



CARBIDE

Being the best through innovation



CRX S

- 铜加工用DLC 涂层硬质合金铣刀

DLC Coating Carbide End Mills for Copper

SELECTION GUIDE

项目	型号	规格	尺寸		页
			最小	最大	
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SGED28		硬质合金, 2刃 球头 DLC 涂层 CARBIDE, 2 FLUTE BALL NOSE DLC COATING	R0.5	R6.0	760
SGED29		硬质合金, 2刃 长颈 圆鼻铣刀 DLC 涂层 CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS DLC COATING	D1.0	D12.0	761
SGED30		硬质合金, 2刃 长颈 DLC 涂层 CARBIDE, 2 FLUTE LONG NECK DLC COATING	D0.5	D12.0	763
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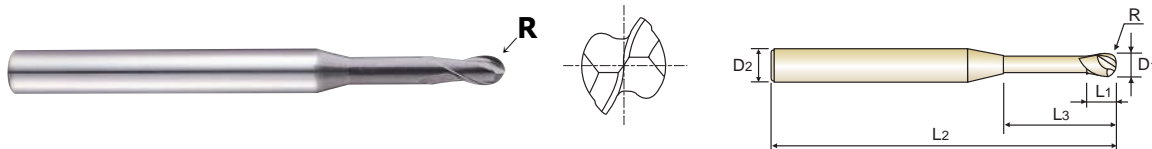
CRX S END MILLS

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	铬镍铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎			○			
						◎			○			
						◎			○			
						◎			○			
						◎			○			

硬质合金, 2刃 长颈 球头 DLC 涂层
CARBIDE, 2 FLUTE LONG NECK BALL NOSE DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
 - ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属材料或碳纤维, 玻璃等非金属材料设计
 - ▶ 使用±5μm以下精确的半径公差(小于R3)
 - ▶ 由于切削刃的镜面研磨具有出众的表面粗糙度
 - ▶ 通过双重脖颈可进行更高的硬度, 最小的振动的加工(R0.5以下)
- ▶ Applied YG-1's diamond film coating(DLC)
 - ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
 - ▶ Tight Radius tolerance is applied ($\pm 0.005\text{mm}$ tolerance under R3).
 - ▶ Excellent surface roughness thanks to Mirror Face of cutting edges
 - ▶ High strength and minimized vibration are available due to two step taper neck(under R0.5).



R0.25-R3 R4-R6

单位(Unit) : mm

型号 EDP No.	球头半径 Radius of Ball Nose R	刃部直径 Mill Diameter D1	柄部直径 Shank Diameter D2	刃长 Length of Cut L1	颈长 Length Below Shank L3	全长 Overall Length L2
SGED2700502	R0.25	0.5	4	0.5	2	45
SGED2700504	R0.25	0.5	4	0.5	4	45
SGED2700506	R0.25	0.5	4	0.5	6	45
SGED2700508	R0.25	0.5	4	0.5	8	45
SGED2700510	R0.25	0.5	4	0.5	10	45
SGED2700602	R0.3	0.6	4	0.6	2	45
SGED2700604	R0.3	0.6	4	0.6	4	45
SGED2700606	R0.3	0.6	4	0.6	6	45
SGED2700608	R0.3	0.6	4	0.6	8	45
SGED2700610	R0.3	0.6	4	0.6	10	45
SGED2700804	R0.4	0.8	4	0.8	4	45
SGED2700806	R0.4	0.8	4	0.8	6	45
SGED2700808	R0.4	0.8	4	0.8	8	45
SGED2700810	R0.4	0.8	4	0.8	10	45
SGED2700812	R0.4	0.8	4	0.8	12	45
SGED2701004	R0.5	1.0	4	1	4	45
SGED2701006	R0.5	1.0	4	1	6	45
SGED2701008	R0.5	1.0	4	1	8	45
SGED2701010	R0.5	1.0	4	1	10	45
SGED2701012	R0.5	1.0	4	1	12	45
SGED2701506	R0.75	1.5	4	1.5	6	45
SGED2701508	R0.75	1.5	4	1.5	8	45
SGED2701510	R0.75	1.5	4	1.5	10	45
SGED2701512	R0.75	1.5	4	1.5	12	45
SGED2701516	R0.75	1.5	4	1.5	16	50

CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

JET-POWER END MILLS

V7 Mill INOX END MILLS

V7 Mill STEEL END MILLS

ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA

◎ : 优(Excellent) ○ : 良(Good)

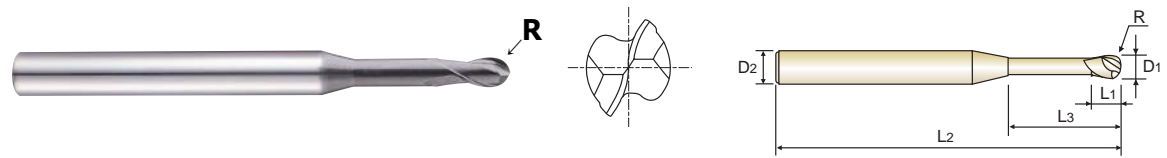
碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70	◎			○			

硬质合金, 2刃 长颈 球头 DLC 涂层

CARBIDE, 2 FLUTE LONG NECK BALL NOSE DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等金属材料设计
- ▶ 使用±5μm以下精确的半径公差(小于R3)
- ▶ 由于切削刃的镜面研磨具有出众的表面粗糙度
- ▶ 通过双重颈颈可进行更高的硬度, 最小的振动的加工(R0.5以下)

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the matters affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ Tight Radius tolerance is applied (±0.005mm tolerance under R3).
- ▶ Excellent surface roughness thanks to Mirror Face of cutting edges
- ▶ High strength and minimized vibration are available due to two step taper neck(under R0.5).



P.766

R0.25-R3 R4-R6 单位(Unit) : mm

型号 EDP No.	球头半径 Radius of Ball Nose R	刃部直径 Mill Diameter D1	柄部直径 Shank Diameter D2	刃长 Length of Cut L1	颈长 Length Below Shank L3	全长 Overall Length L2
SGED2702006	R1.0	2.0	4	3	6	45
SGED2702008	R1.0	2.0	4	3	8	45
SGED2702010	R1.0	2.0	4	3	10	45
SGED2702012	R1.0	2.0	4	3	12	45
SGED2702016	R1.0	2.0	4	3	16	50
SGED2703010	R1.5	3.0	6	4	10	50
SGED2703012	R1.5	3.0	6	4	12	50
SGED2703016	R1.5	3.0	6	4	16	60
SGED2703020	R1.5	3.0	6	4	20	60
SGED2704010	R2.0	4.0	6	5	10	50
SGED2704012	R2.0	4.0	6	5	12	50
SGED2704016	R2.0	4.0	6	5	16	60
SGED2704020	R2.0	4.0	6	5	20	60
SGED2704025	R2.0	4.0	6	5	25	60
SGED2706020	R3.0	6.0	6	8	20	60
SGED2706030	R3.0	6.0	6	8	30	90
SGED2708020	R4.0	8.0	8	10	20	70
SGED2710025	R5.0	10.0	10	12	25	80
SGED2712025	R6.0	12.0	12	14	25	80

尺寸 Size	半径公差 Radius Tolerance (mm)	刃部公差 Mill Dia. Tolerance (mm)	柄部公差 Shank Dia. Tolerance
up to R3	±0.005	0~-0.012	h6
over R3	±0.010	0~-0.015	

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎			○			

CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

JET-POWER END MILLS

V7 Mill INOX END MILLS

V7 Mill STEEL END MILLS

ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA

硬质合金, 2刃 球头 DLC 涂层
CARBIDE, 2 FLUTE BALL NOSE DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等金属材料设计
- ▶ 使用准确的半径公差 $\pm 5\mu\text{m}$ 以下 (小于R3)
- ▶ 由于切削刃的镜面研磨具有出众的表面粗糙度
- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ Tight Radius tolerance is applied ($\pm 0.005\text{mm}$ tolerance under R3).
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CBN END MILLS

