JOYJET
PRECISION

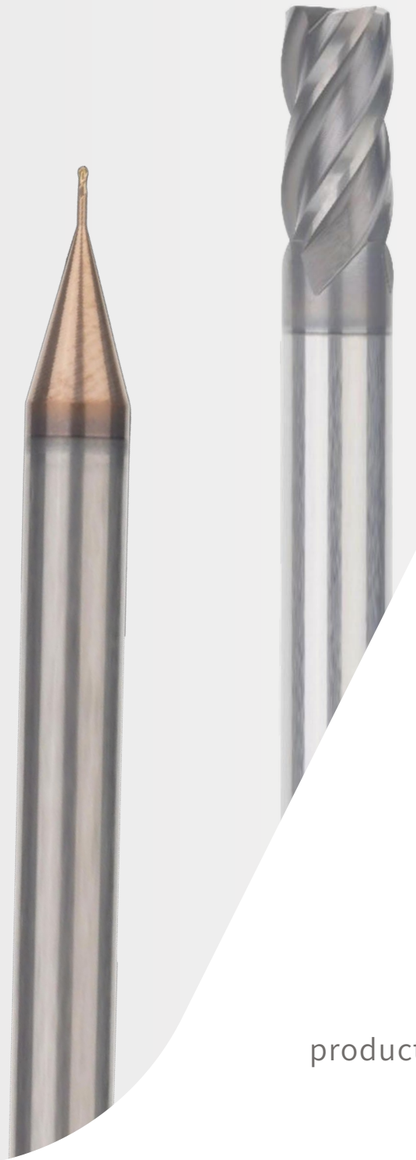
WhatsApp：+8615342215322

Email：info@elementw.cn

Add：No. 008-13F, C23 Software New Town
Huacheng Avenue,Wuhan, 430076, China

Phone：0086-15342215322

Website: www.kingelementw.com



专业生产钨钢刀具
承接各类非标定制

Specializingin the
production of Carbide tools and undertaking
various non-standard customization

KING SML GROUP

KING SML GROUP

KING SMl Group, based in Wuhan, China, has been deeply involved in industrial products for over a decade. Asone of the leading industrial products manufacturers in China, we were engaged in processes of integratingproduct design,R&D, production, sales and maintenance.KING SML Group specializes in supplying various and high-quality superhard materials, driling tools andaccessories, pDc cutters, customized refractory metal products including tungsten and molybdenum materialsetc. Our subsidiaries - Suburb Tools, Joylet, and Field Diamond - provide specialized solutions from drillingaccessories to CNC cutters and custom PDc Cutter services, We offer complete OEM/ODM services withprofessional one-stop solutions, Customer-driven in excellence and innovation, we are your trusted industrial manufacturing partner.

W

Warm

We build warmth within our teams, extend genuine care to clients,nurture partnerships, and contribute to society - together building awarm-hearted company at KING SML.

S

Selfless

We prioritize collective interests through humility and mutual benefitfostering lasting partnerships for shared success. We embrace socialresponsibility by contributing to society and spreading goodwill as aconscientious corporate citizen

I

Integrity

We embrace integrity at KING SML by standing firm in challengesbuilding trust, keeping promises, and pursuing growth with bothdetermination and responsibility.

E

Elegance

We pursue noble character and elegant excellence in all aspects ofour work. We at KING SML pursue craftsmanship excellence,creating premium products exported overseas for the admirableChinese brand industrial products.

通用产品系列刀具

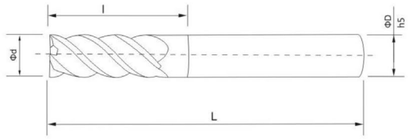
Universal series of tools

特点与优势

通用的刀具角度及工艺设计，采用细颗粒碳化钨为母材，对HRC48°以下各种被加工材料有着不错的稳定加工性能；

通用型钨钢铣刀

Universal Carbide milling cutter



刃径 d	刃长 l	柄径 D	全长 L
1	3	4	50
	4	4	75
1.5	4	4	50
	6	4	75
2	5	4	50
	8	4	75
2.5	7	4	50
	10	4	75
3	8	4	50
	12	4	75
	16	4	100
3.5	9	4	50
4	10	4	50
	16	4	75
	20	4	100
5	13	6	50
	20	6	75
	25	6	100
6	15	6	50
	30	6	75
	30	6	100
	40	6	150

刃径 d	刃长 l	柄径 D	全长 L
8	20	8	60
	35	8	75
	40	8	100
	50	8	150
10	25	10	75
	45	10	100
	55	10	150
12	30	12	75
	50	12	100
	60	12	150
14	35	16	100
	65	16	150
16	40	16	100
	75	16	150
	90	16	200
18	45	20	100
20	50	20	100
	80	20	150
	100	20	200

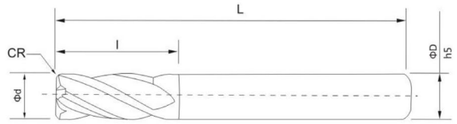
可切削材料适用表 Application sheet for machinable materials

非常适合 ○ 适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
◎	○				○		○				

通用型钨钢圆鼻刀

Universal carbide round nose cutter



刃径 d	R角 CR	刃长 l	柄径 D	全长 L
1	R0.2	2	4	50
1.5	R0.2	3	4	50
2	R0.2	4	4	50
2.5	R0.2 R0.5	5	4	50
3	R0.2 R0.5	6	4	50
4	R0.2 R0.5	8	4	50
		16	4	75
		16	4	100

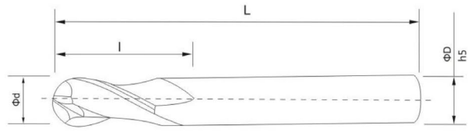
刃径 d	R角 CR	刃长 l	柄径 D	全长 L
5	R0.2 R0.5 R1.0	10	6	50
		20	6	75
		20	6	100
6	R0.2 R0.5 R1.0	12	6	50
		24	6	75
		24	6	100
8	R0.2 R0.5 R1.0	16	8	60
		30	8	75
		30	8	100
10	R0.2 R0.5 R1.0 R2.0	20	10	75
		35	10	100
		35	10	150
12	R0.2 R0.5 R1.0 R2.0	24	12	75
		40	12	100
		40	12	150

可切削材料适用表 Application sheet for machinable materials

非常适合 ○ 适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
◎	○				○		○				

通用型钨钢球刀
Universal carbide ball cutter



刃径 d	球半径 R	刃长 l	柄径 D	全长 L
1	0.5	2	4	50
		2	4	75
1.5	0.75	3	4	50
		3	4	75
2	1	4	4	50
		4	4	75
3	1.5	6	4	50
		6	4	75
		6	4	100
4	2	8	4	50
		8	4	75
		8	4	100
5	2.5	10	6	50
		10	6	75
		10	6	100
6	3	12	6	50
		12	6	75
		12	6	100
		12	6	150

刃径 d	球半径 R	刃长 l	柄径 D	全长 L
8	4	16	8	60
		16	8	75
		16	8	100
		16	8	150
		16	8	200
10	5	20	10	75
		20	10	100
		20	10	150
		20	10	200
12	6	24	12	75
		24	12	100
		24	12	150
		24	12	200
16	8	32	16	100
		32	16	150
		32	16	200
20	10	40	20	100
		40	20	150
		40	20	200

