



Твердосплавные фрезы

2025



A

Grooving

Description of Icons

B

Threading

材质 Materials



极细超微粒硬质合金
Ultra Micro Grain Carbide

周刃后角形式 OD Relief Angle Type



圆弧后角
OD Relief Angle Type



直线后角
Straight line Relief Angle

C

Turning

涂层种类 Coating



氮硅化钛+X纳米涂层
TiSiN+X

可加工硬度 Cutting Possibility of Work Material Hardness



可加工至HRC55度
< 55HRC



氮硅铬铝纳米涂层
AlCrSiN



可加工至HRC65度
< 65HRC

D

Drilling

刃角形状 Corner Shape



保护角型
Protection Edge

刃数 Number of Flutes



2刃
2 Flute



4刃
4 Flute



圆角型
Corner Radius



6刃
6 Flute

E

Milling

螺旋角 Helix Angle



0度螺旋角
0° Helix Angle



15度螺旋角
15° Helix Angle



30度螺旋角
30° Helix Angle



45度螺旋角
45° Helix Angle



52度螺旋角
52° Helix Angle

F

Taps

G

Special Tools

H

Technical Info

E001



Coating materials for solid end mills

涂层的特性

Feature of coating layer

涂层名称 Coating name	AHX	ATX
成分 Components	TiSiN+X系	AlCrSi系
颜色 Color	金黄色	黑灰色
涂层结构 Coating structure		
特点 Properties	超高硬度、 超抗氧化性、 高密着强度 Super hardness、 super oxidation resistance、 High adhesion	超抗氧化性、 低摩擦 Super oxidation resistance、 Low friction
硬度 Hardness	3550(HV)	3200(HV)
摩擦系数 Coefficient of friction	0.36	0.32
氧化开始温度 Oxidation start temperature	1200	1100
涂层厚度 Coating thickness	2-4um	2-4um

