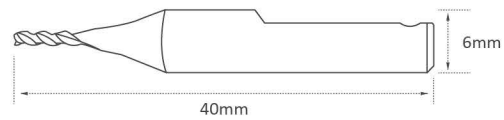
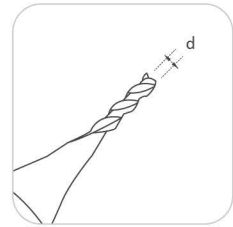
对应的半圆形打孔钻头规格详见22页

对应的双刃直槽打孔钻头规格详见23页

Corresponding carbide drill dimple cutter refer to page 33.
Corresponding single edge dimple cutter refer to page 22.
Corresponding 2 flutes straight groove dimple cutter refer to page 23.

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

开灵数控994钨钢铣刀(涂层)和钨钢导针



铣刀规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1332	EW6825-BS7	2.5mm	EW8025-BS7 / WC011A / B3320 / RIC05304B
P-2024	EW6830-BS7	3.0mm	EW8030-BS7 / DC011A / 03650
P-1573	EW6815G-BS7	1.5mm	EW8015G-BS7 / B4403 / CL005 / RIC09617B
P-636	EW6815L-BS7	1.5mm	EW8015L-BS7 / B3403 / CL004 / RIC08409B

适用机型 Suit for machine

BIANCHI 994 A Jaw, F Jaw, G Jaw



材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

工艺

全自动化磨削中心高光磨制, 刃口锋利, 噪音小; 侧面固定平面采用全磨制工艺, 安装时与钥匙机主轴匹配紧凑。

特性

尺寸精准, 切割钥匙尺寸精密度高; 刀刃锋利。

品质

柄部圆度好0.002mm, 大大降低高速旋转时的刀刃偏摆。

Material

It is made of high hardness and high wear resistance carbide material, ultra-fine grain and good wear resistance.

Manufacturing process

5-axis grinding center with high gloss grinding, sharp edge and low noise, side fix bench adopt full grinding process, and it is compact with the key machine spindle during installation.

Features

Precise size, high precision of cutting key; sharp.

Quality

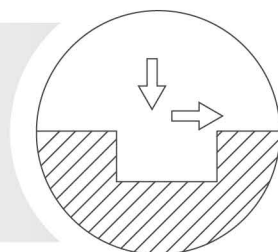
The roundness of the handle is 0.002mm, which greatly reduces the blade deflection problem during high-speed rotation.

优势

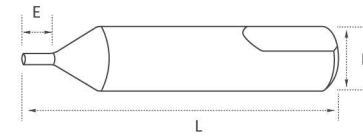
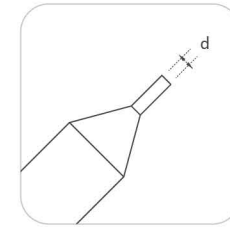
专门在994机器进行测试, 锋利, 可以切割黄铜钥匙和镍白铜钥匙, 本田原厂钥匙, STRATTEC钥匙坯, 刃口光滑, 无毛刺, 加工100条高硬度钥匙后继续使用。

Advantages

Specially tested in bianchi 994 machine, sharp, can cut brass key and nickel silver copper key, Honda original key, STRATTEC key blank, smooth, no burr, continue to use after processing 100 high hardness keys.



开灵数控994钨钢铣刀(涂层)和钨钢导针



导针规格表 Tracer Specification Form

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	E.mm	可替代产品代码 Replaceable cutters Ref
P-3896	B3310M / C011AM	6	1	30	2.6	B3310 / C011A
P-3897	B3404M / TL002M	6	1	33	6	B3404 / TL002
P-3898	TL003M	6	1	30	4.5	TL003

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

Carbide tracer point for electronic key cutting machine has good conductivity, and it will not bent, ensure accurate detection and guarantee the accuracy of the fixture and the spindle, not hurting the jaw and the spindle

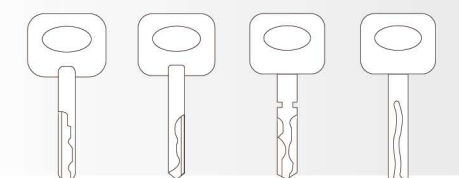


适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂高硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys:

All internal milling slots and external milling slot keys, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



对应的80系列994铣刀和导针规格详见49页, 50页

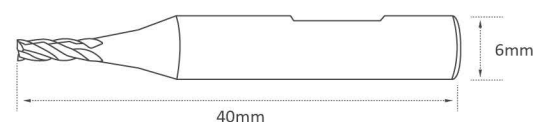
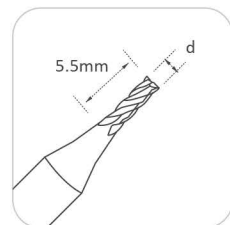
Corresponding TOP 80 SWISS GRADE 994 end mill cutter and tracer point refer to page 49, page 50

SOLID CARBIDE END MILL CUTTER AND TRACER POINT FOR ELECTRONIC KEY CUTTING MACHINE

专业60系列

60 UNIVERSAL GRADE

耐磨型钨钢数控钥匙机铣刀及导电型定位导针

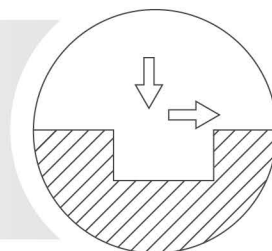


铣刀规格表 End mill cutter Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3512	EW6019L	1.9mm	T60-E20-P
P-1327	EW6515L	1.5mm	
P-637	EW6020L-4F	2.0mm	
P-1326	EW6025L	2.5mm	

适用机型 Suit for machine

通用型数控钥匙机, 韩国A7, A9, SEC-E9, CONDOR
 Universal electronic key cutting machine, Miracle A7, A9, SEC-E9, CONDOR



材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

工艺

全自动化磨削中心高光磨制, 刃口锋利, 噪音小。

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。

品质

柄部圆度好0.002mm, 大大降低高速旋转时的刀刀偏摆。

Material

imported high hardness and high wear resistance carbide material, ultra-fine grain and good wear resistance.

Manufacturing process

5-axis full automatic grinding center with high gloss grinding, sharp edge and low noise when cutting.

Advantages

Sharp, cut brass key and nickel silver copper key smoothly without burrs.

Quality

The roundness of the handle is 0.002mm, which greatly reduces the blade deflection during high-speed rotation.

特性

尺寸精准, 切割钥匙尺寸精密度高; 刀刃锋利, 针对数控钥匙机转速高的特点, 设计了易排屑的后角, 切削轻快。

Features

Accurate size, high precision of cutting key; sharp, suitable for high speed of the electronic key machine upto 12,000RPM, we design back angle of easy chip removal, cut fast and light.



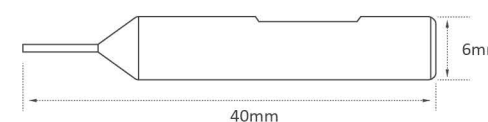
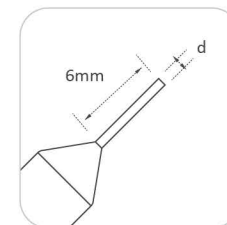
SOLID CARBIDE END MILL CUTTER AND TRACER POINT FOR ELECTRONIC KEY CUTTING MACHINE

专业60系列

60 UNIVERSAL GRADE

耐磨型钨钢数控钥匙机铣刀及导电型定位导针

锋利耐磨 Sharp and wear resistance



导针规格表 Tracer specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-707	TW6110 (tracer)	1.0mm	T60-P10



数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

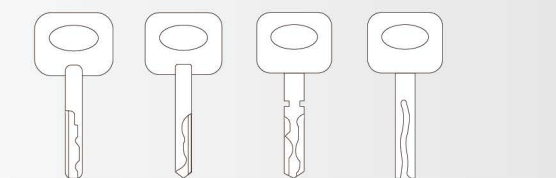
Carbide tracer point for electronic key cutting machine has good conductivity, and it will not bent, ensure accurate detection and guarantee the accuracy of the fixture and the spindle, not hurting the jaw and the spindle.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以加工匙坯, 如本田原厂钥匙, STRATTEC 钥匙坯等。

Suit for processing keys:

All internal milling slots and external milling slot keys, suit silver copper keys, can efficiently process original high hard Honda original keys, STRATTEC key blanks, etc.

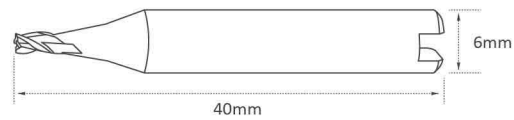
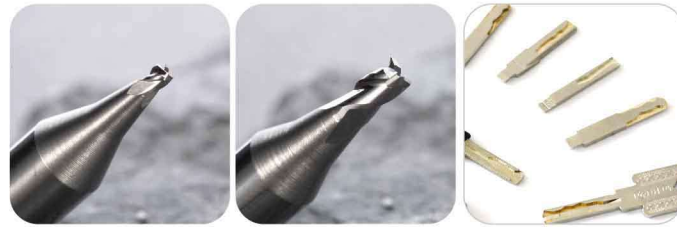
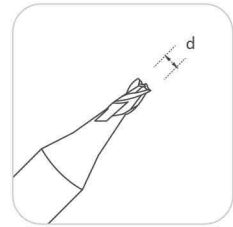


对应的55系列数控钥匙机铣刀和导针规格详见28页

Corresponding 55 COMMON GRADE end mill cutter and tracer point refer to page 28.

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

胜家Viper钨钢铣刀和导针

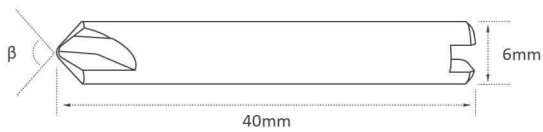
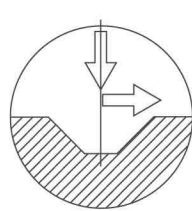
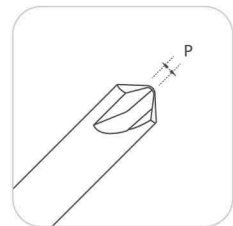


铣刀规格表 End mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3524	W114M	2.0mm	D709482ZB / W114 / H114
P-3718	W101M	2.5mm	D709238ZB / W101 / H101
P-1716	W129M	3.0mm	D711604ZB / W129 / H129

适用机型 Suit for machine

数控钥匙机, 韦伯, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code, KABA ILCO TRICODE HS
Electronic key cutting machine, Viper, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code, KABA ILCO TRICODE HS



打孔刀规格表 Dimple cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-3501	DW5080-0.7	80°	0.7mm	W138 / D722580ZB
P-2157	DW5090-0.8	90°	0.8mm	W103 / W238 / W105 / F1W
P-3426	DW5095-0.8	95°	0.8mm	W234
P-2841	DW5100-0.8	100°	0.8mm	0061# / W289 / W113 / W110 / SILCA F42 / JMA F13W
P-4004	DW5106-1.0	106°	1.0mm	W63 / F6 / 0062# / W102

特性

大钻力刀尖设计, 断屑快, 钻削轻快, 无震动; 加工的钥匙槽口光滑, 没有毛刺。

Features

high drill force design, cut quickly without shock, processed key smooth without burrs.

胜家Viper钨钢铣刀和导针

Material

It is made of imported high hardness and high wear resistance carbide material, ultrafine grain and good wear resistance.

Manufacturing process

5-axis full automatic grinding center with high gloss grinding, sharp and low noise.

Quality

The roundness of the handle is 0.002mm, which greatly reduces the blade deflection during high-speed rotation.

Features

Accurate size, high precision of cutting key, sharp, aimed at the high speed of the electronic key machine, we design back angle of easy chip removal, cut fast and light.

Advantages

Sharp, cut brass key and nickel silver copper key smooth without burrs.

材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

工艺

全自动化磨削中心高光加工, 刃口锋利, 切削噪音小。

特性

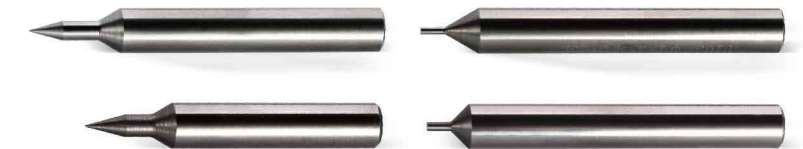
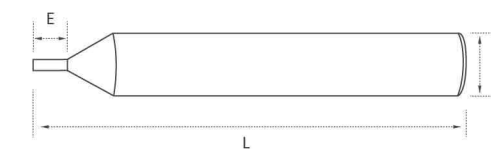
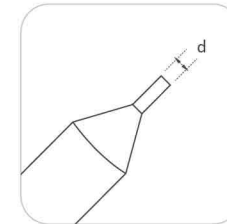
尺寸精准, 切割钥匙尺寸精度高; 刃口锋利, 针对数控钥匙机转速高的特点, 设计了易排屑的后角, 切削轻快。

品质

柄部圆度好0.002mm, 大大降低高速旋转时的刀刃偏摆。

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。



导针规格表 Tracer point specification Form

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	E.mm	可替代产品代码 Replaceable cutters Ref
P-1200	U101M	6	1.2	48	3	D909076ZR / U101
P-1201	U102M	6	2.6	48	9	D908994ZR / U102
P-1199	U102TTM	4	2	26	6	D917260ZR / U102TT
P-1202	U103M	6	1	48	3	D711108ZB / U103
P-1203	U103TTM	4	1	21	3	D917259ZR / U103TT

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

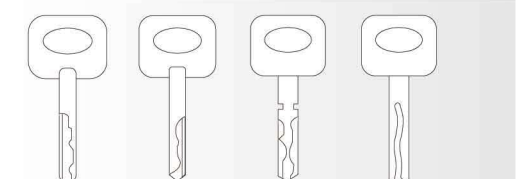
Carbide tracer point for electronic key machine has good conductivity, and it is not bent, ensure accurate detection and guarantee the accuracy of the fixture and the spindle.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂高硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys:

All internal milling slots and external milling slot keys, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



对应的80系列胜家Viper铣刀和导针规格详见51页, 52页

Corresponding TOP 80 SWISS GRADE viper end mill cutter and tracer point refer to page 51, page 52.

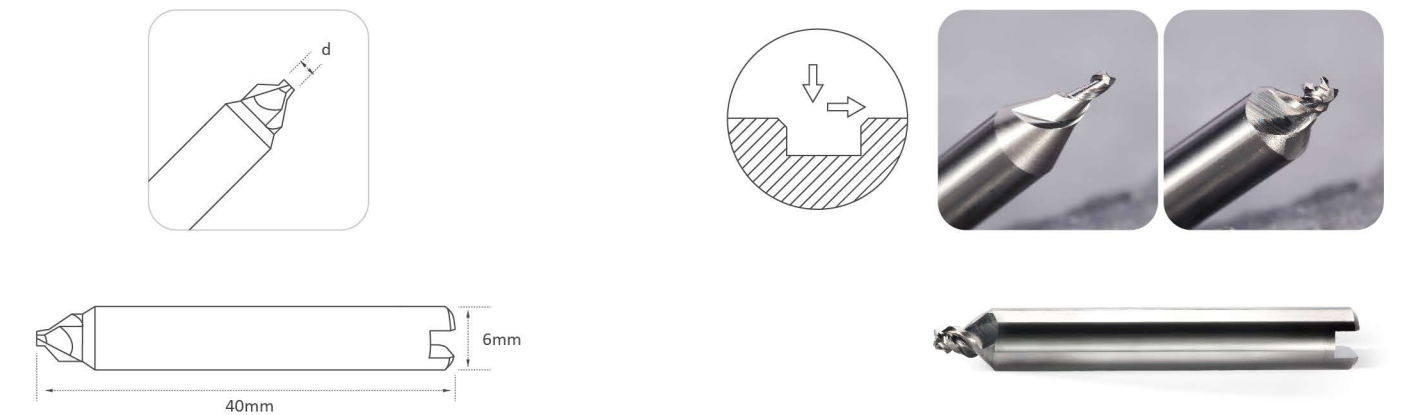
END MILL CUTTER AND TRACER POINT FOR KEYLINE BIANCHI 994

SOLID CARBIDE END MILL CUTTER WITH CHAMFER

专业60系列 42

60 UNIVERSAL GRADE

胜家带倒角钨钢铣刀



铣刀规格表 End mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3619	W112M	1.5mm	W112
P-1452	W302M	2.0mm	W302

适用机型 Suit for machine

数控钥匙机, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code
Electronic key cutting machine, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code

材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

工艺

进口全自动化磨削中心高光磨削加工, 刃口锋利, 切削噪音小; 独特工艺90度斜口刀刃。

特性

倒角工艺, 可以一次性加工出钥匙槽的倒角, 彻底去除切口的毛刺, 使切口光滑; 尺寸精准, 切割钥匙尺寸精确度高; 刀刃锋利。

优势

螺旋槽带倒角, 锋利, 可以切割黄铜钥匙和镍白铜钥匙, 钥匙槽连同倒角一次成型, 切口光滑。

Material

Imported high hardness and high wear resistance carbide material, ultrafine grain and good wear resistance.

Manufacturing process

5-axis full automatic grinding center with high gloss grinding, sharp and low noise, unique 90° oblique edge design.

Features

Chamfer craft, can mill chamfer of keyway at one time, completely remove the burrs of the incision, make the incision smooth; accurate size, high precision of cutting key; sharp.

Advantages

Spiral groove with chamfer design, sharp, can cut brass key and nickel silver copper key. The key groove is formed with the chamfer at one processing and the incision is smooth.



适合加工的钥匙:

所有内铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂和高硬度钥匙坯, 适合加工丰田钥匙等。

Suit for processing keys:

All internal milling groove keys are suitable for processing nickel white copper keys, can efficiently process original factory and high hardness key blanks, and are suitable for processing Toyota keys, etc.

对应的80系列铣刀规格详见54页

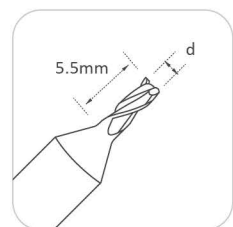
Corresponding TOP 80 SWISS GRADE end mill cutter and tracer point refer to page 54.

SOLID CARBIDE END MILL CUTTER AND TRACER POINT FOR SILCA FUTURA

专业60系列

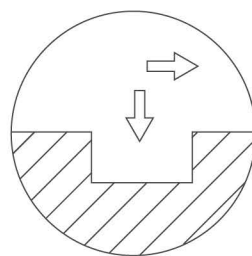
60 UNIVERSAL GRADE

胜家Futura铣槽钨钢立铣刀和钨钢导针



FUTURA铣刀规格表 FUTURA end mill cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3152	01LM	2.5mm	01L
P-3351	02LM	2.0mm	02L
P-3829	03LM	5.0mm	03L



材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

品质

柄部圆度好0.002mm, 大大降低高速旋转时的刀刃偏摆。

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

Carbide tracer point for electronic key machine has good conductivity, and it is not bent, ensure accurate detection and guarantee the accuracy of the fixture and the spindle.

工艺

全自动化磨削中心高光加工, 刃口锋利, 切削噪音小, 适合高转速加工钥匙, 转速可以12000RPM。

特性

尺寸精准, 切割钥匙尺寸精密度高; 刀刃锋利, 针对数控钥匙机转速高的特点, 设计了易排屑的后角, 切削轻快。

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。

Material

Imported high hardness and high wear resistance carbide material, ultrafine grain and good wear resistance.

Manufacturing process

Full automatic grinding center with high gloss grinding, sharp and low noise, suitable processing key with high speed, speed rotate 12000RPM.

Quality

The roundness of the handle is 0.002mm, which greatly reduces the blade deflection during high-speed rotation.

Features

Accurate size, high precision of cutting key; sharp, aimed at the high speed of the electronic key machine, we design back angle of easy chip removal, cut fast and light.

Advantages

Sharp, cut brass key and nickel silver copper key smooth without burrs.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂高硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys:

All internal milling slots and external milling slot keys, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.