可切削材料适用表 Application sheet for machinable materials

○非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○				○		○				

中高硬度铣刀系列
Medium and high hardness milling cutter series

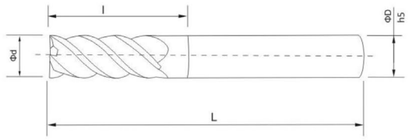
特点与优势

- 采用超细颗粒碳化钨为母材，对加工HRC58°以下各种淬火钢有着良好的耐磨性；
- 独特的工艺设计和制造加强了刀具在加工中的稳定性；

中高硬度钨钢铣刀

Medium and high hardness Carbide milling cutter

刃部公差 D≤Φ6 −0.015 | 刃部公差 Φ8-Φ20 −0.02 | 柄径公差 h5 | 4



刃径 d	刃长 l	柄径 D	全长 L
1	3	4	50
1.5	4	4	50
2	6	4	50
2.5	8	4	50
3	8	4	50
3.5	10	4	50
4	11	4	50
	15	4	75
	15	4	100
5	13	6	50
	20	6	75
	20	6	100
6	16	6	50
	20	6	75
	20	6	100
	30	6	150

刃径 d	刃长 l	柄径 D	全长 L
8	20	8	60
	25	8	75
	25	8	100
	40	8	150
10	25	10	75
	30	10	100
	40	10	150
12	30	12	75
	35	12	100
	50	12	150
14	40	14	100
16	45	16	100
	65	16	150
20	45	20	100

可切削材料适用表 Application sheet for machinable materials

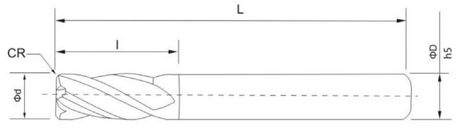
非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	◎	○		○		○				

中高硬度钨钢圆鼻刀

Medium and high hardness Carbide round nose cutter

刃部公差 D≤Φ6 −0.015 | 刃部公差 Φ8-Φ20 −0.02 | R ±0.01 | 柄径公差 h5 | 4



刃径 d	R角 CR	刃长 l	柄径 D	全长 L
1	R0.2	2	4	50
1.5	R0.2	3	4	50
2	R0.2	4	4	50
2.5	R0.2 R0.5	5	4	50
3	R0.2 R0.5	6	4	50
4	R0.2 R0.5	8	4	50
		15	4	75

刃径 d	R角 CR	刃长 l	柄径 D	全长 L
5	R0.2 R0.5 R1.0	10	6	50
6	R0.2 R0.5 R1.0	12	6	50
		20	6	75
8	R0.2 R0.5 R1.0	16	8	60
		25	8	100
10	R0.2 R0.5 R1.0 R2.0	20	10	75
		30	10	100
		30	10	150
12	R0.2 R0.5 R1.0 R2.0	24	12	75
		35	12	100
		35	12	150

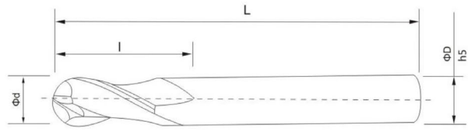
可切削材料适用表 Application sheet for machinable materials

非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	◎	○		○		○				

中高硬度钨钢球刀

Medium and high hardness Carbide ball cutter



刃径 d	球半径 R	刃长 l	柄径 D	全长 L
1	0.5	2	4	50
		2	4	75
1.5	0.75	3	4	50
		3	4	75
2	1	4	4	50
		4	4	75
3	1.5	6	4	50
		6	4	75
		6	4	100
4	2	8	4	50
		8	4	75
		8	4	100
5	2.5	10	6	50
		10	6	75
		10	6	100
6	3	12	6	50
		12	6	75
		12	6	100
		12	6	150

刃径 d	球半径 R	刃长 l	柄径 D	全长 L
8	4	16	8	60
		16	8	75
		16	8	100
		16	8	150
10	5	20	10	75
		20	10	100
		20	10	150
12	6	24	12	75
		24	12	100
		24	12	150
16	8	32	16	100
		32	16	150
		32	16	200
20	10	40	20	100
		40	20	150
		40	20	200

可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	◎	○		○		○				

高硬度铣刀系列

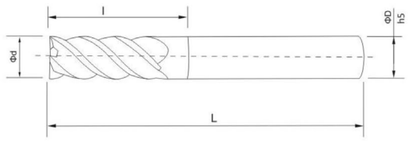
High hardness milling cutter series

特点与优势

- 采用极细颗粒碳化钨为母材，对加工HRC65°以下材料有极好的耐磨性；
- 高钢性的工艺设计对刀具在加工中提高寿命有很大帮助；
- 独特的涂层确保刀具的高硬度和高温性能及良好的抗氧化性，从而保证刀具加工的高效率，并提升刀具的使用寿命和加工的表面光洁度；

高硬度钨钢铣刀

High hardness Carbide milling cutter



刃径 d	刃长 l	柄径 D	全长 L
1	2	4	50
	3	4	75
1.5	3	4	50
	5	4	75
2	4	4	50
	6	4	75
2.5	5	4	50
	8	4	75
3	6	4	50
	9	4	75
	9	4	100
3.5	7	4	50
	11	4	75
	11	4	100
4	8	4	50
	12	4	75
	12	4	100
5	10	6	50
	15	6	75
	15	6	100

刃径 d	刃长 l	柄径 D	全长 L
6	12	6	50
	18	6	75
	18	6	100
8	16	8	60
	24	8	75
	24	8	100
	24	8	150
10	20	10	75
	30	10	100
	30	10	150
12	24	12	75
	36	12	100
	36	12	150
14	28	16	100
	42	16	150
16	32	16	100
	48	16	150
18	36	20	100
	54	20	150
20	40	20	100
	60	20	150

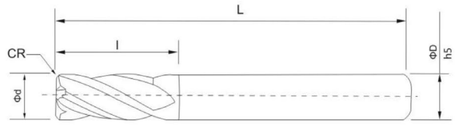
可切削材料适用表 Application sheet for machinable materials

非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	◉	◉	○	○	○				

高硬度钨钢圆鼻刀

High hardness Carbide round nose cutter



刃径 d	R角 CR	刃长 l	柄径 D	全长 L
1	R0.2	2	4	50
		3	4	75
1.5	R0.2	3	4	50
		4	4	75
2	R0.2	4	4	50
		5	4	75
2.5	R0.2 R0.5	5	4	50
		7	4	75
3	R0.2 R0.5	6	4	50
		8	4	75
		9	4	100
4	R0.2 R0.5	8	4	50
		10	4	75
		12	4	100

刃径 d	R角 CR	刃长 l	柄径 D	全长 L
5	R0.2 R0.5 R1.0	10	6	50
		13	6	75
		15	6	100
6	R0.2 R0.5 R1.0	12	6	50
		15	6	75
		18	6	100
8	R0.2 R0.5 R1.0	16	8	60
		20	8	75
		24	8	100
		24	8	150
10	R0.2 R0.5 R1.0 R2.0	20	10	75
		30	10	100
		30	10	150
12	R0.2 R0.5 R1.0 R2.0	24	12	75
		36	12	100
		36	12	150

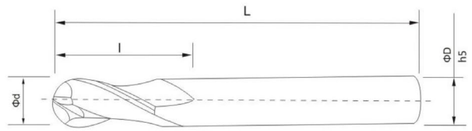
可切削材料适用表 Application sheet for machinable materials

非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	◉	◉	○	○	○				

高硬度钨钢球刀

High hardness Carbide ball cutter



刃径 d	球半径 R	刃长 l	柄径 D	全长 L
1	0.5	2	4	50
		2	4	75
1.5	0.75	3	4	50
		3	4	75
2	1	4	4	50
		4	4	75
3	1.5	6	4	50
		6	4	75
		6	4	100
4	2	8	4	50
		8	4	75
		8	4	100
5	2.5	10	6	50
		10	6	75
		10	6	100
6	3	12	6	50
		12	6	75
		12	6	100
		12	6	150

刃径 d	球半径 R	刃长 l	柄径 D	全长 L
8	4	16	8	60
		16	8	75
		16	8	100
		16	8	150
10	5	20	10	75
		20	10	100
		20	10	150
12	6	24	12	75
		24	12	100
		24	12	150
16	8	32	16	100
		32	16	150
20	10	40	20	100
		40	20	150

