



米尼国际切削公司

引领金属切削工具技术



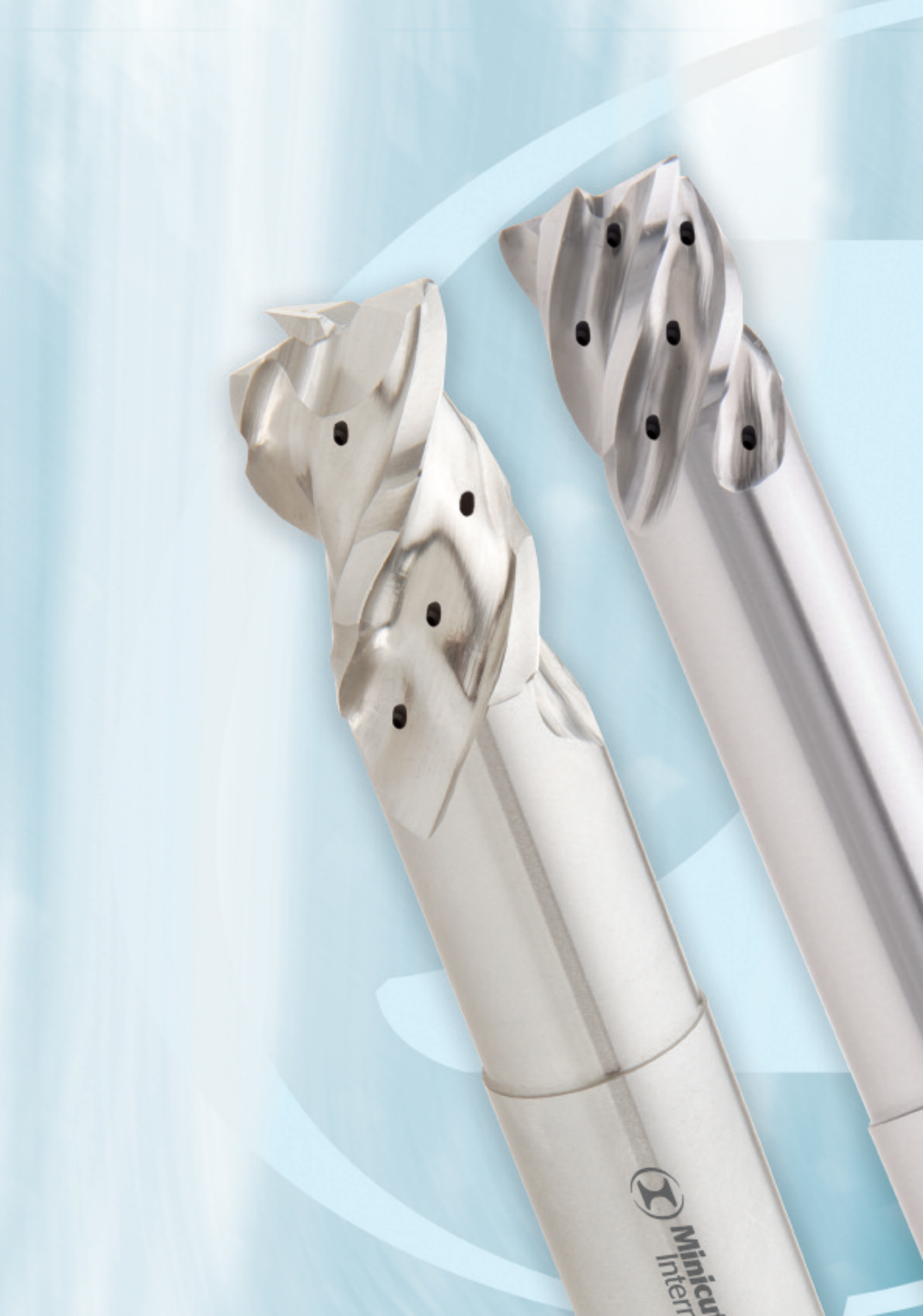
Minicut
International
Leader in Cutting Tool Technology

高性能切削工具

High Performance Cutting Tools



公制版本 METRIC EDITION




Minicurl
Interroll



Minicut
International
Leader in Cutting Tool Technology




Minicut
International


Minicut
International



米尼国际切削公司(Minicut International)是一家专门设计制造高性能金属切削工具的加拿大公司。其产品主要应用于航空、航天及其他金属制造行业。40多年来，作为北美切削工具行业的龙头企业，米尼国际切削公司以其不断的技术创新，优良的产品性能，在业界赢得无可争议的声誉。

米尼国际切削公司之所以能够在切削工具这个充满高技术及激烈竞争的行业取得如此的成功，是因为其在研究及生产技术方面从未间断的投入。米尼国际切削公司的高技术，高性能产品可用于各种钛合金、不锈钢、铝合金及其他和难切削和金的高效率加工。其产品已出口世界30多个国家。

Minicut International is a Canadian company specialized in the manufacturing of high performance cutting tools for the aerospace and metalworking industries. For over 40 years Minicut's reputation for engineering some of the most innovative and performance driven cutting tools has been unquestionable, making it a leading North American manufacturer in cutting tool technology.

Much of the success attained by Minicut in this highly technological and most competitive field of activity is its historical and continued commitment into research and product technology, resulting in the development of innovative, ultra-performing products that effectively machine titanium, stainless steel, aluminum and other exotic alloys. These advanced technologies have enabled Minicut to export its products to more than 30 countries worldwide.





我们致力于
最先进的技术

***Our Commitment
To the Most Advanced
Technology!***



系列
LIST

LIST RPM



LIST 930MP



LIST X930MP



LIST SF930M



LIST XSF930M



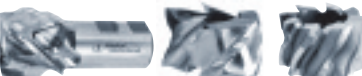
LIST SC999M SUPERCUT TA-XXX



LIST 930M



LIST 940MP - 950MP - 955M



LIST CY996M



LIST CY997M - CY998M



LIST 995M



LIST 985M



LIST 816M



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用于铝合金高速加工

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用于 铝合金、镍基合金、
高强度不锈钢的粗、精加工

For Roughing and Finishing Titanium, Inconel, Stainless and High Tensile Alloys

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用于不锈钢、铝合金、
镍基合金、高强度钢的粗加工

For Roughing Stainless Steels, Titanium, Inconel & High Strength Steels

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LIST 3000M



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LIST 4000M



LIST 4050M



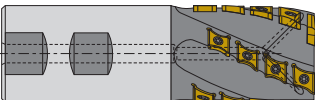
系列
LIST

可转位球头

INDEXABLE BALL NOSE

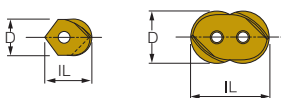


螺旋正向刃前角可转位铣刀
HELICAL POSITIVE INDEXABLE CUTTER



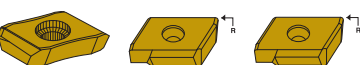
刀片 - 球头

INSERTS - BALL NOSE



刀片 - 铣刀

INSERTS - CUTTER



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细颗粒整体硬质合金
球头立铣刀
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唯一一种螺旋式正向
刃前角可转位铣刀

The Only Helical Positive
Indexable Cutter

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双端球头刀片

Double Cut Ball Nose Inserts

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麦格铣刀 (Megamill)
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最先进的PVD表面涂层技术

通过坚持不懈地研究，米尼国际切削公司(Minicut International)开发出了最精尖的PVD表面涂层技术以最大限度地延长切削刀具的寿命。其先进的TiAlN及SUPREME(TiAlN₂)涂层可使刀具在切钛合金及其他特种合金时具有非凡的性能。

The most advanced PVD surface coating technology

With its constant research in PVD coatings, Minicut International has developed and engineered state-of-the-art technology to maximize tool life. The advanced processes in TiAlN and SUPREME (TiAlN₂) coatings have generated extraordinary performances when machining titanium and other types of exotic materials.



Minicut[®] Super Cobalt

专利保护几何参数 - 粉末金属 - 优质加钴工具钢

PATENTED GEOMETRY - POWDERED METAL - SUPER COBALT

在金属切削方面的超前理念

The advanced concept in metal cutting



RPM 系列

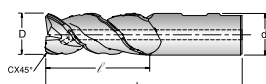
高速度
加工铝合金
定向冷却孔
抛光排屑槽
PM优质加钴工具钢



LIST RPM

High Speed
Machining of Aluminium
Directional coolant holes
Polished Flutes
PM Super Cobalt

刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
RPM-1016	10	10	16	66	3	29000	29125
RPM-1022	10	10	22	72	3	29005	29130
RPM-1226	12	12	26	83	3	29010	29135
RPM-1253	12	12	53	110	3	29015	29140
RPM-1426	14	12	26	83	3	29020	29145
RPM-1453	14	12	53	110	3	29025	29150
RPM-1632	16	16	32	92	3	29030	29155
RPM-1663	16	16	63	123	3	29035	29160
RPM-1832	18	16	32	92	3	29040	29165
RPM-1863	18	16	63	123	3	29045	29170
RPM-2038	20	20	38	104	3	29050	29175
RPM-2056	20	20	56	122	3	29055	29180
RPM-2075	20	20	75	141	3	29060	29185
RPM-2545	25	45	25	121	3	29065	29190
RPM-2563	25	25	63	139	3	29070	29195
RPM-2590	25	25	90	166	3	29075	29200
RPM-3253	32	32	53	133	3	29080	29205
RPM-3275	32	32	75	155	3	29085	29210
RPM-3210	32	32	106	186	3	29090	29215
RPM-4056-32	40	32	56	136	3	29095	29220
RPM-4075-32	40	32	75	155	3	29100	29225
RPM-4010-32	40	32	106	186	3	29105	29230
RPM-5050-32	50	32	50	152	3	29110	29235
RPM-5075-32	50	32	75	177	3	29115	29240
RPM-5075	50	50	75	177	3	29120	29245



ASP-30

MINICUT
STANDARD

MINICUT

43.5°

CORNER
CHAMFER

STRAIGHT
SHANK

推荐进给量及转速 - 高速槽铣削

Suggested feeds and speeds for HSM – slotting operation

DIA (mm)	n (RPM)	V_t (SMM)	c (mm/tooth)	f_n (mm/min)	Q cm ₃ /min
10	22000	691	0.038	2500	250
12	21200	799	0.051	3230	465
14	20550	903	0.063	3888	762
16	19900	1000	0.076	4547	1164
18	17900	1012	0.082	4394	1424
20	15900	999	0.089	4240	1696
25	12730	999	0.102	3880	2425
32	9950	1000	0.127	3790	3881
40	7950	999	0.151	3600	5760
50	6400	1005	0.164	3155	7888

930MP 系列

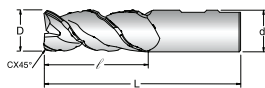
最佳性能
粗加工铝合金
抛光排屑槽
优质加钴工具钢 M-42

LIST 930MP

Optimum Performance
Roughing Aluminium
Polished Flutes
Super Cobalt M-42



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
930MP-1016	10	10	16	66	3	29260	29395
930MP-1022	10	10	22	72	3	29265	29400
930MP-1226	12	12	26	83	3	29270	29405
930MP-1253	12	12	53	110	3	29275	29410
930MP-1426	14	12	26	83	3	29280	29415
930MP-1453	14	12	53	110	3	29285	29420
930MP-1632	16	16	32	92	3	29290	29425
930MP-1663	16	16	63	123	3	29295	29430
930MP-1832	18	16	32	92	3	29300	29435
930MP-1863	18	16	63	123	3	29305	29440
930MP-2038	20	20	38	104	3	29310	29445
930MP-2075	20	20	75	141	3	29315	29450
930MP-2238	22	20	38	104	3	29320	29455
930MP-2275	22	20	75	141	3	29325	29460
930MP-2545	25	25	45	121	3	29330	29465
930MP-2590	25	25	90	166	3	29335	29470
930MP-2845	28	25	45	121	3	29340	29475
930MP-3045	30	25	45	121	3	29345	29480
930MP-3090	30	25	90	166	3	29350	29485
930MP-3253	32	32	53	133	3	29355	29490
930MP-3210	32	32	106	186	3	29360	29495
930MP-4063-32	40	32	63	143	3	29365	29500
930MP-4012-32	40	32	125	205	3	29370	29505
930MP-5075-32	50	32	75	155	3	29375	29510
930MP-5010	50	50	106	208	3	29380	29515
930MP-5010-32	50	32	106	186	3	29385	29520
930MP-50105	50	50	150	252	3	29390	29525



