

ECO



ECO 系列刀具
通用刀具

ECO series
Universal end mills



昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

www.osktool.com

图标说明 / Meaning of icons

底刃形状 / Endteeth Type



平头
Square



圆角头
Corner Radius



球头
Ballnose



刀尖倒角
Square with Chamfer



倒角
Chamfer

加工用途 / Applications



平面切削
Planing



侧面切削
Side Cutting



槽切削
Slotting



曲面加工
Profiling



R形加工
Radius

加工分类 / Type



粗加工
Roughing



半精加工
Semi-Finishing



精加工
Finishing

尺寸公差 / Materials



外径公差
Tolerance of Outside Diameter



柄部公差
Tolerance of Shank Diameter

涂层 / Coating



AlCrSiN涂层
AlCrSiN Coating



TiAlN涂层
TiAlN Coating



AlTiN纳米涂层
Nano Coating AlTiN



TiSiN涂层
TH Coating



TiAlCrSiN涂层
TiAlCrSiN Coating



金刚石涂层
DIA Coating



类金刚石涂层
DLC Coating

刀具技术参数 / Technical parameters of cutting tool



深沟
Rib/Shrink neck



螺旋角
Helix angle



钻顶角
Point angle



钻顶角
Point angle



被切削材料硬度
Work material hardness



端刃数量
Flute

被加工材料 / Processed material



钢
Steel



不锈钢
Stainless Steel



铸铁
Cast Iron



非铁材料
Non-ferrous Materials



高温合金、钛合金
Heat-resistant Super Alloys, Titanium Alloys



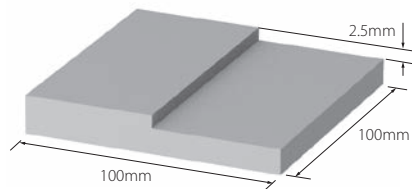
高硬度材料
High Hardened Materials

ECO 系列产品的优势:

- 采用国内优质超细微粒钨钢棒料 (0.4-0.5U, Co:12%) 为基材
- 基材硬度高 (HRA: 92.5), 抗折弯度高 (TRS: 4200 N/mm²)
- 品质管控, 以日系生产化标准控制产品品质
- 所有产品以德国 Walter 五轴磨床加工, 保证产品的一致性
- 十余年市场经验累积, 经典刀型, 高切削效率, 通用性强
- 表面优质涂层, 提高刀具耐磨性 (优于目前 WXS 涂层 30% 以上)
- 产品广泛适用于: HRC45 以内 (球刀、圆鼻刀可加工 HRC50), 铸铁, 一般钢件, 调制钢, 合金钢等被切削材料
- 批量化生产, 品质稳定, 超高性价比 (比目前公司市场畅销的同等产品价格下调 30-50%) 定位准确
- 接受 OEM 订单

ECO 系列 2 刃立铣刀对比 / Comparison of ECO series 2 Flutes end mills

加工一个右图所示的模具。
 模具材料: 热处理 H13
 Comparison of time required for cutting the mold shown at right
 Mold material: H13 (HRC46)



Product model	A 公司	OSK 产品
尺寸 Tool size	4.0mm, 2 刃 Flutes	4.0mm, 2 刃 Flutes
切削时间 Cutting time	300 分钟 Min	420 分钟 Min
切削方式 Cutting method	平面切削 Plane cutting	平面切削 Plane cutting
冷却方式 Cooling mode	气冷 Gas cooling	气冷 Gas cooling
切削参数 Cutting parameter	S=30000, F=120, Ap: 1D, Ae: 0.02D	S=30000, F=120, Ap: 1D, Ae: 0.02D

相同时间, 相同加工参数 / The same time, the same processing parameters

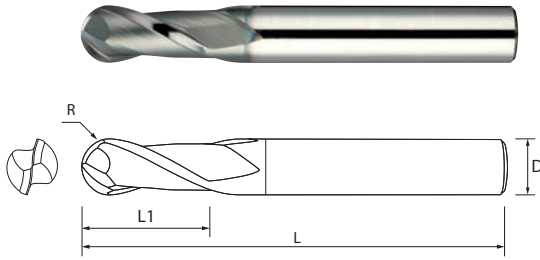
刀具球面磨损对比 / Tool Spherical wear contrast



刀具圆弧磨损对比 / Tool circular arc wear contrast



直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015



中硬度钢 (HRC50)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm)，高速加工时发挥出性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BR 2 刃球铣刀 / 2 Flutes Ball End Mills