可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	◎	◎	○	○	○				

铝用刀系列

Aluminum milling cutter series

独特的角度设计

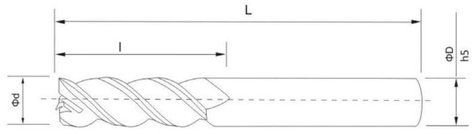
高效高强度抗耐磨性

完美的被加工工件光洁度

特点与优势

- 采用超微粒子超硬合金耐磨性极佳；
- 刃部的高光设计有利于表面加工；
- 双重刃线设计和加大排屑槽，使加工更顺畅；

铝用铣刀
Aluminum milling cutter



刃径 d	刃长 l	柄径 D	全长 L
1	3	4	50
1.5	4	4	50
	6	4	75
2	5	4	50
	8	4	75
	10	4	100
2.5	7	4	50
	12	4	75
	12	4	100
3	8	4	50
	12	4	75
	16	4	100
4	10	4	50
	16	4	75
	20	4	100
5	13	6	50
	20	6	75
	25	6	100
6	15	6	50
	24	6	75
	30	6	100

刃径 d	刃长 l	柄径 D	全长 L
8	20	8	60
	35	8	75
	40	8	100
	50	8	150
10	25	10	75
	45	10	100
	55	10	150
12	30	12	75
	50	12	100
	60	12	150
14	35	16	100
16	40	16	100
	75	16	150
	80	16	200
18	45	20	100
20	50	20	100
	80	20	150
	100	20	200

可切削材料适用表 Application sheet for machinable materials

非常适合 适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
							○	◎			

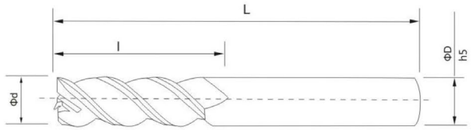
快进给铝用刀系列
Fast forward aluminum milling cutter series

独特的角度设计，
高效高强度抗耐磨性，
完美的加工工件光洁度。

特点与优势

- 采用超细颗粒碳化钨为母材有着良好的韧性；
- 不等的螺旋设计，对刀具加工中有着良好的抗震性；
- 良好排屑设计和高光的沟槽工艺对排屑有着良好的帮助；
- 独特的刃部处理提升加工表面的光洁度，并实现快进给提升生产效率；

快进给铝用刀
Fast forward aluminum milling cutter



刃径d	刃长l	柄径D	全长L
3.0	8.0	6.0	50.0
4.0	10.0	6.0	50.0
5.0	13.0	6.0	50.0
6.0	15.0	6.0	50.0
8.0	20.0	8.0	60.0
10.0	25.0	10.0	75.0
12.0	30.0	12.0	75.0

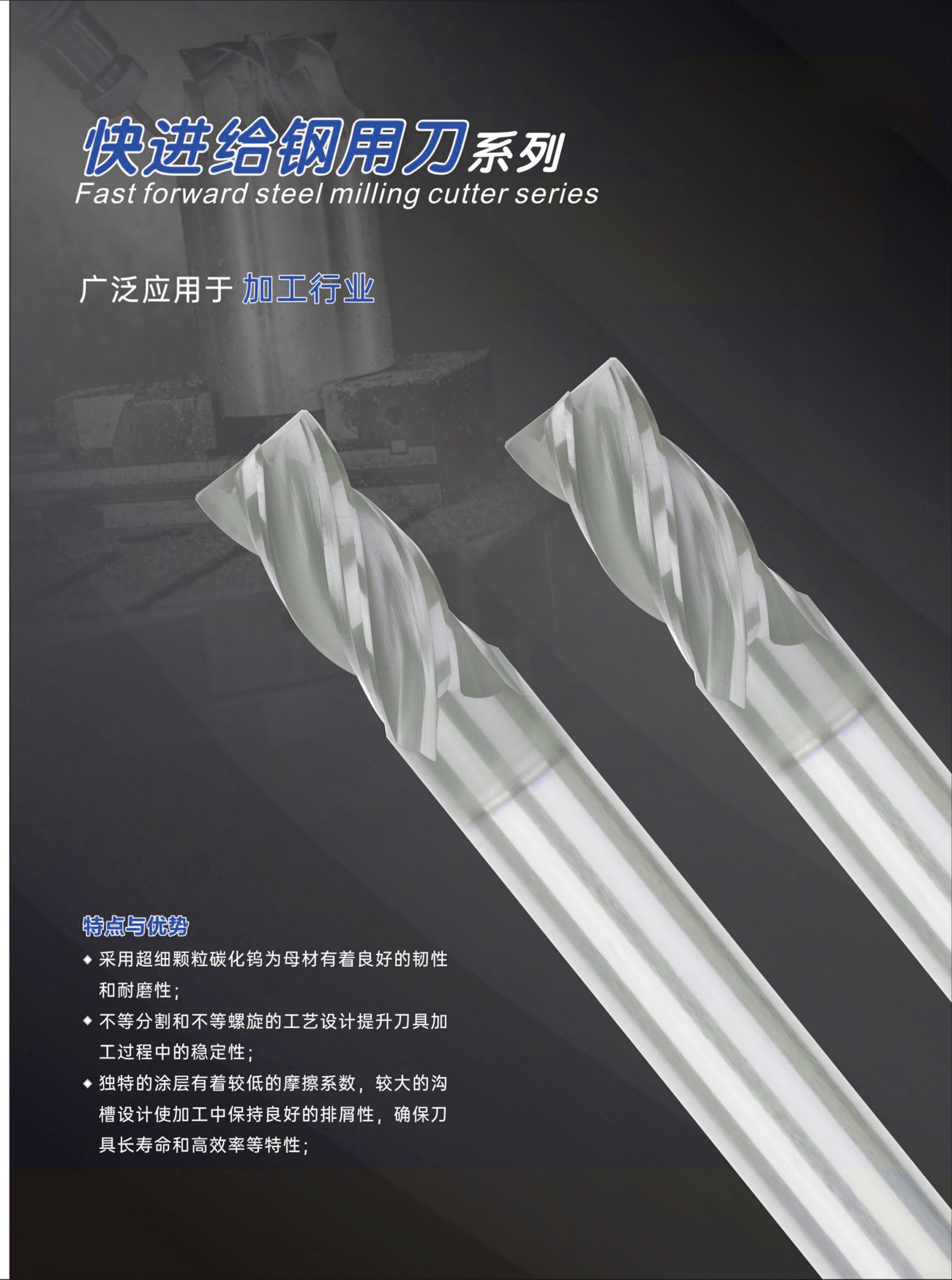
可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
							○	◎			