ASP-30

MINICUT
STANDARD

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CORNER
CHAMFER

STRAIGHT
SHANK

PM - Super Cobalt

X930MP 系列

用于铝合金
深槽粗加工

定向冷却孔
抛光屑槽 - 加长
优质加钴工具钢 M-42

LIST X930MP

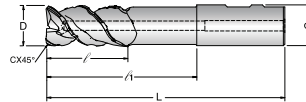
For Roughing Deep
Pockets in Aluminium

Directional Coolant Holes

Polished Flutes - Extra Long
Super Cobalt M-42



刀具编号	D	d	ℓ	ℓ ₁	L	C	Z	无涂层 EDP 编号	TiCN涂层 EDP 编号
X930MP-20125	20	20	35	50	125	1.5	3	29540	29580
X930MP-20150	20	20	35	83	150	1.5	3	29545	29585
X930MP-25125	25	25	40	125	200	1.5	3	29550	29590
X930MP-22150	25	25	40	150	226	1.5	3	29555	29595
X930MP-32150	32	32	50	150	230	2.0	3	29560	29600
X930MP-23200	32	32	50	200	280	2.0	3	29565	29605
X930MP-40200	40	32	50	200	280	2.0	3	29570	29610
X930MP-40210	40	40	50	210	305	2.0	3	29575	29615



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MINICUT
STANDARD

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CORNER
CHAMFER

STRAIGHT
SHANK

SF930M 系列

铝合金精加工
立铣刀

抛光排屑槽
优质加钴工具钢 M-42

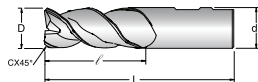
LIST SF930M

**Super Finisher End
Mills for Aluminium**

**Polished Flutes
Super Cobalt M-42**



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
SF930M-1016	10	10	16	66	3	29630	29740
SF930M-1022	10	10	22	72	3	29635	29745
SF930M-1226	12	12	26	83	3	29640	29750
SF930M-1253	12	12	53	110	3	29645	29755
SF930M-1426	14	12	26	83	3	29650	29760
SF930M-1453	14	12	53	110	3	29655	29765
SF930M-1632	16	16	32	92	3	29660	29770
SF930M-1663	16	16	63	123	3	29665	29775
SF930M-1832	18	16	32	92	3	29670	29780
SF930M-1863	18	16	63	123	3	29675	29785
SF930M-2038	20	20	38	104	3	29680	29790
SF930M-2075	20	20	75	141	3	29685	29795
SF930M-2238	22	20	38	104	3	29690	29800
SF930M-2275	22	20	75	141	3	29695	29805
SF930M-2545	25	25	45	121	3	29700	29810
SF930M-2590	25	25	90	166	3	29705	29815
SF930M-3045	30	25	45	121	3	29710	29820
SF930M-3090	30	25	90	166	3	29715	29825
SF930M-3253	32	32	53	133	3	29720	29830
SF930M-3210	32	32	106	186	3	29725	29835
SF930M-4063-32	40	32	63	143	3	29730	29840
SF930M-4012-32	40	32	125	205	3	29735	29845



M-42

MINICUT
STANDARD

MINICUT

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CORNER
CHAMFER

STRAIGHT
SHANK

PM - Super Cobalt

XSF930M 系列

用于铝合金
深槽精加工

定向冷却孔

抛光排屑槽
加长

优质加钴工具钢 M-42

LIST XSF930M

For Deep Pocket
finishing in Aluminium

Directional Coolant Holes

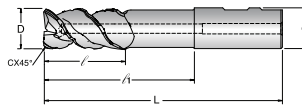
Polished Flutes

Extra Long

Super Cobalt M-42



刀具编号	D	d	ℓ	ℓ ₁	L	C	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
XSF930M-20125	20	20	35	50	125	1.5	3	29860	29900
XSF930M-20150	20	20	35	83	150	1.5	3	29865	29905
XSF930M-25125	25	25	40	125	200	1.5	3	29870	29910
XSF930M-22150	25	25	40	150	226	1.5	3	29875	29915
XSF930M-32150	32	32	50	150	230	2.0	3	29880	29920
XSF930M-23200	32	32	50	200	280	2.0	3	29885	29925
XSF930M-40200	40	32	50	200	280	2.0	3	29890	29930
XSF930M-40210	40	40	50	210	305	2.0	3	29895	29935



M-42

MINICUT
STANDARD

MINICUT

43.5°

CORNER
CHAMFER

STRAIGHT
SHANK

SC999M 系列

高性能加工
各种材料

抛光排屑槽
TA-XXX 涂层
优质加钴工具钢 M-42

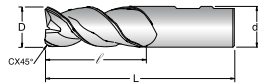
**LIST SC999M
SUPERCUT TA-XXX**

**High Performance
in all Materials**

**Polished Flutes
TA-XXX Coating
Super Cobalt M-42**



刀具编号	D	d	ℓ	L	Z	TA - XXX
						EDP编号
SC999M-1016	10	10	16	66	3	34000
SC999M-1022	10	10	22	72	3	34005
SC999M-1226	12	12	26	83	3	34010
SC999M-1253	12	12	53	110	3	34015
SC999M-1426	14	12	26	83	3	34020
SC999M-1453	14	12	53	110	3	34025
SC999M-1632	16	16	32	92	3	34030
SC999M-1663	16	16	63	123	3	34035
SC999M-1832	18	16	32	92	3	34040
SC999M-1863	18	16	63	123	3	34045
SC999M-2038	20	20	38	104	3	34050
SC999M-2075	20	20	75	141	3	34055
SC999M-2238	22	20	38	104	3	34060
SC999M-2275	22	20	75	141	3	34065
SC999M-2545	25	25	45	121	3	34070
SC999M-2590	25	25	90	166	3	34075
SC999M-3253	32	32	53	133	3	34080
SC999M-3210	32	32	106	186	3	34085
SC999M-4063-32	40	32	63	143	3	34090
SC999M-4012-32	40	32	125	205	3	34095



M-42

**MINICUT
STANDARD**

MINICUT

43.5°

**CORNER
CHAMFER**

**STRAIGHT
SHANK**

930M 系列

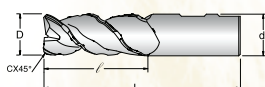
最佳性能
粗加工铝合金
优质加钴工具钢 M-42

LIST 930M

Optimum Performance
Roughing Aluminium
Super Cobalt M-42



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
930M-1016	10	10	16	66	3	34100	34260
930M-1022	10	10	22	72	3	34105	34265
930M-1226	12	12	26	83	3	34110	34270
930M-1253	12	12	53	110	3	34115	34275
930M-1426	14	12	26	83	3	34120	34280
930M-1453	14	12	53	110	3	34125	34285
930M-1632	16	16	32	92	3	34130	34290
930M-1663	16	16	63	123	3	34135	34295
930M-1832	18	16	32	92	3	34140	34300
930M-1863	18	16	63	123	3	34145	34305
930M-2038	20	20	38	104	3	34150	34310
930M-2075	20	20	75	141	3	34155	34315
930M-2238	22	20	38	104	3	34160	34320
930M-2275	22	20	75	141	3	34165	34325
930M-2545	25	25	45	121	3	34170	34330
930M-2590	25	25	90	166	3	34175	34335
930M-2845	28	25	45	121	3	34180	34340
930M-2890	28	25	90	166	3	34185	34345
930M-3045	30	25	45	121	3	34190	34350
930M-3090	30	25	90	166	3	34195	34355
930M-3253	32	32	53	133	3	34200	34360
930M-3210	32	32	106	186	3	34205	34360
930M-3653	36	32	53	133	3	34210	34370
930M-3610	36	32	106	186	3	34215	34375
930M-4063	40	40	63	155	3	34220	34380
930M-4063-32	40	32	63	143	3	34225	34385
930M-4012	40	40	125	217	3	34230	34390
930M-4012-32	40	32	125	205	3	34235	34395
930M-5075-32	50	32	75	155	3	34240	34400
930M-5010	50	50	106	208	3	34245	34405
930M-5010-32	50	32	106	186	3	34250	34410
930M-5015	50	50	150	252	3	34255	34415



M-42

MINICUT
STANDARD

MINICUT

43,5°

CORNER
CHAMFER

WELDED
FLAT

940MP 系列

重载铝合金粗铣
抛光排屑槽
优质加钴工具钢 M-42

LIST 940MP

Heavy Duty Roughing
Milling of Aluminium
Polished Flutes - M42



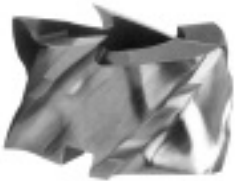
刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TICN涂层 EDP 编号
940MP-6350	63	40	50	142	4	38800	38830
940MP-6375	63	40	75	167	4	38805	38835
940MP-6310	63	40	100	192	4	38810	38840
940MP-7563	75	50	63	165	4	38815	38845
940MP-7590	75	50	90	192	4	38820	38850
940MP-7512	75	50	125	227	4	38825	38855

950MP 系列

空心铣刀
用于铝合金平面加工
抛光排屑槽 - M42

LIST 950MP

Shell Mill for Face
Milling of Aluminium
Polished Flutes - M42



刀具编号	D	d	ℓ	L	无涂层 EDP 编号	TICN涂层 EDP 编号
950MP-SM63	63	40	27	4	34420	34435
950MP-SM80	80	45	27	5	34425	34440
950MP-SM100	100	50	32	6	34430	34445

995M 系列

空心铣刀
用于钛合金平面加工 - M42

LIST 995M

Shell Mill for Face Milling
of titanium - M42



刀具编号	D	d	ℓ	L	无涂层 EDP 编号	TICN涂层 EDP 编号
995M-SM63	63	40	27	8	34450	34465
995M-SM80	80	45	27	10	34455	34470
995M-SM100	100	50	32	12	34460	34475

CY996M 系列

LIST CY996M

高性能粗、精加工
钛合金

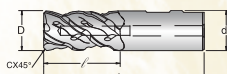
High performance for
roughing and finishing
of titanium coolant holes

定向冷却孔
抛光排屑槽
PM优质加钴工具钢

polished flutes
PM super cobalt



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
CY996M-1016	10	10	16	66	4	34500	34675
CY996M-1022	10	10	22	72	4	34505	34680
CY996M-1226	12	12	26	83	4	34510	34685
CY996M-1253	12	12	53	110	4	34515	34690
CY996M-1426	14	12	26	83	4	34520	34695
CY996M-1453	14	12	53	110	4	34525	34700
CY996M-1632	16	16	32	92	4	34530	34705
CY996M-1663	16	16	63	123	4	34535	34710
CY996M-1832	18	16	32	92	4	34540	34715
CY996M-1863	18	16	63	123	4	34545	34720
CY996M-2038	20	20	38	104	4	34550	34725
CY996M-2075	20	20	75	141	4	34555	34730
CY996M-2545	25	25	45	121	5	34560	34735
CY996M-2545-A	25	25	45	121	6	34565	34740
CY996M-2590	25	25	90	166	5	34570	34745
CY996M-2590-A	25	25	90	166	6	34575	34750
CY996M-3045	30	25	45	121	5	34580	34755
CY996M-3045-A	30	25	45	121	6	34585	34760
CY996M-3090	30	25	90	166	5	34590	34765
CY996M-3090-A	30	25	90	166	6	34595	34770
CY996M-3253	32	32	53	133	5	34600	34775
CY996M-3253-A	32	32	53	133	6	34605	34780
CY996M-3210	32	32	106	186	5	34610	34785
CY996M-3210-A	32	32	106	186	6	34515	34790
CY996M-4063-32	40	32	63	143	5	34620	34795
CY996M-4063-A	40	32	63	143	6	34625	34800
CY996M-4012-32-A	40	32	125	205	6	34630	34805
CY996M-5075-A	50	50	75	177	6	34635	34810
CY996M-5075-32-A	50	32	75	155	6	34640	34815
CY996M-5010-A	50	50	106	208	6	34645	34820
CY996M-5010-32-A	50	32	106	186	6	34650	34825
CY996M-5010-B	50	50	106	208	8	34655	34830
CY996M-5010-32-B	50	32	106	186	8	34660	34835
CY996M-5015-A	50	50	150	252	6	34665	34840
CY996M-5015-B	50	50	150	252	8	34670	34845