A

Grooving

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Drilling

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Milling

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Taps

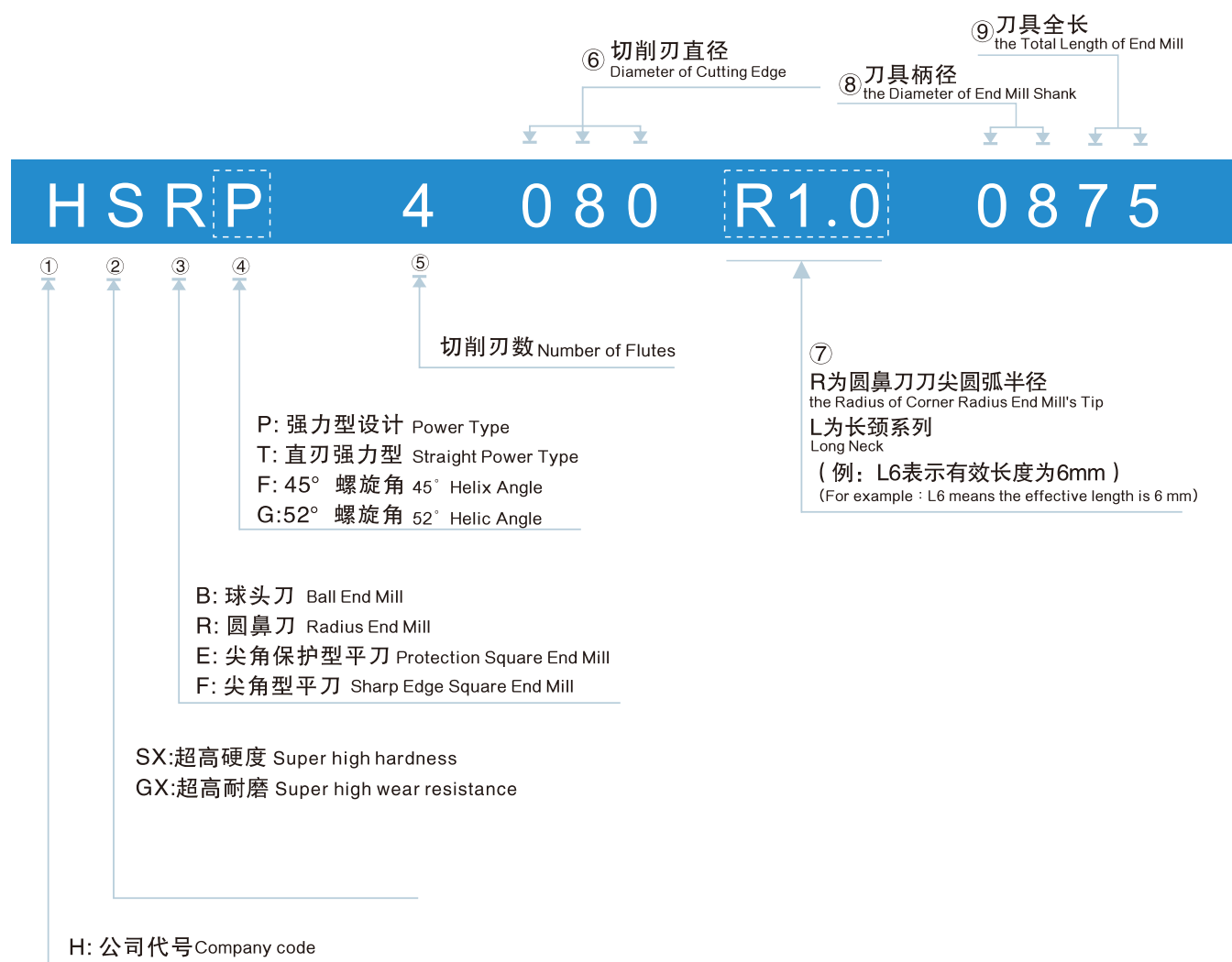
G

Special Tools

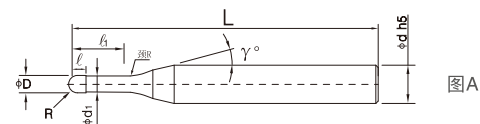
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Technical Info

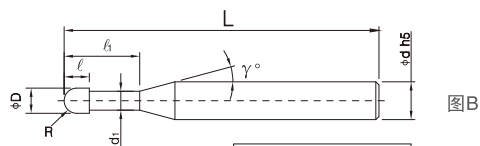
Cutting tool type marking guidelines



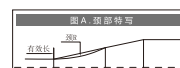
HSXB 2-Flute Ball End Mill



图A



图B



图A 球部特写



ϕD	D Tolerance
$D \leq 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018

ϕD	R Tolerance
$D \leq 8$	± 0.005
$D > 8$	± 0.008

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	R	ℓ	ℓ_1	ϕd_1	R	$\gamma / ^\circ$	L	ϕd	Pic	Stock
HSXB2004 0450	0.4	0.2	0.6	-	-	2	12	50	4	A	▲
HSXB2005 0450	0.5	0.25	0.8	-	-	2	12	50	4	A	▲
HSXB2006 0450	0.6	0.3	0.9	-	-	4	12	50	4	A	▲
HSXB2008 0450	0.8	0.4	1.2	-	-	4	12	50	4	A	▲
HSXB2010 0450	1	0.5	0.8	2	0.94	4	12	50	4	A	▲
HSXB2010 0650	1	0.5	0.8	2.5	0.94	4	12	50	6	A	▲
HSXB2010 0660	1	0.5	0.8	2.5	0.94	4	12	60	6	A	▲
HSXB2010 0675	1	0.5	0.8	2.5	0.94	4	12	75	6	A	▲
HSXB2010 06100	1	0.5	0.8	2.5	0.94	4	12	100	6	A	△
HSXB2015 0450	1.5	0.75	1.2	3	1.42	-	11	50	4	B	▲
HSXB2015 0650	1.5	0.75	1.2	4	1.42	-	11	50	6	B	▲
HSXB2015 0660	1.5	0.75	1.2	4	1.42	-	11	60	6	B	▲
HSXB2015 0675	1.5	0.75	1.2	4	1.42	-	11	75	6	B	▲
HSXB2015 06100	1.5	0.75	1.2	4	1.42	-	11	100	6	B	△
HSXB2020 0450	2	1	1.6	4	1.9	-	11	50	4	B	▲
HSXB2020 0650	2	1	1.6	6	1.9	-	11	50	6	B	▲
HSXB2020 0660	2	1	1.6	6	1.9	-	11	60	6	B	▲
HSXB2020 0675	2	1	1.6	6	1.9	-	11	75	6	B	▲
HSXB2020 06100	2	1	1.6	6	1.9	-	11	100	6	B	△
HSXB2025 0450	2.5	1.25	2	5	2.4	-	11	50	4	B	▲
HSXB2025 0650	2.5	1.25	2	7	2.4	-	11	50	6	B	▲
HSXB2025 0660	2.5	1.25	2	7	2.4	-	11	60	6	B	▲
HSXB2025 0675	2.5	1.25	2	7	2.4	-	11	75	6	B	▲
HSXB2025 06100	2.5	1.25	2	7	2.4	-	11	100	6	B	△
HSXB2030 0450	3	1.5	2.4	6	2.9	-	11	50	4	B	▲
HSXB2030 0650	3	1.5	2.4	8	2.9	-	11	50	6	B	▲
HSXB2030 0660	3	1.5	2.4	8	2.9	-	11	60	6	B	▲
HSXB2030 0675	3	1.5	2.4	8	2.9	-	11	75	6	B	▲