对应的80系列FUTURA铣刀和导针规格详见55页

FUTURA的圆片刀01F的介绍详见67页

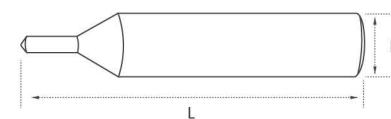
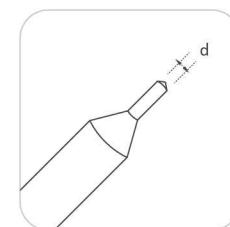
Corresponding TOP 80 SWISS Grade FUTURA end mill cutter and tracer point refer to page 55.

FUTURA angle milling cutter 01F refer to page 67.

SOLID CARBIDE END MILL CUTTER AND TRACER POINT FOR SILCA FUTURA

60 UNIVERSAL GRADE

胜家Futura铣槽钨钢立铣刀和钨钢导针

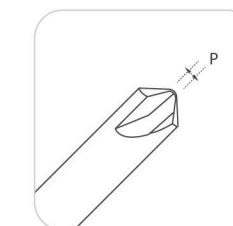


FUTURA导针规格表 FUTURA tracer point specification form

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	可替代产品代码 Replaceable cutters Ref
P-1661	01TM	4	0.94	21	01T
P-3865	02TM	6	1	30	02T
P-3830	03TM	6	0.94	30	03T

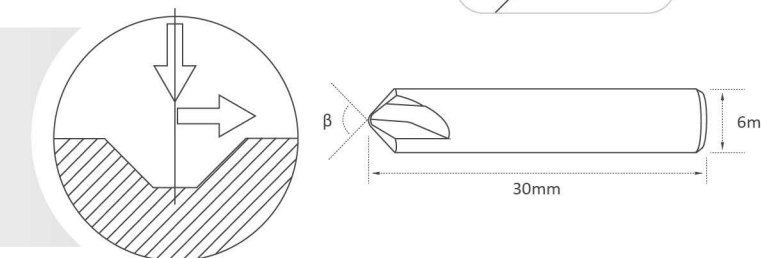
FUTURA打孔刀规格表 FUTURA dimple cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	β 角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-2521	01DM	90°	0.4	01D
P-3407	02DM	100°	0.4	02D
P-3408	04DM	110°	0.4	04D



适用机型 Suit for machine

Futura Pro, Futura Pro Engraving, Futura Pro Automotive



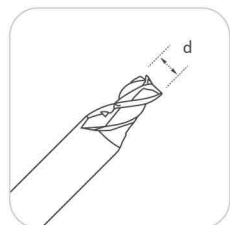
FRESA ENGRAVING CUTTER FUTURA雕刻刀



FUTURA雕刻刀规格表 FUTURA engraving cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	β 角度 Angle	可替代产品代码 Replaceable cutters Ref
P-3842	18DM	90°	18D

NINJA钨钢立铣刀

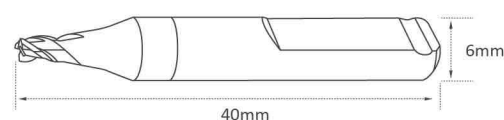
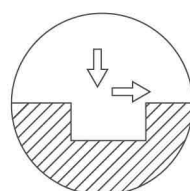
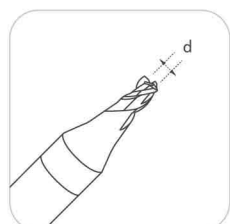


NINJA铣刀规格表 NINJA end mill cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-4039	V012M	1.5 mm	V012
P-4003	V037M	2.0mm	V037
P-3801	V003M	2.5mm	V003
P-4040	V002M	3.0mm	V002

适用机型 Suit for machine

NINJA VORTEX, NINJA TOTAL, VERSA



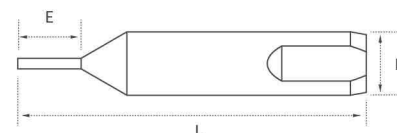
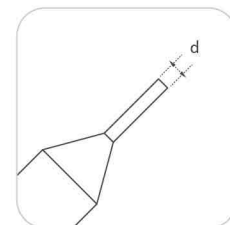
NINJA LASER铣刀规格表 NINJA LASER end mill cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1332	EW6825-BS7	2.5 mm	RIC05304B - B3320

适用机型 Suit for machine

NINJA LASER

NINJA钨钢立铣刀



Ninja导针规格表 Ninja tracer point specification form

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	可替代产品代码 Replaceable cutters Ref
P-3898	TL003M	6	1	30	TL003

材料

进口高硬度高耐磨钨钢磨制，超细微粒耐磨性好。

工艺

全自动化磨削中心高光加工，刃口锋利，切削噪音小，适合高速加工钥匙，转速可以12000RPM。

特性

尺寸精准，切割钥匙尺寸精度高；刃口锋利，针对数控钥匙机转速高的特点，设计了易排屑的后角，切削轻快。

优势

锋利，可以切割黄铜钥匙和镍白铜钥匙，刃口光滑，无毛刺。

Material

Imported high hardness and high wear resistance carbide material, ultra-fine grain and good wear resistance.

Manufacturing process

Full-automatic grinding center with high gloss grinding, sharp and low noise, suitable to process key with high speed, speed rotate 12000RPM.

Features

Accurate size, high precision of cutting key; sharp edge, aimed at the high speed of the electronic key machine, we design back angle of easy chip removal, cut fast and light.

Advantages

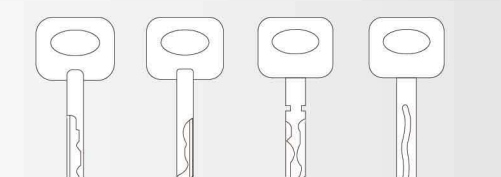
Sharp, cut brass key and nickel silver copper key smooth without burrs.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙，适合加工镍白铜钥匙，可以高效加工原厂高硬度钥匙坯，如本田原厂钥匙，STRATTEC钥匙坯等。

Suit for processing keys:

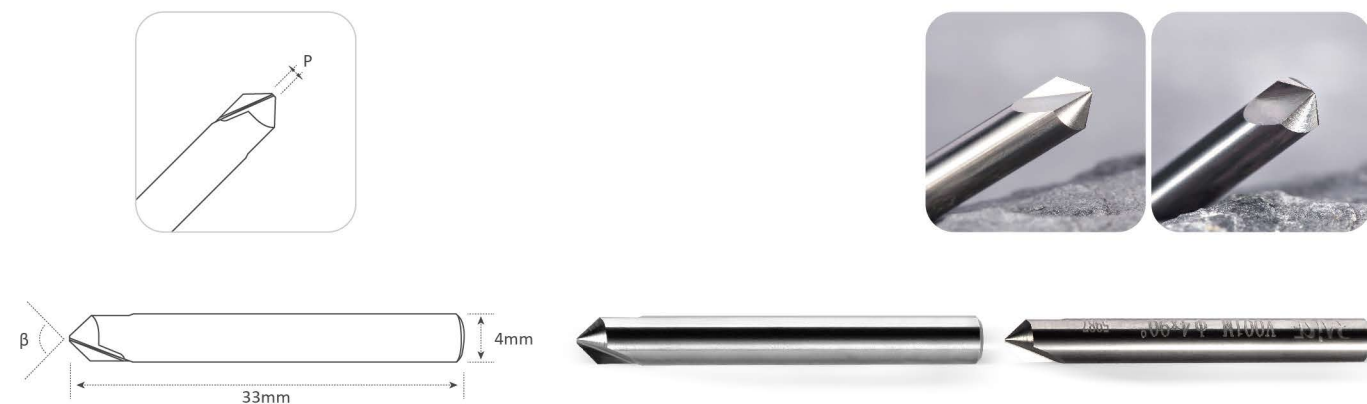
All internal milling slots and external milling slot keys, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙，副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

对应的80系列NINJA铣刀详见57页
NINJA的圆片刀WP034的介绍详见71页
Corresponding TOP 80 SWISS Grade NINJA end mill cutter refer to page 57.
NINJA angle milling cutter WP034 refer to page 71.

NINJA钨钢打孔刀



NINJA打孔刀规格表 NINJA dimple cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	β 角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-4036	V004M	82°	0.5mm	V004
P-3818	V001M	90°	0.4mm	V001
P-4037	V007M	100°	0.4mm	V007
P-4038	V008M	106°	0.6mm	V008

适用机型 Suit for machine

NINJA VORTEX, NINJA TOTAL, VERSA



材料

进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

Imported high hardness and high wear resistance carbide material, ultrafine grain and good wear resistance.

工艺

全自动化磨削中心高光加工, 刃口锋利, 切削噪音小, 适合高转速加工钥匙, 转速可以12000RPM; 钻头设计, 大钻力, 易排屑。

Manufacturing process

Full automatic grinding center with high gloss grinding, sharp and low noise, suitable to process key with high speed, speed rotate 12000RPM, drill design, drill force, easy chip removal.

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺, 不震刀。

Advantage

Sharp, cut brass key and nickel white copper key smooth without burrs and shock.

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂高硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

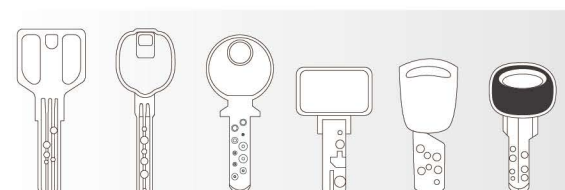
Suit for processing keys:

All internal milling slots and external milling slot keys, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.

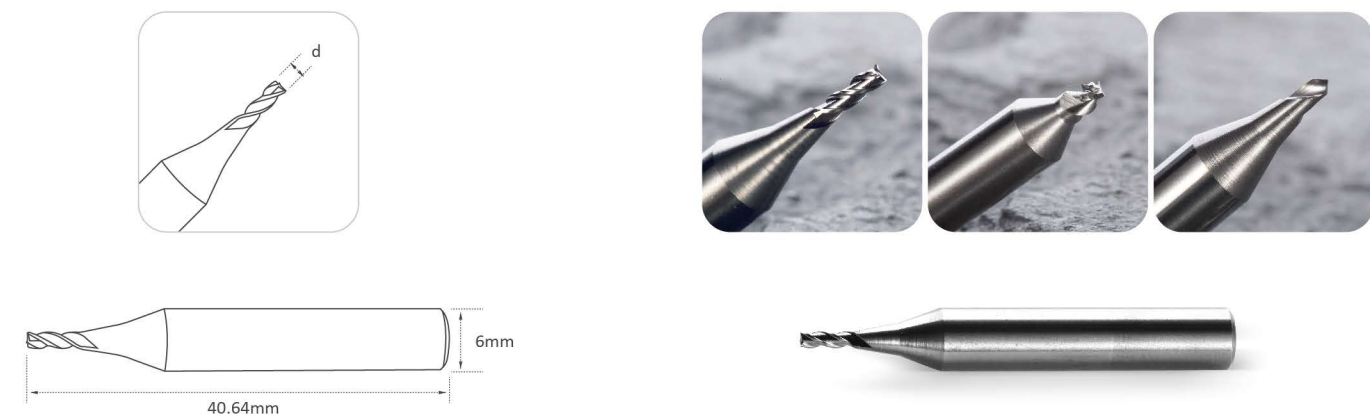
对应的80系列NINJA打孔刀详见58页

NINJA的圆片刀WP034的介绍详见72页

Corresponding TOP 80 SWISS Grade NINJA dimple cutter refer to page 58. NINJA angle milling cutter WP034 refer to page 72.



3D laser Key Products钨钢铁刀和导针



铣刀规格表 End mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1762	TR0.0625	Φ1.6	
P-3617	TR2.5	Φ2.5	
P-3914	5mm Tubular Cutter	Φ5	For cutting Tubular Keys with the Tubular Jaw, For all 3 Axis key machines

适用机型 Suit for machine

3D Elite, 3D Xtreme and Xtreme S, 3D Pro, X and XL, Retro

导针规格表 Tracer point specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3828	V2	Φ0.94	For all Laser Key Products Key Machines except Retro
P-3915	LKP1.7	Φ2.5	

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

The Electronic key machine carbide tracer point has good conductivity, ensuring accurate detection, and will not damage the accuracy of the fixture and the spindle.

雕刻刀规格表 Engraving end mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3827	3D engraving cutter bits	D6	

材料

瑞典进口超高硬度超高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

Top quality, high hardness and high wear-resistant carbide from Sweden, ultra-fine particles, good wear resistance.

工艺

全自动化磨削中心镜面抛光加工, 刃口锋利, 切削噪音小。

Manufacturing process

5-axis automatic grinding center for mirror grinding, sharp edge, low noise; side fixed plane adopts full grinding process, compact installation.

特性

尺寸精准, 刃口尺寸精度0.005mm, 切割钥匙尺寸精密度高; 刀刃锋利。

Features

Accurate size, cutting edge size accuracy of 0.005mm, cutting key size precision; sharp edge.

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。

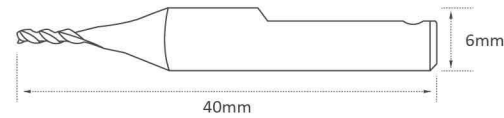
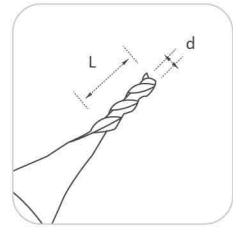
Advantages

The cutters are being tested on electronic key cutting machines, sharp, can cut brass key and nickel silver key, test Honda original keys, STRATTEC key blanks, smooth edge, no burr, continue to use after processing 200 keys

对应的圆片刀见66页, 69页

Corresponding angle milling cutter refer to page 66, page 69.

开灵数控994钨钢铣刀(涂层)和钨钢导针



铣刀规格表 End mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d.mm	L.mm	可替代产品代码 Replaceable cutters Ref
P-1571	EW8025-B57	2.5mm	3.0mm	EW6825-B57/WC011A/B3320 / RIC05304B
P-2025	EW8030-B57	3.0mm	3.0mm	EW6830-B57 / 03650 / DC011A
P-2026	EW8015G-B57	1.5mm	4.5mm	EW6815G-B57 / B4403 / CL005 / RIC09617B
P-1572	EW8015L-B57	1.5mm	4.5mm	EW6815L-B57 / B3403 / CL004 / RIC08409B

适用机型 Suit for machine

BIANCHI 994



材料

进口高硬度高耐磨钨钢磨制, 超细微粒, 耐磨性好。

工艺

全自动化磨削中心镜面磨制, 刃口锋利, 噪音小; 侧面固定平面采用全磨制工艺, 安装紧凑。

特性

尺寸精准, 刃口尺寸精度0.005mm, 切割钥匙尺寸精度高; 刀刃锋利。

Material

Top quality, high hardness and high wear-resistant carbide, ultra-fine particles, good wear resistance.

Manufacturing process

Fully automated grinding center mirror polishing, sharp edge, low cutting noise.

Features

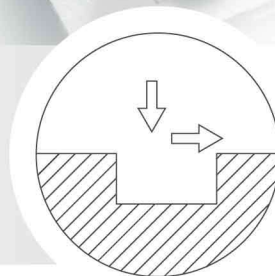
Accurate size, cutting edge size accuracy of 0.005mm, high precision of cutting key size; sharp cutter edge.

优势

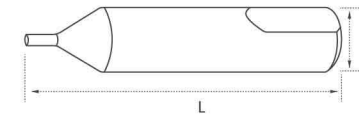
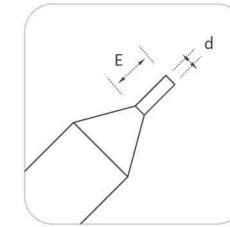
专门在994机器进行测试, 锋利, 可以切割黄铜钥匙和镍白铜钥匙, 测试本田原厂钥匙, STRATTEC钥匙坯, 刃口光滑, 无毛刺, 加工200条高硬钥匙后继续使用。

Advantages

Specially tested in 994 machine, sharp, can cut brass key and nickel silver key, test Honda original keys, STRATTEC key blanks, smooth edge, no burr, continue to use after processing 200 keys.



开灵数控994钨钢铣刀(涂层)和钨钢导针



导针规格表 Tracer specification Form

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	E.mm	可替代产品代码 Replaceable cutters Ref
P-705	B3310/ C011A	6	1	30	2.6	B3310M / C011AM
P-706	B3404/TL002	6	1	33	6	B3404M / TL002M
P-1204	TL003	6	1	30	4.5	TL003M

数控钥匙机钨钢导针导电性好, 确保探测精准, 也不会伤到夹具和主轴的精度。

The Electronic key machine carbide tracer point has good conductivity, ensure accurate detection, and will not damage the accuracy of the fixture and the spindle.

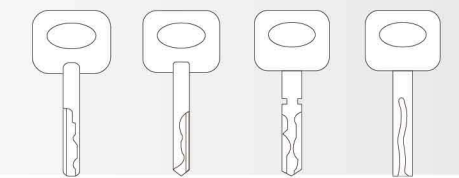


适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工进口要硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys:

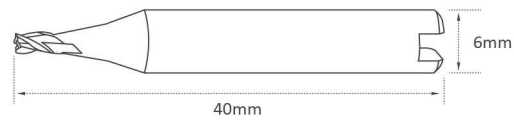
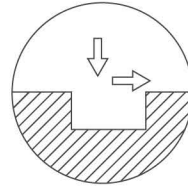
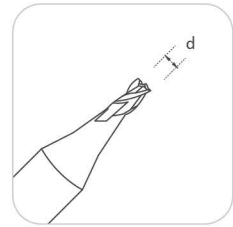
All inner milling slots and outer milling slot keys, suitable for processing nickel silver keys, which can efficiently process original and high-hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



专业60系列的的994铣刀和导针详见35页, 36页 60 UNIVERSAL GRADE 994 end mill cutter and tracer refer to page 35, page 36.

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐断与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

胜家Viper钨钢铣刀和导针



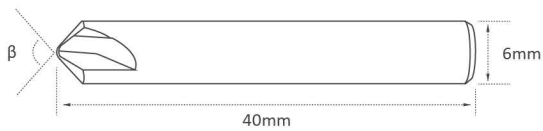
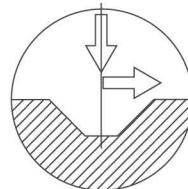
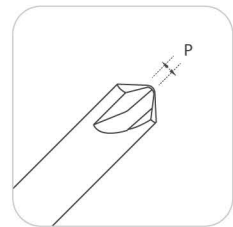
铣刀规格表 End mill cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1733	W114	2.0mm	D709482ZB
P-1463	W101	2.5mm	D709238ZB
P-3719	W129	3.0mm	D711604ZB

适用机型 Suit for machine

数控钥匙机, 韦伯, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code, KABA ILCO TRICODE HS

Electronic key cutting machine, Viper, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code, KABA ILCO TRICODE HS



打孔刀规格表 Dimple cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 钻尖角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-3909	DW8080	80°	0.7mm	W138 / D722580ZB
P-3910	DW8090	90°	0.8mm	W103 / W238 / W105 / F1W
P-3916	DW8095	95°	0.8mm	W234
P-4006	DW8100	100°	0.8mm	0061# / W289 / W113 / W110 / SILCA F42 / JMA F13W
P-4005	DW8106	106°	1.0mm	W63 / F6 / 0062# / W102

特性

大钻力刀尖设计, 断屑快, 钻削轻快, 无震动; 加工的钥匙槽口光滑, 没有毛刺。

Features

high drill force design, cut quickly without shock, processed key smooth without burrs.

胜家Viper钨钢铣刀和导针

材料

瑞典进口超高硬度超高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

Ultra-high hardness and high wear-resistant carbide material from Sweden, the ultra-fine particles, good wear resistance.

工艺

全自动化磨削中心镜面抛光加工, 刃口锋利, 切削噪音小。

Manufacturing process

Fully automated grinding center mirror polishing, sharp edge, low cutting noise.

特性

尺寸精准, 刃口尺寸精度0.005mm, 切割钥匙尺寸精密度高; 刃口锋利。

Features

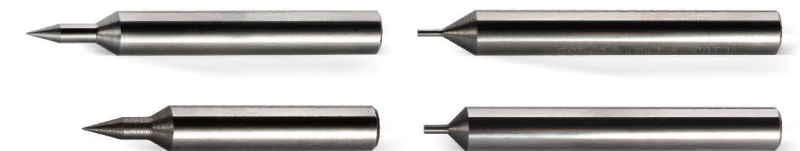
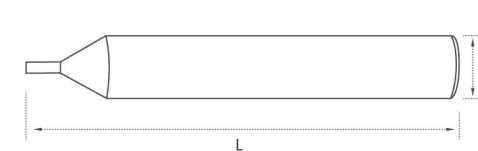
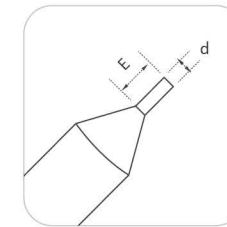
Accurate size, cutting edge size accuracy of 0.005mm, high precision of cutting key size; sharp cutter edge.