i-Xmill END MILLS

X5070 END MILLS

X-POWER END MILLS

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V7 Mill INOX END MILLS

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ALU-POWER END MILLS

CRX S

D-POWER END MILLS

K-2 CARBIDE END MILLS

GENERAL CARBIDE END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

MILLING CUTTERS

TECHNICAL DATA



NG HM
2
DLC
30°
R ±0.005
PLAIN

P.766

单位(Unit) : mm

型号 EDP No.	球头半径 Radius of Ball Nose R (± 0.005)	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
SGED28010	R0.5	1.0	6	2.5	50
SGED28015	R0.75	1.5	6	4	50
SGED28020	R1.0	2.0	6	5	50
SGED28030	R1.5	3.0	6	8	60
SGED28040	R2.0	4.0	6	8	70
SGED28050	R2.5	5.0	6	12	90
SGED28060	R3.0	6.0	6	12	90
SGED28080	R4.0	8.0	8	16	100
SGED28100	R5.0	10.0	10	20	100
SGED28120	R6.0	12.0	12	25	110

尺寸 Size	半径公差 Radius Tolerance (mm)	刃部公差 Mill Dia. Tolerance (mm)	柄部公差 Shank Dia. Tolerance
up to R3	± 0.005	0~-0.012	h6
over R3		0~-0.015	

◎ : 优(Excellent) ○ : 良(Good)

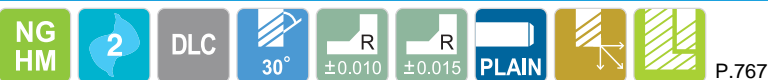
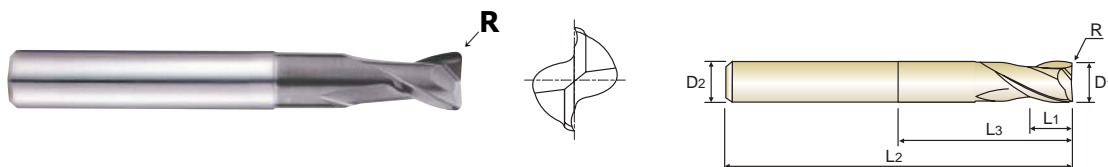
碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎			○			

硬质合金, 2刃 长颈 圆鼻铣刀 DLC 涂层

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳化纤维, 玻璃等非金属材料设计
- ▶ 可以广泛应用于粗加工, 半精加工和精加工

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ Suitable for various cutting application like roughing, semi-finishing and finishing thanks to application



Ø1-Ø6 Ø8-Ø12

单位(Unit) : mm

型号 EDP No.	圆弧半径 Corner Radius	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	颈长 Length Below Shank	全长 Overall Length
	R	D1	D2	L1	L3	L2
SGED290100104	RO.1	1.0	4	1.5	4	45
SGED290100106	RO.1	1.0	4	1.5	6	45
SGED290100108	RO.1	1.0	4	1.5	8	45
SGED290100204	RO.2	1.0	4	1.5	4	45
SGED290100206	RO.2	1.0	4	1.5	6	45
SGED290100208	RO.2	1.0	4	1.5	8	45
SGED290150106	RO.1	1.5	4	2.3	6	45
SGED290150108	RO.1	1.5	4	2.3	8	45
SGED290150110	RO.1	1.5	4	2.3	10	45
SGED290150206	RO.2	1.5	4	2.3	6	45
SGED290150208	RO.2	1.5	4	2.3	8	45
SGED290150210	RO.2	1.5	4	2.3	10	45
SGED290200208	RO.2	2.0	4	3	8	45
SGED290200210	RO.2	2.0	4	3	10	45
SGED290200212	RO.2	2.0	4	3	12	45
SGED290200508	RO.5	2.0	4	3	8	45
SGED290200510	RO.5	2.0	4	3	10	45
SGED290200512	RO.5	2.0	4	3	12	45
SGED290300210	RO.2	3.0	6	4.5	10	50
SGED290300212	RO.2	3.0	6	4.5	12	50
SGED290300216	RO.2	3.0	6	4.5	16	60
SGED290300310	RO.3	3.0	6	4.5	10	50
SGED290300312	RO.3	3.0	6	4.5	12	50
SGED290300316	RO.3	3.0	6	4.5	16	60

◎ : 优(Excellent) ○ : 良(Good)

碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎			○			

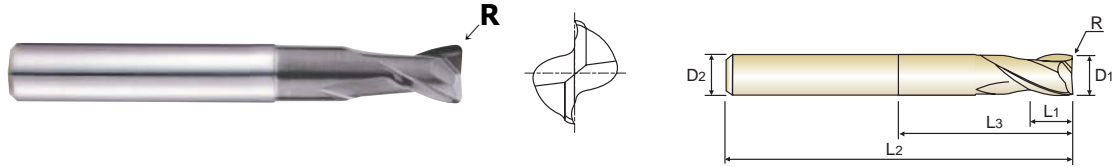
- CBN END MILLS
- i-Mill END MILLS
- X5070 END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
- V7 Mill INOX END MILLS
- V7 Mill STEEL END MILLS
- ALU-POWER END MILLS
- CRX S**
- D-POWER END MILLS
- K-2 CARBIDE END MILLS
- GENERAL CARBIDE END MILLS
- TANK-POWER END MILLS
- GENERAL HSS END MILLS
- MILLING CUTTERS
- TECHNICAL DATA



硬质合金, 2刃 长颈 圆鼻铣刀 DLC 涂层
CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等金属材料设计
- ▶ 可以广泛应用于粗加工, 半精加工和精加工

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ Suitable for various cutting application like roughing, semi-finishing and finishing thanks to application



NG HM
2
DLC
30°
R ±0.010
R ±0.015
PLAIN
P.767

Ø1-Ø6 Ø8-Ø12

单位(Unit) : mm

型号 EDP No.	圆弧半径 Corner Radius R	刃部直径 Mill Diameter D1	柄部直径 Shank Diameter D2	刃长 Length of Cut L1	颈长 Length Below Shank L3	全长 Overall Length L2
SGED290400212	RO.2	4.0	6	6	12	50
SGED290400216	RO.2	4.0	6	6	16	60
SGED290400220	RO.2	4.0	6	6	20	60
SGED290400512	RO.5	4.0	6	6	12	50
SGED290400516	RO.5	4.0	6	6	16	60
SGED290400520	RO.5	4.0	6	6	20	60
SGED290600320	RO.3	6.0	6	9	20	60
SGED290600520	RO.5	6.0	6	9	20	60
SGED290601020	R1.0	6.0	6	9	20	60
SGED290800325	RO.3	8.0	8	12	25	65
SGED290800525	RO.5	8.0	8	12	25	65
SGED290801025	R1.0	8.0	8	12	25	65
SGED291000530	RO.5	10.0	10	15	30	70
SGED291001030	R1.0	10.0	10	15	30	70
SGED291200532	RO.5	12.0	12	18	32	80
SGED291201032	R1.0	12.0	12	18	32	80

尺寸 Size	圆弧角公差 Corner Radius Tolerance (mm)	刃部公差 Mill Dia. Tolerance (mm)	柄部公差 Shank Dia. Tolerance
up to Ø6	±0.010	0~-0.012	h6
over Ø6	±0.015	0~-0.015	

◎ : 优(Excellent) ○ : 良(Good)

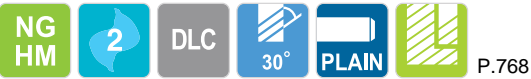
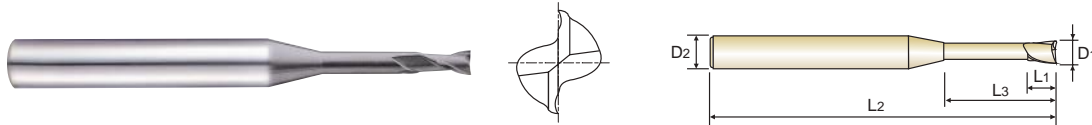
碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铬铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70	◎			○			

- CBN END MILLS
- i-Xmill END MILLS
- X5070 END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
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- CRX S
- D-POWER END MILLS
- K-2 CARBIDE END MILLS
- GENERAL CARBIDE END MILLS
- TANK-POWER END MILLS
- GENERAL HSS END MILLS
- MILLING CUTTERS
- TECHNICAL DATA