ASP-60

MINICUT
STANDARD

MINICUT

35°

CORNER
CHAMFER

WELDON
FLAT

CY 997M 系列粗加工铣刀

用于粗、精
钛合金深槽加工
定向冷却孔
抛光排屑槽
加长
PM优质加钴工具钢

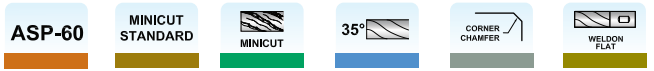
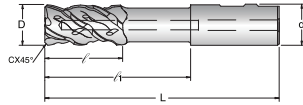
LIST CY997M

Rougher

For roughing and finishing
deep pockets of titanium
coolant holes
polished flutes - extra long
PM super cobalt



刀具编号	D	d	ℓ	ℓ ₁	L	C	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
CY997M-12100	12	12	18	100	150	0.75	4	34860	34900
CY997M-16125	16	16	24	125	150	1.00	4	34865	34905
CY997M-20150	20	20	30	150	175	1.00	4	34870	34910
CY997M-25150	25	25	40	150	213	1.00	6	34875	34915
CY997M-32175	32	32	50	175	238	1.50	6	34880	34920
CY997M-40175	40	32	50	175	238	1.50	6	34885	34925
CY997M-50150	50	50	63	150	252	1.50	6	34890	34930
CY997M-50200	50	50	63	200	302	1.50	8	34895	34935



CY998M 系列精加工铣刀

用于粗、精
钛合金深槽加工
定向冷却孔
抛光排屑槽
加长
PM优质加钴工具钢

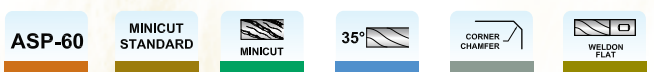
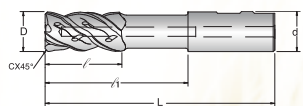
LIST CY998M

Superfinisher

For roughing and finishing
deep pockets of titanium
coolant holes
polished flutes - extra long
PM super cobalt



刀具编号	D	d	ℓ	ℓ ₁	L	C	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
CY998M-12100	12	12	32	100	150	0.75	4	34940	34980
CY998M-16125	16	16	50	125	150	1.00	4	34945	34985
CY998M-20150	20	20	50	150	175	1.00	4	34950	34990
CY998M-25150	25	25	63	150	213	1.00	6	34955	34995
CY998M-32175	32	32	75	175	238	1.50	6	34960	35000
CY998M-40175	40	32	75	175	238	1.50	6	34965	35005
CY998M-50150	50	50	75	150	252	1.50	6	34970	35010
CY998M-50200	50	50	75	200	302	1.50	8	34975	35015



PM - Super Cobalt

995M 系列

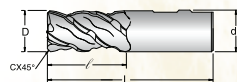
LIST 995M

钛合金粗加工
 高性能立铣刀
 优质加钴工具钢 M-42

*High performance roughing
 end mills for titanium
 super cobalt M-42*



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
995M-1016	10	10	16	66	4	38000	38175
995M-1022	10	10	22	72	4	38005	38180
995M-1226	12	12	26	83	4	38010	38185
995M-1253	12	12	53	110	4	38015	38190
995M-1426	14	12	26	83	4	38020	38195
995M-1453	14	12	53	110	4	38025	38200
995M-1632	16	16	32	92	4	38030	38205
995M-1663	16	16	63	123	4	38035	38210
995M-1832	18	16	32	92	4	38040	38215
995M-1863	18	16	63	123	4	38045	38220
995M-2038	20	20	38	104	4	38050	38225
995M-2075	20	20	75	141	4	38055	38230
995M-2545	25	25	45	121	5	38060	38235
995M-2545-A	25	25	45	121	6	38065	38240
995M-2590	25	25	90	166	5	38070	38245
995M-2590-A	25	25	90	166	6	38075	38250
995M-3045	30	25	45	121	5	38080	38255
995M-3045-A	30	25	45	121	6	38085	38260
995M-3090	30	25	90	166	5	38090	38265
995M-3090-A	30	25	90	166	6	38095	38270
995M-3253	32	32	53	133	5	38100	38275
995M-3253-A	32	32	53	133	6	38105	38280
995M-3210	32	32	106	186	5	38110	38285
995M-3210-A	32	32	106	186	6	38115	38290
995M-4063-32	40	32	63	143	5	38120	38295
995M-4063-A	40	32	63	143	6	38125	38300
995M-4012-32-A	40	32	125	205	6	38130	38305
995M-5075-A	50	50	75	177	6	38135	38310
995M-5075-32-A	50	32	75	155	6	38140	38315
995M-5010-A	50	50	106	208	6	38145	38320
995M-5010-32-A	50	32	106	186	6	38150	38325
995M-5010-B	50	50	106	208	8	38155	38330
995M-5010-32-B	50	32	106	186	8	38160	38335
995M-5015-A	50	50	150	252	6	38165	38340
995M-5015-B	50	50	150	252	8	38170	38345


M-42

 MINICUT
 STANDARD

35°

 CORNER
 CHAMFER

 WELDON
 FLAT

985M 系列

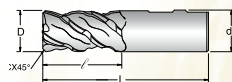
LIST 985M

高性能粗加工立铣刀
 用于因科镍合金
 及不锈钢加工
 优质加钴工具钢 M-42

High performance roughing
 end mills for inconel
 and stainless steels
 super cobalt M-42



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
985M-1016	10	10	16	66	4	38360	38535
985M-1022	10	10	22	72	4	38365	38540
985M-1226	12	12	26	83	4	38370	38545
985M-1253	12	12	53	110	4	38375	38550
985M-1426	14	12	26	83	4	38380	38555
985M-1453	14	12	53	110	4	38385	38560
985M-1632	16	16	32	92	4	38390	38565
985M-1663	16	16	63	123	4	38395	38570
985M-1832	18	16	32	92	4	38400	38575
985M-1863	18	16	63	123	4	38405	38580
985M-2038	20	20	38	104	4	38410	38585
985M-2075	20	20	75	141	4	38415	38590
985M-2545	25	25	45	121	5	38420	38595
985M-2545-A	25	25	45	121	6	38425	38600
985M-2590	25	25	90	166	5	38430	38605
985M-2590-A	25	25	90	166	6	38435	38610
985M-3045	30	25	45	121	5	38440	38615
985M-3045-A	30	25	45	121	6	38445	38620
985M-3090	30	25	90	166	5	38450	38625
985M-3090-A	30	25	90	166	6	38455	38630
985M-3253	32	32	53	133	5	38460	38635
985M-3253-A	32	32	53	133	6	38465	38640
985M-3210	32	32	106	186	5	38470	38645
985M-3210-A	32	32	106	186	6	38475	38650
985M-4063-32	40	32	63	143	5	38480	38655
985M-4063-A	40	32	63	143	6	38485	38660
985M-4012-32-A	40	32	125	205	6	38490	38665
985M-5075-A	50	50	75	177	6	38495	38670
985M-5075-32-A	50	32	75	155	6	38500	38675
985M-5010-A	50	50	106	208	6	38505	38680
985M-5010-32-A	50	32	106	186	6	38510	38685
985M-5010-B	50	50	106	208	8	38515	38690
985M-5010-32-B	50	32	106	186	8	38520	38695
985M-5015-A	50	50	150	252	6	38525	38700
985M-5015-B	50	50	150	252	8	38530	38705



PM - Super Cobalt

816M 系列

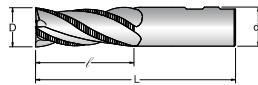
LIST 816M

细牙粗加工立铣刀
 优质工具钢
 30° 螺旋角
 中心切削

Fine Pitch Rougher
HSS PM
30° Helix
Center Cutting



刀具编号	D	d	ℓ	L	Z	无涂层 EDP 编号	TIALN 涂层 EDP 编号
816M-0613	6	6	13	57	3	38710	38760
816M-0819	8	10	19	59	3	38715	38765
816M-1022	10	10	22	72	4	38720	38770
816M-1226	12	12	26	83	4	38725	38775
816M-1426	14	12	26	83	4	38730	38780
816M-1632	16	16	32	92	4	38735	38785
816M-1832	18	16	32	92	4	38740	38790
816M-2038	20	20	38	104	4	38745	38795
816M-2545	25	25	45	121	5	38750	38800
816M-3253	32	32	53	133	6	38755	38805



 高速系列
硬质合金
SUPER SPEED SERIES
CARBIDE

高性能硬质合金立铣刀

High Performance Solid Carbide End Mills



2030M 系列

LIST 2030M

用于铝合金深槽高速加工
超细颗粒整体硬质合金立铣刀

**For Deep Pocket High Speed
Machining of Aluminum**

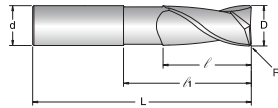
2槽-中心切削
37° 螺旋角

**Extra-fine micrograin
Solid Carbide End Mills**

**2 Flute - Center Cutting
37° Helix**



D	d	l	β_1	L	R	无涂层	TiN	TiCN	特级TiAlN 涂层
						EDP	EDP	EDP	EDP
6	6	10	57	100	0.50	28185	28240	28295	28350
8	8	12	57	100	0.50	28190	28245	28300	28355
10	10	14	57	100	0.50	28195	28250	28305	28360
12	12	16	83	150	0.76	28200	28255	28310	28365
12	12	16	102	150	0.76	28205	28260	28315	28370
16	16	20	57	125	1.00	28215	28270	28325	28380
16	16	20	83	150	1.00	28220	28275	28330	28385
20	20	25	57	125	1.00	28225	28280	28335	28390
20	20	25	83	150	1.00	28230	28285	28340	28395
25	25	30	83	150	1.00	28235	28290	28345	28400



2045M 系列

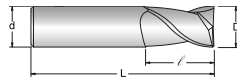
用于铝合金高速加工
超细颗粒整体硬质合金立铣刀
2槽-中心切削
45° 螺旋角

LIST 2045M

**For High Speed
Machining
of Aluminum**
**Extra-fine micrograin
Solid Carbide End Mills**
**2 Flute - Center Cutting
45° Helix**



D	d	ℓ	L	无涂层	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP
6	6	13	57	31000	31040	31080
8	8	16	63	31005	31045	31085
10	10	22	72	31010	31050	31090
12	12	26	83	31015	31055	31095
14	14	26	83	31020	31060	31100
16	16	32	92	31025	31065	31105
18	18	32	92	31030	31070	31110
20	20	38	104	31035	31075	31115