快进给钢用刀系列
Fast forward steel milling cutter series

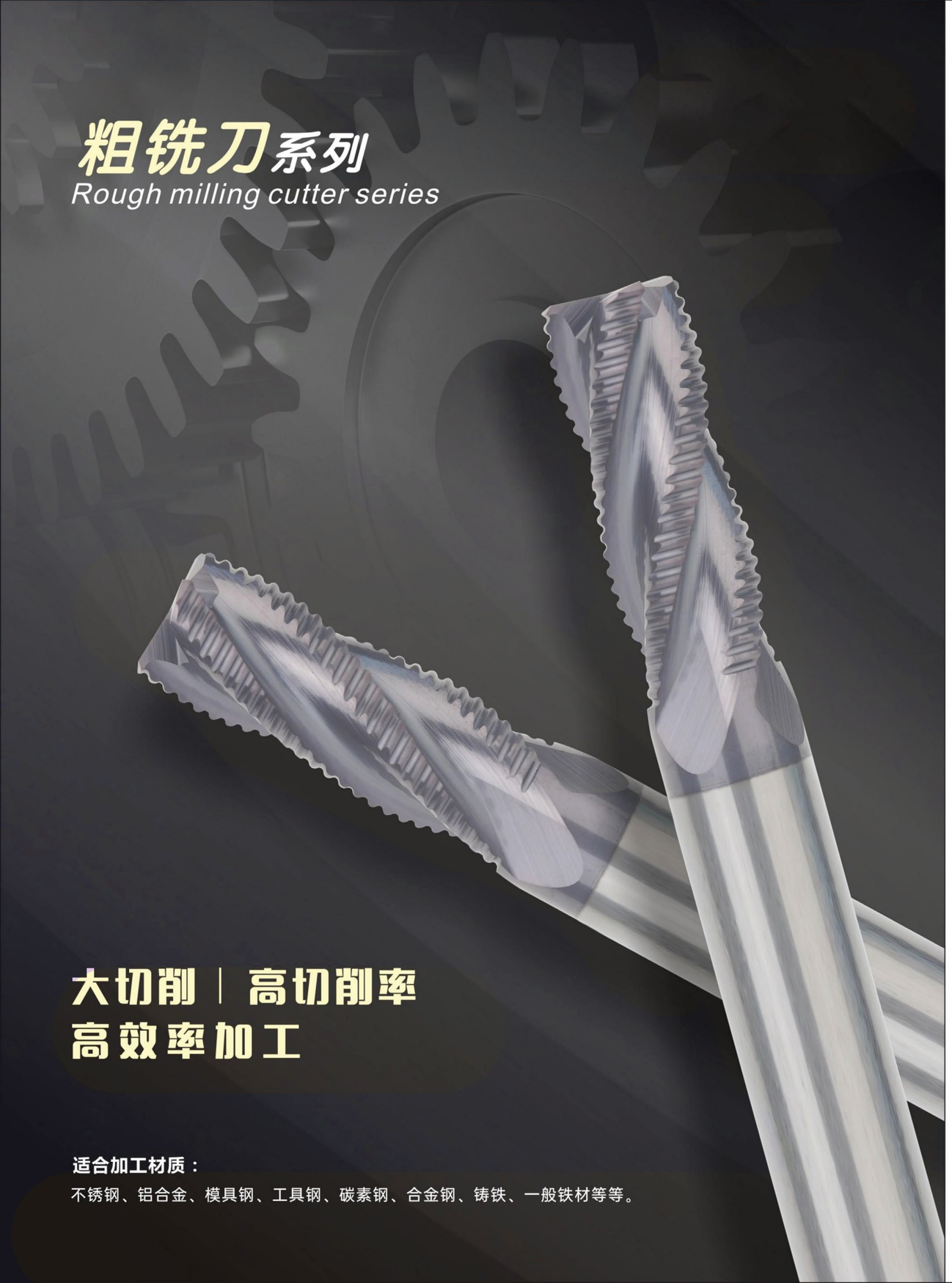
广泛应用于 加工行业



特点与优势

- 采用超细颗粒碳化钨为母材有着良好的韧性和耐磨性；
- 不等分割和不等螺旋的工艺设计提升刀具加工过程中的稳定性；
- 独特的涂层有着较低的摩擦系数，较大的沟槽设计使加工中保持良好的排屑性，确保刀具长寿命和高效率等特性；

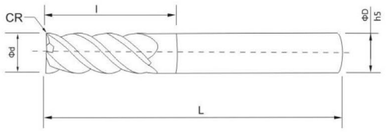
粗铣刀系列
Rough milling cutter series



大切削 | 高切削率
高效率加工

适合加工材质：
不锈钢、铝合金、模具钢、工具钢、碳素钢、合金钢、铸铁、一般铁材等等。

快进给钢用刀
Fast forward steel milling cutter

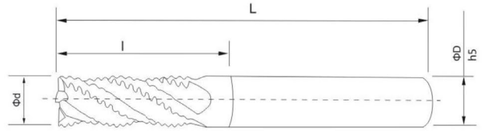


刃径 d	刃长 l	柄径 D	全长 L	C角 CR
4.0	8.0	6.0	50.0	C0.1
6.0	12.0	6.0	50.0	C0.1
8.0	16.0	8.0	60.0	C0.15
10.0	20.0	10.0	75.0	C0.2
12.0	24.0	12.0	75.0	C0.3
14.0	28.0	14.0	80.0	C0.4
16.0	32.0	16.0	100.0	C0.5
20.0	40.0	20.0	100.0	C0.5

可切削材料适用表 Application sheet for machinable materials　　○非常适合　○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○					○	○	○				

粗铣刀
Rough milling cutter



刃径 d	刃长 l	柄径 D	全长 L
6.0	15	6.0	50
8.0	20	8.0	60
10.0	25	10.0	75
12.0	30	12.0	75
16.0	40	16.0	100
20.0	50	20.0	100

可切削材料适用表 Application sheet for machinable materials　　○非常适合　○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
○	○				○	○	○	○	○	○	○

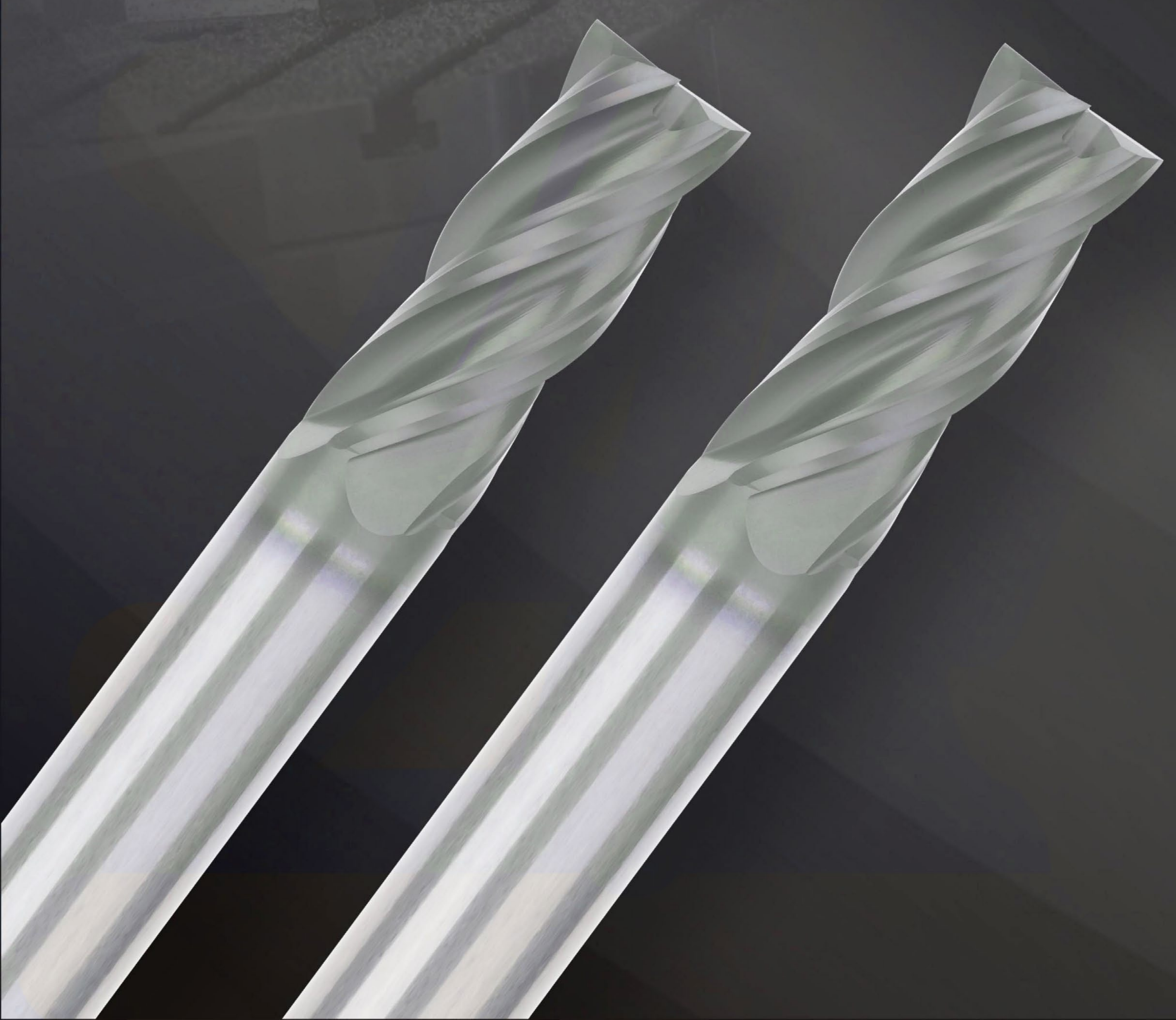
不锈钢铣刀系列
Stainless steel milling cutter series