硬质合金, 2刃 长颈 DLC 涂层
CARBIDE, 2 FLUTE LONG NECK DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等非金属材料设计
- ▶ 通过双重颈颈可进行更高的硬度, 最小的振动的加工($\phi 1.0$ 以下)
- ▶ 由于特殊的沟槽能够减少毛刺, 因此可达到出众的表面粗糙度

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the matters affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ High toughness and minimized vibration are available due to two step taper neck(under dia. 1.0mm)
- ▶ Excellent surface roughness due to special flute geometry for removing burrs



单位(Unit) : mm

型号 EDP No.	刃部直径 Mill Diameter D1	柄部直径 Shank Diameter D2	刃长 Length of Cut L1	颈长 Length Below Shank L3	全长 Overall Length L2
SGED3000502	0.5	4	0.7	2	45
SGED3000504	0.5	4	0.7	4	45
SGED3000506	0.5	4	0.7	6	45
SGED3000508	0.5	4	0.7	8	45
SGED3000510	0.5	4	0.7	10	45
SGED3000602	0.6	4	0.9	2	45
SGED3000604	0.6	4	0.9	4	45
SGED3000606	0.6	4	0.9	6	45
SGED3000608	0.6	4	0.9	8	45
SGED3000610	0.6	4	0.9	10	45
SGED3000804	0.8	4	1.2	4	45
SGED3000806	0.8	4	1.2	6	45
SGED3000808	0.8	4	1.2	8	45
SGED3000810	0.8	4	1.2	10	45
SGED3000812	0.8	4	1.2	12	45
SGED3001004	1.0	4	1.5	4	45
SGED3001006	1.0	4	1.5	6	45
SGED3001008	1.0	4	1.5	8	45
SGED3001010	1.0	4	1.5	10	45
SGED3001012	1.0	4	1.5	12	45
SGED3001506	1.5	4	2.3	6	45
SGED3001508	1.5	4	2.3	8	45
SGED3001510	1.5	4	2.3	10	45
SGED3001512	1.5	4	2.3	12	45
SGED3001516	1.5	4	2.3	16	50

◎ : 优(Excellent) ○ : 良(Good)

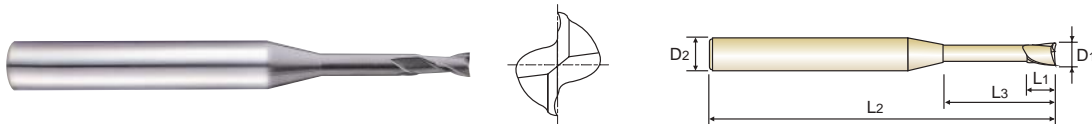
碳钢	合金钢	预硬钢	硬化钢		高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍铁合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70	◎			○			



硬质合金, 2刃 长颈 DLC 涂层
CARBIDE, 2 FLUTE LONG NECK DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等金属材料设计
- ▶ 通过双重脖颈可进行更高的硬度, 最小的振动的加工($\phi 1.0$ 以下)
- ▶ 由于特殊的沟槽能够减少毛刺, 因此可达到出众的表面粗糙度

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ High toughness and minimized vibration are available due to two step taper neck(under dia. 1.0mm)
- ▶ Excellent surface roughness due to special flute geometry for removing burrs



单位(Unit) : mm

型号 EDP No.	刃部直径 Mill Diameter D1	柄部直径 Shank Diameter D2	刃长 Length of Cut L1	颈长 Length Below Shank L3	全长 Overall Length L2
SGED3002008	2.0	4	3	8	45
SGED3002010	2.0	4	3	10	45
SGED3002012	2.0	4	3	12	45
SGED3002016	2.0	4	3	16	50
SGED3003008	3.0	6	4.5	8	50
SGED3003010	3.0	6	4.5	10	50
SGED3003012	3.0	6	4.5	12	50
SGED3003016	3.0	6	4.5	16	60
SGED3003020	3.0	6	4.5	20	60
SGED3004010	4.0	6	6	10	50
SGED3004012	4.0	6	6	12	50
SGED3004016	4.0	6	6	16	60
SGED3004020	4.0	6	6	20	60
SGED3004025	4.0	6	6	25	60
SGED3006020	6.0	6	8	20	60
SGED3006030	6.0	6	8	30	90
SGED3008020	8.0	8	12	20	70
SGED3010025	10.0	10	15	25	80
SGED3012030	12.0	12	18	30	80