3030M 系列

LIST 3030M

用于铝合金深槽高速加工
超细颗粒整体硬质合金立铣刀

**For Deep Pocket High Speed
Machining of Aluminum**

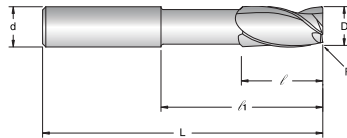
3槽-中心切削
37° 螺旋角

**Extra-fine micrograin
Solid Carbide End Mills**

**3 Flute - Center Cutting
37° Helix**



D	d	ℓ	ℓ ₁	L	R	无涂层	TiN	TiCN	特级TiAlN 涂层
						EDP	EDP	EDP	EDP
6	6	10	57	100	0.50	28405	28460	28515	28570
8	8	12	57	100	0.50	28410	28465	28520	28575
10	10	14	57	100	0.50	28415	28470	28525	28580
12	12	16	83	150	0.76	28420	28475	28530	28585
12	12	16	102	150	0.76	28425	28480	28535	28590
16	16	20	57	125	1.00	28430	28485	28540	28595
16	16	20	83	150	1.00	28435	28490	28545	28600
20	20	25	57	125	1.00	28440	28495	28550	28605
20	20	25	83	150	1.00	28445	28500	28555	28610
25	25	30	83	150	1.00	28450	28505	28560	28615



SUB-MICRON
CARBIDE

37°

CORNER
RADIUS

STRAIGHT
SHANK

MINICUT
STANDARD

3045M 系列

用于铝合金高速加工
超细颗粒整体硬质合金立铣刀

3槽-中心切削
45° 螺旋角

LIST 3045M

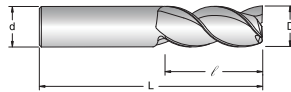
For High Speed Machining of Aluminum

Extra-fine micrograin Solid Carbide End Mills

3 Flute - Center Cutting
45° Helix



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
6	6	13	57	32000	32040	32080	32120
8	8	16	63	32005	32045	32085	32125
10	10	22	72	32010	32050	32090	32130
12	12	26	83	32015	32055	32095	32135
14	14	26	83	32020	32060	32100	32140
16	16	32	92	32025	32065	32105	32145
18	18	32	92	32030	32070	32110	32150
20	20	38	104	32035	32075	32115	32155



3060M 系列

大螺旋角整体硬质合金立铣刀

用于 钛合金、镍基合金、高强度
不锈钢的粗、精加工

3槽-中心切削
超细颗粒
60° 螺旋角

LIST 3060M

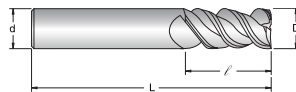
High Helix Solid Carbide End Mills

**For Roughing and Finishing Titanium,
Inconel, Stainless and High Tensile Alloys**

**3 Flute – Center Cutting
Extra-fine micrograin
60° Helix**



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	33515	33600	33685	33770
3.5	4	12	50	33520	33605	33690	33775
4.0	4	14	50	33525	33610	33695	33780
4.5	6	16	50	33530	33615	33700	33785
5.0	6	16	50	33535	33620	33705	33790
6.0	6	19	50	33540	33625	33710	33795
7.0	8	19	63	33545	33630	33715	33800
8.0	8	20	63	33550	33635	33720	33805
9.0	10	22	75	33555	33640	33725	33810
10.0	10	22	75	33560	33645	33730	33815
11.0	12	25	75	33565	33650	33735	33820
12.0	12	25	75	33570	33655	33740	33825
14.0	14	32	89	33575	33660	33745	33830
16.0	16	32	89	33580	33665	33750	33840
18.0	18	38	100	33585	33670	33755	33845
20.0	20	38	100	33590	33675	33760	33850
25.0	25	38	100	33595	33680	33765	33855



4035M 系列

整体硬质合金，细牙
粗加工立铣刀

用于槽、型加工
不锈钢、钛合金、
镍基合金、高强度钢

超细颗粒
35° 螺旋角



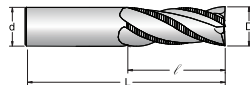
LIST 4035M

**Solid Carbide, Fine Pitch
Roughing End Mills**

**For Slotting and Profiling,
Stainless Steels, Titanium,
Inconel & High Strength Steels**

**Extra-fine micrograin
4 Flute – 35° Helix**

D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	32	33860	34945	35030	35115
3.5	4	12	50	33865	34950	35035	35120
4.0	4	14	50	33870	34955	35040	35125
4.5	6	16	50	33875	34960	35045	35130
5.0	6	16	50	33880	34965	35050	35135
6.0	6	19	50	33885	34970	35055	35140
7.0	8	19	63	33890	34975	35060	35145
8.0	8	20	63	33895	34980	35065	35150
9.0	10	22	75	34900	34985	35070	35155
10.0	10	22	75	34905	34990	35075	35160
11.0	12	25	75	34910	34995	35080	35165
12.0	12	25	75	34915	35000	35085	35170
14.0	14	32	89	34920	35005	35090	35175
16.0	16	32	89	34925	35010	35095	35180
18.0	18	38	100	34930	35015	35100	35185
20.0	20	38	100	34935	35020	35105	35190
25.0	25	38	100	34940	35025	35110	35195



4650M 系列

LIST 4650M

高性能精加工立铣刀

**High Performance
Superfinishing End Mills**

用于高强度材料
的仿形铣

**For Profile Milling
of High Tensile Materials**

超细颗粒整体粒硬质合金

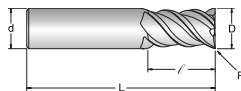
Extra-fine micrograin Solid Carbide

6和8槽中心切削
50° 螺旋角

6 & 8 Flute Center Cutting 50° Helix



D	d	ℓ	L	Z	R	无涂层	TiCN	特级TiAlN 涂层
						EDP	EDP	EDP
4	4	14	50	6	0.38	33000	33105	33210
6	6	19	50	6	0.50	33005	33110	33215
6	6	25	65	6	0.50	33010	33115	33220
8	8	20	63	6	0.50	33015	33120	33225
8	8	32	80	6	0.50	33020	33125	33230
10	10	22	75	6	0.50	33035	33140	33245
10	10	32	80	6	0.50	33040	33145	33250
12	12	25	75	6	0.76	33045	33150	33255
12	12	50	100	6	0.76	33050	33155	33260
14	14	32	89	6	0.76	33055	33160	33265
14	14	50	100	6	0.76	33060	33165	33270
16	16	32	89	6	1.00	33065	33170	33275
16	16	50	100	6	1.00	33070	33175	33280
18	18	38	100	6	1.00	33075	33180	33285
18	18	50	100	6	1.00	33080	33185	33290
20	20	38	100	6	1.00	33085	33190	33295
20	20	50	100	6	1.00	33090	33195	33300
25	25	38	100	8	1.00	33095	33200	33305
25	25	75	150	8	1.00	33100	33205	33310



SUB-MICRON
CARBIDE

50°

CORNER
RADIUS

STRAIGHT
SHANK

MINICUT
STANDARD

5045M 系列

高性能精加工立铣刀

用于钛合金、镍基合金
及高强度合金铣削加工

超细颗粒、整体硬质合金

5槽-中心切削
45° 螺旋角

LIST 5045M

High Performance Finishing End Mills

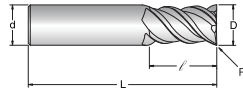
For Milling of Titanium, Inconel,
Stainless and High Tensile Alloys

Extra-fine micrograin Solid Carbide

5 Flute - Center Cutting 45° Helix



D	d	ℓ	L	R	无涂层	TiN	TiCN	特级TiAlN 涂层
					EDP	EDP	EDP	EDP
10	10	22	75	0.50	33315	33365	33415	33465
10	10	32	80	0.50	33320	33370	33420	33470
12	12	25	75	0.76	33325	33375	33425	33475
12	12	50	100	0.76	33330	33380	33430	33480
16	16	32	89	1.00	33335	33385	33435	33485
16	16	50	100	1.00	33340	33390	33440	33490
20	20	38	100	1.00	33345	33395	33445	33495
20	20	50	100	1.00	33350	33400	33450	33500
25	25	38	100	1.00	33355	33405	33455	33505
25	25	75	150	1.00	33360	33410	33460	33510



ISO 螺纹铣刀 硬质合金

Thread Mills ISO Solid Carbide



刀具编号	Ø -螺距	D	l	L	d
CTMM-32050	M5-0.5	3.2	6	60	6
CTMM-32080	M5-0.8	3.2	6	60	6
CTMM-42050	M6-0.5	4.2	12	60	6
CTMM-42175	M6-0.75	4.2	12	60	6
CTMM-42100	M6-1.00	4.2	12	60	6
CTMM-60075	M8-0.75	6.0	16	60	8
CTMM-60100	M8-1.00	6.0	16	60	8
CTMM-60125	M8-1.25	6.0	16	60	8
CTMM-75100	M10-1.00	7.5	20	75	8
CTMM-75125	M10-1.25	7.5	20	75	8
CTMM-75150	M10-1.50	7.5	20	75	8
CTMM-95100	M12-1.00	9.5	20	89	10
CTMM-95125	M12-1.25	9.5	20	89	10
CTMM-95150	M12-1.50	9.5	20	89	10
CTMM-95175	M12-1.75	9.5	20	89	10
CTMM-11200	M14-2.00	11.0	20	100	12
CTMM-12150	M16-1.50	12.0	25	100	20
CTMM-1220	M16-2.00	12.0	25	100	20
CTMM-14100	M18-1.00	14.0	25	150	20
CTMM-14250	M18-2.50	14.0	25	150	20
CTMM-15150	M20-2.50	15.8	25	150	20
CTMM-15250	M20-2.50	15.8	25	150	20

 SUB-MICRON
 CARBIDE

 STRAIGHT
 SHANK

 MINICUT
 STANDARD

普通用途
硬质合金
**GENERAL PURPOSE
CARBIDE**



2000M 系列

LIST 2000M

细颗粒整体硬质合金立铣刀

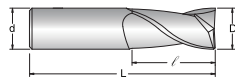
Micrograin Solid Carbide End Mills

2槽-中心切削
30° 螺旋角

**2 Flute Center Cutting
30° Helix**



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	35200	35285	35370	35455
3.5	4	12	50	35205	35290	35375	35460
4.0	4	14	50	35210	35295	35380	35465
4.5	6	16	50	35215	35300	35385	35470
5.0	6	16	50	35220	35305	35390	35475
6.0	6	19	50	35225	35310	35395	35480
7.0	8	19	63	35230	35315	35400	35485
8.0	8	20	63	35235	35320	35405	35490
9.0	10	22	75	35240	35325	35410	35495
10.0	10	22	75	35245	35330	35415	35500
11.0	12	25	75	35250	35335	35420	35505
12.0	12	25	75	35255	35340	35425	35510
14.0	14	32	89	35260	35345	35430	35515
16.0	16	32	89	35265	35350	35435	35520
18.0	18	38	100	35270	35355	35440	35525
20.0	20	38	100	35275	35360	35445	35530
25.0	25	38	100	35280	35365	35450	35535



2050M 系列

细颗粒整体硬质合金
球头立铣刀

2槽-中心切削
30° 螺旋角

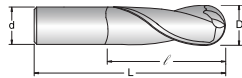
LIST 2050M

Ball Nose Micrograin
Solid Carbide End Mills

2 Flute Center Cutting
30° Helix



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	35540	35625	35710	35795
3.5	4	12	50	35545	35630	35715	35800
4.0	4	14	50	35550	35635	35720	35805
4.5	6	16	50	35555	35640	35725	35810
5.0	6	16	50	35560	35645	35730	35815
6.0	6	19	50	35565	35650	35735	35820
7.0	8	19	63	35570	35655	35740	35825
8.0	8	20	63	35575	35660	35745	35830
9.0	10	22	75	35580	35665	35750	35835
10.0	10	22	75	35585	35670	35755	35840
11.0	12	25	75	35590	35675	35760	35845
12.0	12	25	75	35595	35680	35765	35850
14.0	14	32	89	35600	35685	35770	35855
16.0	16	32	89	35605	35690	35775	35860
18.0	18	38	100	35610	35695	35780	35865
20.0	20	38	100	35615	35700	35785	35870
25.0	25	38	100	35620	35705	35790	35875