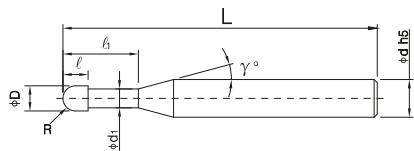
E004

HSXB 2-Flute Ball End Mill

单位:mm

型 号	刃径	球半径	刃长	有效长	颈R	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	R	φd ₁	γ/°	L	φd	Pic	Stock
HSXB2030 06100	3	1.5	2.4	8	-	2.9	11	100	6	B	△
HSXB2040 0450	4	2	6	-	-	-	-	50	4	B	▲
HSXB2040 0475	4	2	6	-	-	-	-	75	4	B	▲
HSXB2040 0650	4	2	3.2	10	-	3.9	11	50	6	B	▲
HSXB2040 0660	4	2	3.2	10	-	3.9	11	60	6	B	▲
HSXB2040 0675	4	2	3.2	10	-	3.9	11	75	6	B	▲
HSXB2040 06100	4	2	3.2	10	-	3.9	11	100	6	B	△
HSXB2050 0650	5	2.5	4	12	-	4.85	11	50	6	B	▲
HSXB2050 0660	5	2.5	4	12	-	4.85	11	60	6	B	▲
HSXB2050 0675	5	2.5	4	12	-	4.85	11	75	6	B	▲
HSXB2050 06100	5	2.5	4	12	-	4.85	11	100	6	B	△
HSXB2060 0650	6	3	9	-	-	-	-	50	6	B	▲
HSXB2060 0660	6	3	9	-	-	-	-	60	6	B	▲
HSXB2060 0675	6	3	9	-	-	-	-	75	6	B	▲
HSXB2060 06100	6	3	9	-	-	-	-	100	6	B	▲
HSXB2080 0860	8	4	12	-	-	-	-	60	8	B	▲
HSXB2080 0875	8	4	12	-	-	-	-	75	8	B	▲
HSXB2080 08100	8	4	12	-	-	-	-	100	8	B	▲
HSXB2080 08125	8	4	12	-	-	-	-	125	8	B	▲
HSXB2080 08150	8	4	12	-	-	-	-	150	8	B	▲
HSXB2100 1075	10	5	15	-	-	-	-	75	10	B	▲
HSXB2100 10100	10	5	15	-	-	-	-	100	10	B	▲
HSXB2100 10125	10	5	15	-	-	-	-	125	10	B	△
HSXB2100 10150	10	5	15	-	-	-	-	150	10	B	△
HSXB2120 1275	12	6	18	-	-	-	-	75	12	B	△
HSXB2120 12100	12	6	18	-	-	-	-	100	12	B	△
HSXB2120 12125	12	6	18	-	-	-	-	125	12	B	△
HSXB2120 12150	12	6	18	-	-	-	-	150	12	B	△
HSXB2160 16100	16	8	24	-	-	-	-	100	16	B	△
HSXB2160 16150	16	8	24	-	-	-	-	150	16	B	△