优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺。

Advantages

Sharp, can cut brass keys and nickel silver keys, smooth edges, no burrs.



导针规格表 Tracer specification form

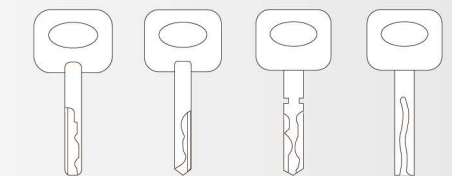
订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm	E.mm	可替代产品代码 Replaceable cutters Ref
P-3903	U101	6	1.2	48	3	D909076ZR
P-3905	U102	6	2.6	48	9	D908994ZR
P-3906	U102TT	4	2	26	6	D917260ZR
P-3904	U103	6	1	48	3	D711108ZB
P-3907	U103TT	4	1	21	3	D917259ZR

本系列配的导针是钨钢导针, 导电性好, 宁折不弯, 导针不会变形, 确保探测精准, 也不会伤到夹具和主轴的精度。

The tracer point is made of carbide, it has good conductivity, which is not bent, ensuring accurate detection, and will not damage the accuracy of the fixture and the spindle.

适合加工的钥匙: 所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工进口要硬度钥匙坯, 如本田原厂钥匙, STRATTEC 钥匙坯等。

Suit for processing keys: All inner milling slots and outer milling slot keys, suitable for processing nickel silver keys, which can efficiently process original and high-hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



对应的60系列铣刀和导针规格详见39页, 40页
Corresponding 60 COMMON GRADE end mill cutters and tracer please refer to page 39, page 40.

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

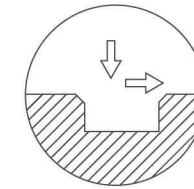
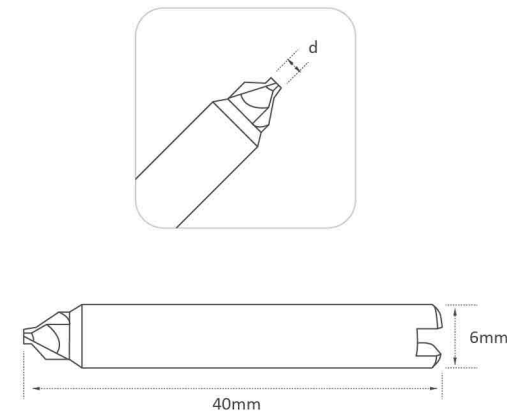
VIPER END MILL CUTTER AND TRACER POINT

SOLID CARBIDE END MILL CUTTER WITH CHAMFER

80系列 54

TOP 80 SWISS GRADE

胜家带倒角钨钢铣刀



铣刀规格表 End mill cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3911	W112	1.5mm	
P-3912	W302	2.0mm	

适用机型 Suit for machine

数控钥匙机, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code
Electronic key machine, QUATTROCODE, TRIAX QUATTRO, TRIAX-e.code

材料

瑞典进口超高硬度超高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

Ultra-high hardness and high wear-resistant carbide material from Sweden, ultrafine grain and good wear resistance.

工艺

进口全自动化磨削中心高光磨削加工, 刃口锋利, 切削噪音小; 独特工艺90度斜口刀刃。

Manufacturing process

Full automatic grinding center with high gloss grinding, sharp and low noise, unique 90°oblique edge design.

特性

倒角工艺, 可以一次性加工出钥匙槽的倒角, 彻底去除切口的毛刺, 使切口光滑; 尺寸精准, 刃口尺寸精度0.005mm, 切割钥匙尺寸精密度高; 刀刃锋利。

Features

Chamfer craft, can mill chamfer of key at one time, completely remove the burrs of the incision, make the incision smooth; accurate size, high precision of cutting edge 0.005mm; edge sharp.

优势

螺旋槽带倒角, 锋利, 可以切割黄铜钥匙和镍白铜钥匙, 钥匙槽连倒角一次成型, 切口光滑。

Advantages

Spiral groove with chamfer design, sharp, can cut brass key and nickel silver copper key. The key groove is formed with the chamfer at one processing and the incision is smooth.

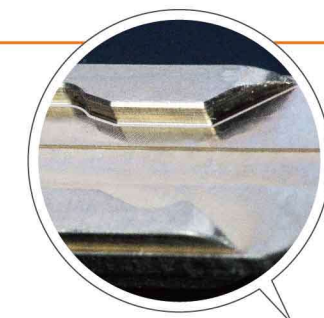


适合加工的钥匙:

所有内铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工原厂和高硬度钥匙坯, 适合加工丰田钥匙等。

Suit for processing keys:

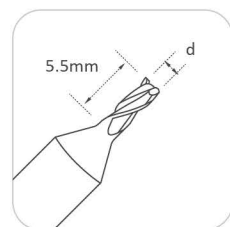
All internal milling slots key, suitable for processing nickel silver copper keys, can efficiently process original high hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



对应的60系列铣刀规格详见42页
Corresponding 60 UNIVERSAL GRADE end mill cutter refer to page 42.

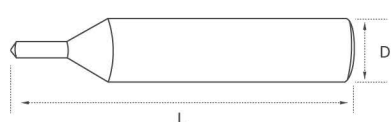
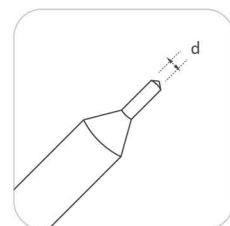
	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

胜家Futura铣槽钨钢立铣刀和钨钢导针



FUTURA铣刀规格表 FUTURA end mill cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-3588	01LW	2.5mm	01L
P-3800	02LW	2.0mm	02L
P-3917	03LW	5.0mm	03L



FUTURA导针 FUTURA tracer point

订货编号 Order code	锐正代码 RAISE Ref	D.mm	d.mm	L.mm
P-3922	01T	4	0.94	21
P-3923	02T	6	1	30
P-3924	03T	6	0.94	30

数控钥匙机钨钢导针导电性好, 宁折不弯, 确保探测精准, 也不会伤到夹具和主轴的精度。

Carbide tracer point for electronic key machine has good conductivity, and it is not bent, ensure accurate detection and guarantee the accuracy of the fixture and the spindle.

胜家Futura铣槽钨钢立铣刀和钨钢导针

材料

瑞典高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

High hardness and high wear resistance carbide material from Sweden, ultrafine grain and good wear resistance.

工艺

全自动化磨削中心镜面抛光加工, 刃口锋利无比, 切削噪音小, 适合高转速加工钥匙, 转速可以达到12000RPM。

Manufacturing process

Full automatic grinding center with high gloss grinding, sharp and low noise, suitable processing key with high speed, speed rotate 12000RPM.

品质

每一支铣刀都经过严格的检验, 精度控制在0.005mm以内。

Quality

Each cutter is inspected strictly, precision control in 0.005mm.

优势

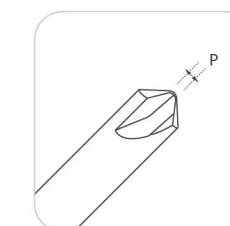
锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺, 正常使用保证加工100个镍白铜钥匙。

Advantages

Sharp, can cut brass keys and nickel silver copper keys, cutting edge is smooth without burrs, guarantee processing 100 pieces nickel silver copper keys.

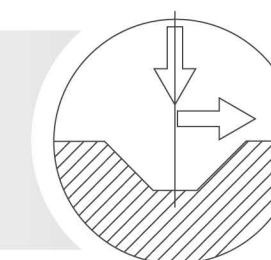
FUTURA打孔刀规格表 FUTURA dimple cutter specification form

订货编号 Order code	锐正代码 RAISE Ref	β 角度 Angle	P 刀尖平台 Tip width	可替代产品代码 Replaceable cutters Ref
P-3918	01DW	90°	0.4mm	01D
P-3919	02DW	100°	0.4mm	02D
P-3920	04DW	110°	0.4mm	04D



适用机型 Suit for machine

Futura Pro, Futura Pro Engraving, Futura Pro Automotive



FUTURA雕刻刀 FUTURA engraving cutter

订货编号 Order code	锐正代码 RAISE Ref	角度 Angle	可替代产品代码 Replaceable cutters Ref
P-3921	18DW	90°	18D



适合加工的钥匙: 所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工进口要硬度钥匙坯, 如本田原厂钥匙, STRATTEC钥匙坯等。

Suit for processing keys: All inner milling slots and outer milling slot keys, suitable for processing nickel silver keys, which can efficiently process original and high-hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.

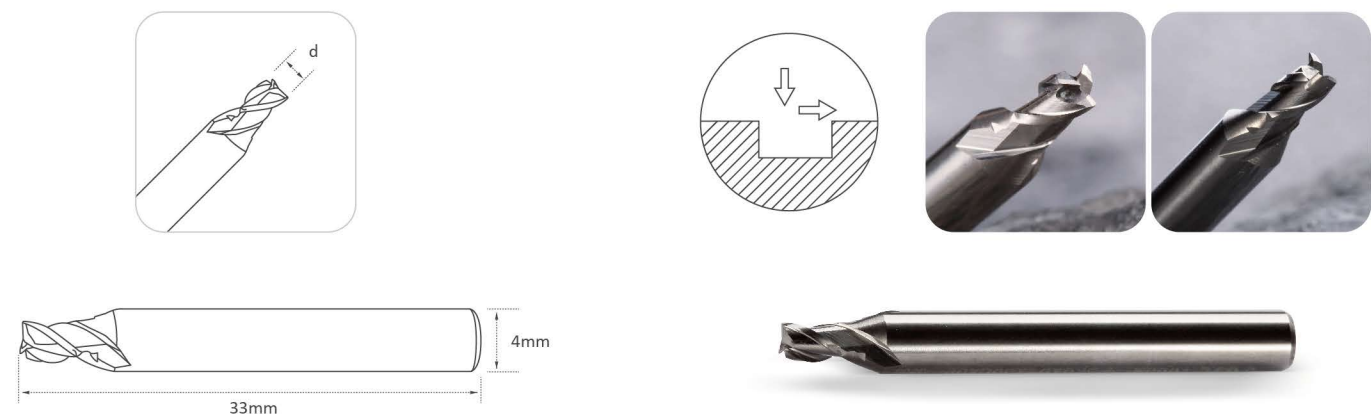


	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

对应的60系列FUTURA铣刀和导针规格详见43页, 44页
FUTURA的圆片刀01F的介绍详见67页

Corresponding 60 UNIVERSAL GRADE FUTURA end mill cutter and tracer point refer to page 43, page 44.
FUTURA angle milling cutter 01F refer to page 67.

NINJA 钨钢立铣刀



铣刀规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size
P-4034	V012	1.5 mm
P-4002	V037	2.0mm
P-3820	V003	2.5mm
P-4035	V002	3.0mm

NINJA LASER 铣刀规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1571	EW8025-BS7 WC011A	2.5 mm	RIC05304B - B3320

NINJA LASER 导针规格表 Specification Form

订货编号 Order code	锐正代码 RAISE Ref	d 规格 Size	可替代产品代码 Replaceable cutters Ref
P-1204	TL003	1 mm	TL003M

适合加工的钥匙:

所有内铣槽和外铣槽钥匙, 适合加工镍白铜钥匙, 可以高效加工进口要硬度钥匙坯, 如本田原厂钥匙, STRATTEC 钥匙坯等。

Suit for processing keys:

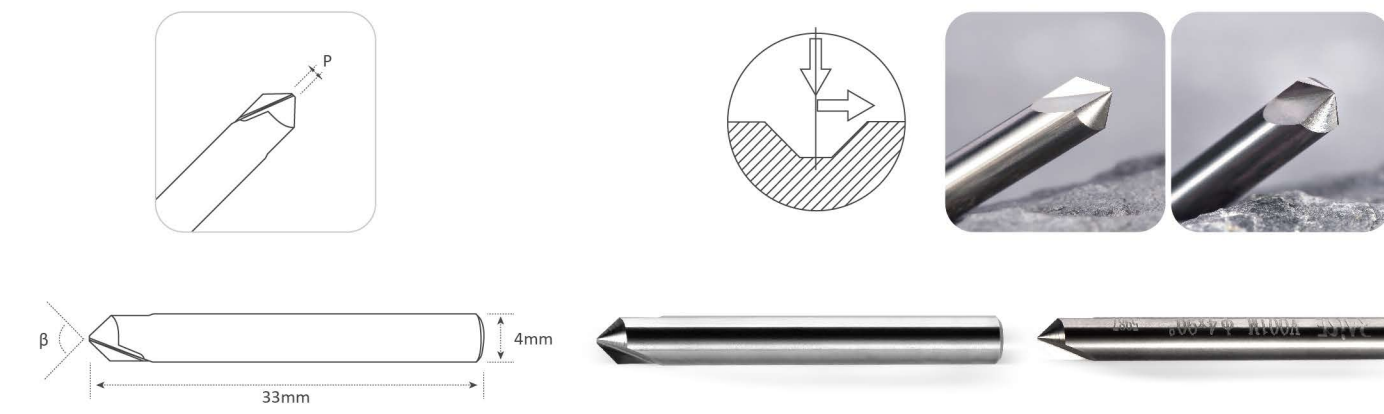
All inner milling slots and outer milling slot keys, suitable for processing nickel silver keys, which can efficiently process original and high-hardness key blanks, such as Honda original keys, STRATTEC key blanks, etc.



对应的60系列NINJA铣刀详见45页, NINJA的圆片刀WP034的介绍详见72页

Corresponding 60 UNIVERSAL GRADE Ninja end mill cutter and tracer point refer to page 45. Ninja angle milling cutter WP034 refer to page 72.

NINJA 钨钢打孔刀



打孔刀规格表 Milling cutter specification Form

订货编号 Order code	锐正代码 RAISE Ref	β 角度 Angle	可替代产品代码 Replaceable cutters Ref
P-4031	V004	82°	
P-3913	V001	90°	
P-4032	V007	100°	
P-4033	V008	106°	

材料

瑞典进口高硬度高耐磨钨钢磨制, 超细微粒耐磨性好。

Material

High hardness and high wear resistance carbide material from Sweden, the ultra-fine particles, good wear resistance.

工艺

全自动化磨削中心高光加工, 刃口锋利, 切削噪音小, 适合高速加工钥匙, 转速可以12000RPM; 钻头设计, 大钻力, 易排屑。

Manufacturing process

5-axis Fully automatic grinding center high-gloss processing, sharp edge, low cutting noise, suitable for high-speed machining, speed can be 12000RPM; drilling and milling head design, large drilling force, easy chip removal.

适用机型 Suit for Machine

NINJA VORTEX, NINJA TOTAL, VERSA



优势

锋利, 可以切割黄铜钥匙和镍白铜钥匙, 刃口光滑, 无毛刺, 不震刀。

Advantages

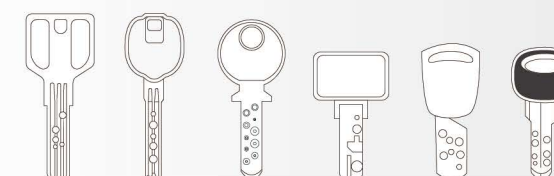
Sharp, can cut brass keys and nickel silver keys, smooth edges, no burrs, no vibration.

适合加工的钥匙:

各种材质的需要打孔的钥匙。

Suit for processing keys:

Keys of various materials requiring perforation.



对应的60系列NINJA打孔刀详见47页

NINJA的圆片刀WP034的介绍详见72页

Corresponding 60 COMMON GRADE dimple cutter specifications please refer to page 47.

Angle milling cutter NINJA WP034, please refer to page 72.

	通用55系列 55 COMMON GRADE	专业60系列 60 UNIVERSAL GRADE	TOP 80 SWISS GRADE
材料 Material	抗断性能好的材料 Material with good breaking resistance	耐磨与抗断性能兼容的材料 Material compatible with wear and break resistance	耐磨性能最佳的材料 The High Hardness and the longest-wearing type material
针对钥匙 For key	民用钥匙, 副厂汽车钥匙 Civil key and copy car key	副厂钥匙为主 Mainly for copy key	原厂高硬度钥匙 Original high hardness key
针对钥匙机器 For machine	手动钥匙机为主 Mainly for Manual type key duplicator machine	数控钥匙机为主 Mainly for CNC key duplicator machine	数控钥匙机 CNC key duplicator machine
工艺 Processing	高精度磨削 High accuracy grinding	刃口高光磨削 High gloss grinding on flute	刃口镜面磨削 Mirror grinding on the flute
公差标准 Tolerance	0.01mm	0.01mm	0.005mm
使用寿命 Using life	1.0mm测试加工30条多轨道钥匙 More than 30 pieces multitrack key	保证切割100条钥匙 Cutting 100 pieces keys	保证切割100条原厂镍白铜钥匙 Cutting 100 pieces original Nickel Silver keys

黑金刚 密齿型角度开牙刀

含钴高速钢刀纳米涂层, 铜铁钥匙都能切削

BLACK HSS-CO ANGLE MILLING CUTTER

Cobalt - containing TiAlN coating
Dense tooth type angle milling cutter for
milling teeth of key, for copper and iron key

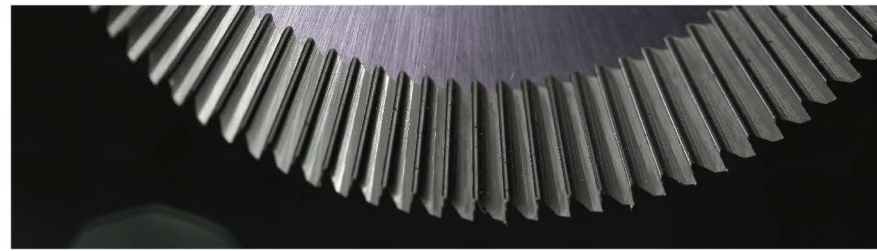


材料

采用日本进口的含钴高速钢 HSSM35 材料, 高温淬火, 硬度达到 HRC64-66, 超高温淬火, 硬度高, 铜钥匙铁钥匙均可用, 耐磨性好。

Material

It adopts HSSM35 material imported from Japan, high temperature quenching, hardness reaches HRC64-66, ultra-high temperature quenching, high hardness, copper key and iron key are available, good wear resistance.



生产工艺

使用全数控磨床加工, 全磨齿技术, 刀尖更锋利, 更容易切割钥匙, 切出来的钥匙光滑无毛刺。

Production process

Using full CNC grinding machine, full grinding technology, with sharper tip and easier to cut the key. The cut key is smooth and burr-free.

黑色涂层工艺

进口纳米涂层设备进行高硬度涂层, 良好的摩擦属性可消减切削, 涂层硬度 3500HV, 非常高的热阻, 耐磨性提高 50%, 全面超越黄色钛刀。

Black coating process

Imported nano-coating equipment for high hardness coating, good friction properties can reduce cutting, coating hardness 3500HV, very high thermal resistance, wear resistance increased by 50%, comprehensively beyond yellow titanium cutter.



适用机器

适用于各种单头钥匙机, 任何质量的机器都能使用, 不需要更换机器, 既可以加工铜钥匙, 也可以加工铁钥匙, 只需要一台钥匙机, 铜铁钥匙再无需换刀。

Suit for machine

It is suitable for all kinds of single-head key machines. It can be used by any quality machine. It does not need to change the machine. It can process copper keys and iron keys on same key machine. No longer needs to change the cutter.



包装

单片独立包装, 在运输过程中防止碰撞。

Packaging

Single-piece independent packaging can prevent collision during transportation.