3000M 系列

LIST 3000M

细颗粒整体硬质合金立铣刀

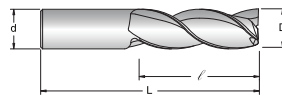
Micrograin Solid Carbide End Mills

3槽-中心切削
30° 螺旋角

**3 Flute Center Cutting
30° Helix**



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	35880	35965	36050	36135
3.5	4	12	50	35885	35970	36055	36140
4.0	4	14	50	35890	35975	36060	36145
4.5	6	16	50	35895	35980	36065	36150
5.0	6	16	50	35900	35985	36070	36155
6.0	6	19	50	35905	35990	36075	36160
7.0	8	19	63	35910	35995	36080	36165
8.0	8	20	63	35915	36000	36085	36170
9.0	10	22	75	35920	36005	36090	36175
10.0	10	22	75	35925	36010	36095	36180
11.0	12	25	75	35930	36015	36100	36185
12.0	12	25	75	35935	36020	36105	36190
14.0	14	32	89	35940	36025	36110	36195
16.0	16	32	89	35945	36030	36115	36200
18.0	18	38	100	35950	36035	36120	36205
20.0	20	38	100	35955	36040	36125	36210
25.0	25	38	100	35960	36045	36130	36215



3050M 系列

细颗粒整体硬质合金
球头立铣刀

3槽-中心切削
30° 螺旋角

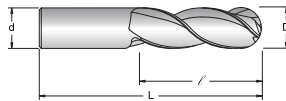
LIST 3050M

**Ball Nose Micrograin
Solid Carbide End Mills**

**3 Flute Center Cutting
30° Helix**



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	36220	36305	36390	36475
3.5	4	12	50	36225	36310	36395	36480
4.0	4	14	50	36230	36315	36400	36485
4.5	6	16	50	36235	36320	36405	36490
5.0	6	16	50	36240	36325	36410	36495
6.0	6	19	50	36245	36330	36415	36500
7.0	8	19	63	36250	36335	36420	36505
8.0	8	20	63	35255	36340	36425	36510
9.0	10	22	75	36260	36345	36430	36515
10.0	10	22	75	36265	36350	36435	36520
11.0	12	25	75	36270	36355	36440	36525
12.0	12	25	75	36275	36360	36445	36530
14.0	14	32	89	36280	36365	36450	36535
16.0	16	32	89	36285	36370	36455	35640
18.0	18	38	100	36290	36375	36460	36545
20.0	20	38	100	36295	36380	36465	36550
25.0	25	38	100	36300	36385	36470	36555



4000M 系列

LIST 4000M

细颗粒整体硬质合金立铣刀

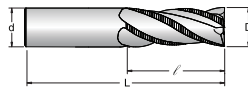
Micrograin Solid Carbide End Mills

4槽-中心切削
30° 螺旋角

**4 Flute Center Cutting
30° Helix**



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	36560	36645	36730	36815
3.5	4	12	50	36565	36650	36735	36820
4.0	4	14	50	36570	36655	36740	36825
4.5	6	16	50	36575	36660	36745	36830
5.0	6	16	50	36580	36665	36750	36835
6.0	6	19	50	36585	36670	36755	36840
7.0	8	19	63	36590	36675	36750	36845
8.0	8	20	63	36595	36680	36765	36850
9.0	10	22	75	36600	36685	36770	36855
10.0	10	22	75	36605	36690	36775	36860
11.0	12	25	75	36610	36695	36780	36865
12.0	12	25	75	36615	36700	36785	36870
14.0	14	32	89	36620	36705	36790	36875
16.0	16	32	89	36625	36710	36795	36880
18.0	18	38	100	36630	36715	36800	36885
20.0	20	38	100	36635	36720	36805	36890
25.0	25	38	100	36640	36725	36810	36845



4050M 系列

细颗粒整体硬质合金
球头立铣刀

4槽-中心切削
30° 螺旋角

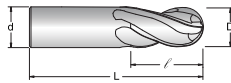
LIST 4050M

Ball Nose Micrograin
Solid Carbide End Mills

4 Flute Center Cutting
30° Helix



D	d	ℓ	L	无涂层	TiN	TiCN	特级TiAlN 涂层
				EDP	EDP	EDP	EDP
3.0	3	12	38	36900	36985	37070	37155
3.5	4	12	50	36905	36990	37075	37160
4.0	4	14	50	36910	36995	37080	37165
4.5	6	16	50	36915	37000	37085	37170
5.0	6	16	50	36920	37005	37090	37175
6.0	6	19	50	36925	37010	37095	37180
7.0	8	19	63	36930	37015	37100	37185
8.0	8	20	63	36935	37020	37105	37190
9.0	10	22	75	36940	37025	37110	37195
10.0	10	22	75	36945	37030	37115	37200
11.0	12	25	75	36950	37035	37120	37205
12.0	12	25	75	36955	37040	37125	37210
14.0	14	32	89	36960	37045	37130	37215
16.0	16	32	89	36965	37050	37135	37220
18.0	18	38	100	36970	37055	37140	37225
20.0	20	38	100	36975	37060	37145	37230
25.0	25	38	100	36980	37065	37150	37235



金属去除领域的 新扩展

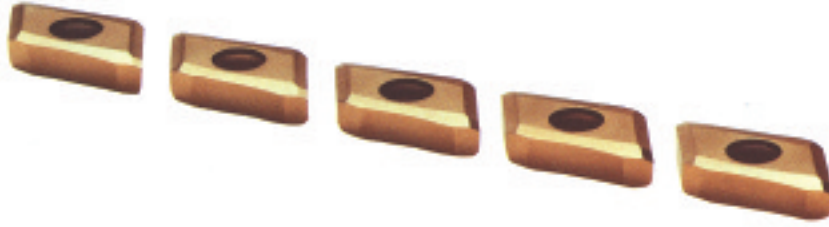
真正的螺旋式正向
刃前角可转位铣刀

- 专利保护的正弦曲线
硬质合金刀片设计
- 正值刃前角
- 切线方向刀片布置
- 螺旋面凹形切削刃
以产生最小可能的切削力
- 中心冷却孔

THE NEW DIMENSION IN METAL REMOVAL THE TRUE HELICAL POSITIVE INDEXABLE CUTTER

- *Patented Sinusoidal
Carbide Insert Design*
- *Positive Variable Rake Angle*
- *Tangential Insert Position*
- *Helicoidal Concave Cutting Edges
for lowest possible cutting forces*
- *Central Coolant Holes*



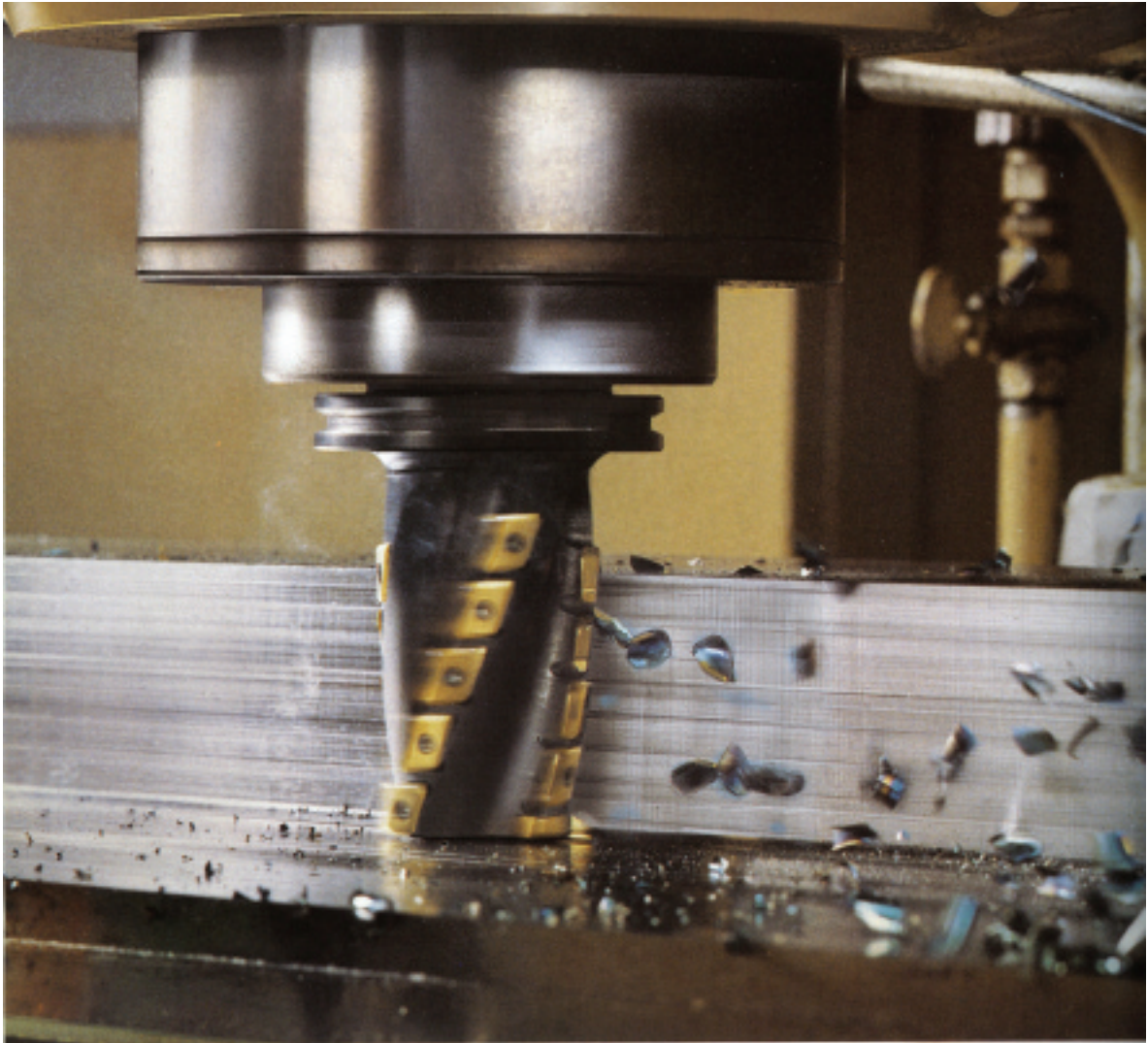


新一代

麦格铣刀(Megamill)是一种新的技术革新,被应用于可转位铣刀。该技术由米尼国际切削公司(Minicut International)开发并申请专利,能够有效降低普通镶片式铣刀的固有缺陷。米尼国际切削公司(Minicut International)设计开发的特殊刀片及螺旋排屑槽几何形状完美地解决了这些不足。这种独一无二的刀片几何参数形成了一个螺旋波浪切削面,从而产生一种勺形切削动作。当正值螺旋刀片刃前角不断进行切向切削时,这种动作有利于切屑的成型及排出。这种拥有特殊几何形状切削面的曲面型刀片配合径向凹凸不平的排屑槽设计,加上通向每个排屑槽端部的中心定向冷却孔,使麦格铣刀(Megamill)能够充分降低机床的马力需求,从而使麦格铣刀(Megamill)能够产生平稳的切削运动,同时在大进给量及高切削速度下,消除周期性震动,延长转轴寿命。

THE Next Generation

Megamill is a new innovation in cutting tool technology as applied to Indexable milling cutters. Developed and patented by Minicut International, this innovation reduces the deficiencies inherent with regular Indexable milling cutters. Minicut International has tackled these deficiencies by specifically developing a special geometrical shape in the insert and the helical arrangement along the flute of the cutter. This unique insert geometry is comprised of a spiral cutting face which undulates sinusoidally, thus creating a spoon effect cutting action. This action facilitates the chip formation and ejection from the work area while the positive helical rake configuration of the insert succeeds in creating a high shear cutting effect. The sinusoidal shaped insert with its unique swarf cutting face geometry incorporates both concave and convex radii with uneven spaced flute design, coupled with central directional coolant holes emerging at the end of every flute, allows the Megamill to substantially reduce machine horsepower requirements. Consequently, the Megamill will generate a smoother cutting action while eliminating cyclical vibrations allowing greater feeds and speeds with longer spindle life.