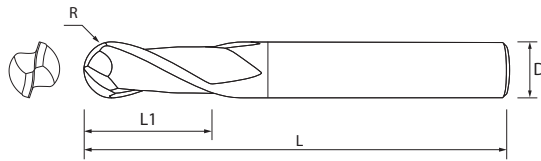


MODEL-NO 产品型号	Radius R 径 R	F.L 刃长 L ₁	O.L 全长 L	S.D 柄径 D	Tap 锥度 Y
ECO2BR0050S04	R0.5	2	50	4	15°
ECO2BR0050S06	R0.5	2	50	6	15°
ECO2BR0075S04	R0.75	3	50	4	15°
ECO2BR0075S06	R0.75	3	50	6	15°
ECO2BR0100S04	R1.0	4	50	4	15°
ECO2BR0100S06	R1.0	4	50	6	15°
ECO2BR0125S04	R1.25	5	50	4	15°
ECO2BR0125S06	R1.25	5	50	6	15°
ECO2BR0150S04	R1.5	6	50	4	15°
ECO2BR0150S06	R1.5	6	50	6	15°
ECO2BR0200S04	R2.0	8	50	4	-
ECO2BR0200S06	R2.0	8	50	6	15°
ECO2BR0250S06	R2.5	10	50	6	15°
ECO2BR0300S06	R3.0	12	50	6	-
ECO2BR0350S08	R3.5	14	60	8	15°
ECO2BR0400S08	R4.0	16	60	8	-
ECO2BR0450S10	R4.5	18	75	10	15°
ECO2BR0500S10	R5.0	20	75	10	-
ECO2BR0600S12	R6.0	24	75	12	-
ECO2BR0700S14	R7.0	24	100	14	-
ECO2BR0800S16	R8	24	100	16	-
ECO2BR1000S20	R10	30	100	20	-
ECO2BR1250S25	R12.5	35	100	25	-

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	○	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0~-0.01
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ECO-BR 2 刃加长球铣刀 / 2 Flutes Length Ball End mills



MODEL-NO 产品型号	Radius R 径 R	F.L 刃长 L ₁	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2BR0100L075S04	R1	4	75	4	15°
ECO2BR0100L100S06	R1	4	100	6	15°
ECO2BR0125L075S04	R1.25	5	75	4	15°
ECO2BR0125L100S06	R1.25	5	100	6	15°
ECO2BR0150L075S04	R1.5	6	75	4	15°
ECO2BR0150L100S06	R1.5	6	100	6	15°
ECO2BR0200L075S04	R2	8	75	4	-
ECO2BR0200L100S06	R2	8	100	6	15°
ECO2BR0250L075S06	R2.5	10	75	6	15°
ECO2BR0250L100S06	R2.5	10	100	6	15°
ECO2BR0300L075S06	R3	12	75	6	-
ECO2BR0300L100S06	R3	12	100	6	-
ECO2BR0400L075S08	R4	16	75	8	-
ECO2BR0400L100S08	R4	16	100	8	-
ECO2BR0500L100S10	R5	20	100	10	-
ECO2BR0500L150S10	R5	20	150	10	-
ECO2BR0600L100S12	R6	24	100	12	-
ECO2BR0600L150S12	R6	24	150	12	-
ECO2BR0800L150S16	R8	32	150	16	-
ECO2BR0800L200S16	R8	32	200	16	-
ECO2BR1000L150S20	R10	40	150	20	-
ECO2BR1000L200S20	R10	40	200	20	-
ECO2BR1250L150S25	R12.5	50	150	25	-
ECO2BR1250L200S25	R12.5	50	200	25	-

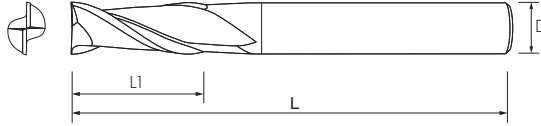
ECO Ball End Mills

ECO End Mills

ECO Corner Rautius

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ECO-BR 2 刃立铣刀 / 2 Flutes End mills



MODEL-NO 产品型号	Dia 直径 D1	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2ED0100S04	1	3	50	4	15°
ECO2ED0100S06	1	3	50	6	15°
ECO2ED0150S04	1.5	4	50	4	15°
ECO2ED0150S06	1.5	4	50	6	15°
ECO2ED0200S04	2	6	50	4	15°
ECO2ED0200S06	2	6	50	6	15°
ECO2ED0250S04	2.5	8	50	4	15°
ECO2ED0250S06	2.5	8	50	6	15°
ECO2ED0300S04	3	8	50	4	15°
ECO2ED0300S06	3	8	50	6	15°
ECO2ED0400S04	4	12	50	4	-
ECO2ED0400S06	4	12	50	6	15°
ECO2ED0500S06	5	13	50	6	15°
ECO2ED0600S06	6	15	50	5	-
ECO2ED0700S08	7	20	60	8	15°
ECO2ED0800S08	8	20	60	8	-
ECO2ED0900S10	9	30	75	10	15°
ECO2ED1000S10	10	30	75	10	-
ECO2ED1100S12	11	30	75	12	15°
ECO2ED1200S12	12	30	75	12	-
ECO2ED1400S14	14	32	100	14	-
ECO2ED1600S16	16	45	100	16	-
ECO2ED2000S20	20	45	100	20	-
ECO2ED2500S25	25	45	100	25	-