注意事项:

在运转机器之前要准确进行较刀, 保证钥匙坯和母钥匙的匹配度高, 并且避免刀具因为钥匙装夹不稳定, 造成使用过程中刀具的损坏。

刀片装夹在机器上面, 钥匙坯和母钥匙装夹在夹具上面, 钥匙坯不要夹紧, 母钥匙靠紧导针, 钥匙坯要靠紧刀片, 如果没有靠紧要将钥匙坯卸下重新装夹。

在机器没有运转的情况, 刀具装夹好, 进行从左到右走刀实验, 看母钥匙牙和钥匙坯牙位置是否统一, 如果不统一再次进行重新装夹。

在机器运转之后, 需要等到刀片完全旋转起来, 再进行切削。

刀片完全旋转起来之后, 钥匙坯靠近刀片的时候, 要扶稳夹具, 防止钥匙坯撞到刀片上面, 使刚接触到钥匙坯的第一个刀尖因为受力不均而造成不必要的损坏。

当刀片开始切削的时候, 推动钥匙坯的夹具速度要慢, 使刀片刀尖受力均匀。

Matters needing attention:

Before running the machine, it is necessary to accurately adjust the cutter to ensure the key blank and the parent key are matching, and to avoid the tool being broken due to the unstable key assembly.

The cutter is clamped on the machine and the key blank and the parent key are fixed on the clamps. Do not clamp the key blank too tight. The parent key is close to the tracer and the key blank is close to the cutter. If the key blank is not fastened, the key blank should be removed and re-clamped.

When the machine is not running, clamp the cutter and cut from the left-to-right to check if the position of the parent key and the key blank are uniform. If not, re-clamp again.

After the machine is running, should wait the cutter is fully rotated before cutting.

When the key blank is close to the cutter, the clamp should be held to prevent the key blank from hitting the cutter after the cutter is fully rotated before cutting. So the first cutter tip which just touches the key blank won't be damaged by uneven force.

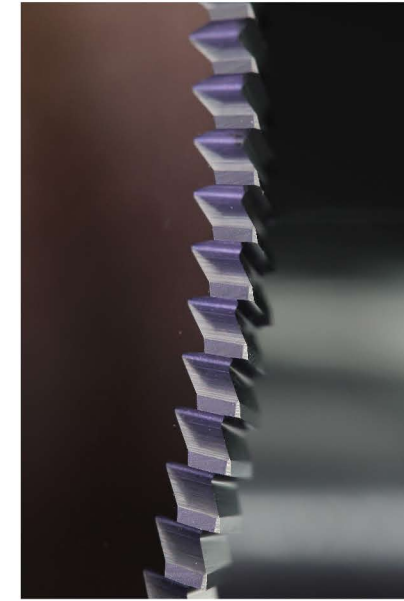
When start to cut the key, it should slowly to push the clamp which fixed the key blank, so that the cutter tip won't be damaged by uneven force.

屠龙刀 密齿型全钨钢角度开牙铣刀

铜铁钥匙都能切削

DENSE TOOTH TYPE CARBIDE ANGLE MILLING CUTTER FOR MILLING TOOTH

Both cutting copper and iron key



材料

整块钨钢, 硬度达到 HRA92.5 以上, 硬度相当高, 刀口锋利, 铜铁钥匙都可以切割, 遇到铁钥匙再无需换刀片, 直接使用, 大大节约您的宝贵时间。特别适合加工十字铁钥匙, 可以加工 500-800 把, 大约是镶齿钨钢刀片的 3-4 倍。

Material

Solid carbide, the hardness reaches HRA92.5 or above, quite high hardness. The cutting edge is sharp and no longer need to change the cutter when cut the iron key, greatly save your precious time. Especially suitable for processing cross iron cruciform keys, can process 500-800 pieces of keys and about three to four times than the welded carbide cutter.

生产工艺

经过七道磨削工序, 数控精密磨制工艺, 刀口锋利无比, 堪称屠龙刀。重大突破是采用了加强刀尖, 彻底克服了钨钢齿尖易崩口的问题。

Production process

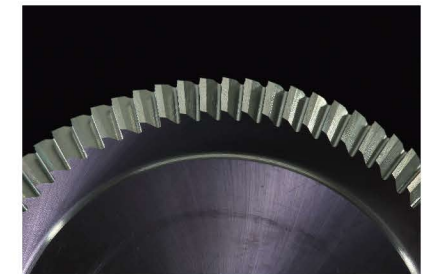
After seven grinding processes, CNC precision grinding process, the cutting edge is extremely sharp. It can be called dragon cutter. The major breakthrough is the use of reinforced cutter tip, completely overcome the problem of carbide tip of tooth easy collapse.

工艺

针对钨钢脆性较大的特点, 锐正公司发明了独特的磨制工艺, 加强刃口设计, 提高了刀尖的刚性, 很好地克服了断齿的问题。

Black coating process

In view of the characteristics of carbide brittleness, RAISE invented a unique grinding process, strengthened the design of the cutting edge and improve the rigidity of the tip of cutter. It's very good to overcome the problem of broken teeth.



双面齿, 正反都能切, 两边都可以配钥匙, 相当于延长了一倍的使用寿命。

Double-sided teeth, both sides can be cut and both sides can duplicate the key. Equal to extend the service life of one time.

密齿型, 剪刀齿, 切削轻, 磨损少, 超强耐用。铁钥匙铜钥匙都可以加工, 克服了粗牙镶钨钢齿的刀片不能加工铜钥匙的缺点。

Dense tooth type, scissor tooth, light cutting, less wear, super durable. Iron key and copper key can be processed, to overcome the shortcomings that the coarse teeth welded carbide milling cutter can not process copper keys.

注意事项:

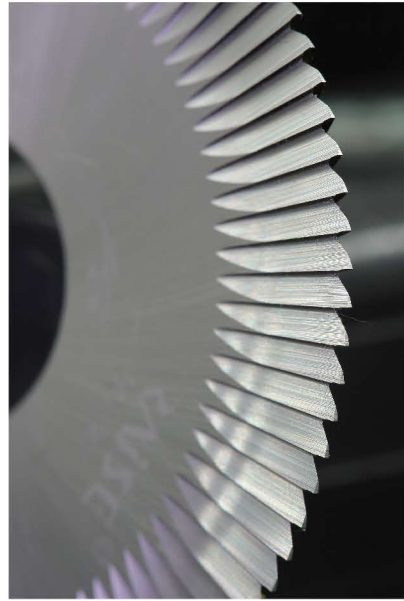
钨钢本身硬度高, 质脆, 在使用过程中要注意进刀和走刀的速度要慢, 防止断齿。

刀片完全旋转起来, 再进行切削钥匙。

Matters needing attention:

Carbide material is with high hardness and brittle, in the use of the process should pay attention to feed and feed speed to slow, to prevent broken teeth.

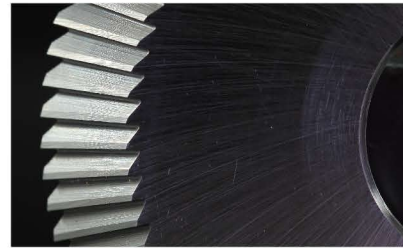
The cutter should rotate completely before cutting the key.

**材料**

采用日本进口的含钴高速钢 HSSM35 材料, 高温淬火, 硬度达到 HRC64-66, 超高温淬火, 硬度高, 铜钥匙铁钥匙均可用, 耐磨性好。

Material

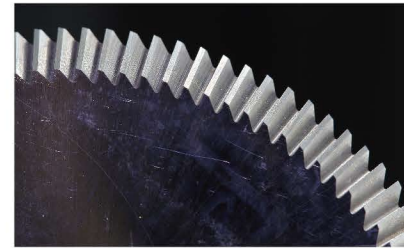
It adopts HSSM35 material imported from Japan, high temperature quenching, hardness reaches HRC64-66, ultra-high temperature quenching, high hardness, copper key and iron key are available, good wear resistance.

**生产工艺**

使用全数控磨床加工, 全磨齿技术, 刀尖更锋利, 更容易切割钥匙, 切出来的钥匙光滑无毛刺。

Production process

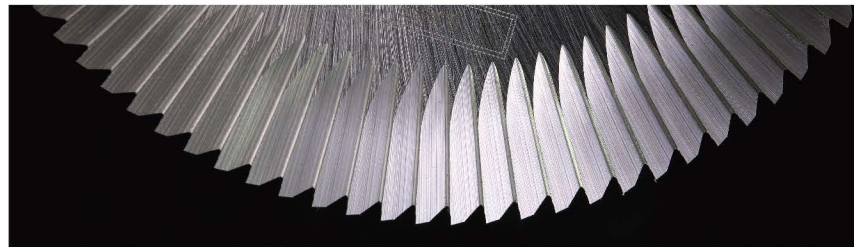
Using full CNC grinding machine, full grinding technology, with sharper tip and easier to cut the key. The cut key is smooth and burr-free.

**适用机器**

适用于各种单头钥匙机和双头钥匙机, 任何质量的机器都能使用, 不需要更换机器, 既可以加工铜钥匙, 也可以加工铁钥匙, 只需要一台钥匙机, 铜铁钥匙再无需换刀。

Suit for machine

It is suitable for all kinds of single-head and double-head key machines. It can be used by any quality machine. It does not need to change the machine and also can process copper keys and iron keys on same key machine. No need to change the cutter.

**包装**

单片独立包装, 在运输过程中防止碰撞。

Packaging

Single piece of independent packaging to prevent collision during the transport.

**注意事项:**

在运转机器之前要准确进行较刀, 保证钥匙坯和母钥匙的匹配度高, 并且避免刀具因为钥匙装夹不稳定, 造成使用过程中刀具的损坏。

刀片装夹在机器上面, 钥匙坯和母钥匙装夹在夹具上面, 钥匙坯不要夹紧, 母钥匙靠紧导针, 钥匙坯要靠紧刀片, 如果没有靠紧要将钥匙坯卸下重新装夹。

在机器没有运转的情况, 刀具装夹好, 进行从左到右走刀实验, 看母钥匙牙和钥匙坯牙位置是否统一, 如果不统一再次进行重新装夹。

在机器运转之后, 需要等到刀片完全旋转起来, 再进行切削。

刀片完全旋转起来之后, 钥匙坯靠近刀片的时候, 要扶稳夹具, 防止钥匙坯撞到刀片上面, 使刚接触到钥匙坯的第一个刀尖因为受力不均而造成不必要的损坏。

当刀片开始切削的时候, 推动钥匙坯的夹具速度要慢, 使刀片刀尖受力均匀。

Matters needing attention:

Before running the machine, it is necessary to accurately adjust the cutter to ensure the key blank and the parent key are matching, and to avoid the tool being broken due to the unstable key assembly.

The cutter is clamped on the machine and the key blank and the parent key are fixed on the clamps. Do not clamp the key blank too tight. The parent key is close to the tracer and the key blank is close to the cutter. If the key blank is not fastened, the key blank should be removed and re-clamped.

When the machine is not running, clamp the cutter and cut from the left-to-right to check if the position of the parent key and the key blank are uniform. If not, re-clamp again.

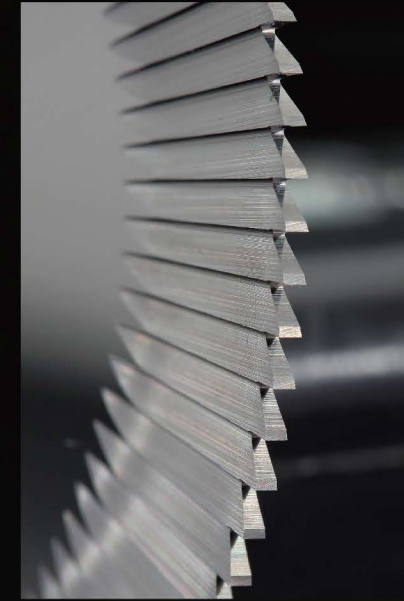
After the machine is running, should wait the cutter is fully rotated before cutting.

When the key blank is close to the cutter, the clamp should be held to prevent the key blank from hitting the cutter after the cutter is fully rotated before cutting. So the first cutter tip which just touches the key blank won't be damaged by uneven force.

When start to cut the key, it should slowly to push the clamp which fixed the key blank, so that the cutter tip won't be damaged by uneven force.

加工棋杆钥匙和保险箱钥匙, 锋利无毛刺, 加强刃口设计

Designed to cut flat steel, Mortice keys and safe deposit keys. Sharp without burr, strengthen the edge design

**材料**

整块钨钢, 硬度达到 HRA92.5 以上, 硬度相当高, 刀口锋利, 铜铁钥匙都可以切割, 遇到铁钥匙再无需换刀片, 直接使用, 大大节约您的宝贵时间。

Material

Whole piece of carbide, the hardness reaches HRA 92.5 or above, quite high hardness. The cutting edge is sharp and no longer need to change the cutter when cutting the iron key, greatly save your precious time.

生产工艺

经过七道磨削工序, 数控精密磨制工艺, 刀口锋利无比, 特别是侧刃锋利, 侧刃深度确保了棋杆钥匙侧面加工的锋利度。

Production process

After seven grinding processes, CNC precision grinding process, the cutting edge is extremely sharp. In particular, the side edge is sharp, and the depth of the side edge ensures the sharpness of the processing on the side of the Mortice key.

三面刃逐个齿设计, 切削比交错齿更轻, 三面刃的两边都有齿, 所以钥匙机可以通过侧面到侧面的切割来扩大切割范围。

One by one tooth design of side milling cutter is cutting lighter than staggered teeth, This cutter has teeth along its sides, so the key machine can widen cuts with a side to side cutting motion.

针对钨钢脆性较大的特点, 锐正公司发明了独特的磨制工艺, 加强刃口设计, 提高了刀尖的刚性, 很好地克服了断齿的问题。

In view of the characteristics of carbide brittleness, RAISE invented a unique grinding process, strengthen the design of the cutting edge and improve the rigidity of the tip of cutter. It's very good to overcome the problem of broken teeth.

注意事项:

钨钢本身硬度高, 质脆, 在使用过程中要注意进刀和走刀的速度要慢, 防止断齿。

刀片完全旋转起来, 再进行切削钥匙。

Matters needing attention:

Carbide material is with high hardness and brittle, in the use of the process should pay attention to feed and feed speed to slow, to prevent broken teeth.

The cutter should rotate completely before cutting the key.

钨钢平齿锯片切口刀

含钴高速钢刀纳米涂层, 铜铁钥匙都能切削

CARBIDE FLAT SLOTTER

Cobalt - containing TiAlN coating
Dense tooth type Angle Milling cutter for
milling teeth of key, for copper and iron key

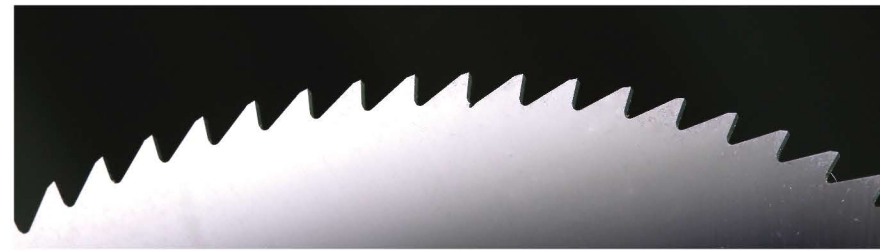


材料

整块钨钢, 硬度达到HRA92.5以上, 耐磨, 刀口锋利, 铜铁钥匙都可以切割, 合理使用, 使用寿命比普通白钢延长3倍以上, 可完全替代白钢切口刀。

Material

Solid carbide, the hardness reaches HRA92.5 or above, quite high hardness. The cutting edge is sharp and no longer need to change the cutter when cutting the iron key. The service life is more than 3 times longer than ordinary HSS flat slotter.



生产工艺

数控精密磨制工艺, 刀口全磨齿, 刀尖防震保护; 尺寸控制严格, 厚度精度误差在0.01mm以内, 平面带锥度设计, 可以切20mm深度的榫杆钥匙槽。

Production process

CNC precision grinding process, full edge grinding teeth, shock protection of the edge tip; strict size control, tolerance of thickness within 0.01mm, taper design of flat belt, can cut 20mm depth of slot of Mortice keys.

针对钨钢脆性较大的特点, 锐正公司发明了独特的磨制工艺, 加强刀口设计, 提高了刀尖的刚性, 很好地克服了断齿的问题。

In view of the characteristics of carbide brittleness, RAISE invented a unique grinding process, strengthen the design of the cutting edge and improve the rigidity of the tip of cutter. It's very good to overcome the problem of broken teeth.

平齿锯片适用于切割保险箱钥匙和旗杆钥匙

Slotter - Designed to cut flat steel, safe deposit keys and Mortice keys.

镶齿钨钢角度刀

WELDED CARBIDE ANGLE MILLING CUTTER

专打铁钥匙

Special iron key



材料

刀齿是镶的钨钢, 粗牙, 硬度相当高, 专门切削铁钥匙, 适合加工十字铁钥匙, 可以加工180-200把。

Material

The tooth is carbide welded, coarse teeth and high hardness. Specially for cutting iron key, suitable for processing cross iron key, can process 180-200 pieces.

注意事项:

不要加工铜钥匙。刀片完全旋转起来, 再进行切削钥匙。

Matters needing attention:

Don't cut the copper key.
The cutter rotates completely before cutting the key.



Φ60×6×Φ16×40°

适用机型
Suit for machine

218-D/ 218-A/ 218-B/ 216/ 268/ 283/ 288/ 288-A/ 288-B/ 218D/ 218E/ 288C/ 218F/ 288F/ 298A
298B/ RB18L/ 德牌 (488E/ 298/ 288D) 268-A/ 218-G/ 218-F/ JZ-2B5/ 2BA/ 2AS/ JZ-238BS



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-983	0114C.C	整体钨钢 carbide	0110#
P-729	0016 A I.C.C	镶齿钨钢 welded-carbide	0114#
P-1785	0111#M35 / 60MC	高速钢 HSS M35	60MC
P-1764	HJ-0111	黑金刚 HSS M35-Coating	A-01

Φ60×7.3×Φ12.7×40°

适用机型
Suit for machine

233-A/ 233B/ 233C/ 100-B/ 283-A/ 283-B/ 217/ 100-A
100-A1/ 100-A2/ 100-A3/ JZ-300/ 283-D/ 232



对应的铣刀规格详见76页
Corresponding milling cutter refer to page 76.

订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-986	0010C.C.C	整体钨钢 carbide	0010#
P-728	0010I.C.C.	镶齿钨钢 welded-carbide	0010
P-1069	0010#M35	高速钢 HSS M35	0010B
P-1765	HJ-0010	黑金刚 HSS M35-Coating	A-11

Φ70×7.3×Φ12.7×40°

适用机型
Suit for machine

201A/ 201B/ 201C/ 201D/ 100D/ 100E/ 100E1/ 100F/ 100G
101/ 219/ 219A/ Q27/ Q11左刀/ Q27A/ 100F1/ 201D/ JA-301



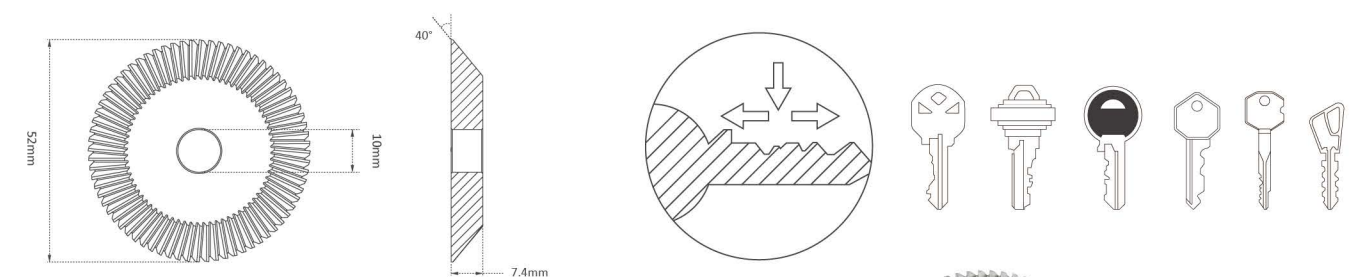
对应的铣刀规格详见74页
Corresponding milling cutter refer to page 74.