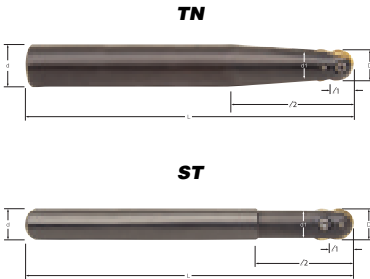




专利产品

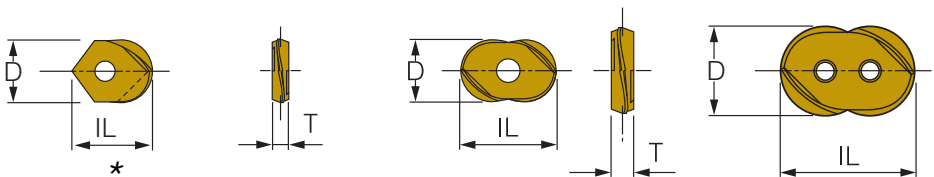
麦格铣刀(Megamill)
可转位球头双端
整体硬质合金刀片

Patented MEGAMILL

Megamill Indexable Ball Nose
Double Side Carbide Inserts



刀具编号	D	ℓ ₁	ℓ ₂	L	d	d ₁	刀片螺丝		螺丝扳手
									
BNMM-06125-12TN	6	5.71	58	125	12	5.23	SCS-6L	-	LT-7
BNMM-08125-12TN	8	6.35	58	125	12	5.59	SCS-8L	-	
BNMM-10150-12TN	10	6.00	35.0	150	12	8.50	SCS-10L	-	FT-10
BNMM-12130-12SN	12	8.50	32.0	130	12	10.50	SCS-12L	-	
BNMM-12150-12SN		8.50	46.0	150	12	10.50	SCS-12L	-	
BNMM-12160-16TN		8.50	58.5	160	16	10.50	SCS-12L	-	
BNMM-16140-16SN	16	10.00	36.0	140	16	14.50	SCS-16L	SCS-16S	FT-20
BNMM-16160-16SN		10.00	53.0	160	16	14.50	SCS-16L	SCS-16S	
BNMM-16175-20TN		10.00	65.0	175	20	14.50	SCS-16L	SCS-16S	
BNMM-20160-20SN	20	13.00	45.0	160	20	18.25	SCS-20L	SCS-20S	
BNMM-20175-20SN		13.00	61.0	175	20	18.25	SCS-20L	SCS-20S	
BNMM-20190-25TN		13.00	76.0	190	25	18.25	SCS-20L	SCS-20S	
BNMM-25160-25SN	25	16.30	45.0	160	25	22.90	SCS-25L	SCS-25S	FT-20
BNMM-25190-25SN		16.30	70.0	190	25	22.90	SCS-25L	SCS-25S	
BNMM-25210-32TN		16.30	98.0	210	32	22.90	SCS-25L	SCS-25S	
BNMM-30175-32SN	30	20.00	56.0	175	32	27.20	SCS-32L	SCS-32S	
BNMM-30210-32SN		20.00	80.0	210	32	27.20	SCS-32L	SCS-32S	
BNMM-30240-40TN		20.00	121.0	240	40	27.20	SCS-32L	SCS-32S	
BNMM-32175-32SN	32	21.00	56.0	175	32	29.00	SCS-32L	SCS-32S	
BNMM-32210-32SN		21.00	80.0	210	32	29.00	SCS-32L	SCS-32S	
BNMM-32240-40TN		21.00	121.0	240	40	29.00	SCS-32L	SCS-32S	



ORDERING EXAMPLE

BNSM-010 TI K20

刀片尺寸 涂层 级别
INSERT DESIGNATION COATING GRADE

Ti = TiN
TC = TiCN
TA = TiAlN
SU = TiAlN
SUPREME

麦格铣刀刀片

双端球头刀片

MEGAMILL INSERTS

Double Cut Ball Nose Inserts

麦格铣刀(Megamill)球头刀片

MEGAMILL BALL NOSE INSERTS

刀片号	D	IL	T	涂层			级别		
				TiN	TiCN	TiAlN	K-10	K-20	P30
BNSM-060*	6	10.92	2.184	Ti	TC	TA	K-10	K-20	P30
BNSM-080*	8	12.12	2.184	Ti	TC	TA	K-10	K-20	P30
BNSM-010	10	13.20	3	Ti	TC	TA	K-10	K-20	P30
BNSM-012	12	18.25	3	Ti	TC	TA	K-10	K-20	P30
BNSM-016	16	24.00	4	Ti	TC	TA	K-10	K-20	P30
BNSM-020	20	30.00	5	Ti	TC	TA	K-10	K-20	P30
BNSM-025	25	37.00	6	Ti	TC	TA	K-10	K-20	P30
BNSM-030	30	45.50	7	Ti	TC	TA	K-10	K-20	P30
BNSM-032	32	47.50	7	Ti	TC	TA	K-10	K-20	P30

专利产品

麦格铣刀

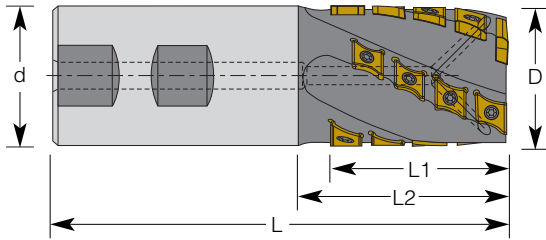
唯一一种螺旋正向刃前角可转位铣刀

Patented

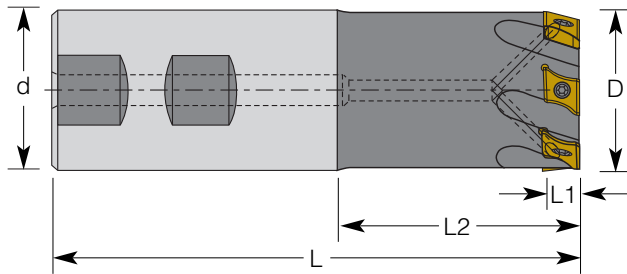
MEGAMILL

The Only Helical Positive Indexable Cutter

WELDON SHANK
DIN 1835 B



刀具编号	尺寸 (MM)					槽数	刀片号			
	D	d	L1	L2	L		侧刀片 	数量	端刀片 	数量
MM-25293-W 25	25	25	29	32	95	3	CMSI-387	8	—	—
MM-25443-W 25	25	25	44	50	115	3	CMSI-387	12	—	—
MM-32474-W 32	32	32	47	60	120	4	CMSI-450	12	—	—
MM-32624-W 32	32	32	62	79	140	4	CMSI-450	16	—	—
MM-40474-W 32	40	32	47	54	120	4	CMSI-450	12	—	—
MM-40624-W 32	40	32	62	73	140	4	CMSI-450	16	—	—
MM-50514-W 32	50	32	50	60	124	4	CMSI-465	12	—	—
MM-50814-W 50	50	50	81	107	190	4	CMSI-465	20	CMEI-687W	2
MM-501014-W 50	50	50	101	127	210	4	CMSI-465	26		2
MM-63724-W 50	63	50	72	82	178	4	CMSI-620	14	CMEI-687C	2
MM-631014-W 50	63	50	101	111	206	4	CMSI-620	20		2



刀具编号	尺寸 (MM)					槽数	刀片号 
	D	d	L1	L2	L		
MME-209002-W 20	20	20	9	34	95	2	CMSI-387
MME-259003-W 25	25	25	9	38	95	3	CMSI-387
MMEE-259003-W 25	25	25	9	89	150	3	CMSI-387
MME-329004-W 25	32	25	11	34	100	4	CMSI-450
MME-329003-W 32	32	32	11	38	108	3	CMSI-450
MME-409005-W 25	40	25	11	34	102	5	CMSI-450
MME-409004-W 32	40	32	11	38	114	4	CMSI-450
MMEE-329004-W 32	32	32	11	102	165	4	CMSI-450
MMEE-409005-W 40	40	40	11	127	197	5	CMSI-450
MME-509004-W 25	50	25	12	57	114	5	CMSI-465
MME-509004-W 32	50	32	12	57	114	5	CMSI-465
MME-639004-W 32	63	32	16	57	114	5	CMSI-620
MME-639004-W 50	63	50	16	57	152	5	CMSI-620

麦格铣刀

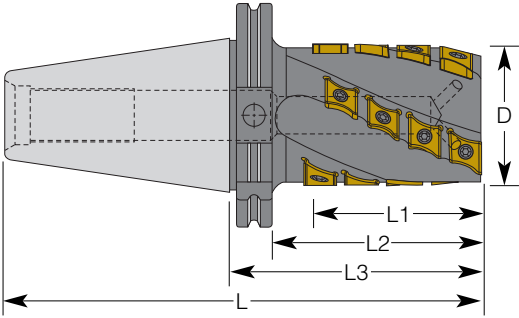
唯一一种螺旋正向刃前角可转位铣刀

Patented

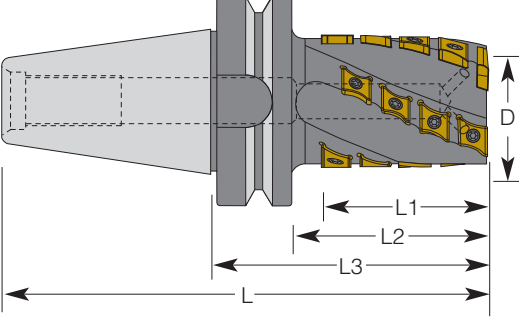
MEGAMILL

The Only Helical Positive Indexable Cutter

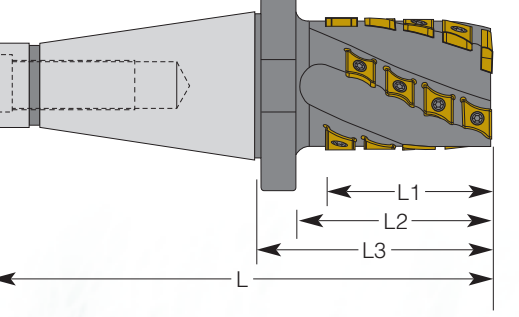
CAT 40/50V - DIN-69871A





BT 40/50 - MAS 403BT



NMTB 40/50 - DIN-2080



刀具编号	尺寸(MM)					槽数	刀片号			
	D	L1	L2	L3	L		侧刀片 	数量	端刀片 	数量
MM-32474 CAT40V	32	47	67	86	154	4	CMSI-450	12	—	—
MM-32474 BT40	32	47	67	94	159	4	CMSI-450	12	—	—
MM-32474 ISO40	32	47	67	86	171	4	CMSI-450	12	—	—
MM-32624 CAT40V	32	62	82	101	169	4	CMSI-450	16	—	—
MM-32624 BT40	32	62	82	109	174	4	CMSI-450	16	—	—
MM-32624 ISO40	32	62	82	101	194	4	CMSI-450	16	—	—
MM-40474 CAT40V	40	47	67	86	154	4	CMSI-450	12	—	—
MM-40474 BT40	40	47	67	94	159	4	CMSI-450	12	—	—
MM-40474 ISO40	40	47	67	86	171	4	CMSI-450	12	—	—
MM-40624 CAT40V	40	62	82	101	169	4	CMSI-450	16	—	—
MM-40624 BT40	40	62	82	109	174	4	CMSI-450	16	—	—
MM-40624 ISO40	40	62	82	101	194	4	CMSI-450	16	—	—
MM-40624 CAT50V	40	62	82	101	202	4	CMSI-450	16	—	—
MM-40624 BT50	40	62	82	120	221	4	CMSI-450	16	—	—
MM-40624 ISO50	40	62	82	101	227	4	CMSI-450	16	—	—
MM-50814 CAT50V	50	81	100	119	221	4	CMSI-465	20	CMEI-687W CMEI-687C	2
MM-50814 BT50	50	81	100	138	240	4	CMSI-465	20		2
MM-50814 ISO50	50	81	100	119	246	4	CMSI-465	20		2
MM-501024 CAT50V	50	102	121	140	242	4	CMSI-465	26		2
MM-501024 BT50	50	102	121	159	261	4	CMSI-465	26		2
MM-501024 ISO50	50	102	121	140	267	4	CMSI-465	26		2
MM-63824 CAT50V	63	82	121	120	222	4	CMSI-620	16		2
MM-63824 BT50	63	82	121	139	241	4	CMSI-620	16		2
MM-63824 ISO50	63	82	121	120	247	4	CMSI-620	16		2
MM-631014 CAT50V	63	101	120	139	241	4	CMSI-620	20		2
MM-631014 BT50	63	101	120	158	260	4	CMSI-620	20	2	
MM-631014 ISO50	63	101	120	139	266	4	CMSI-620	20	2	