ECO Ball End Mills

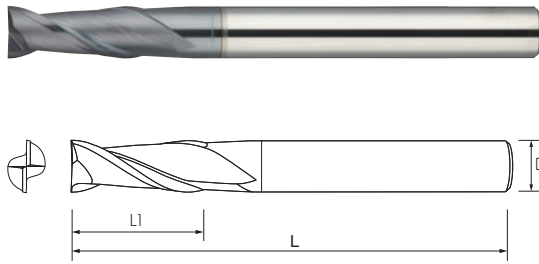
ECO End Mills

ECO Corner Radius

工件材料 Workpiece Material

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碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
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ECO-BR 2 刃加长立铣刀 / 2 Flutes Length Ball End mills



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ECO2ED0100L075S04	1	4	75	4	15°
ECO2ED0100L100S06	1	4	100	6	15°
ECO2ED0150L075S04	1.5	6	75	4	15°
ECO2ED0150L100S06	1.5	6	100	6	15°
ECO2ED0200L075S04	2	8	75	4	15°
ECO2ED0200L100S06	2	8	100	6	15°
ECO2ED0250L075S04	2.5	10	75	4	15°
ECO2ED0250L100S06	2.5	10	100	6	15°
ECO2ED0300L075S04	3	12	75	4	15°
ECO2ED0300L100S06	3	12	100	6	15°
ECO2ED0400L075S04	4	15	75	4	-
ECO2ED0400L100S06	4	15	100	6	15°
ECO2ED0500L075S06	5	20	75	6	15°
ECO2ED0500L100S06	5	20	100	6	15°
ECO2ED0600L075S06	6	25	75	6	-
ECO2ED0600L100S06	6	25	100	6	-
ECO2ED0800L075S08	8	30	75	8	-
ECO2ED0800L100S08	8	30	100	8	-
ECO2ED1000L100S10	10	40	100	10	-
ECO2ED1000L150S10	10	40	150	10	-
ECO2ED1200L100S12	12	45	100	12	-
ECO2ED1200L150S12	12	45	150	12	-
ECO2ED1600L150S16	16	50	150	16	-
ECO2ED1600L200S16	16	75	200	16	-
ECO2ED2000L150S20	20	60	150	20	-
ECO2ED2000L200S20	20	80	200	20	-
ECO2ED2500L150S25	25	70	150	25	-
ECO2ED2500L200S25	25	80	200	25	-

ECO Ball End Mills

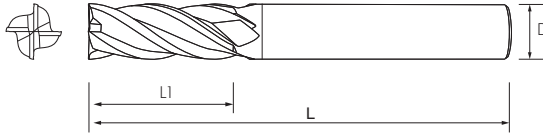
ECO End Mills

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ECO-BRL 4 刃立铣刀 / 4 Flutes End mills



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ECO4ED0100S04	1	3	50	4	15°
ECO4ED0100S06	1	3	50	6	15°
ECO4ED0150S04	1.5	4	50	4	15°
ECO4ED0150S06	1.5	4	50	6	15°
ECO4ED0200S04	2	6	50	4	15°
ECO4ED0200S06	2	6	50	6	15°
ECO4ED0250S04	2.5	8	50	4	15°
ECO4ED0250S06	2.5	8	50	6	15°
ECO4ED0300S04	3	8	50	4	15°
ECO4ED0300S06	3	8	50	6	15°
ECO4ED0400S04	4	12	50	4	-
ECO4ED0400S06	4	12	50	6	15°
ECO4ED0500S06	5	15	50	6	15°
ECO4ED0600S06	6	15	50	6	-
ECO4ED0700S08	7	20	60	8	15°
ECO4ED0800S08	8	20	60	8	-
ECO4ED0900S10	9	30	75	10	15°
ECO4ED1000S10	10	30	75	10	-
ECO4ED1100S12	11	30	75	12	15°
ECO4ED1200S12	12	30	75	12	-
ECO4ED1400S14	14	32	100	14	-
ECO4ED1600S16	16	45	100	16	-
ECO4ED2000S20	20	45	100	20	-
ECO4ED2500S25	25	45	100	25	-