订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1038	0011B C.C.	整体钨钢 carbide	0011#
P-727	0011CI.C.C.	镶齿钨钢 welded-carbide	0011B
P-1686	0011#M35	高速钢 HSS M35	A-12
P-1766	HJ-0011	黑金刚 HSS M35-Coating	

Φ52×7.4×Φ10×40°

适用机型 Suit for machine

3D Elite

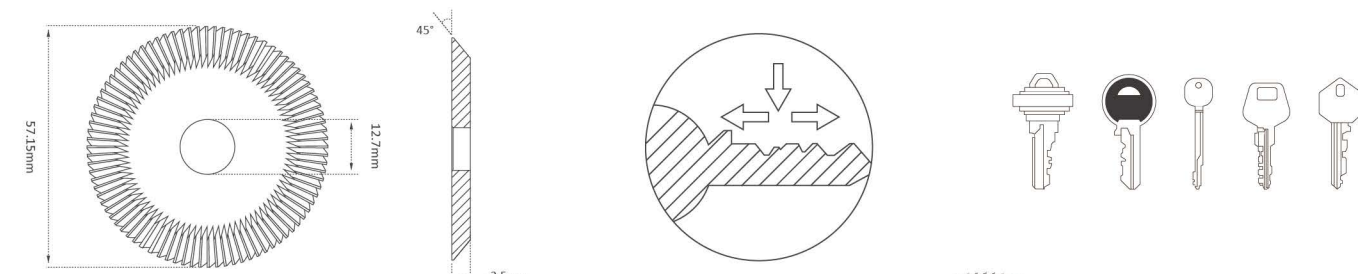


订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-3616	3D Elite wheel	整体钨钢 carbide
P-3670	3D Elite wheel HSS M35	高速钢 HSS M35

Φ57.15×2.5×Φ12.7×45°

适用机型 Suit for machine

Premier Speedex®/ Power Speedex®/ 9120MC/ 9160MC

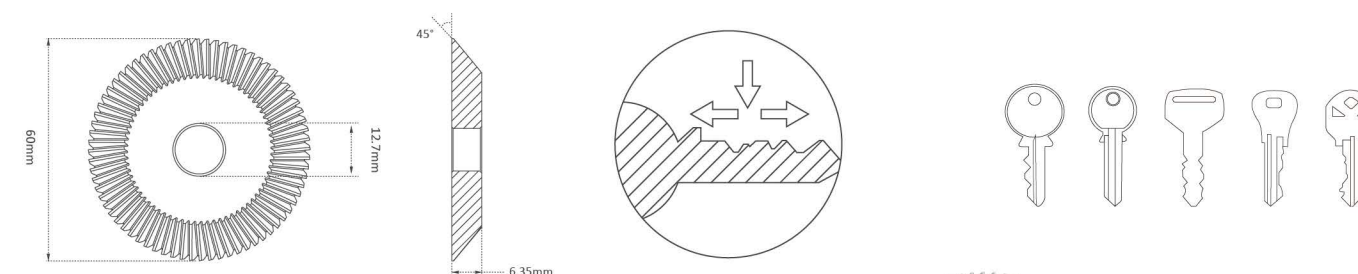


订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-625	CW-23MC	高速钢 HSS M35

Φ57.15×6.35×Φ12.7×45°

适用机型
Suit for machine

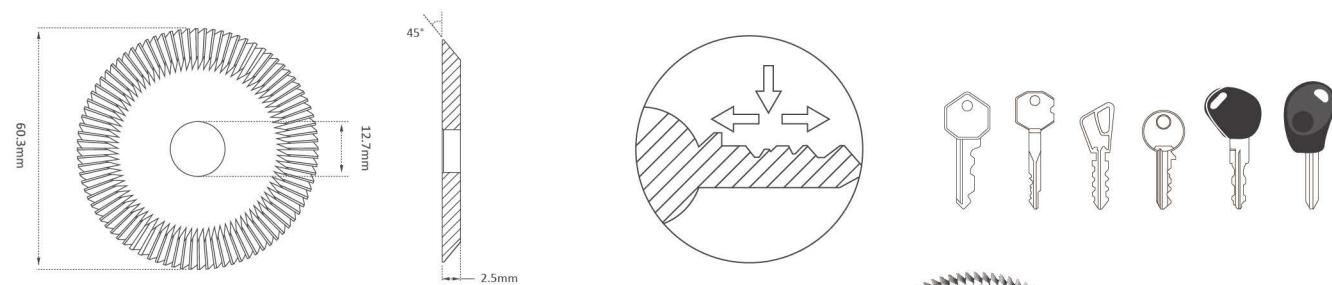
Ilco 022/ 027/ 027A/ Taylor KD1
KD1A/ KD5/ KD6/ KD6AG/ KD8/ KD9



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1057	34MC	高速钢 HSS M35

Φ60.3×2.5×Φ12.7×45°

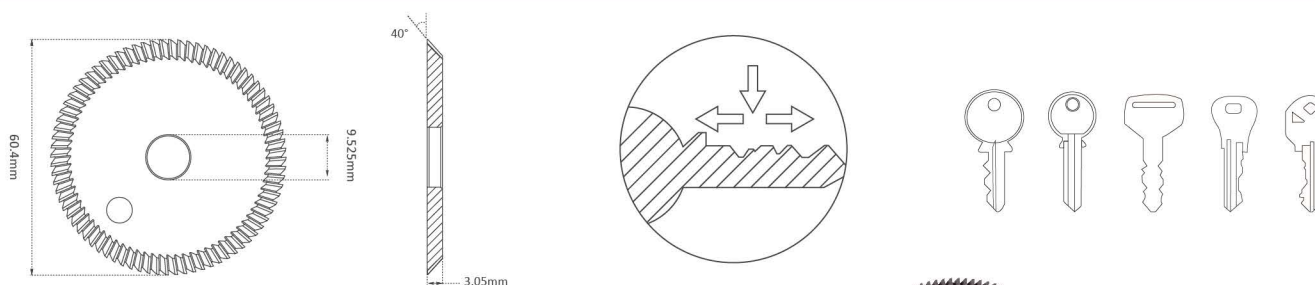
适用机型 Suit for machine | ILCO 023/ 025/ 045/ DL 143M/ 145/ 145M/ 148M
Taylor 143MT/ 145MT/ HPC 9160MC/ 9180MC



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1060	X23MC	高速钢 HSS M35	P-X23MC
P-4064	HJ-X23MC	黑金刚 HSS M35-Coating	

Φ60.4×3.05×Φ9.525×40°

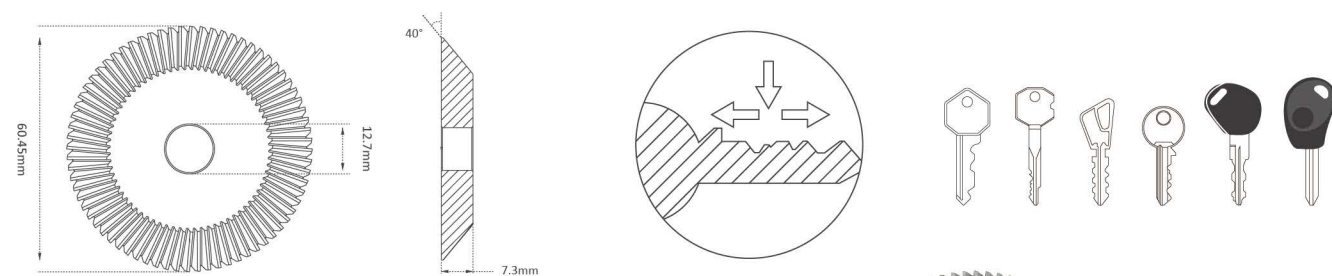
适用机型 Suit for machine | Futura



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-3816	O1F	高速钢 HSS M35
P-3853	HJ-O1F	黑金刚 HSS M35-Coating

Φ60.45×7.3×Φ12.7×40°

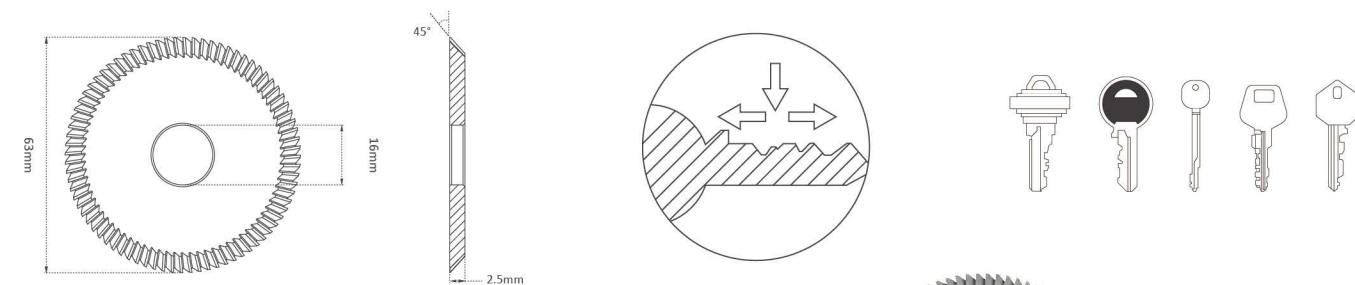
适用机型 Suit for machine | +-x+ US101



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-765	US101	高速钢 HSS M35

Φ63×2.5×Φ16×45°

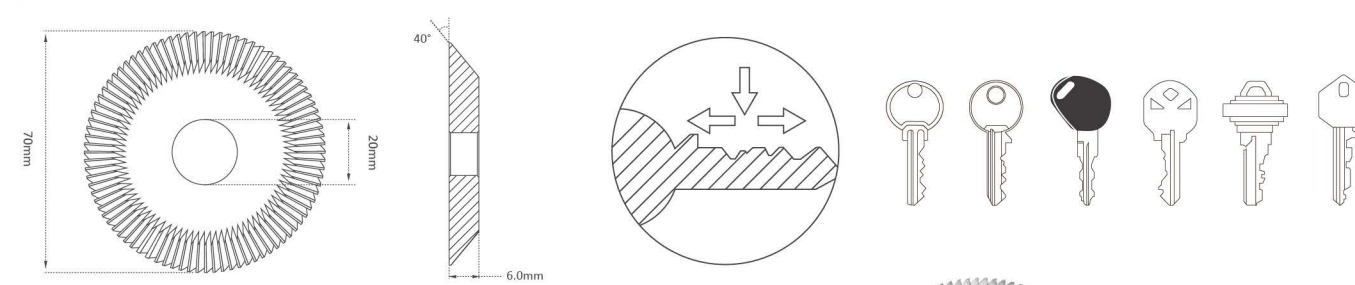
适用机型 Suit for machine | JMA ECCO-0091



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1497	FP32	高速钢 HSS M35

Φ70×6.0×Φ20×40°

适用机型 Suit for machine | GL-368/ GL-888



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-988	0012C.C.	整体钨钢 carbide	8810#
P-723	0012IC.C	镶齿钨钢 welded-carbide	8811
P-1832	0012# / 8810#	高速钢 HSS M35	0012
P-1533	HJ-0012	黑金刚 HSS M35-Coating	0012#

Φ70×7.2×Φ12.7×40°

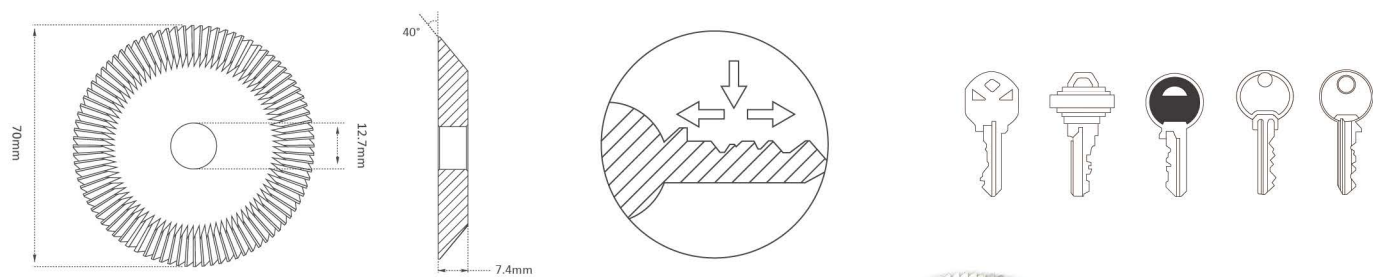
适用机型 Suit for machine | 530A



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1084		整体钨钢 carbide
P-1083		镶齿钨钢 welded-carbide
P-2112	530A	高速钢 HSS M35

Ø70×7.4×Ø12.7×40°

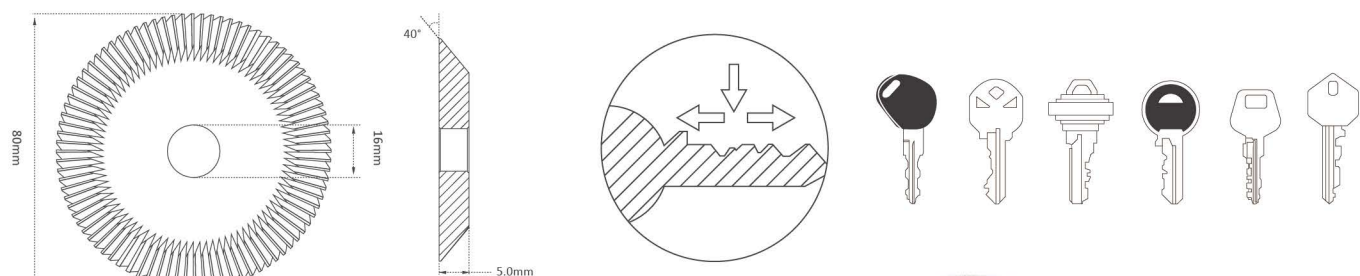
适用机型 Suit for machine | 3D Xtreme S and Xtreme



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-2504		黑金刚 HSS M35-Coating
P-3952		整体钨钢 carbide

Ø80×5.0×Ø16×40°

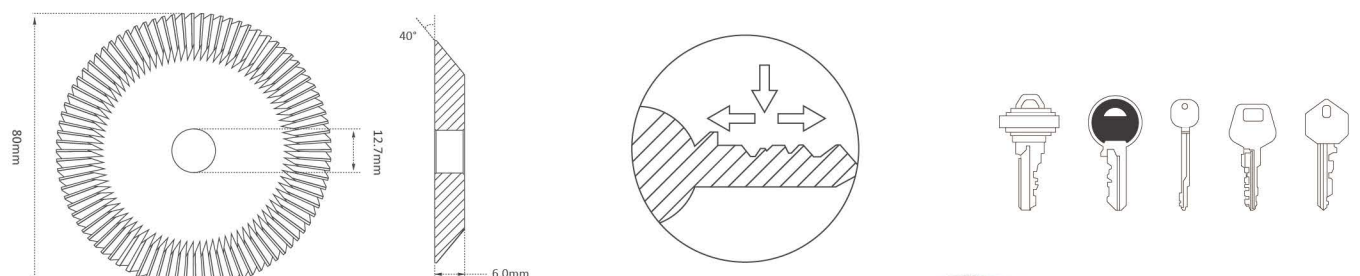
适用机型 Suit for machine | JINGJI P2/ 100G2/ 100G3/ Q29.100G5



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cutters Ref
P-990	0014J.C.C.	整体钨钢 carbide	0014J
P-507	0014I.C.C.	镶齿钨钢 welded-carbide	
P-1604	0014J-M35	高速钢 HSS M35	
P-1768	HJ-0014J	黑金刚 HSS M35-Coating	

Ø80×6.0×Ø12.7×40°

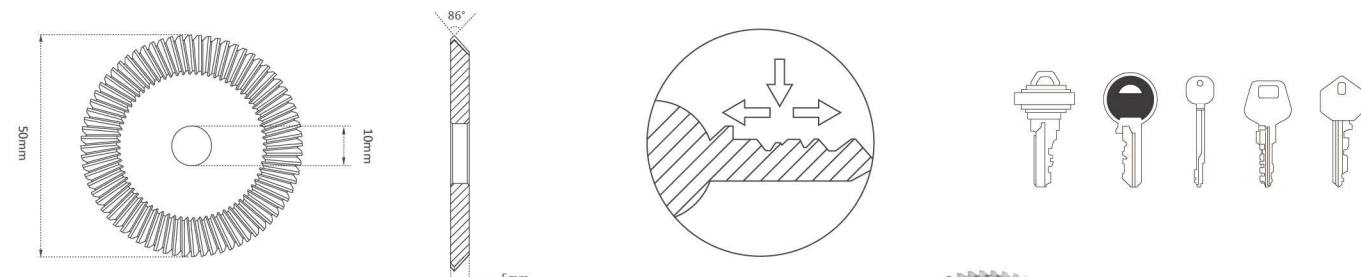
适用机型 Suit for machine | 100H



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-982	017AI.C.C.	镶齿钨钢
P-2781	HJ-0017	黑金刚 HSS M35-Coating

Ø50×5.0×Ø10×86°

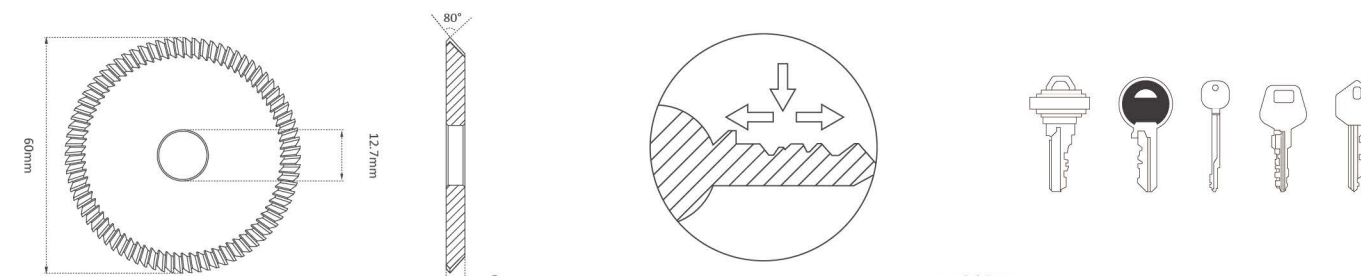
适用机型 Suit for machine | ANSAN CARISMA



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1925	B53	高速钢 HSS M35
P-3932	B54	整体钨钢 carbide

Ø60×5.0×Ø12.7×80°

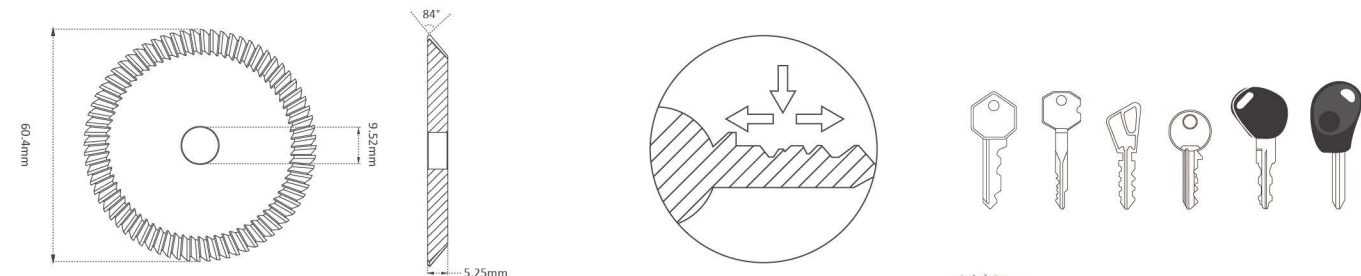
适用机型 Suit for machine | GL-030/ GL-320/ FLASH008



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cutters Ref
P-1769	EM18W / 3012W	整体钨钢 carbide	3012
P-1045	EM18	高速钢 HSS M35	
P-1466	HJ-EM18	黑金刚 HSS M35-Coating	