专利产品

麦格铣刀

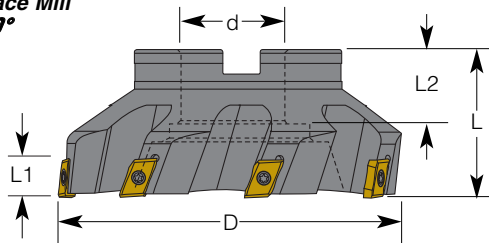
唯一一种螺旋正向刃前角可转位铣刀

Patented

MEGAMILL

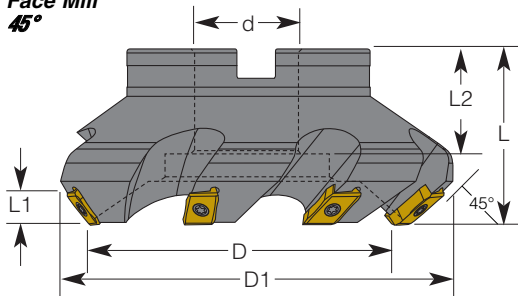
The Only Helical Positive Indexable Cutter

平面端铣刀
Face Mill
90°

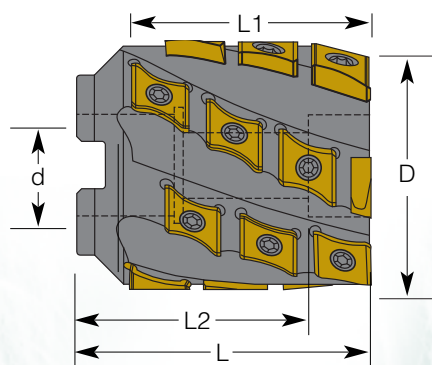




刀具编号	尺寸(MM)					槽数	刀片号 
	D	d	L1	L2	L		
MMF-50900422	50	22	11.5	22	50	5	CMTSI-465
MMF-63900522	63	22	15.5	22	50	5	CMTSI-620
MMF-80900627	80	27	15.5	22	50	6	CMTSI-620
MMF-100900732	100	32	15.5	32	63	7	CMTSI-620
MMF-125900840	125	40	15.5	38	63	8	CMTSI-620
MMF-160900940	160	40	15.5	38	63	9	CMTSI-620
MMF-200901360	200	60	15.5	35	63	13	CMTSI-620
MMF-250901760	250	60	15.5	35	63	17	CMTSI-620

平面端铣刀
Face Mill
45°



刀具编号	尺寸(MM)						槽数	刀片号 
	D	d	L1	L2	L	D1		
MMF-63450522	63	22	7.5	22	50	80	5	CMTSI-465
MMF-80450627	80	27	7.5	22	50	100	6	CMTSI-465
MMF-100450732	100	32	10.0	32	63	125	7	CMTSI-620
MMF-125450840	125	40	10.0	38	63	150	8	CMTSI-620
MMF-160450940	160	40	10.0	38	63	185	10	CMTSI-620
MMF-200451360	200	60	10.0	35	63	224	12	CMTSI-620
MMF-250451760	250	60	10.0	35	63	274	16	CMTSI-620



刀具编号	尺寸(MM)					槽数	刀片号				
	D	d	L1	L2	L		Z	侧刀片 		端刀片 	
								数量	数量	数量	数量
MMS-63534	63	27	53	55	73	4	CMTSI-620	10	CMEI-687W	2	
MMS-80726	80	32	72	60	92	6	CMTSI-620	18	CMEI-687C	3	
MMS-100826	100	40	82	66	102	6	CMTSI-620	24	CMEI-687C	3	

Minicut - 优质加钴工具钢立铣刀

推荐进给量及速度

MINICUT - SUPER COBALT END MILL

Recommended Feeds & Speeds

材料 速度 系列编号		钛合金	钛合金	镍基合金	钢	铝合金	高速加工						
		Titanium 6AL4V	Titanium 5553	Inconel Stainless Steels Inox	Steels 105 - 140 kg	ALUMINIUM	HSM 铝合金 ALUMINIUM						
		15-24 M/mi.	9-17 M/min.	9-17 M/min.	18-24 M/min.	300-600 M/min.	600-1200 M/min.						
		995M CY996M CY997M CY998M	CY996M CY997M CY998M	985M 816M	985M 816M	930M / 930MP X930MP / SF930M XSF930M / SC999M 940MP	RPM						
Ø MM	n / v _f												
10	n v _f	570 58	570 75	510 51	510 66	477 48	477 62	640 64	640 83	12730 1940	12730 2520	22000 2500	22000 3250
12	n v _f	478 56	478 73	424 50	424 65	398 46	398 60	480 70	480 92	10600 2420	10600 3150	21200 3230	21200 4200
16	n v _f	318 71	318 92	284 64	284 83	298 59	298 76	384 77	384 100	7950 2425	7950 3150	19900 4547	19900 5900
20	n v _f	286 81	286 105	255 72	255 94	238 67	238 87	320 96	320 125	6360 2430	6360 3160	15900 4240	15900 5510
25	n v _f	230 103	230 134	205 92	205 120	191 86	191 112	240 108	240 140	5100 2720	5100 3540	12730 3880	12730 5645
32	n v _f	180 120	180 156	160 108	160 140	150 100	150 130	192 115	192 150	3970 2720	3970 3540	9950 3790	9950 4925
40	n v _f	144 95	144 124	128 85	128 110	120 80	120 104	160 115	160 150	3180 2665	3180 3465	7950 3600	7950 4680
50	n v _f	115 76	115 100	102 68	102 90	98 63	98 82	120 90	120 117	2540 2320	2540 3015	6400 3155	6400 4100

推荐用6槽铣刀进行仿形铣
对于有TiAlN2涂层的铣刀，可增加30%切削速度

- 6 FLUTES ARE RECOMMENDED FOR PROFILING
INCREASE FEEDS BY 30% ON TiAlN2 COATED TOOLS

进给量：对于长刀具，相应降低推荐值。

FEEDS: REDUCTION FACTORS FOR LONG LENGTH TOOLS

3 X Ø	-	75%
4 X Ø	-	45%
5 X Ø	-	35%
6 X Ø	-	25%

高速硬质合金系列

推荐进给量及速度

SUPER SPEED CARBIDE SERIES

Recommended Feeds & Speeds

材料 速度 系列编号 Ø MM	铸铁 Cast iron		钢 Steels			不锈钢 Stainless Steels		镍基合金 Inconel	钛合金 Titanium	铝合金 Aluminium
	灰口铸铁 Grey	球墨铸铁 Ductile	240 HB	240-300 HB	300-400 HB	300 SERIES 304, 316	400 SERIES 15-5 PH 17-4 PH		6AL 4 V	6061 T6 7075 T6
	45-120 M/min	30-120 M/min	30-90 M/min	24-75 M/min	15-75 M/min	45-75 M/min	20-45 M/min	20-30 M/min	40-80 M/min	300-1500 M/min
	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	4650M 3060M 5045M	2030M 3030M 2045M 3045M
每齿切削载荷 CHIP LOAD PER TOOTH										
3-5	0,01 - 0,02	0,01 - 0,02	0,01 - 0,02	0,01 - 0,17	0,01 - 0,17	0,005 - 0,007	0,005 - 0,007	0,01 - 0,17	0,01 - 0,17	0,02 - 0,05
6-8	0,03 - 0,05	0,03 - 0,05	0,02 - 0,05	0,02 - 0,03	0,02 - 0,03	0,01 - 0,17	0,01 - 0,17	0,01 - 0,02	0,01 - 0,17	0,02 - 0,07
9-10	0,05 - 0,07	0,05 - 0,07	0,02 - 0,07	0,02 - 0,03	0,02 - 0,03	0,01 - 0,02	0,02 - 0,03	0,02 - 0,03	0,02 - 0,03	0,07 - 0,12
12-14	0,07 - 0,11	0,06 - 0,10	0,07 - 0,10	0,02 - 0,05	0,02 - 0,05	0,02 - 0,03	0,02 - 0,05	0,02 - 0,05	0,02 - 0,05	0,12 - 0,18
16-18	0,10 - 0,15	0,07 - 0,10	0,10 - 0,12	0,03 - 0,06	0,03 - 0,06	0,02 - 0,05	0,05 - 0,07	0,02 - 0,07	0,05 - 0,07	0,12 - 0,20
19-20	0,12 - 0,17	0,10 - 0,15	0,10 - 0,17	0,05 - 0,07	0,05 - 0,07	0,07 - 0,10	0,07 - 0,10	0,02 - 0,10	0,05 - 0,10	0,15 - 0,28
25	0,12 - 0,22	0,15 - 0,20	0,15 - 0,20	0,10 - 0,15	0,10 - 0,15	0,10 - 0,12	0,10 - 0,12	0,10 - 0,15	0,10 - 0,15	0,25 - 0,31

麦格铣刀(Megamill) –可转位铣刀

推荐进给量及速度

MEGAMILL - INDEXABLE CUTTERS

Recommended Feeds & Speeds

材料 速度 刀片级别		铸铁 Cast Iron		钢 Steels			不锈钢 Stainless Steels		镍基合金 Inconel	钛合金 Titanium	铝合金 Aluminium
		灰口铸铁 Grey	球墨铸铁 Nodular	up to: 240 BHN 80 kg / mm ²	240-300 BHN 80-105 kg / mm ²	300-400 BHN 105-140 kg / mm ²	300 Series 304,316	400 Series 15-5 PH 17-4 PH	6AL 4V	6061 T6 7075 T6	
		150-300 M/min	120-240 M/min	150-300 M/min	120-240 M/min	90-180 M/min	90-210 M/min	120-240 M/min			30-60 M/min
Ø MM	n / v _f	K-15 K-30	K-15 K-30	P-25 P-40	P-40 P-25	P-40 P-25	P-25 P-40	K-15 K-30	K-30	K-15 K-30	K-15
20	n v _f	2910 380 → 635	2425 280 → 518	2290 380 → 635	2425 280 → 510	2185 280 → 485	1940 255 → 295	2185 280 → 510	730 125 → 205	1115 150 → 355	9700 2540 → 4790
25	n v _f	2290 230 → 460	1910 180 → 380	2290 230 → 460	1910 180 → 380	1720 180 → 360	1525 150 → 305	1910 180 → 380	575 75 → 150	880 100 → 250	7640 1525 → 3050
32	n v _f	1830 250 → 500	1528 150 → 330	1830 250 → 500	1528 150 → 330	1375 130 → 305	1220 180 → 360	1528 150 → 330	460 75 → 150	705 100 → 250	6115 1525 → 3050
40	n v _f	1525 300 → 560	1275 250 → 500	1,525 300 → 560	1275 250 → 500	1145 200 → 410	1015 200 → 410	1275 250 → 500	385 75 → 180	858 100 → 275	5095 1525 → 3050
50	n v _f	1145 250 → 560	955 200 → 460	1145 250 → 560	955 200 → 460	860 150 → 360	765 180 → 360	955 200 → 460	290 100 → 200	440 130 → 300	3820 1525 → 3080
63	n v _f	915 280 → 460	764 255 → 500	915 280 → 460	764 255 → 500	690 200 → 380	610 180 → 360	764 250 → 500	230 75 → 180	35 150 → 300	3055 1525 → 5080
80	n v _f	765 355 → 600	635 280 → 530	765 355 → 600	635 280 → 530	575 200 → 400	508 180 → 380	635 280 → 530	190 75 → 200	295 150 → 355	—
100	n v _f	575 250 → 500	475 230 → 460	575 250 → 500	475 230 → 460	430 180 → 360	380 180 → 305	475 230 → 460	145 75 → 200	220 130 → 300	—

当机床速度低于推荐速度时，每齿载荷将增大。

If machine speeds are lower than speeds suggested the chip load per tooth should prevail.