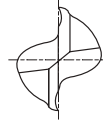
尺寸 Size	刃部公差 Mill Dia. Tolerance (mm)	柄部公差 Shank Dia. Tolerance
up to $\phi 6$	0~-0.012	h6
over $\phi 6$	0~-0.015	

碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70	◎			○			

硬质合金, 2刃 DLC 涂层
CARBIDE, 2 FLUTE DLC COATING

- ▶ 使用YG-1金刚石涂层(DLC)
- ▶ 为铜, 铜合金, 软石墨, 硬塑料, 非金属合成材料或碳纤维, 玻璃等非金属材料设计
- ▶ 由于特殊的沟槽能够减少毛刺, 因此可达到出众的表面粗糙度

- ▶ Applied YG-1's diamond film coating(DLC)
- ▶ Designed to copper, copper alloys soft graphites, reinforced plastics and the materials affiliated with non-ferrous metals & nonmetals like carbon fiber and glass.
- ▶ Excellent surface roughness thanks to special flute geometry for reduced burr



单位(Unit) : mm				
型号 EDP No.	刃部直径 Mill Diameter	柄部直径 Shank Diameter	刃长 Length of Cut	全长 Overall Length
SGED31010	1.0	6	2.5	50
SGED31015	1.5	6	4	50
SGED31020	2.0	6	6	50
SGED31025	2.5	6	8	50
SGED31030	3.0	6	10	50
SGED31040	4.0	6	12	50
SGED31050	5.0	6	15	60
SGED31060	6.0	6	15	60
SGED31080	8.0	8	20	65
SGED31100	10.0	10	25	70
SGED31120	12.0	12	30	80

尺寸 Size	刃部公差 Mill Dia. Tolerance (mm)	柄部公差 Shank Dia. Tolerance
up to Ø6	0~-0.012	h6
over Ø6	0~-0.015	

◎ : 优(Excellent) ○ : 良(Good)												
碳钢 Carbon Steels	合金钢 Alloy Steels	预硬钢 Prehardened Steels	硬化钢 Hardened Steels		高硬钢 High Hardened Steels	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	钴镍铁合金 Inconel
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70	◎			○			



**CRX S
END MILLS**

推荐的切削条件

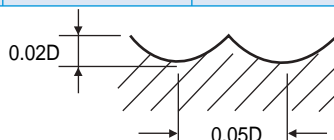
RECOMMENDED CUTTING CONDITIONS

硬质合金, 2刃 长颈 球头 DLC 涂层

CARBIDE, 2 FLUTE LONG NECK BALL NOSE DLC COATING

SGED27 SERIES

材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
0.5	50000	500	50000	500	50000	380
0.6	50000	700	50000	650	50000	450
0.8	50000	850	44000	770	50000	600
1.0	50000	1000	35000	770	50000	630
2.0	39600	1716	19800	780	50000	1250
3.0	26000	1584	13000	720	39000	1512
4.0	19000	1606	9500	730	28500	1533
5.0	15400	1606	7700	730	23100	1533
6.0	13000	1584	6500	720	19500	1512
8.0	10000	1584	5000	720	15000	1512
10.0	8000	1606	4000	730	12000	1533
12.0	6600	1606	3300	730	9900	1533



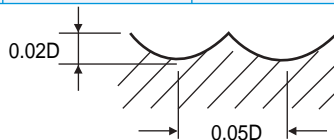
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 2刃 球头 DLC 涂层

CARBIDE, 2 FLUTE BALL NOSE DLC COATING

SGED28 SERIES

材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
1.0	50000	1000	42000	930	50000	750
2.0	47520	2068	24000	940	50000	1500
3.0	31200	1914	15800	870	47400	1800
4.0	22800	1936	11500	880	34500	1825
5.0	18500	1936	9300	880	28000	1825
6.0	15600	1892	7800	860	23500	1800
8.0	12000	1892	6000	860	18000	1800
10.0	9600	1936	4800	880	14500	1825
12.0	8000	1914	4000	870	12000	1825