Ø60.4×5.25×Ø9.52×84°

适用机型 Suit for machine | DELTA

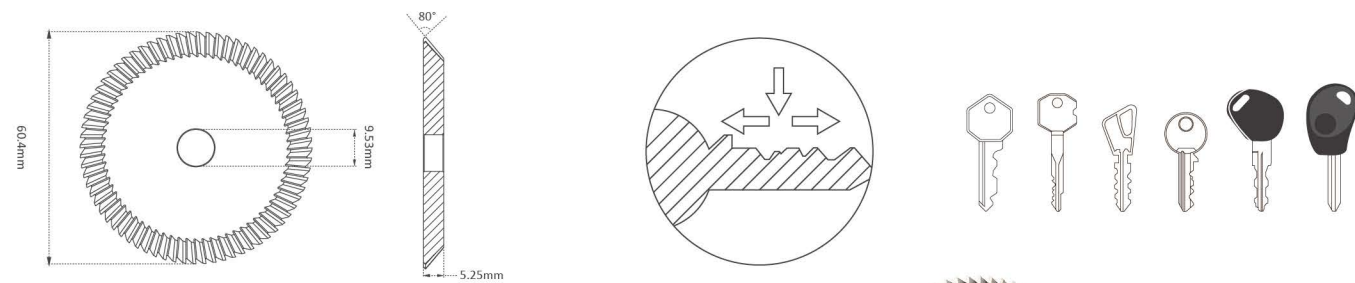


订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1801	P21W / D911868ZR D701380ZB	整体钨钢 carbide
P-1082	P21	高速钢 HSS M35

Φ60.4×5.25×Φ9.53×80°

适用机型
Suit for machine

UNOCODE/ DELTA PLUS/ LEONARDO
ULTRACODE/ UNOCODE 299/ 399



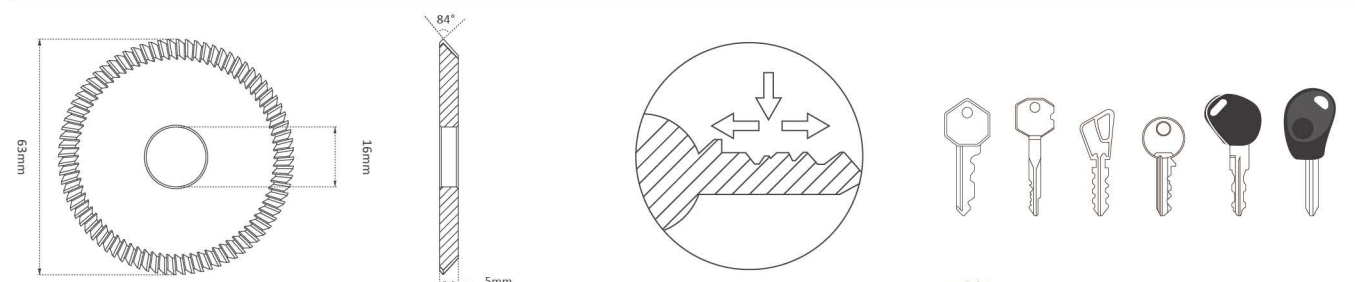
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-731	U01W	整体钨钢 carbide	AT-U01 / AT-U01W
P-721	U01	高速钢 HSS M35	



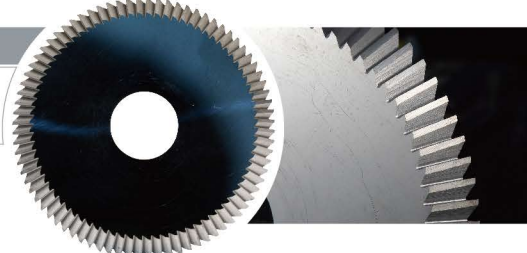
Φ63×5×Φ16×84°

适用机型 Suit for machine

JMA ECCO/ ECCO PLUS/ ECCO AUTOMATIC



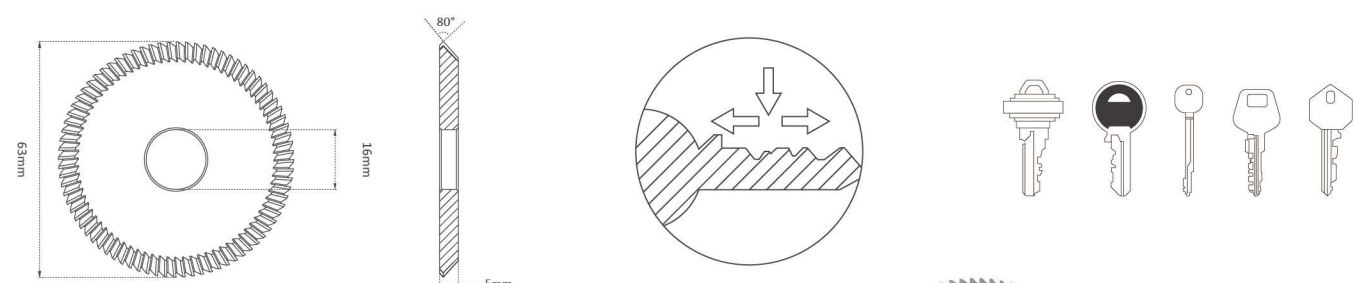
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1695	FP11W	整体钨钢 carbide	HP005S
P-1080	FP11M35	高速钢 HSS M35	



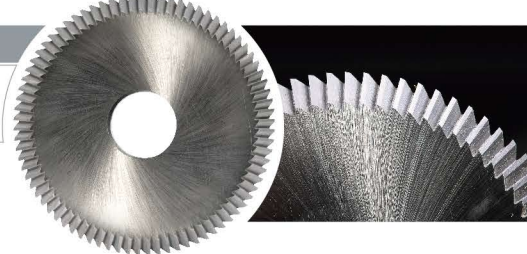
Φ63×5.0×Φ16×80°

适用机型 Suit for machine

Ilco KD14



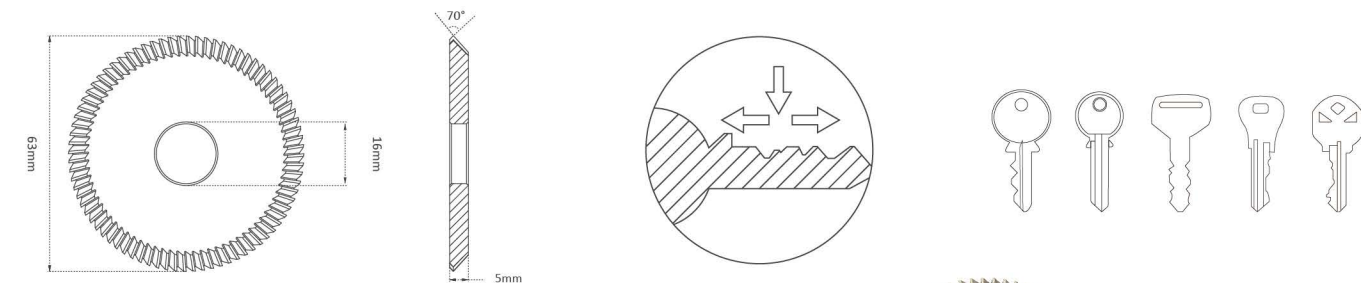
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-2228	FP12W	整体钨钢 carbide	FP12
P-1730	CU14	高速钢 HSS M35	



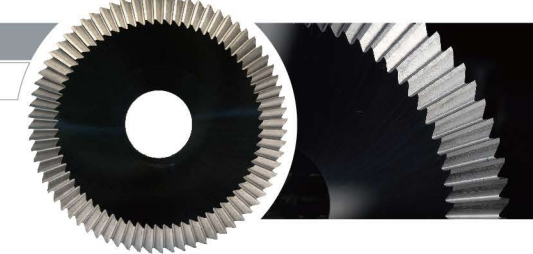
Φ63×5.0×Φ16×70°

适用机型 Suit for machine

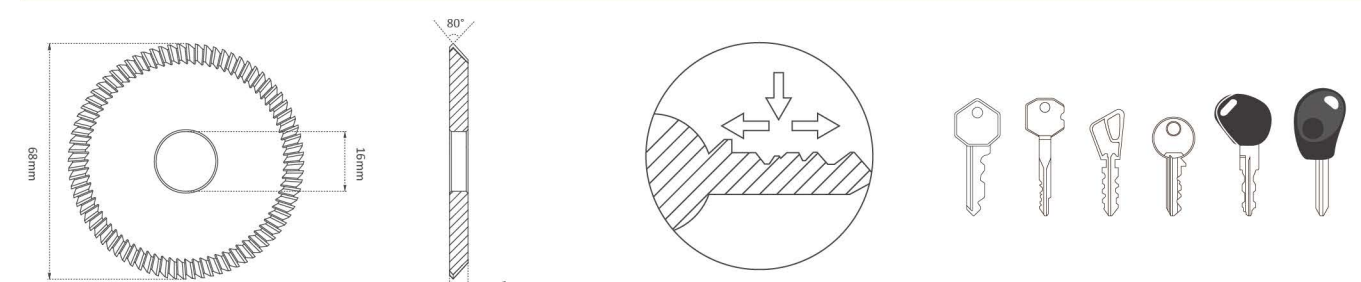
Keyline NINJA/ NINJA Laser/ NINJA Total/ NINJA Dark



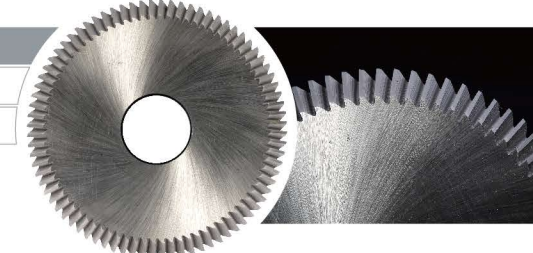
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-3752	WP034	整体钨钢 carbide



Φ68×6×Φ16×80°



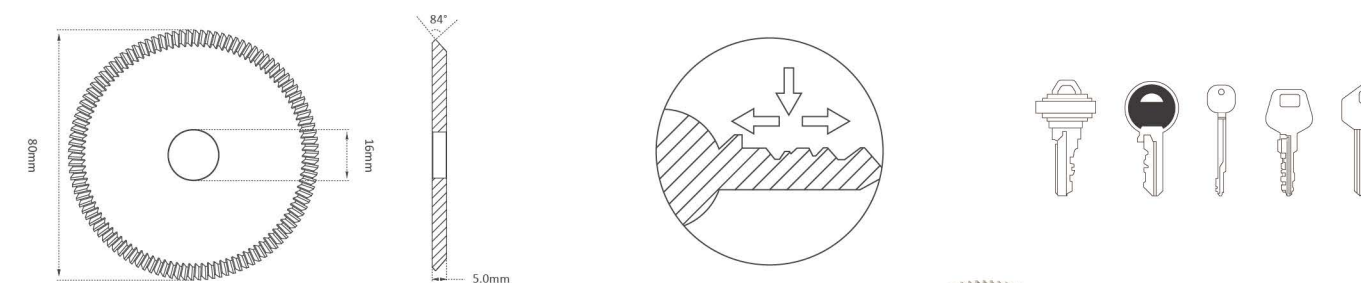
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-3214		整体钨钢 carbide
P-3213		高速钢 HSS M35



Φ80×5.0×Φ16×84°

适用机型
Suit for machine

Keyline carat/ JMA BERNA/ VIENNA/ SARATOGA BlockA/ Bravo
POKER/ REKORD/ SPEED/ DUO/ JZ-323/ JZ-300AS

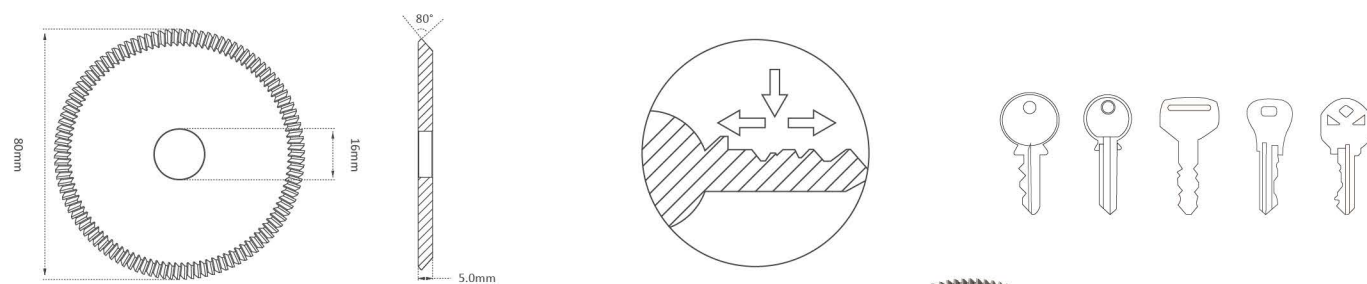


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-730	P01W / FP24W	整体钨钢 carbide	FP24 HPP01 WPP01 / A-013
P-1070	P01M35	高速钢 HSS M35	
P-1767	HJ-P01	黑金刚 HSS M35-Coating	



Ø80×5×Ø16×80°-0.5

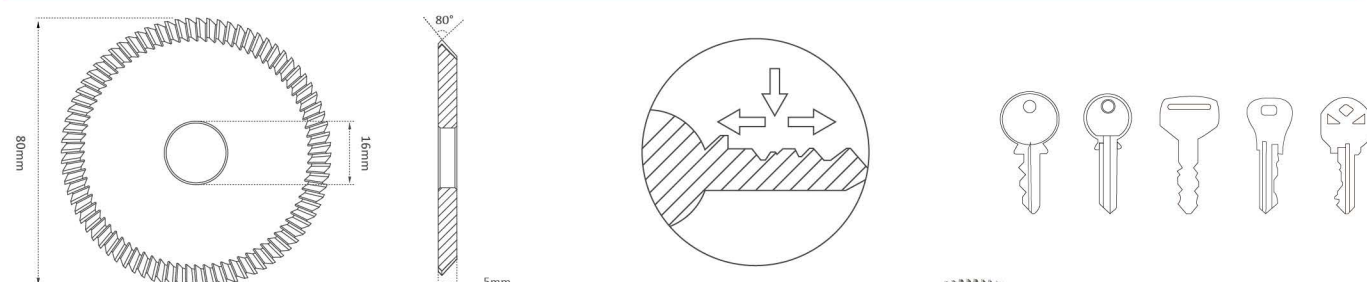
适用机型 Suit for machine | ILCO KD50A/ KD71A/ KD50C
Silca Bravo II/ Bravo III/ Bravo III w/ EZ Jaw/ Keyline Dezmo



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-2028	WP032 / D717898ZB	整体钨钢 carbide	HPP032 / WPP032 / F01
P-1049	CU50A	高速钢 HSS M35	

Ø80×5.0×Ø16×80°-1.0

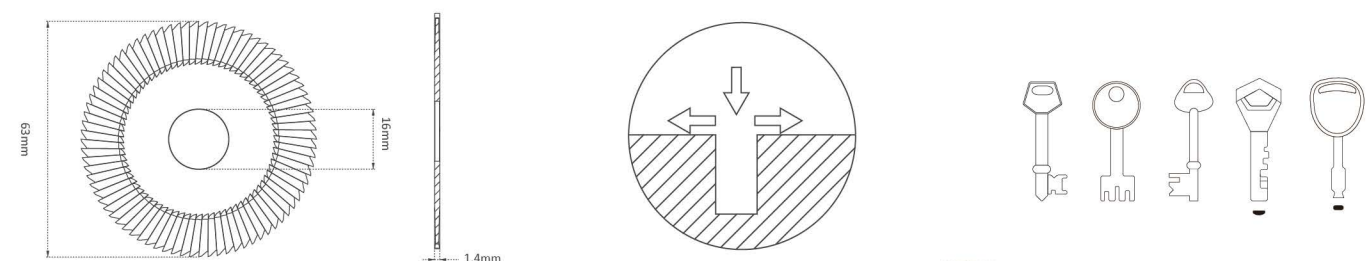
适用机型 Suit for machine | RY45/ RY66/ RY100/ RY256/ Ilco KD40/ KD50/ KD71/ Borkey



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1077	Ry10030	高速钢 HSS M35	CU11 / 26MC / CU100

Ø63×1.4×Ø16 SIDE MILLING CUTTER

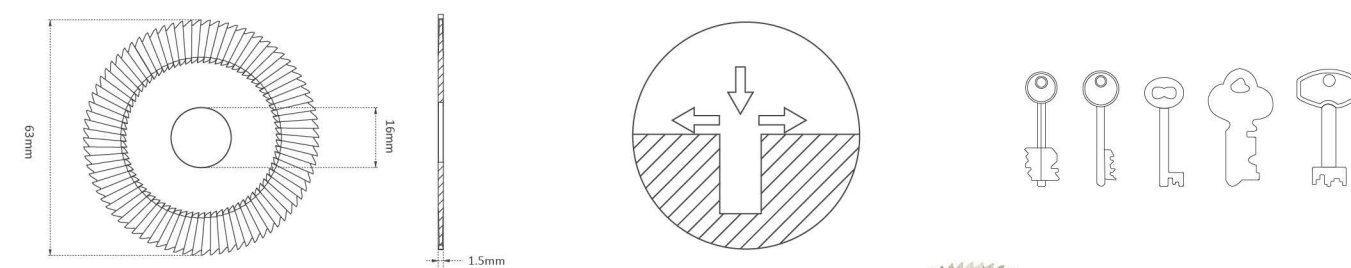
适用机型 Suit for machine | JMA ECCO Combi/ JMA ECCO BIT/ JMA ECCO DETROIT
JMA ECCO RG/ Keyline 201



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-756	FP8W / 020W	整体钨钢 carbide	HS020 / FP8

Ø63×1.5×Ø16 SIDE MILLING CUTTER

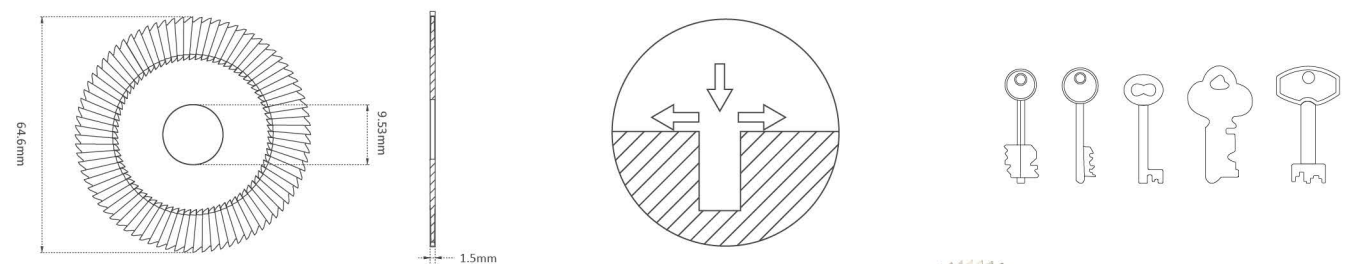
适用机型 Suit for machine | Keyline 201



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1021	CU15AC	整体钨钢 carbide	HSSG32 / CU15A / FK2

Ø64.6×1.5×Ø9.53 SIDE MILLING CUTTER

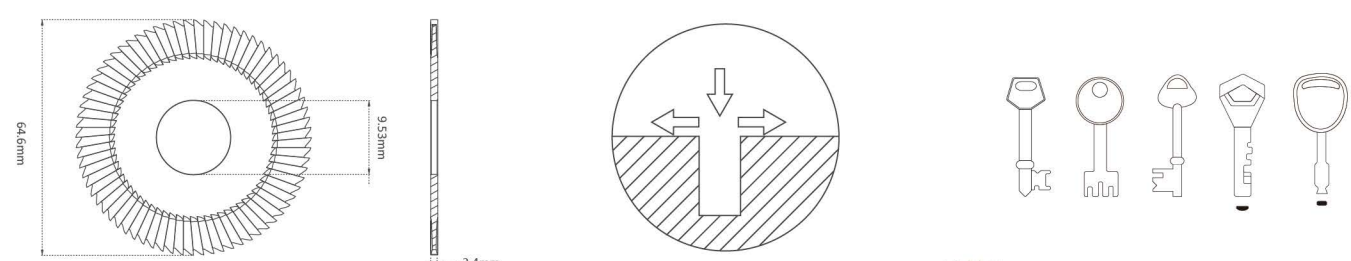
适用机型 Suit for machine | SILCA DELTA



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1024	SG19W	整体钨钢 carbide	SG19