注意：任何刀具都有可能折断及碎裂，法律规定必须佩戴安全眼镜。

WARNING: Any cutting tool may break or shatter. The wearing of safety glasses is required by law. Grinding of this product may produce potentially hazardous dust. Use adequate ventilation.

刃磨这些刀具时，有可能产生有害粉尘，需通风良好。

麦格球头铣刀(Megamill ball) 应用数据

MEGAMILL BALL APPLICATION DATA

材料 Vc INSERT GRADES: ROUGHING INSERT GRADES: FINISHING	铸铁 Cast iron		钢 Steels			不锈钢 Stainless Steels		镍基合金 Nickel	钛合金 Titanium	铝合金 Aluminium
	灰口铸铁 Grey	球墨铸铁 Nodular	低碳钢 Low Carbon up to: 240 BHN 80 Kg / mm ²	高碳钢 High Carbon Medium Tensile 240-300 BHN/80-105 Kg / mm ²	高合金工具钢 High Alloy Tool Steel 300-400 BHN ² 105-140 Kg / mm ²	300 SERIES 304, 316	400 Series 15-5 PH 17-4 PH	Inconel Waspalloy Hastalloy	6AL 4 V	6061 T6 7075 T6
	150-300 M/min	120-240 M/min	150-300 M/min	120-240 M/min	90-180 M/min	90-210 M/min	120-240 M/min	30-60 M/min	60-90 M/min	450-1515 M/min
	K-20	K-20	P-30	P-30	P-30	P-30	K-20	K-20	K-20	K-10
K-10/K-20		K-10/K-20			K-10/K-20		K-10/K-20	K-10/K-20	K-10	
Fz	.15 / .25	.15 / .25	15 / .25	.15 / .25	.15 / .25	.15 / .25	.10 / .22	.10 / .22	.13 / .25	.38 / .76

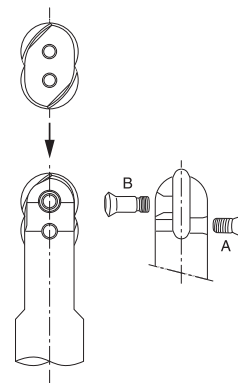
Insert Dia.	6	8	10	12	16	20	25	30	32
"DC" Depth of cut	"DE"								
0.25	2.41	2.79	3.10	3.50	4.00	4.45	5.00	5.45	5.65
0.38	2.92	3.40	3.80	4.20	4.90	5.45	6.10	6.70	6.95
0.5	3.35	3.91	4.35	4.80	5.55	6.25	7.00	7.70	7.95
1.25	4.90	5.84	6.60	7.30	8.60	9.70	10.90	12.00	12.40
2	5.59	6.80	8.00	8.90	10.60	12.00	13.60	15.00	15.50
2.5	5.92	7.44	8.65	9.75	11.60	13.20	15.00	16.60	17.20
3.2	6.0	7.82	9.30	10.60	12.80	14.70	16.70	18.50	19.20
4	—	8.00	9.80	11.30	13.85	16.00	18.30	20.40	21.15
5	—	—	10.00	11.80	14.80	17.30	20.00	22.35	23.25
6	—	—	—	12.00	15.50	18.30	21.35	24.00	25.00
7	—	—	—	—	15.90	19.10	22.45	25.40	26.45
8	—	—	—	—	16.00	19.60	23.30	26.55	27.70
10	—	—	—	—	—	20.00	24.50	28.30	29.65
12.5	—	—	—	—	—	—	25.00	29.60	31.22
15	—	—	—	—	—	—	—	30.00	31.60
16	—	—	—	—	—	—	—	—	32.00

高效切削直径

EFFECTIVE CUTTING DIAMETER

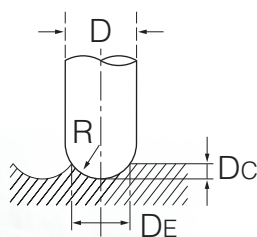
如何安装双孔刀片

1. 将刀片放入固定槽。
2. 上紧底部螺丝(A)。
3. 上紧上部螺丝(B)。



HOW TO MOUNT THE TWO-HOLE TYPE INSERT

- 1• Place the insert in the holder slot.
- 2• Tighten the bottom screw (A).
- 3• Tighten the top screw (B).



D = 刀具直径
DE = 有效切削直径
DC = 切削深度
DE = $D^2 - (D - 2DC)^2$

CUTTER DIA.
EFFECTIVE CUTTING DIA.
DEPTH OF CUT

RPM = $\frac{SFM \times 3.82}{DE \text{ (INCHES)}}$
RPM = $\frac{SMM \times 323.4}{DE \text{ (MM)}}$

麦格铣刀(Megamill) - 刀片

铸铁 - 钢
 高强度材料

CAST IRON - STEELS
HIGH TENSILE MATERIALS


	R	级别 : K-15 / K-30 / P-25 / P-40	
		半径	
		in.	半径
CMSI-387	*	.031	.75
CMSI-450	X	.062	1.5
CMSI-450	Y	.093	2.5
CMSI-450	Z	.125	3.0
CMSI-465	X	.062	1.5
CMSI-465	Y	.093	2.5
CMSI-465	Z	.125	3
CMSI-620	X	.062	1.5
CMSI-620	Y	.093	2.5
CMSI-620	Z	.125	3


	R	级别 : K-15 / K-30 / P-25 / P-40	
		半径	
		in.	半径
CMEI-687 W	X	.062	1.5
CMEI-687 W	Y	.093	2.5
CMEI-687 W	Z	.125	3

MEGAMILL - INSERTS

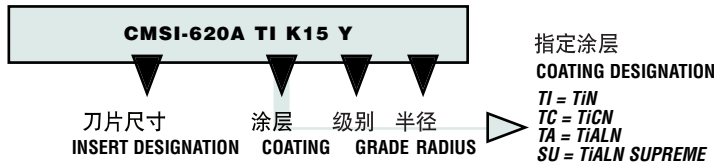
铝合金 - 钛合金

ALUMINIUM - TITANIUM

	R	级别 : K-15 / K-30	
		半径	
		in.	半径
CMSI-387 A	*	.031	.75
CMSI-450 A	X	.062	1.5
CMSI-450 A	Y	.093	2.5
CMSI-450 A	Z	.125	3.0
CMSI-465 A	X	.062	1.5
CMSI-465 A	Y	.093	2.5
CMSI-465 A	Z	.125	3
CMSI-620 A	X	.062	1.5
CMSI-620 A	Y	.093	2.5
CMSI-620 A	Z	.125	3

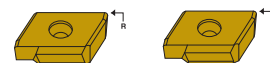
	R	级别 : K-15 / K-30	
		半径	
		in.	半径
CMEI-687 C	X	.062	1.5
CMEI-687 C	Y	.093	2.5
CMEI-687 C	Z	.125	3




ORDERING EXAMPLE



END INSERTS

CMEI-687C CMEI-687W



	NO.		NO.		NO.
	SCS-30		ST-10		FT-08
	SCS-35		ST-15		FT-10
	SCS-45				FT-15

注意:

- 当订购麦格铣刀(Megamill)端面刀片(CMEI-687)时, 请确保所订购的安装于刀具端部的侧刀片(CMSI-465及620)也具有完全一样的圆角半径。

- 包装: 刀片以每盒10片出售。

Notes:

- When ordering Megamill End Inserts (CMEI-687), please make sure the Side Inserts (CMSI-465 & 620) which are on the end of the cutter are also ordered with the same exact radius.

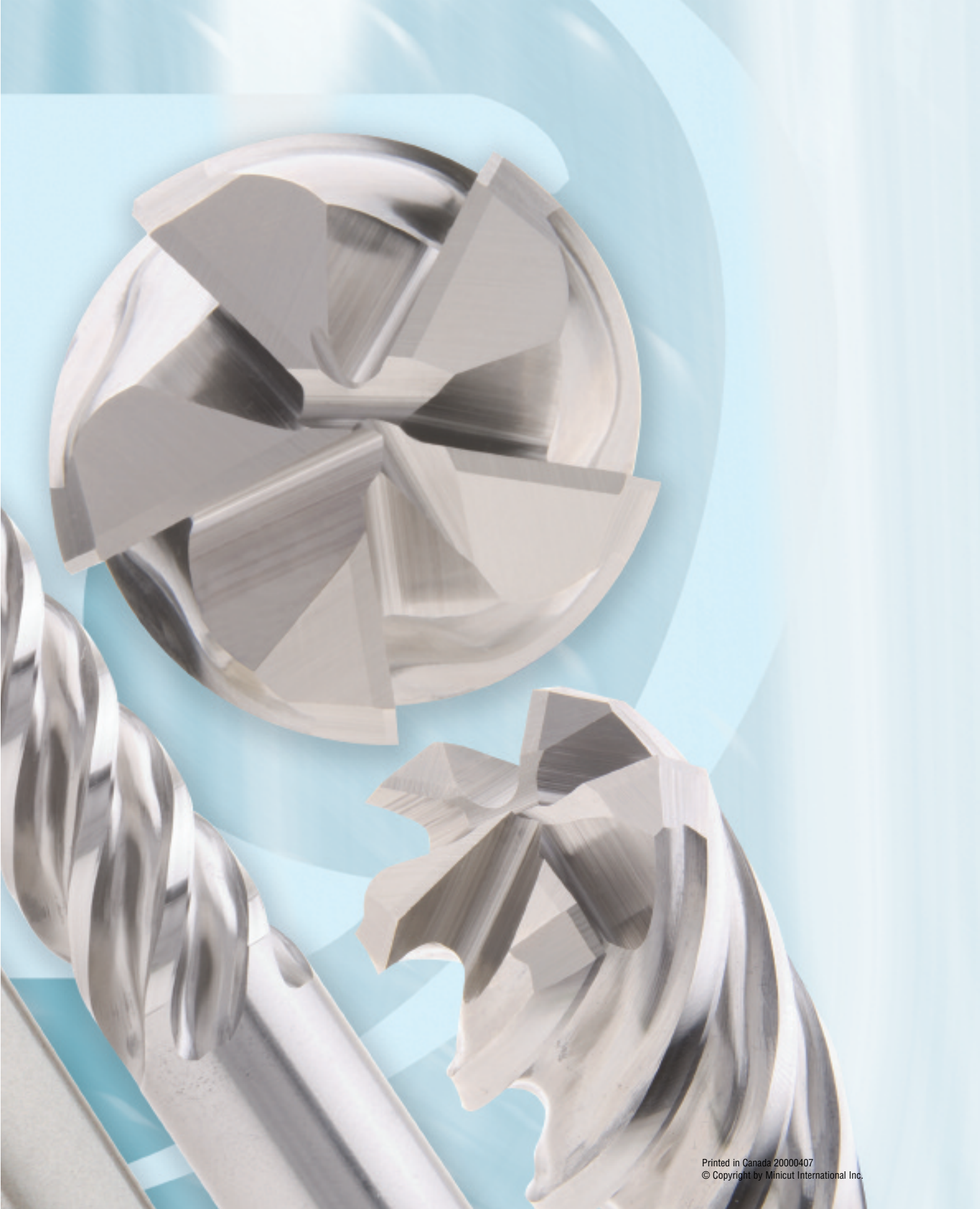
- Packaging: Inserts are sold in boxes of 10.

使用Minicut专利立铣刀加工钛合金工件

Titanium parts machined with patented Minicut end mills









米尼国际切削公司

引领金属切削工具技术



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Leader in Cutting Tool Technology

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