零件加工利器 专攻不锈钢

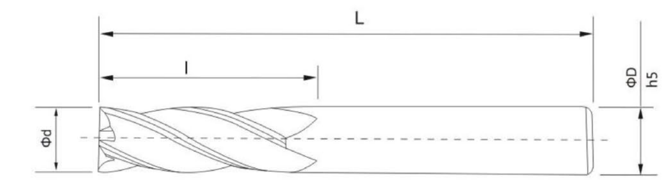
针对不锈钢特性采用特殊几何角度开发而成，拥有良好的抗折及切削率，优越的耐磨性和稳定性。

特点与优势

- 采用不等分割与不等螺旋设计，使得刀具抗震性极佳；
- 采用深沟螺旋设计，刀具排屑更顺畅；
- 采用超微粒子超硬合金，使得大进给加工时刃部损坏最小化；



不锈钢铣刀
Stainless steel milling cutter



刃径 d	刃长 l	柄径 D	全长 L
1.0	3.0	4.0	50.0
1.5	4.0	4.0	50.0
2.0	5.0	4.0	50.0
2.5	7.0	4.0	50.0
3.0	8.0	4.0	50.0
4.0	10.0	4.0	50.0
5.0	13.0	6.0	50.0
6.0	15.0	6.0	50.0
8.0	20.0	8.0	60.0
10.0	25.0	10.0	75.0
12.0	30.0	12.0	75.0
14.0	35.0	14.0	100.0
16.0	40.0	16.0	100.0
20.0	50.0	20.0	100.0

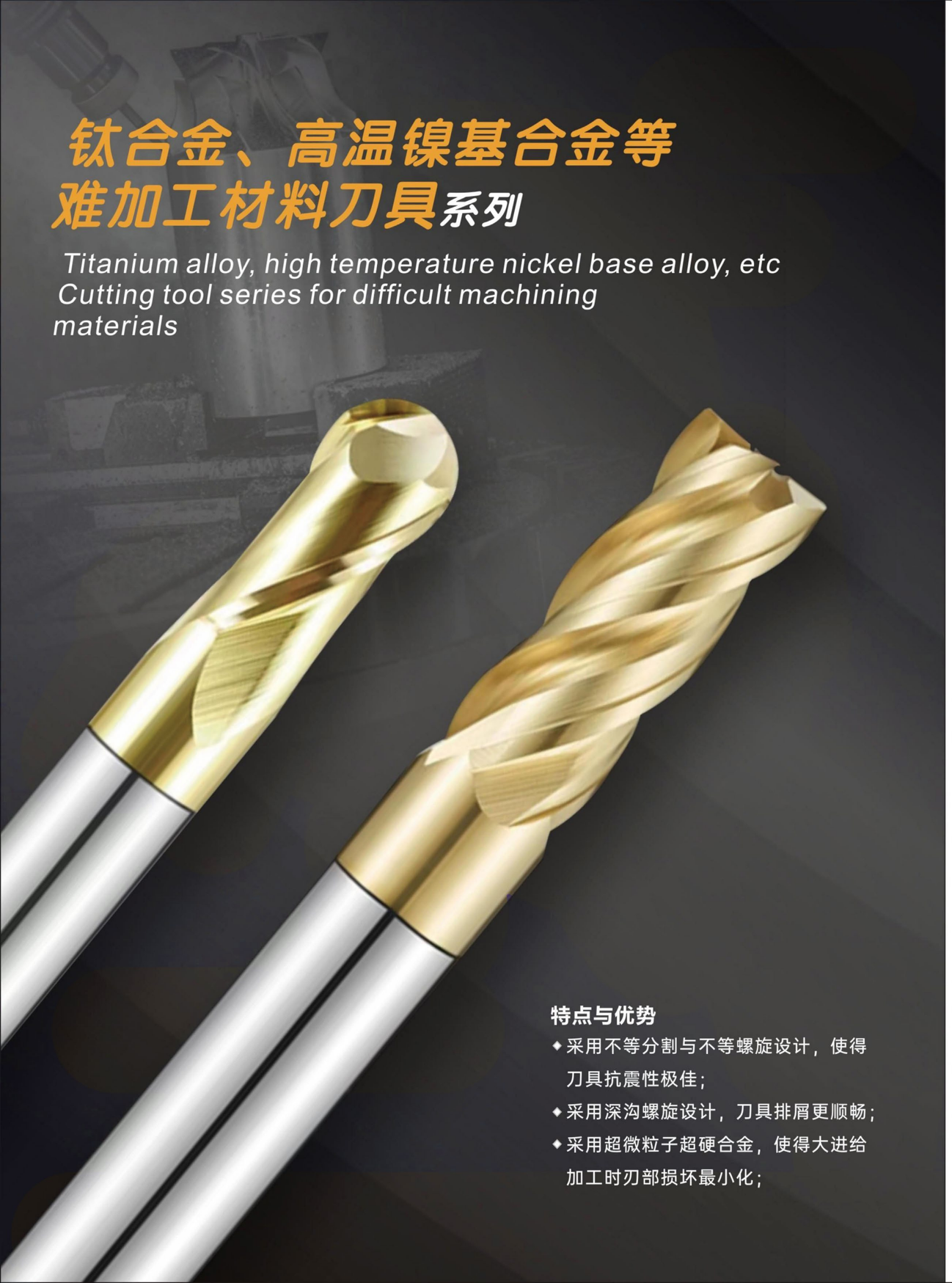
可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
					◎	○			○	○	

钛合金、高温镍基合金等难加工材料刀具系列

Titanium alloy, high temperature nickel base alloy, etc Cutting tool series for difficult machining materials



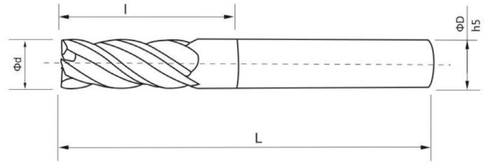
特点与优势

- 采用不等分割与不等螺旋设计，使得刀具抗震性极佳；
- 采用深沟螺旋设计，刀具排屑更顺畅；
- 采用超微粒子超硬合金，使得大进给加工时刃部损坏最小化；

钛合金、高温镍基合金铣刀

Titanium alloy, high temperature nickel base alloy milling cutter

刃部公差 D≤Φ6 −0.015 | 刃部公差 Φ8-Φ20 −0.02 | 柄径公差 h5 | 4



刃径 d	刃长 l	柄径 D	全长 L
1.0	3.0	4.0	50.0
1.5	4.0	4.0	50.0
2.0	5.0	4.0	50.0
2.5	7.0	4.0	50.0
3.0	8.0	4.0	50.0
4.0	10.0	4.0	50.0
5.0	13.0	6.0	50.0
6.0	15.0	6.0	50.0
8.0	20.0	8.0	60.0
10.0	25.0	10.0	75.0
12.0	30.0	12.0	75.0
14.0	35.0	14.0	100.0
16.0	40.0	16.0	100.0
20.0	50.0	20.0	100.0