Ø64.6×2.4×Ø9.53 SIDE MILLING CUTTER

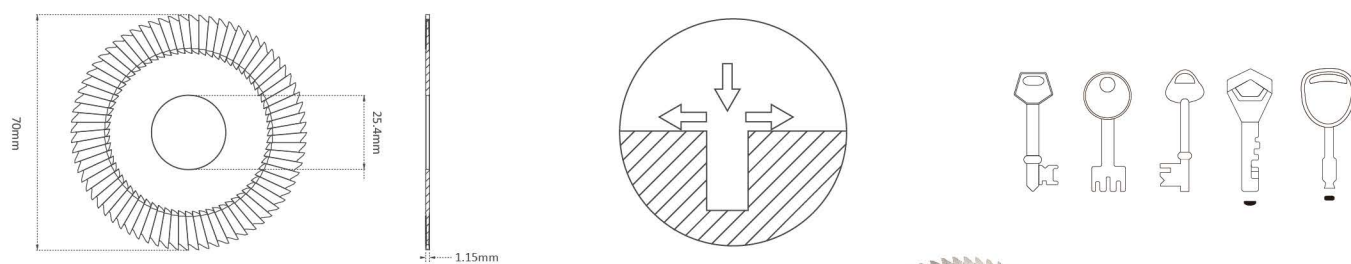
适用机型 Suit for machine | SILCA DELTA



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1023	SG18W	整体钨钢 carbide	SG18

Ø70×1.15×Ø25.4 SIDE MILLING CUTTER

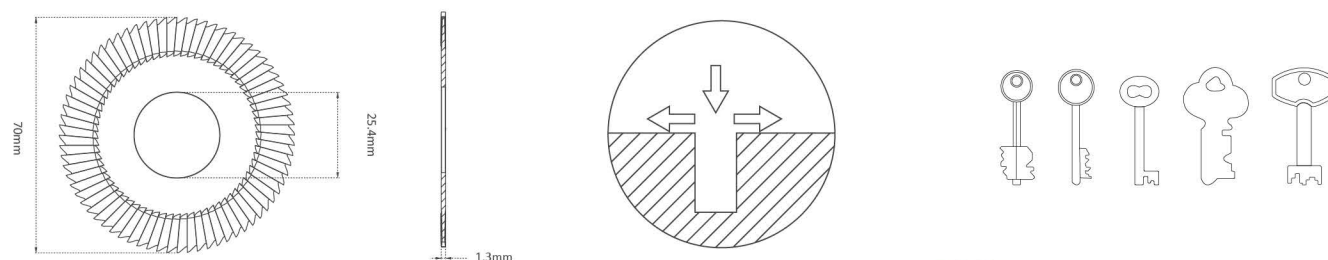
适用机型 Suit for machine | GL-368A/ GL-368C/ GL-888



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-760	0021AC.C	整体钨钢 carbide	8826
P-3727	HJ-8826	黑金刚 HSS M35-Coating	

Ø70×1.3×Ø25.4 SIDE MILLING CUTTER

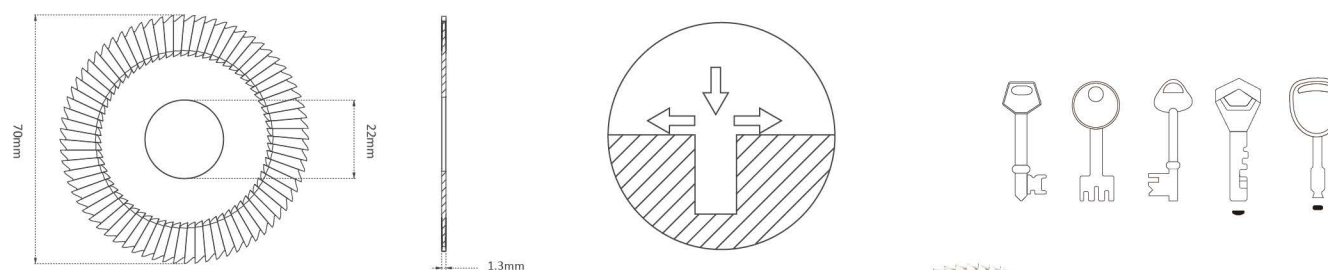
适用机型 Suit for machine | 100C/ 100D/ 100E/ 100E1/ 100F/ 100F1



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-759	0020AC.C	整体钨钢 carbide
P-3455	HJ-0020A	黑金刚 HSS M35-Coating
P-751	0020A	高速钢 HSS M35

Ø70×1.3×Ø22 SIDE MILLING CUTTER

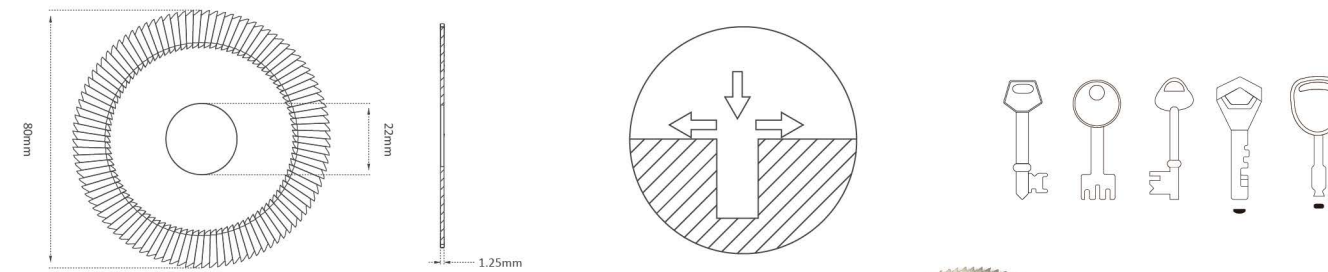
适用机型 Suit for machine | 100B/ 202/ 100A/ 100A1/ 100A2/ 100A3



订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-758	0022AC.C	整体钨钢 carbide
P-3457	HJ-0022A	黑金刚 HSS M35-Coating
P-1871	0022A	高速钢 HSS M35

Ø80×1.25×Ø22 SIDE MILLING CUTTER

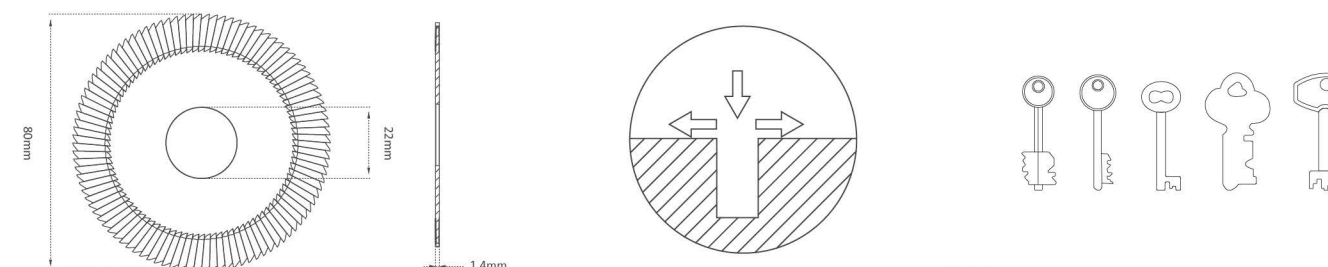
适用机型 Suit for machine | keyline202/ keyline203/ keyline204



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1015	WSSG39 / FP18W	整体钨钢 carbide	HSSG39 / FP18

Ø80×1.4×Ø22 SIDE MILLING CUTTER

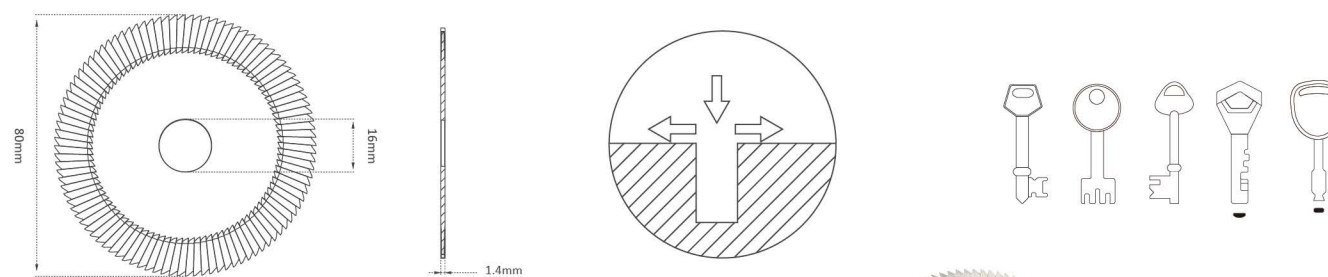
适用机型 Suit for machine | 100H/ 100G/ 100G1/ 100G2/ 100G3/ 202A/ 202C



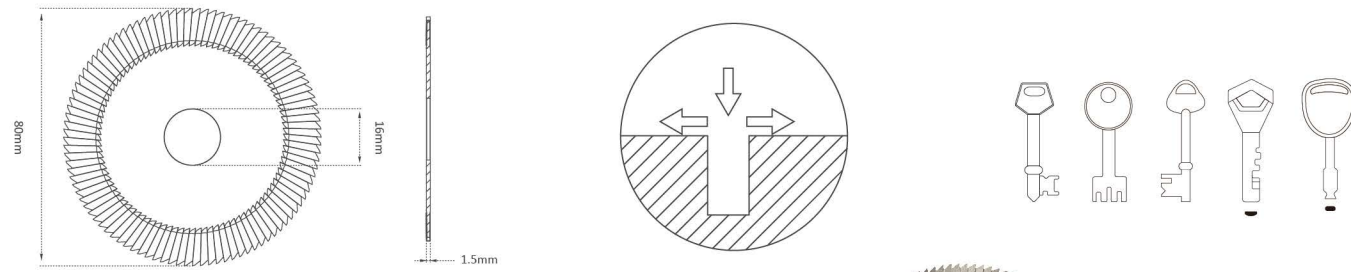
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-757	0023C.C / FP20W	整体钨钢 carbide
P-3459	HJ-0023A	黑金刚 HSS M35-Coating
P-1651	0023A / FP20	高速钢 HSS M35

Ø80×1.4×Ø16 SIDE MILLING CUTTER

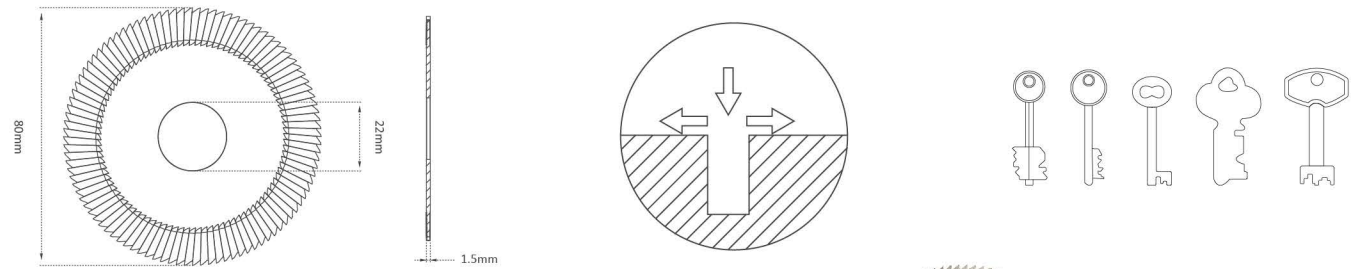
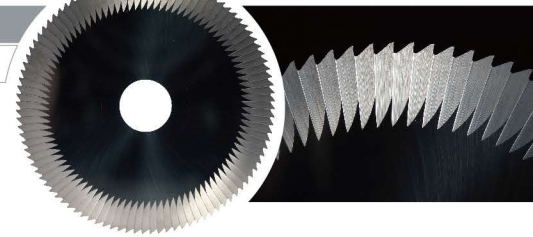
适用机型 Suit for machine | SARATOGA BlockB/ TITAN BIT



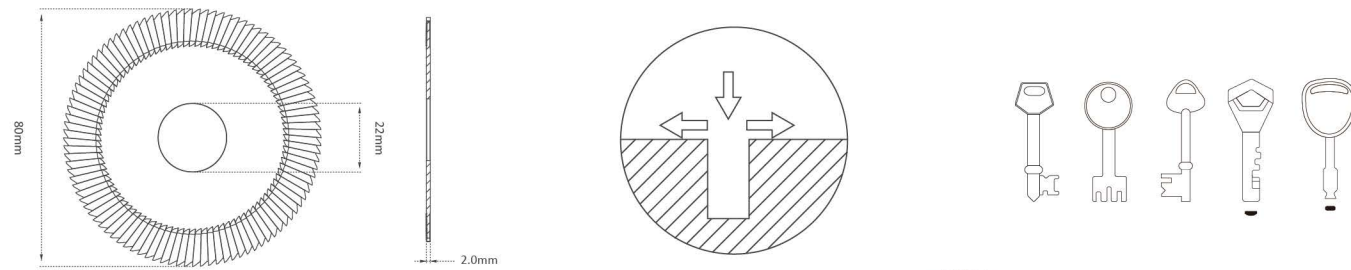
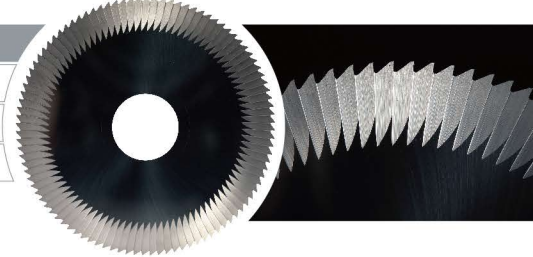
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1020	FP19W	整体钨钢 carbide
P-4147	HJ-FP19	黑金刚 HSS M35-Coating
P-1108	FP19	高速钢 HSS M35



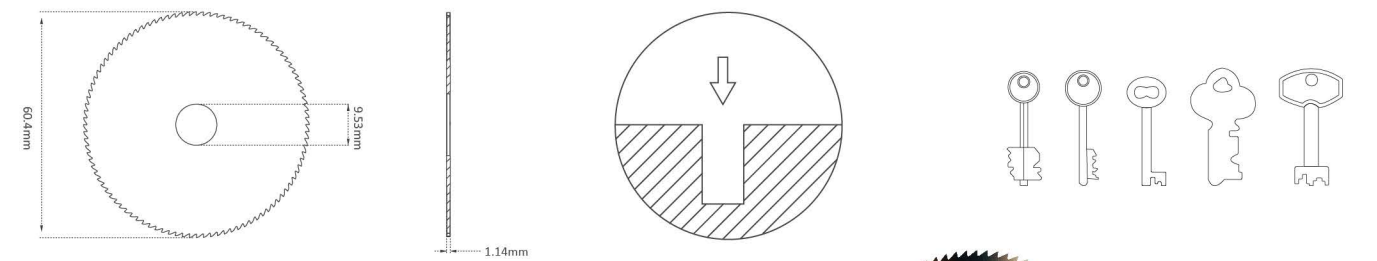
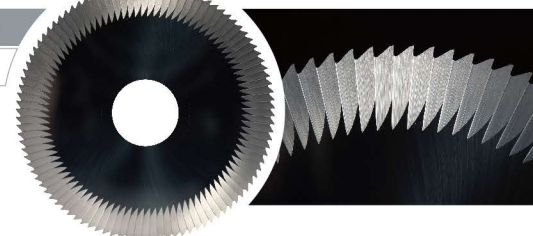
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-3590	FP26W	整体钨钢 carbide



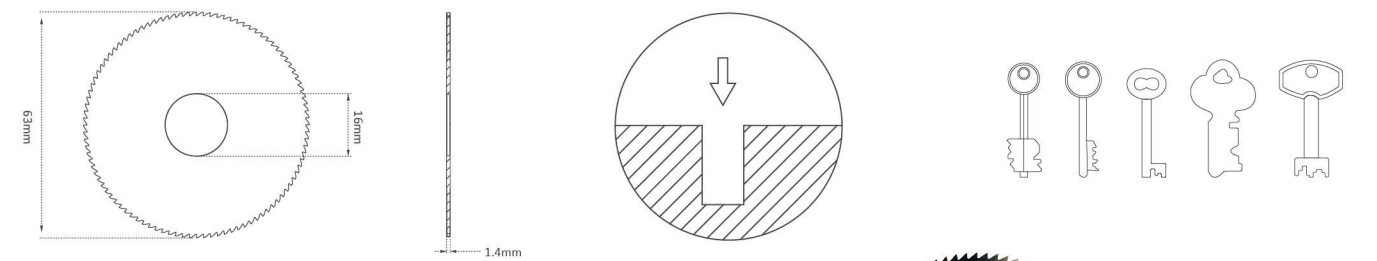
订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-755	SG2W / FP21W	整体钨钢 carbide
P-1098	HJ-SG2	黑金刚 HSS M35-Coating
P-1105	SG2 / FP21	高速钢 HSS M35



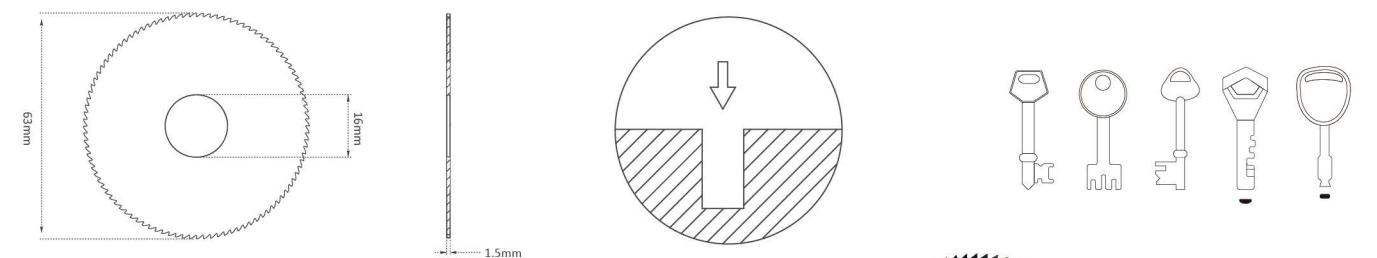
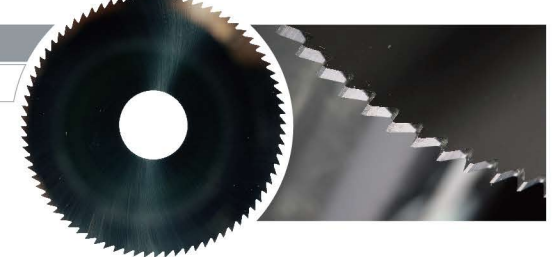
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1018		整体钨钢 carbide	SG10W



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1011	SG14W	整体钨钢 carbide	SG14

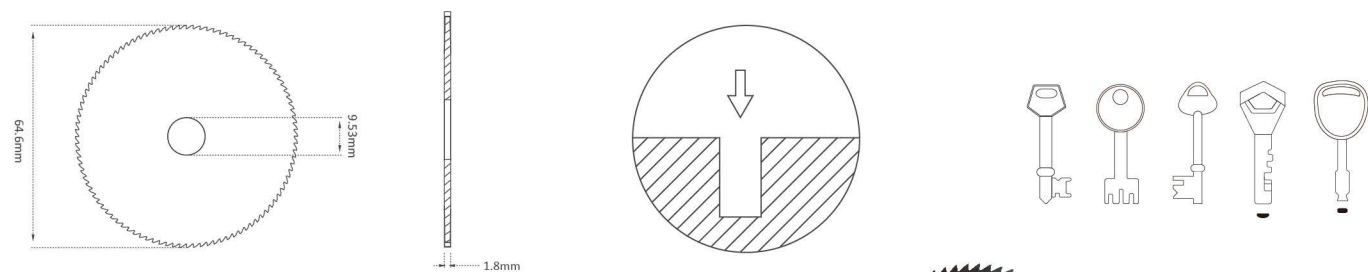


订货编号 Order code	锐正代码 RAISE Ref	材质 Material
P-1002	FP8W	整体钨钢 carbide

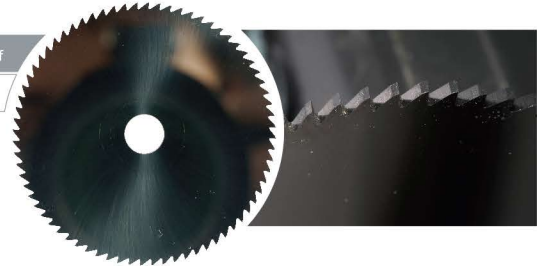


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1003	CU15C	整体钨钢 carbide	CU15 / FK2 / HSSG32