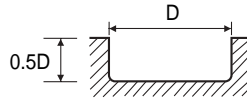


RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 2刃 长颈 圆鼻铣刀 DLC 涂层 - 开槽
 CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS DLC COATING - SLOTTING

SGED29 SERIES

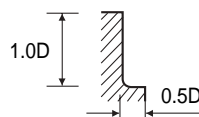
材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
1.0	50000	1000	50000	1000	50000	700
2.0	50000	1800	50000	1700	50000	1400
3.0	50000	2600	44500	2350	50000	2100
4.0	50000	3680	33400	2100	50000	2600
5.0	50000	4300	27000	2100	50000	3400
6.0	44500	4670	22300	2100	50000	4200
8.0	33400	4560	16700	2100	50000	5700
10.0	26700	4770	13370	2100	40000	5500
12.0	22200	4660	11100	2100	33500	5600


 RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)

 硬质合金, 2刃 长颈 圆鼻铣刀 DLC 涂层 - 侧铣
 CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS DLC COATING - SIDE CUTTING

SGED29 SERIES

材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
1.0	50000	1400	50000	1200	50000	1200
2.0	50000	2800	50000	2500	50000	2500
3.0	50000	4200	50000	3700	50000	3700
4.0	50000	5300	50000	4700	50000	5000
5.0	50000	6500	40000	4800	50000	6500
6.0	50000	7850	33400	4900	50000	7500
8.0	37500	7850	25000	4700	50000	8400
10.0	30000	7850	20000	4800	40000	8400
12.0	25000	7850	16700	4700	33500	8400


 RPM = rev./min. (转速/分钟)
 FEED = mm/min. (进给量)
CBN
END MILLSi-Xmill
END MILLSX5070
END MILLSX-POWER
END MILLSJET-POWER
END MILLSV7 Mill INOX
END MILLSV7 Mill STEEL
END MILLSALU-POWER
END MILLS

CRX S

D-POWER
END MILLSK-2 CARBIDE
END MILLSGENERAL
CARBIDE
END MILLSTANK-POWER
END MILLSGENERAL
HSS
END MILLSMILLING
CUTTERSTECHNICAL
DATA



**CRX S
END MILLS**

推荐的切削条件

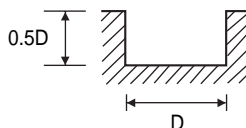
RECOMMENDED CUTTING CONDITIONS

硬质合金, 2刃 DLC 涂层 - 开槽

CARBIDE, 2 FLUTE DLC COATING - SLOTTING

SGED30, SGED31 SERIES

材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
0.5	50000	160	50000	160	50000	140
0.6	50000	200	50000	190	50000	170
0.8	50000	260	43000	225	50000	220
1.0	50000	330	35000	230	50000	280
2.0	25400	330	12700	165	38100	429
3.0	17600	530	8700	265	26100	689
4.0	13000	560	6500	280	19500	728
6.0	8700	560	4350	280	13050	728
8.0	6600	560	3300	280	9900	728
10.0	5200	560	2600	280	7800	728
12.0	4400	570	2200	285	6600	741



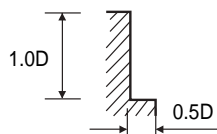
RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)

硬质合金, 2刃 DLC 涂层 - 侧铣

CARBIDE, 2 FLUTE DLC COATING - SIDE CUTTING

SGED30, SGED31 SERIES

材质	锻造铝		纯铜		热塑性塑料	
MATERIAL	WROUGHT ALUMINIUM		UNALLOYED COPPER		THERMOPLASTICS	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED
0.5	50000	170	50000	160	50000	130
0.6	50000	210	45000	175	50000	160
0.8	50000	280	34000	170	50000	210
1.0	41250	288	27500	180	50000	263
2.0	20550	288	13700	180	27400	288
3.0	13950	456	9300	285	18600	456
4.0	10500	480	7000	300	14000	480
6.0	7200	512	4800	320	9600	512
8.0	5250	480	3500	300	7000	480
10.0	4200	480	2800	300	5600	480
12.0	3600	512	2400	320	4800	512



RPM = rev./min. (转速/分钟)
FEED = mm/min. (进给量)