可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
									◎	○	

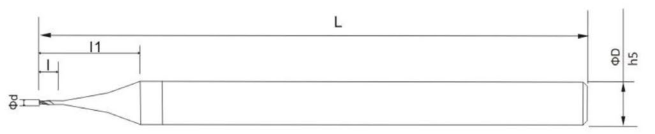
微小径刀具系列
Small diameter milling cutter series

专注 高精高硬 微小径铣刀

- 采用极细颗粒碳化钨为母材有着良好的韧性和耐磨性；
- 采用日本小径刀具制造工艺，使刀具有着良好的精度和耐磨性；
- 独特的涂层对刀具的表面处理有着良好的光洁度，适合于高速加工；

微小径铣刀
Small diameter milling cutter series

刃部公差 mill dia tolerance(mm) D −0.015 D≦Φ6
刃部公差 mill dia tolerance(mm) D −0.02 Φ8-Φ20
柄径公差 shank dia tolerance h5
2



刃径 d	刃长 l	有效长 l1	柄径 D	全长 L
0.1	0.2	1	4	50
		2		
0.15	0.3	1	4	50
		2		
0.2	0.4	1	4	50
		2		
0.3	0.6	1	4	50
		2		
		4		
0.4	0.8	2	4	50
		4		
0.5	1.0	2	4	50
		4		
		6		

刃径 d	刃长 l	有效长 l1	柄径 D	全长 L
0.6	1.2	2	4	50
		4		
		6		
0.7	1.4	2	4	50
		4		
		6		
0.8	1.6	4	4	50
		6		
		8		
0.9	1.8	4	4	50
		6		
		8		
		10		

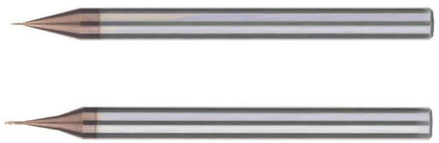
可切削材料适用表 Application sheet for machinable materials

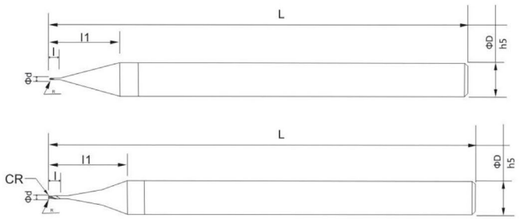
◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○		◎	○	○	○	

微小径球刀/圆鼻刀

Small diameter ball cutter/round nose cutter





微小径球刀

刃径 d	半径 R	刃长 l	有效长 l1	柄径 D	全长 L
0.2	0.1	0.4	1	4	50
			2		
0.3	0.15	0.6	1	4	50
			2		
0.4	0.2	0.8	2	4	50
			4		
			6		
0.6	0.3	1.2	4	4	50
			6		
			8		
0.7	0.35	1.4	4	4	50
			6		
			8		
0.8	0.4	1.6	4	4	50
			6		
			8		

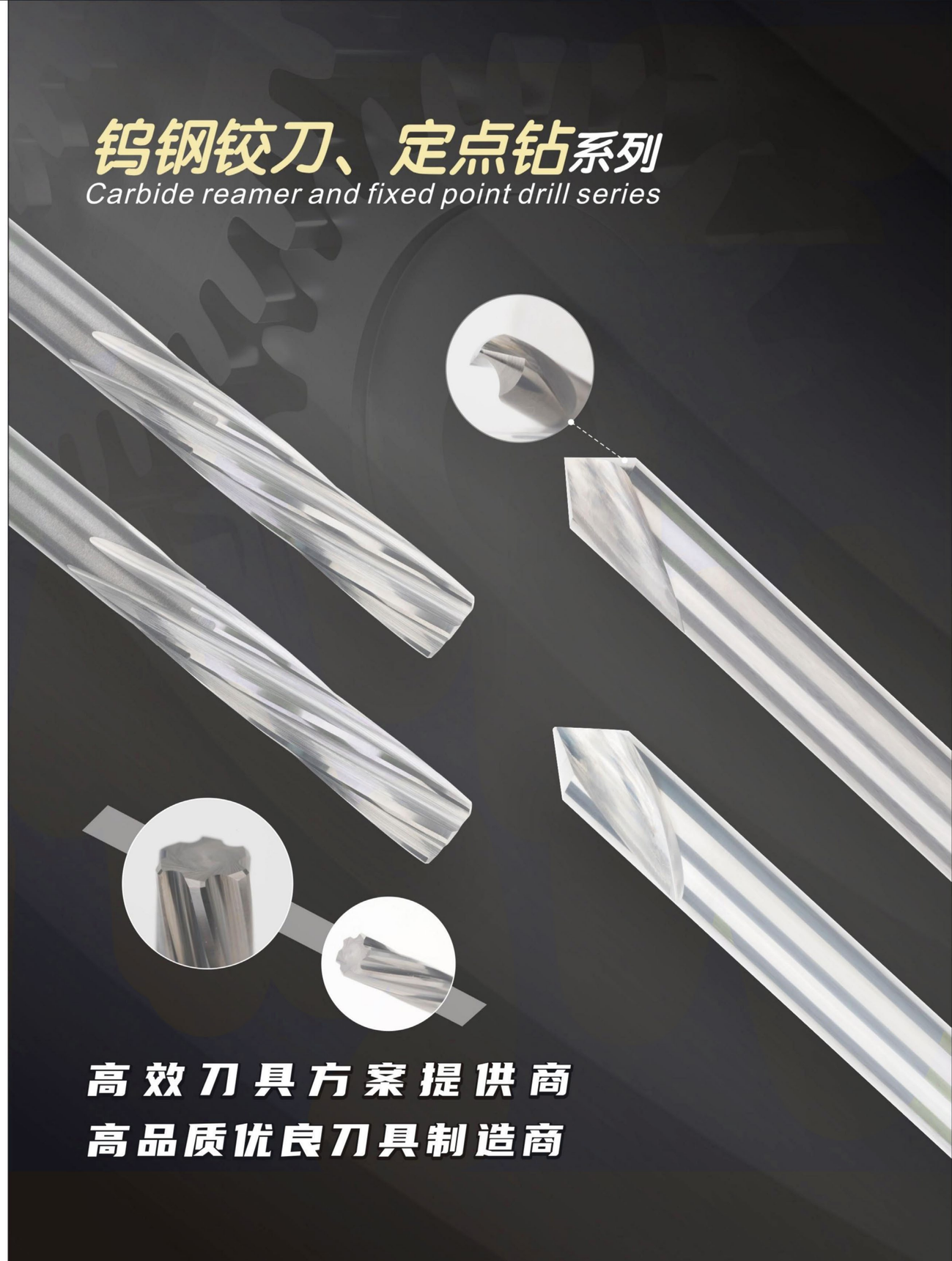
微小径圆鼻刀

刃径 d	R角 CR	刃长 l	有效长 l1	柄径 D	全长 L
0.2	R0.02	0.4	1	4	50
			2		
0.3	R0.02/R0.05	0.6	1	4	50
			2		
0.4	R0.02/R0.05	0.8	2	4	50
			4		
			6		
0.5	R0.02/R0.05	1.0	2	4	50
			4		
			6		
0.6	R0.05/R0.1	1.2	4	4	50
			6		
			8		
0.7	R0.05/R0.1	1.4	4	4	50
			6		
			8		
0.8	R0.05/R0.1	1.6	4	4	50
			6		
			8		