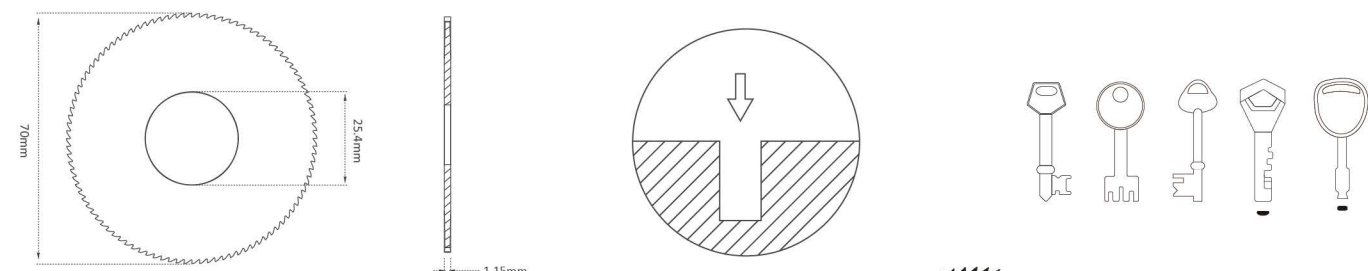




订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1561	SG17W	整体钨钢 carbide	SG17



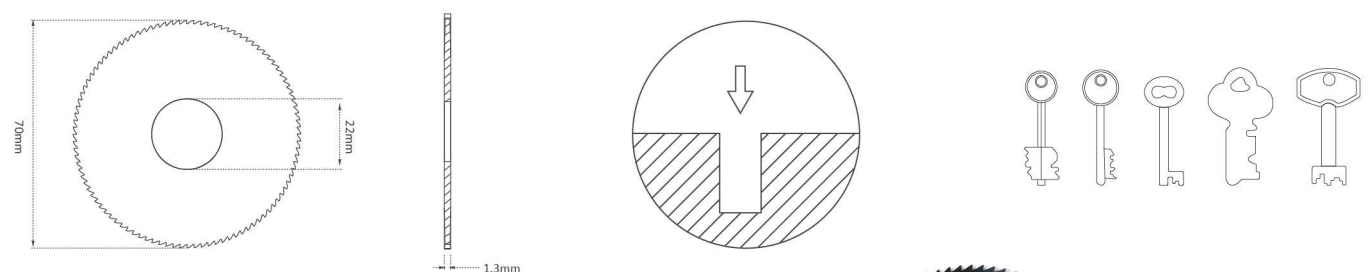
Φ70×1.15×Φ25.4 FLAT SLOTTER



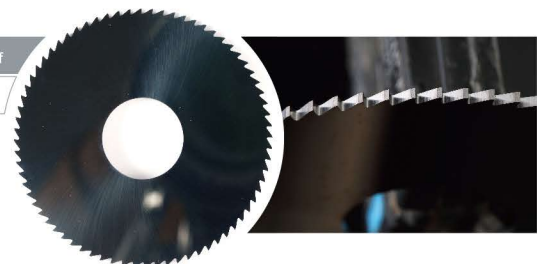
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-744	0021C.C.	整体钨钢 carbide	0021# / 3628 / 8823



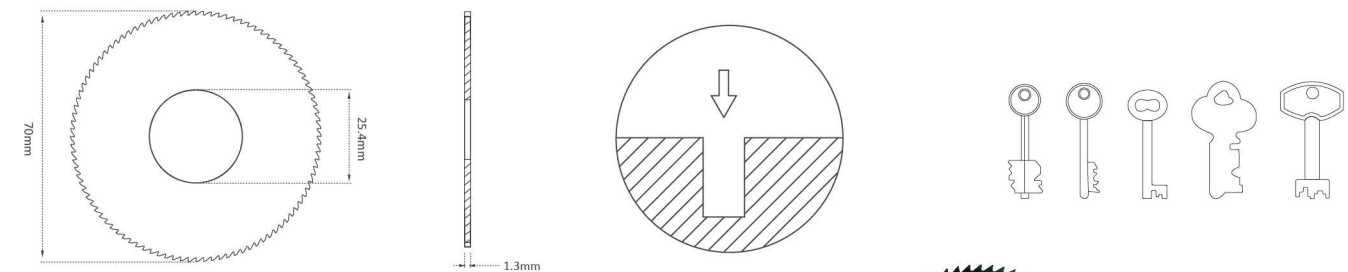
Φ70×1.3×Φ22 FLAT SLOTTER



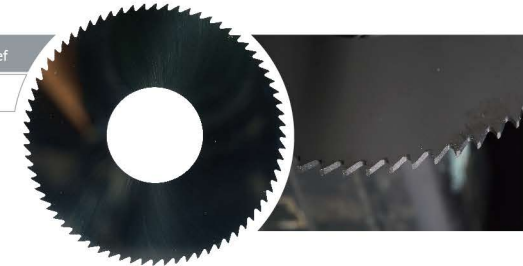
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-743	0022C.C.	整体钨钢 carbide	0022#



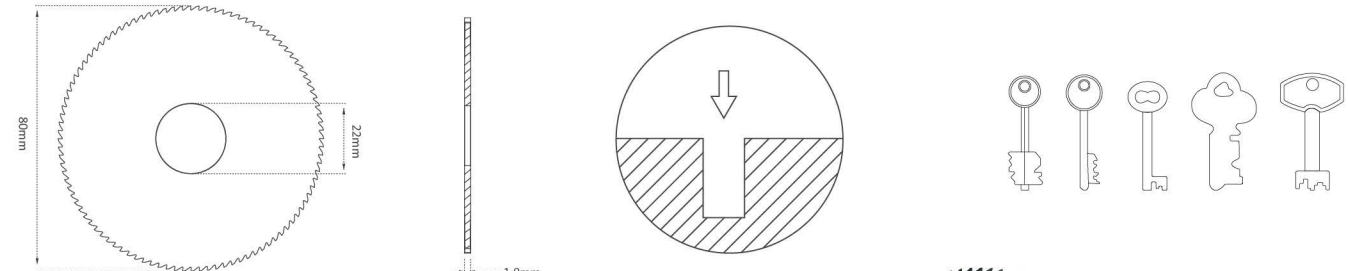
Φ70×1.3×Φ25.4 FLAT SLOTTER



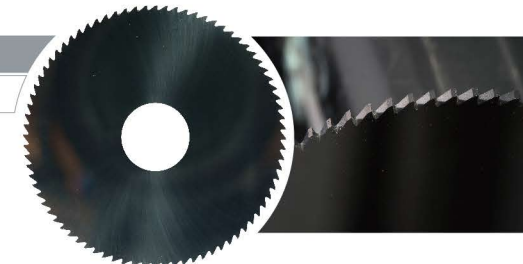
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-745	0020C.C.	整体钨钢 carbide	0020#



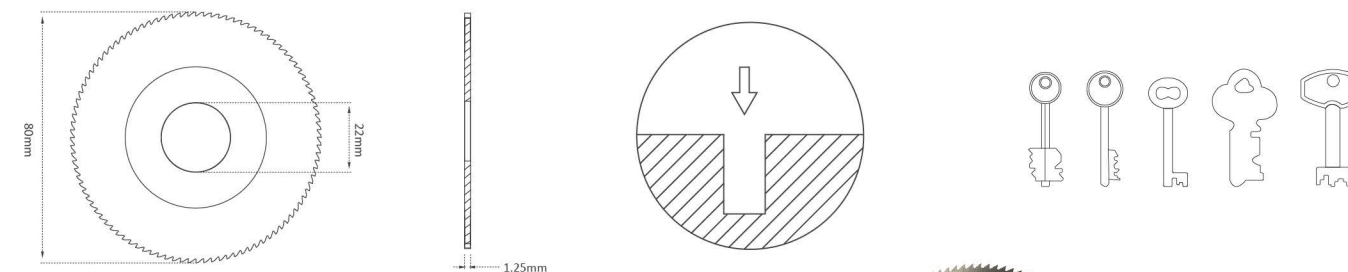
Φ80×1.0×Φ22 FLAT SLOTTER



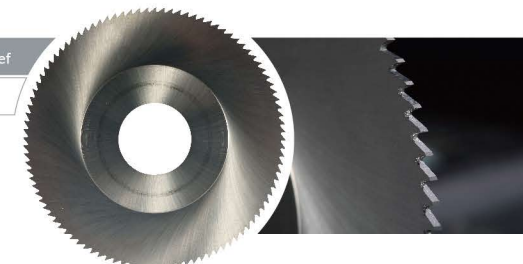
订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1869	SG3W / FP23	整体钨钢 carbide	T81 / SG3



Φ80×1.25×Φ22 FLAT SLOTTER

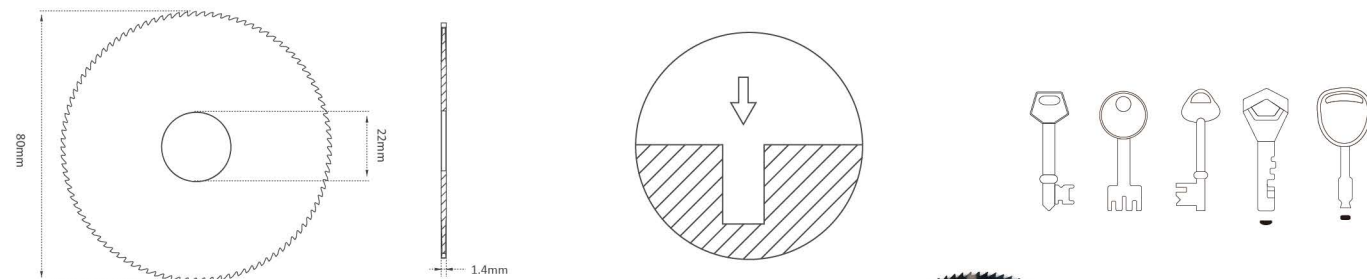


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1538	WSSG4/ SG23W/ SG4W	整体钨钢 carbide	SG4

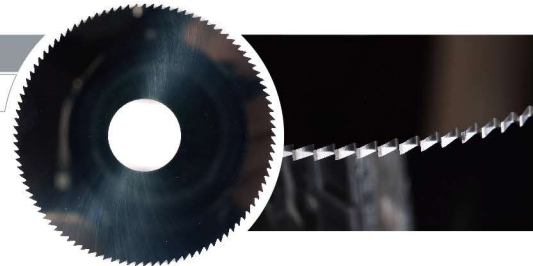


Ø80×1.4×Ø22 FLAT SLOTTER

适用机型 Suit for machine | 100H/ 100G/ 100G1/ 100G2/ 100G3/ 202A/ 202C
SILCA OPERA III/ OPERA IV/ TARGA 2000/ TECH3/ TECHNICA

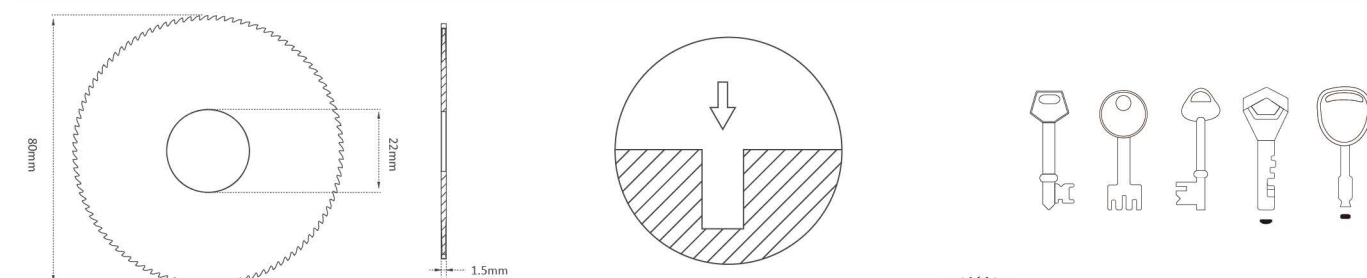


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-742	0023CC.C / SG7W	整体钨钢 carbide	0023# / SG7

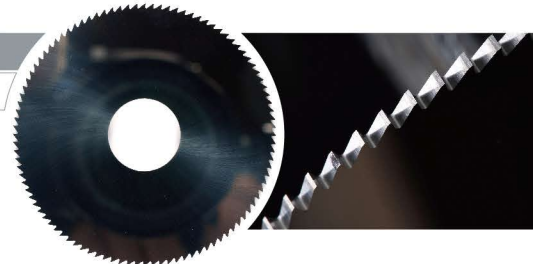


Ø80×1.5×Ø22 FLAT SLOTTER

适用机型 Suit for machine | SILCA DUO/ OPERA III/ OPERA IV
TARGA 2000/ TECH3/ TECHNICA/ PRIMA LASER MACHINE

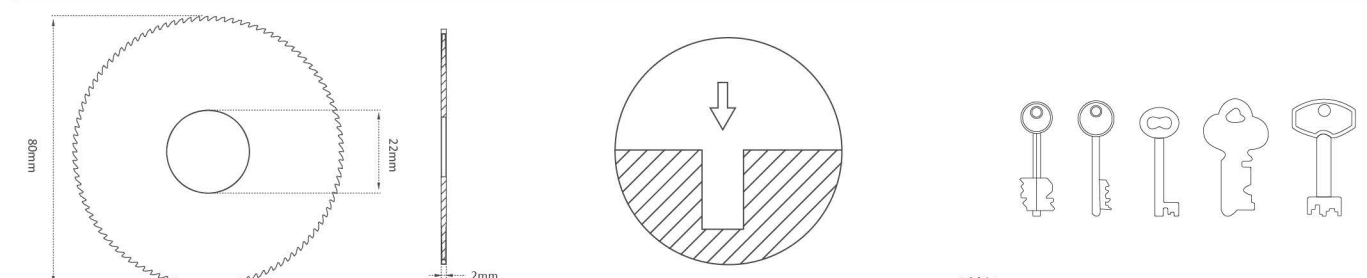


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-997	SG1W	整体钨钢 carbide	

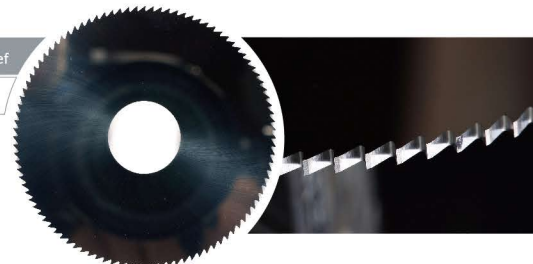


Ø80×2.0×Ø22 FLAT SLOTTER

适用机型 Suit for machine | SILCA TECH/ LANCER PLUS

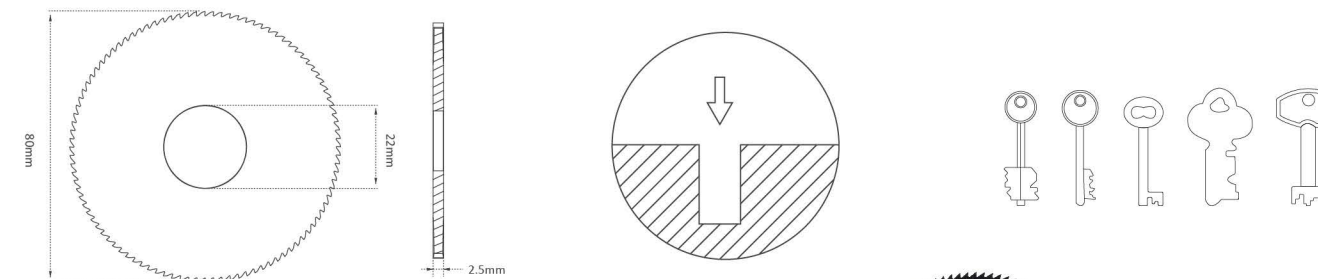


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-3453	0023DC.C / SG10W	整体钨钢 carbide	SG10

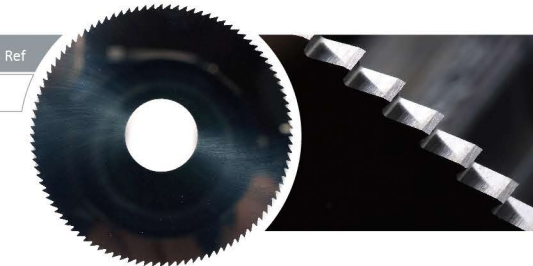


Ø80×2.5×Ø22 FLAT SLOTTER

适用机型 Suit for machine | SILCA AY100/C

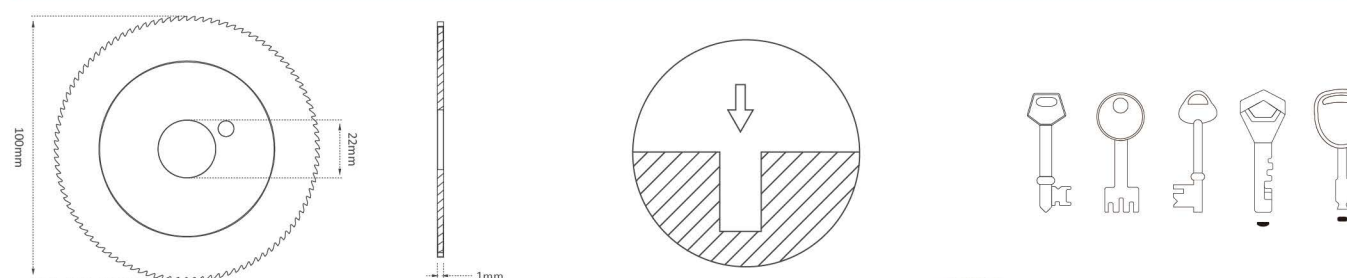


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-3460	SG12W	整体钨钢 carbide	SG12

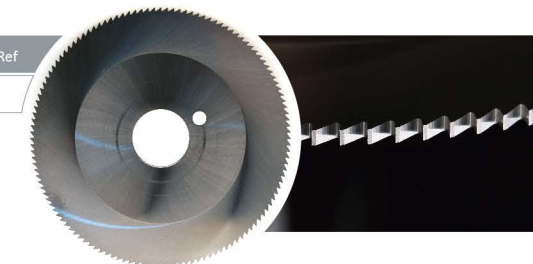


Ø100×1.0×Ø22 FLAT SLOTTER

适用机型 Suit for machine | IDEA/ Keyline SIGMA PRO/ 993 series

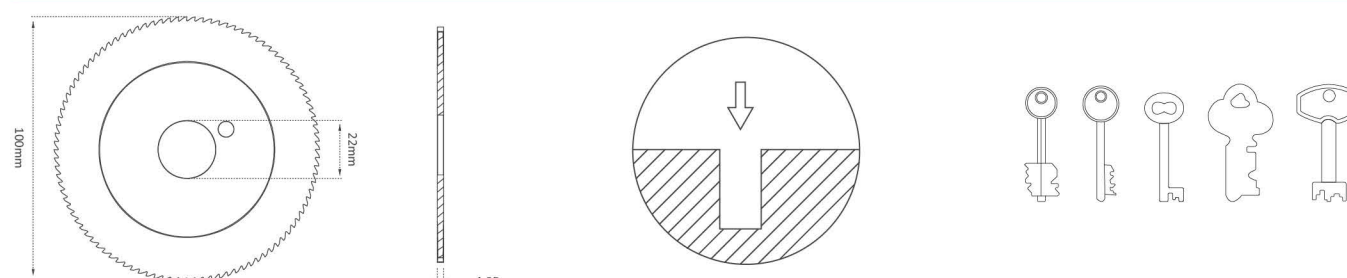


订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-3464	PL1.0	整体钨钢 carbide	WSPL1



Ø100×1.25×Ø22 FLAT SLOTTER

适用机型 Suit for machine | IDEA/ Keyline SIGMA PRO/ 993 series



订货编号 Order code	锐正代码 RAISE Ref	材质 Material	可替代刀片代码 Replaceable cuttres Ref
P-1005	PL1.25	整体钨钢 carbide	WSPL1.25