ECO Ball End Mills

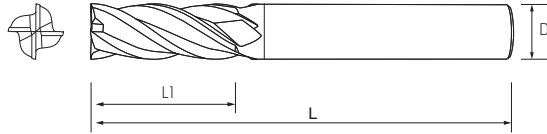
ECO End Mills

ECO Corner Radius

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ECO4ED0200S04	2	6	50	4	15°
ECO4ED0200S06	2	6	50	6	15°
ECO4ED0250S04	2.5	8	50	4	15°
ECO4ED0250S06	2.5	8	50	6	15°
ECO4ED0300S04	3	8	50	4	15°
ECO4ED0300S06	3	8	50	6	15°
ECO4ED0400S04	4	12	50	4	-
ECO4ED0400S06	4	12	50	6	15°
ECO4ED0500S06	5	15	50	6	15°
ECO4ED0600S06	6	15	50	6	-
ECO4ED0700S08	7	20	60	8	15°
ECO4ED0800S08	8	20	60	8	-
ECO4ED0900S10	9	30	75	10	15°
ECO4ED1000S10	10	30	75	10	-
ECO4ED1100S12	11	30	75	12	15°
ECO4ED1200S12	12	30	75	12	-
ECO4ED1400S14	14	32	100	14	-
ECO4ED1600S16	16	45	100	16	-
ECO4ED2000S20	20	45	100	20	-
ECO4ED2500S25	25	45	100	25	-

ECO Ball End Mills

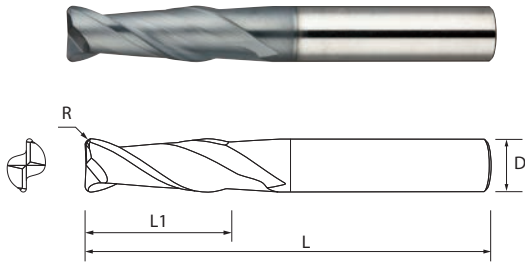
ECO End Mills

ECO Corner Rautius

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015



中硬度钢 (HRC50)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm)，高速加工时发挥出性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BD 2 刃圆鼻铣刀 / 2 Flutes Corner Radius End mills

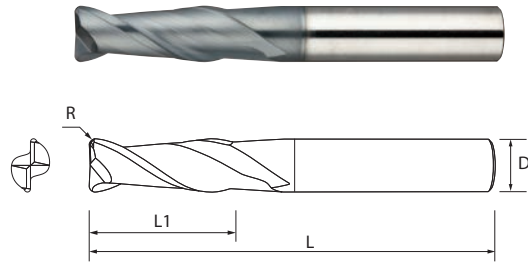


MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2BD0100R01S04	1	R0.1	3	50	4	15°
ECO2BD0100R02S04	1	R0.2	3	50	4	15°
ECO2BD0150R02S04	1.5	R0.2	3	50	4	15°
ECO2BD0200R01S04	2	R0.1	5	50	4	15°
ECO2BD0200R02S04	2	R0.2	5	50	4	15°
ECO2BD0200R03S04	2	R0.3	5	50	4	15°
ECO2BD0200R05S04	2	R0.5	5	50	4	15°
ECO2BD0250R01S04	2.5	R0.1	6	50	4	15°
ECO2BD0250R02S04	2.5	R0.2	6	50	4	15°
ECO2BD0250R03S04	2.5	R0.3	6	50	4	15°
ECO2BD0250R05S04	2.5	R0.5	6	50	4	15°
ECO2BD0300R01S04	3	R0.1	7.5	50	4	15°
ECO2BD0300R02S04	3	R0.2	7.5	50	4	15°
ECO2BD0300R03S04	3	R0.3	7.5	50	4	15°
ECO2BD0300R05S04	3	R0.5	7.5	50	4	15°
ECO2BD0300R10S04	3	R1.0	7.5	50	4	15°
ECO2BD0400R01S04	4	R0.1	10	50	4	-
ECO2BD0400R02S04	4	R0.2	10	50	4	-
ECO2BD0400R03S04	4	R0.3	10	50	4	-
ECO2BD0400R05S04	4	R0.5	10	50	4	-
ECO2BD0400R10S04	4	R1.0	10	50	4	-
ECO2BD0500R02S06	5	R0.2	13	50	6	15°
ECO2BD0500R03S06	5	R0.3	13	50	6	15°
ECO2BD0500R05S06	5	R0.5	13	50	6	15°
ECO2BD0500R10S06	5	R1.0	13	50	6	15°
ECO2BD0600R02S06	6	R0.2	15	50	6	-
ECO2BD0600R03S06	6	R0.3	15	50	6	-
ECO2BD0600R05S06	6	R0.5	15	50	6	-
ECO2BD0600R10S06	6	R1.0	15	50	6	-

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0~-0.01
D>R6	0~-0.015



中硬度钢 (HRC50)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm), 高速加工时发挥出出色性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

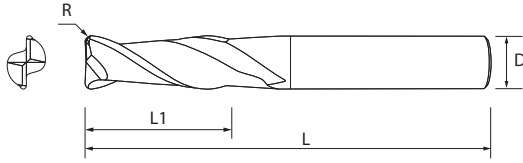
ECO-BD 2 刃圆鼻铣刀 / 2 Flutes Corner Radius End mills



MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2BD0600R15S06	6	R1.5	15	50	6	-
ECO2BD0600R20S06	6	R2.0	15	50	6	-
ECO2BD0800R02S08	8	R0.2	20	60	8	-
ECO2BD0800R05S08	8	R0.5	20	60	8	-
ECO2BD0800R10S08	8	R1.0	20	60	8	-
ECO2BD0800R15S08	8	R1.5	20	60	8	-
ECO2BD0800R20S08	8	R2.0	20	60	8	-
ECO2BD0800R25S08	8	R2.5	20	60	8	-
ECO2BD1000R02S10	10	R0.2	25	75	10	-
ECO2BD1000R05S10	10	R0.5	25	75	10	-
ECO2BD1000R10S10	10	R1.0	25	75	10	-
ECO2BD1000R15S10	10	R1.5	25	75	10	-
ECO2BD1000R20S10	10	R2.0	25	75	10	-
ECO2BD1000R25S10	10	R2.5	25	75	10	-
ECO2BD1200R02S12	12	R0.2	30	75	12	-
ECO2BD1200R05S12	12	R0.5	25	75	10	-
ECO2BD1200R10S12	12	R1.0	30	75	12	-
ECO2BD1200R15S12	12	R1.5	25	75	10	-
ECO2BD1200R20S12	12	R2.0	30	75	12	-
ECO2BD1200R25S12	12	R2.5	25	75	10	-
ECO2BD1200R30S12	12	R3.0	30	75	12	-
ECO2BD1600R02S16	16	R0.2	40	100	16	-
ECO2BD1600R05S16	16	R0.5	40	100	16	-
ECO2BD1600R10S16	16	R1.0	40	100	16	-
ECO2BD1600R15S16	16	R1.5	40	100	16	-
ECO2BD1600R20S16	16	R2.0	40	100	16	-
ECO2BD1600R25S16	16	R2.5	40	100	16	-
ECO2BD1600R30S16	16	R3.0	40	100	16	-

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○



直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015

中硬度钢 (HRC50)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm)，高速加工时发挥出性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BD 2 刃圆鼻加长铣刀 / 2 Flutes Length Corner Radius End mills

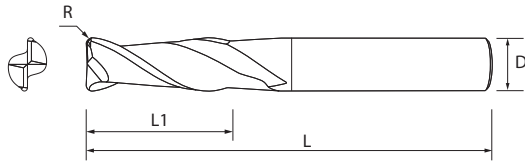
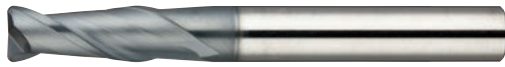


MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2BD0300R02L075S06	3	R0.2	7.5	75	6	15°
ECO2BD0300R03L075S06	3	R0.3	7.5	75	6	15°
ECO2BD0300R05L075S06	3	R0.5	7.5	75	6	15°
ECO2BD0300R10L075S06	3	R1.0	7.5	75	6	15°
ECO2BD0400R01L075S06	4	R0.1	10	75	6	15°
ECO2BD0400R02L075S06	4	R0.2	10	75	6	15°
ECO2BD0400R03L075S06	4	R0.3	10	75	6	15°
ECO2BD0400R05L075S06	4	R0.5	10	75	6	15°
ECO2BD0400R10L075S06	4	R1.0	10	75	6	15°
ECO2BD0500R02L075S06	5	R0.2	13	75	6	15°
ECO2BD0500R03L075S06	5	R0.3	13	75	6	15°
ECO2BD0500R05L075S06	5	R0.5	13	75	6	15°
ECO2BD0500R10L075S06	5	R1.0	13	75	6	15°
ECO2BD0600R02L075S06	6	R0.2	15	75	6	-
ECO2BD0600R03L075S06	6	R0.3	15	75	6	-
ECO2BD0600R05L075S06	6	R0.5	15	75	6	-
ECO2BD0600R10L075S06	6	R1.0	15	75	6	-
ECO2BD0600R15L075S06	6	R1.5	15	75	6	-
ECO2BD0600R20L075S06	6	R2.0	15	75	6	-
ECO2BD0800R02L100S08	8	R0.2	20	75	8	-
ECO2BD0800R05L100S08	8	R0.5	20	75	8	-
ECO2BD0800R10L100S08	8	R1.0	20	75	8	-
ECO2BD0800R15L100S08	8	R1.5	20	75	8	-
ECO2BD0800R20L100S08	8	R2.0	20	75	8	-
ECO2BD0800R25L100S08	8	R2.5	20	75	8	-
ECO2BD1000R02L100S10	10	R0.2	25	100	10	-
ECO2BD1000R05L100S10	10	R0.5	25	100	10	-
ECO2BD1000R10L100S10	10	R1.0	25	100	10	-
ECO2BD1000R15L100S10	10	R1.5	25	100	10	-

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	○	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015



中硬度钢 (HRC50)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm), 高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC50)

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- High precise edge tolerance.
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- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BD 2 刃圆鼻加长铣刀 / 2 Flutes Length Corner Radius End mills



MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO2BD1000R20L100S10	10	R2.0	25	100	10	-
ECO2BD1000R25L100S10	10	R2.5	25	100	10	-
ECO2BD1200R02L100S12	12	R0.2	30	100	12	-
ECO2BD1200R05L100S12	12	R0.5	30	100	12	-
ECO2BD1200R10L100S12	12	R1.0	30	100	12	-
ECO2BD1200R15L100S12	12	R1.5	30	100	12	-
ECO2BD1200R20L100S12	12	R2.0	30	100	12	-
ECO2BD1200R25L100S12	12	R2.5	30	100	12	-
ECO2BD1200R30L100S12	12	R3.0	30	100	12	-
ECO2BD1600R05L150S16	16	R0.5	40	150	16	-
ECO2BD1600R10L150S16	16	R1.0	40	150	16	-
ECO2BD1600R15L150S16	16	R1.5	40	150	16	-
ECO2BD1600R20L150S16	16	R2.0	40	150	16	-
ECO2BD1600R25L150S16	16	R2.5	40	150	16	-
ECO2BD1600R30L150S16	16	R3.0	40	150	16	-

ECO Ball End Mills

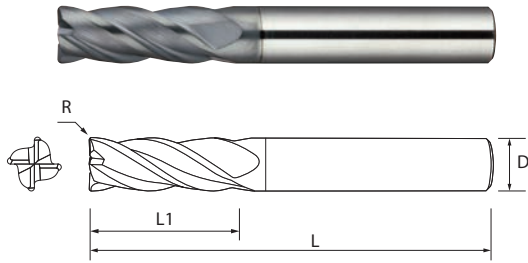
ECO End Mills

ECO Corner Rautius

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015



中硬度钢 (HRC50)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm)，高速加工时发挥出性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
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- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BD 4 刃圆鼻铣刀 / 4 Flutes Corner Radius End mills

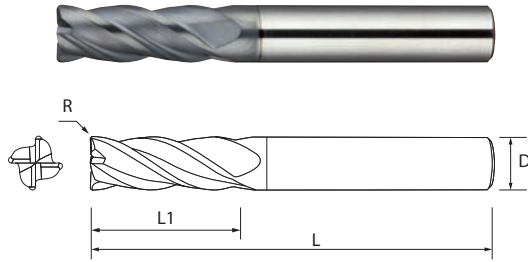


MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO4BD0100R01S04	1	R0.1	3	50	4	15°
ECO4BD0100R02S04	1	R0.2	3	50	4	15°
ECO4BD0150R02S04	1.5	R0.2	3	50	4	15°
ECO4BD0200R01S04	2	R0.1	5	50	4	15°
ECO4BD0200R02S04	2	R0.2	5	50	4	15°
ECO4BD0200R03S04	2	R0.3	5	50	4	15°
ECO4BD0200R05S04	2	R0.5	5	50	4	15°
ECO4BD0250R01S04	2.5	R0.1	6	50	4	15°
ECO4BD0250R02S04	2.5	R0.2	6	50	4	15°
ECO4BD0250R03S04	2.5	R0.3	6	50	4	15°
ECO4BD0250R05S04	2.5	R0.5	6	50	4	15°
ECO4BD0300R01S04	3	R0.1	7.5	50	4	15°
ECO4BD0300R02S04	3	R0.2	7.5	50	4	15°
ECO4BD0300R03S04	3	R0.3	7.5	50	4	15°
ECO4BD0300R05S04	3	R0.5	7.5	50	4	15°
ECO4BD0300R10S04	3	R1.0	7.5	50	4	15°
ECO4BD0400R01S04	4	R0.1	10	50	4	-
ECO4BD0400R02S04	4	R0.2	10	50	4	-
ECO4BD0400R03S04	4	R0.3	10	50	4	-
ECO4BD0400R05S04	4	R0.5	10	50	4	-
ECO4BD0400R10S04	4	R1.0	10	50	4	-
ECO4BD0500R02S06	5	R0.2	13	50	6	15°
ECO4BD0500R03S06	5	R0.3	13	50	6	15°
ECO4BD0500R05S06	5	R0.5	13	50	6	15°
ECO4BD0500R10S06	5	R1.0	13	50	6	15°
ECO4BD0600R02S06	6	R0.2	15	50	6	-
ECO4BD0600R03S06	6	R0.3	15	50	6	-
ECO4BD0600R05S06	6	R0.5	15	50	6	-
ECO4BD0600R10S06	6	R1.0	15	50	6	-

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0~-0.01
D>R6	0~-0.015



中硬度钢 (HRC50)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm), 高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC50)

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ECO-BD 4 刃圆鼻铣刀 / 4 Flutes Corner Radius End mills



MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 γ
ECO4BD0600R15S06	6	R1.5	15	50	6	-
ECO4BD0600R20S06	6	R2.0	15	50	6	-
ECO4BD0800R02S08	8	R0.2	20	60	8	-
ECO4BD0800R05S08	8	R0.5	20	60	8	-
ECO4BD0800R10S08	8	R1.0	20	60	8	-
ECO4BD0800R15S08	8	R1.5	20	60	8	-
ECO4BD0800R20S08	8	R2.0	20	60	8	-
ECO4BD0800R25S08	8	R2.5	20	60	8	-
ECO4BD1000R02S10	10	R0.2	25	75	10	-
ECO4BD1000R05S10	10	R0.5	25	75	10	-
ECO4BD1000R10S10	10	R1.0	25	75	10	-
ECO4BD1000R15S10	10	R1.5	25	75	10	-
ECO4BD1000R20S10	10	R2.0	25	75	10	-
ECO4BD1000R25S10	10	R2.5	25	75	10	-
ECO4BD1200R02S12	12	R0.2	30	75	12	-
ECO4BD1200R05S12	12	R0.5	30	75	12	-
ECO4BD1200R10S12	12	R1.0	30	75	12	-
ECO4BD1200R15S12	12	R1.5	30	75	12	-
ECO4BD1200R20S12	12	R2.0	30	75	12	-
ECO4BD1200R25S12	12	R2.5	30	75	12	-
ECO4BD1200R30S12	12	R3.0	30	75	12	-
ECO4BD1600R05S16	16	R0.5	40	100	16	-
ECO4BD1600R10S16	16	R1.0	40	100	16	-

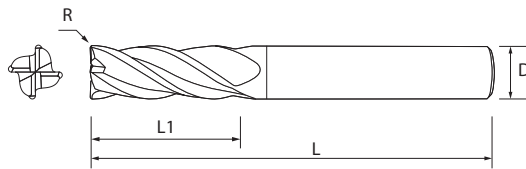
ECO Ball End Mills

ECO End Mills

ECO Corner Radius

工件材料 Workpiece Material

P			H		
碳钢、合金钢 (<35 HRC) Carbon Steel, Alloy Steel (<35 HRC)	合金钢 (≥48 HRC) Alloy Steel, Tool Steel (≥48 HRC)	PH 与铁素体 / 马氏体钢 PH, Ferrite, Martensite steel (<35 HRC)	淬硬钢 Hardened Steel (45~55 HRC)	淬硬钢 Hardened Steel (55~60 HRC)	淬硬钢 Hardened Steel (>60 HRC)
●	●	●	●	○	○



直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015

中硬度钢 (HRC50)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.3~0.5μm)，高速加工时发挥出性能。

Endmills for pre-hardened and hardened steel (HRC50)

- Good wear resistance by TiTiN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.3~0.5μm) WC grade.

ECO-BD 4 刃圆鼻加长铣刀 / 4 Flutes Length Corner Radius End mills

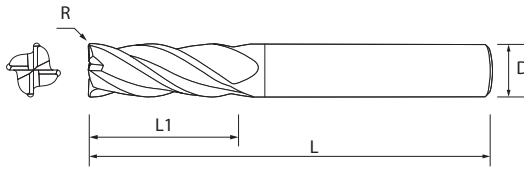


MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 Y
ECO4BD0300R02L075S06	3	R0.2	7.5	75	6	15°
ECO4BD0300R03L075S06	3	R0.3	7.5	75	6	15°
ECO4BD0300R05L075S06	3	R0.5	7.5	75	6	15°
ECO4BD0300R10L075S06	3	R1.0	7.5	75	6	15°
ECO4BD0400R01L075S06	4	R0.1	10	75	6	15°
ECO4BD0400R02L075S06	4	R0.2	10	75	6	15°
ECO4BD0400R03L075S06	4	R0.3	10	75	6	15°
ECO4BD0400R05L075S06	4	R0.5	10	75	6	15°
ECO4BD0400R10L075S06	4	R1.0	10	75	6	15°
ECO4BD0500R02L075S06	5	R0.2	13	75	6	15°
ECO4BD0500R03L075S06	5	R0.3	13	75	6	15°
ECO4BD0500R05L075S06	5	R0.5	13	75	6	15°
ECO4BD0500R10L075S06	5	R1.0	13	75	6	15°
ECO4BD0600R02L075S06	6	R0.2	15	75	6	-
ECO4BD0600R03L075S06	6	R0.3	15	75	6	-
ECO4BD0600R05L075S06	6	R0.5	15	75	6	-
ECO4BD0600R10L075S06	6	R1.0	15	75	6	-
ECO4BD0600R15L075S06	6	R1.5	15	75	6	-
ECO4BD0600R20L075S06	6	R2.0	15	75	6	-
ECO4BD0800R02L100S08	8	R0.2	20	75	8	-
ECO4BD0800R05L100S08	8	R0.5	20	75	8	-
ECO4BD0800R10L100S08	8	R1.0	20	75	8	-
ECO4BD0800R15L100S08	8	R1.5	20	75	8	-
ECO4BD0800R20L100S08	8	R2.0	20	75	8	-
ECO4BD0800R25L100S08	8	R2.5	20	75	8	-
ECO4BD1000R02L100S10	10	R0.2	25	100	10	-
ECO4BD1000R05L100S10	10	R0.5	25	100	10	-
ECO4BD1000R10L100S10	10	R1.0	25	100	10	-
ECO4BD1000R15L100S10	10	R1.5	25	100	10	-