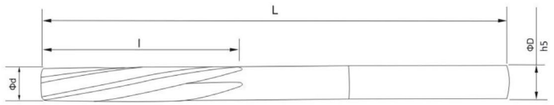
可切削材料适用表 Application sheet for machinable materials

○非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○		◎	○	○	○	



钨钢铰刀
Carbide reamer



刃径 d	刃数	刃长 l	柄径 D	全长 L
4.0	6	19	4.0	75
5.0	6	23	5.0	86
6.0	6	26	6.0	93
7.0	6	31	7.0	109
8.0	6	33	8.0	117
9.0	6	36	9.0	125

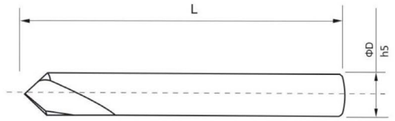
刃径 d	刃数	刃长 l	柄径 D	全长 L
10.0	6	38	10.0	133
12.0	6	44	12.0	151
16.0	8	52	16.0	170
18.0	8	56	18.0	182
20.0	8	60	20.0	195

可切削材料适用表 Application sheet for machinable materials

非常适合 ○ 适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○	○	○	○	○	○	○

定点钻
Fixed point drill



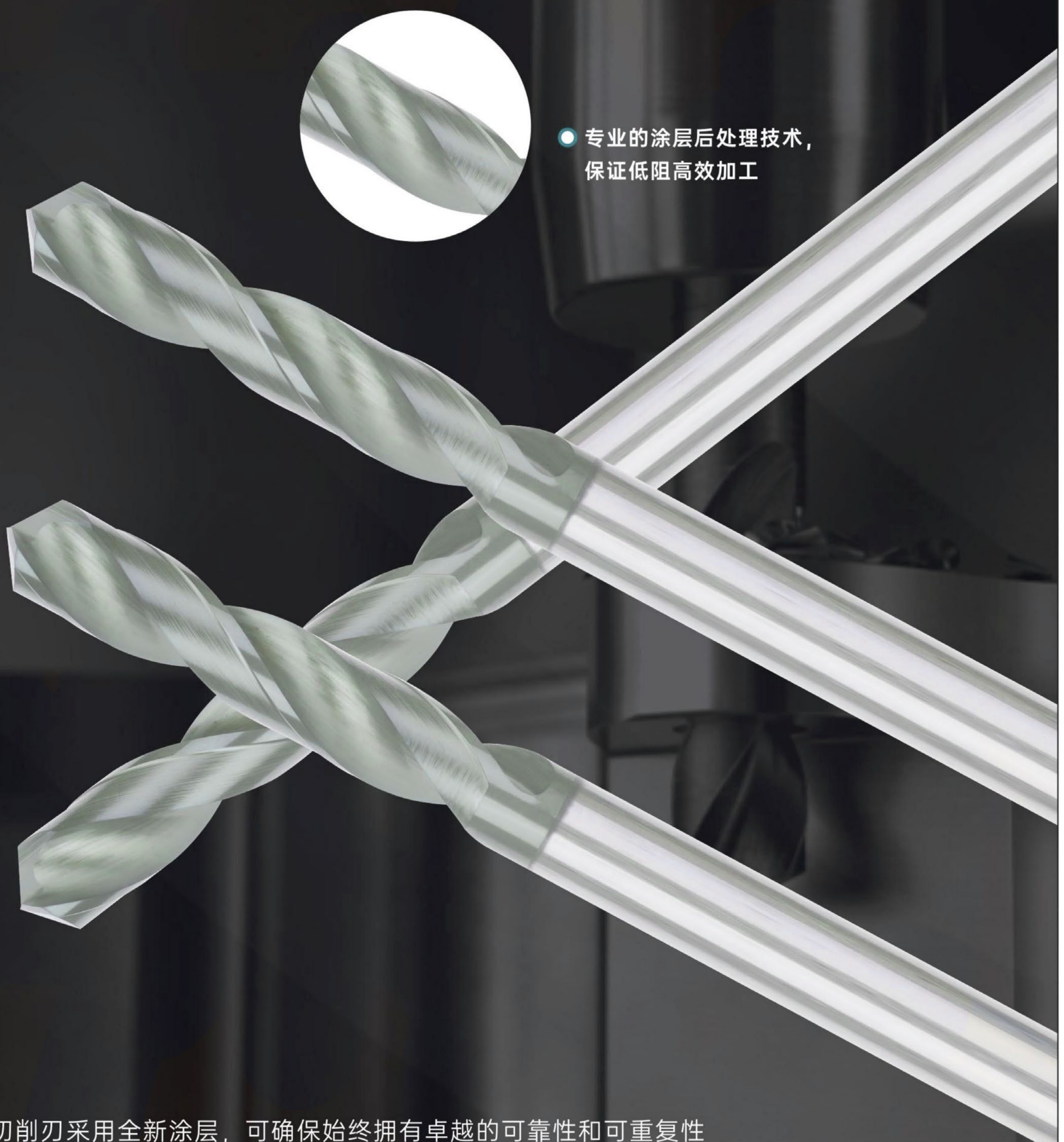
刃径 d	刃长 l	柄径 D	全长 L
3.0	6	3.0	50
4.0	8	4.0	50
5.0	10	5.0	50
6.0	12	6.0	50
8.0	16	8.0	60
10.0	20	10.0	75
12.0	24	12.0	75
16.0	32	16.0	100

可切削材料适用表 Application sheet for machinable materials

非常适合 ○ 适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○	○	○	○	○	○	○

钨钢钻头系列
Carbide drill series

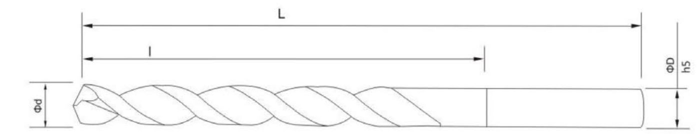


- 专业的涂层后处理技术，保证低阻高效加工

特点与优势

- 均衡一致的切削刃采用全新涂层，可确保始终拥有卓越的可靠性和可重复性
- 采用的新材质具有出色的耐磨性，从而能够实现更长的刀具寿命和更低的单孔成本
- 可靠的设计和出色的尺寸精度能够显著改进成孔公差并减少零件损坏

钨钢钻头
Carbide drill



内冷 涂层 不涂层

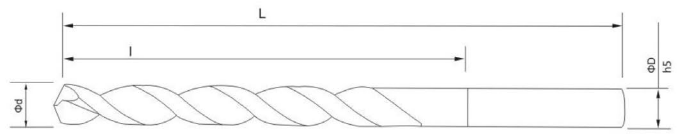
规格	刃径 d	刃长 l	柄径 D	全长 L	规格	刃径 d	刃长 l	柄径 D	全长 L
KD-010-D*010	1.0	11	1.0	30	KD-010-D*032	3.2	18	3.2	49
KD-010-D*011	1.1	11	1.1	30	KD-010-D*033	3.3	18	3.3	49
KD-010-D*012	1.2	13	1.2	30	KD-010-D*034	3.4	20	3.4	52
KD-010-D*013	1.3	13	1.3	30	KD-010-D*035	3.5	20	3.5	52
KD-010-D*014	1.4	13	1.4	30	KD-010-D*036	3.6	20	3.6	52
KD-010-D*015	1.5	13	1.5	30	KD-010-D*037	3.7	20	3.7	52
KD-010-D*016	1.6	10	1.6	34	KD-010-D*038	3.8	22	3.8	55
KD-010-D*017	1.7	10	1.7	34	KD-010-D*039	3.9	22	3.9	55
KD-010-D*018	1.8	11	1.8	36	KD-010-D*040	4.0	22	4.0	55
KD-010-D*019	1.9	11	1.9	36	KD-010-D*041	4.1	22	4.1	55
KD-010-D*020	2.0	12	2.0	38	KD-010-D*042	4.2	22	4.2	55
KD-010-D*021	2.1	12	2.1	38	KD-010-D*043	4.3	24	4.3	58
KD-010-D*022	2.2	13	2.2	40	KD-010-D*044	4.4	24	4.4	58
KD-010-D*023	2.3	13	2.3	40	KD-010-D*045	4.5	24	4.5	58
KD-010-D*024	2.4	14	2.4	43	KD-010-D*046	4.6	24	4.6	58
KD-010-D*025	2.5	14	2.5	43	KD-010-D*047	4.7	24	4.7	58
KD-010-D*026	2.6	14	2.6	43	KD-010-D*048	4.8	26	4.8	62
KD-010-D*027	2.7	16	2.7	46	KD-010-D*049	4.9	26	4.9	62
KD-010-D*028	2.8	16	2.8	46	KD-010-D*050	5.0	26	5.0	62
KD-010-D*029	2.9	16	2.9	46	KD-010-D*051	5.1	26	5.1	62
KD-010-D*030	3.0	16	3.0	46	KD-010-D*052	5.2	26	5.2	62
KD-010-D*031	3.1	18	3.1	49	KD-010-D*053	5.3	26	5.3	62

可切削材料适用表 Application sheet for machinable materials

◎非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○	○	○	○	○	○	○

钨钢钻头
Carbide drill



规 格	刃径 d	刃长 l	柄径 D	全长 L
KD-010-D*054	5.4	28	5.4	66
KD-010-D*055	5.5	28	5.5	66
KD-010-D*056	5.6	28	5.6	66
KD-010-D*057	5.7	28	5.7	66
KD-010-D*058	5.8	28	5.8	66
KD-010-D*059	5.9	28	5.9	66
KD-010-D*060	6.0	28	6.0	66
KD-010-D*061	6.1	31	6.1	70
KD-010-D*062	6.2	31	6.2	70
KD-010-D*063	6.3	31	6.3	70
KD-010-D*064	6.4	31	6.4	70
KD-010-D*065	6.5	31	6.5	70
KD-010-D*066	6.6	31	6.6	70
KD-010-D*067	6.7	31	6.7	70
KD-068-D*068	6.8	34	6.8	74
KD-068-D*069	6.9	34	6.9	74
KD-068-D*070	7.0	34	7.0	74
KD-068-D*071	7.1	34	7.1	74
KD-068-D*072	7.2	34	7.2	74
KD-068-D*073	7.3	34	7.3	74
KD-068-D*074	7.4	34	7.4	74
KD-068-D*075	7.5	34	7.5	74

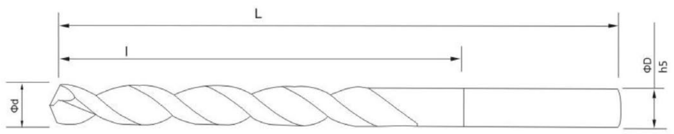
规 格	刃径 d	刃长 l	柄径 D	全长 L
KD-068-D*076	7.6	37	7.6	79
KD-068-D*077	7.7	37	7.7	79
KD-068-D*078	7.8	37	7.8	79
KD-068-D*079	7.9	37	7.9	79
KD-068-D*080	8.0	37	8.0	79
KD-068-D*081	8.1	37	8.1	79
KD-068-D*082	8.2	37	8.2	79
KD-068-D*083	8.3	37	8.3	79
KD-068-D*084	8.4	37	8.4	79
KD-068-D*085	8.5	37	8.5	79
KD-068-D*086	8.6	40	8.6	84
KD-068-D*087	8.7	40	8.7	84
KD-068-D*088	8.8	40	8.8	84
KD-068-D*089	8.9	40	8.9	84
KD-068-D*090	9.0	40	9.0	84
KD-068-D*091	9.1	40	9.1	84
KD-068-D*092	9.2	40	9.2	84
KD-068-D*093	9.3	40	9.3	84
KD-068-D*094	9.4	40	9.4	84
KD-068-D*095	9.5	40	9.5	84
KD-068-D*096	9.6	43	9.6	89
KD-068-D*097	9.7	43	9.7	89

可切削材料适用表 Application sheet for machinable materials

○非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○	○	○	○	○	○	○

钨钢钻头
Carbide drill



规 格	刃径 d	刃长 l	柄径 D	全长 L
KD-068-D*098	9.8	43	9.8	89
KD-068-D*099	9.9	43	9.9	89
KD-068-D*100	10.0	43	10.0	89
KD-068-D*101	10.1	43	10.1	89
KD-068-D*102	10.2	43	10.2	89
KD-068-D*103	10.3	43	10.3	89
KD-068-D*104	10.4	43	10.4	89
KD-068-D*105	10.5	43	10.5	89
KD-068-D*106	10.6	43	10.6	89
KD-068-D*107	10.7	43	10.7	89
KD-068-D*108	10.8	43	10.8	89
KD-068-D*109	10.9	43	10.9	89
KD-068-D*110	11.0	47	11.0	95
KD-068-D*111	11.1	47	11.1	95
KD-068-D*112	11.2	47	11.2	95
KD-068-D*113	11.3	47	11.3	95
KD-068-D*114	11.4	47	11.4	95
KD-068-D*115	11.5	47	11.5	95
KD-068-D*116	11.6	47	11.6	95
KD-068-D*117	11.7	47	11.7	95
KD-068-D*118	11.8	47	11.8	95
KD-068-D*119	11.9	47	11.9	95

规 格	刃径 d	刃长 l	柄径 D	全长 L
KD-068-D*120	12.0	47	12.0	95
KD-068-D*121	12.1	51	12.1	102
KD-068-D*122	12.2	51	12.2	102
KD-068-D*123	12.3	51	12.3	102
KD-068-D*124	12.4	51	12.4	102
KD-068-D*125	12.5	51	12.5	102
KD-068-D*126	12.6	51	12.6	102
KD-068-D*127	12.7	51	12.7	102
KD-068-D*128	12.8	51	12.8	102
KD-068-D*129	12.9	51	12.9	102
KD-068-D*130	13.0	51	13.0	102
KD-068-D*140	14.0	54.0	14.0	107.0
KD-068-D*150	15.0	56.0	15.0	111.0
KD-068-D*160	16.0	58.0	16.0	115.0
KD-068-D*170	17.0	60.0	17.0	119.0
KD-068-D*180	18.0	60.0	18.0	119.0
KD-068-D*190	19.0	64.0	19.0	127.0
KD-068-D*200	20.0	66.0	20.0	131.0

可切削材料适用表 Application sheet for machinable materials

○非常适合 ○适合

碳素钢 Carbon Steels 合金钢 Alloy Steels 预硬钢 Pre-hardened Steels 工具钢 Tool Steels	预硬钢、淬硬钢 Pre-hardened Steels,Hardened Steels				不锈钢 Stainless Steels	铸铁 Cast Iron 球磨铸铁 Ductile Iron	铜合金 Copper Alloys	铝合金 Aluminum Alloys	钛合金 Titanium Alloys	耐热合金 Heat Resistant Alloys	石墨 Graphite
~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○	○	○	○	○	○	○	○	○	○	○	○

非标定制铣刀

Non standard customized milling cutter

高效刀具方案提供商和高品质优良刀具制造商

High-efficiency tool solution provider and high-quality tool manufacturer

◆根据客户产品要求进行灵活设计，大大提升刀具的适用性和通用性，从而提升刀具的加工效率；

◆优秀的组织与协调能力确保客户的交期要求，急客户之所急；

焊刃式铣刀系列

Welding milling cutter series

高效刀具方案提供商和高品质优良刀具制造商

High-efficiency tool solution provider and high-quality tool manufacturer

◆采用传统的烧焊工艺及先进的磨制工艺，使刀具有着良好的性价比，并在加工中有较高的稳定性和通用性；