工件材料 Workpiece Material

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ECO-BD 4 刃圆鼻加长铣刀 / 4 Flutes Length Corner Radius End mills



MODEL-NO 产品型号	Dia 直径 D1	Cor 圆鼻 R	F.L 刃长 L1	O.L 全长 L	S.D 柄径 D	Tap 锥度 Y
ECO4BD1000R20L100S10	10	R2.0	25	100	10	-
ECO4BD1000R25L100S10	10	R2.5	25	100	10	-
ECO4BD1200R02L100S12	12	R0.2	30	100	12	-
ECO4BD1200R05L100S12	12	R0.5	30	100	12	-
ECO4BD1200R10L100S12	12	R1.0	30	100	12	-
ECO4BD1200R15L100S12	12	R1.5	30	100	12	-
ECO4BD1200R20L100S12	12	R2.0	30	100	12	-
ECO4BD1200R25L100S12	12	R2.5	30	100	12	-
ECO4BD1200R30L100S12	12	R3.0	30	100	12	-
ECO4BD1600R05L150S16	16	R0.5	40	150	16	-
ECO4BD1600R10L150S16	16	R1.0	40	150	16	-

ECO Ball End Mills

ECO End Mills

ECO Corner Radius

工件材料 Workpiece Material

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●	●	●	●	○	○

ECO-ED-200100-R05-N20-L75-S04

FLUTES

200050	20: 2 刃 (2 Flutes) / 0050: 0.5mm
400100	40: 4 刃 (4 Flutes) / 0100: 1.0mm
601200	60: 6 刃 (6 Flutes) / 1200: 12.0mm

OTHER

R: 圆鼻 Corner Radius
N: 有效长 Effective Length
L: 全长 Overall Length
S: 柄径 Shank Dia

R05	圆鼻 R0.5mm Corner Radius R0.5mm
N20	深沟 20mm Effective Length 35mm
L75	全长 75mm Overall Length 75mm
S04	柄径 4.0mm Shank Dia 4.0mm

TYPE

ED	平刀 End Mills
EDL	加长平刀 Length End Mills
EDN	深沟平刀 Rib End Mills
BR	球刀 Ball End Mills
BRL	加长球刀 Length Ball End Mills
BRN	深沟球刀 Rib Ball End Mills
CR	圆鼻刀 Corner Radius End Mills
CRL	加长圆鼻刀 Length Corner Radius End Mills
CRN	深沟圆鼻刀 Length Corner Radius End Mills

PRODUCT SERIES

ECO	HRC50 高效高速铣刀 HRC50 High Efficiency High Speed End Mills
SKM	HRC45 微径深沟铣刀 HRC45 Micro Rib End Mills
KHM	HRC60 高速高硬铣刀 HRC60 High Speed High Hard End Mills
KSM	不锈钢专用铣刀 Stainless Steel Special End Mills
KAM	铝专用铣刀 Aluminum End Mills
KDM	石墨铣刀 Graphite End Mills
SPM	HRC55 微径深沟铣刀 HRC55 Micro Rib End Mills
SHM	HRC65 微径深沟铣刀 HRC65 Micro Rib End Mills

2018



Mould Cutting Tools
 模具刀具
 Parts Cutting Tools
 零件刀具
 Automobile Processing
 Cutting Tools
 汽车配件加工刀具
 Medical Cutting Tools
 医疗刀具
 Aerospace Cutting Tools
 航空用刀具



昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

SKM



SKM 系列刀具
通柄刀具
SKM Series
Universal end mills




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

SPM



SPM 系列刀具
槽纹深沟刀具
SPM series
Micro R&B End mills




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

KPM



KPM 系列刀具
高效率球头刀具
KPM series
High efficiency mold tool




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

ECO



ECO 系列刀具
通用刀具
ECO series
Universal end mills




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

KSM



KSM 系列刀具
不锈钢刀具
KSM series
Stainless End Mills




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

KAM



KAM 系列刀具
铝合金刀具
KAM series
Aluminum alloy tool




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

KDM



KDM 系列刀具
石墨刀具
KDM Series
Graphite End Mills




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

DGH



钴钨钻头系列
Cerbiide Drill Series




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd

PCD



PCD / PCBN / MCD




昆山欧思克精密工具有限公司
Kunshan OSK Precision Tools Co., Ltd



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