HSXB 2-Flute Power Ball End Mill



Carbide

Coating

2

15°

Helix Angle

Relief Angle

<65 HRC

UMG

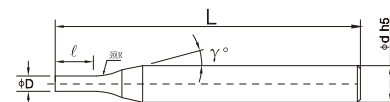
AHX

∅ D	D Tolerance	∅ D	R Tolerance
D<3	0~-0.010	D<8	±0.005
3<D≤6	0~-0.012	D>8	±0.008
6<D≤10	0~-0.015		
10<D≤18	0~-0.018		

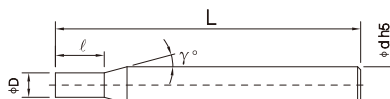
单位:mm

型 号	刃径	球半径	刃长	有效长	首径	全长	柄径	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	L	φd	Stock
HSXBP2060 0660	6	3	4.8	12	5.85	60	6	▲
HSXBP2060 0675	6	3	4.8	12	5.85	75	6	▲
HSXBP2080 0860	8	4	6.4	16	7.8	60	8	▲
HSXBP2080 0875	8	4	6.4	16	7.8	75	8	▲
HSXBP2080 08100	8	4	6.4	16	7.8	100	8	▲
HSXBP2100 1075	10	5	8	20	9.8	75	10	▲
HSXBP2100 10100	10	5	8	20	9.8	100	10	▲
HSXBP2120 1275	12	6	9.6	24	11.7	75	12	▲
HSXBP2120 12100	12	6	9.6	24	11.7	100	12	▲
HSXBP2160 16100	16	8	12.8	32	15.7	100	16	△
HSXBP2160 16150	16	8	12.8	32	15.7	150	16	△

HSXB 2-Flute End Mill



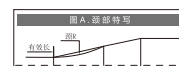
图A



图B



∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	∅D	ℓ	R	γ/°	L	∅d	Pic	Stock
HSXE2004 0450	0.4	1.2	2	12	50	4	A	▲
HSXE2005 0450	0.5	1.5	2	12	50	4	A	▲
HSXE2006 0450	0.6	1.8	4	12	50	4	A	▲
HSXE2008 0450	0.8	2.4	4	12	50	4	A	▲
HSXE2010 0450	1	3	4	12	50	4	A	▲
HSXE2010 0650	1	3	4	12	50	6	A	▲
HSXE2015 0450	1.5	4	-	11	50	4	B	▲
HSXE2015 0650	1.5	4	-	11	50	6	B	▲
HSXE2020 0450	2	6	-	11	50	4	B	▲
HSXE2020 0650	2	6	-	11	50	6	B	▲
HSXE2025 0450	2.5	8	-	11	50	4	B	▲
HSXE2025 0650	2.5	8	-	11	50	6	B	▲
HSXE2030 0450	3	8	-	11	50	4	B	▲
HSXE2030 0650	3	8	-	11	50	6	B	▲
HSXE2030 0660	3	8	-	11	60	6	B	▲
HSXE2030 0675	3	12	-	11	75	6	B	▲
HSXE2040 0450	4	11	-	-	50	4	B	▲
HSXE2040 0475	4	15	-	-	75	4	B	▲
HSXE2040 0650	4	11	-	11	50	6	B	▲
HSXE2040 0660	4	11	-	11	60	6	B	▲
HSXE2040 0675	4	15	-	11	75	6	B	▲
HSXE2050 0650	5	13	-	11	50	6	B	▲
HSXE2050 0675	5	18	-	11	75	6	B	▲
HSXE2060 0650	6	16	-	-	50	6	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

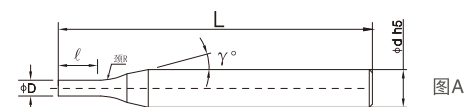
● 非常合适 ○ 适合

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~45 HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○	○	○	○	○	○			○	○	

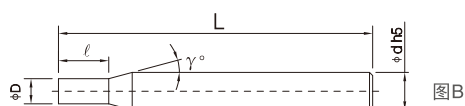
E007



HSXB 2-Flute End Mill

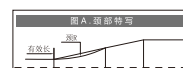


图A



图B

Ø D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HSXE2060 0660	6	16	-	-	60	6	B	▲
HSXE2060 0675	6	20	-	-	75	6	B	▲
HSXE2060 06100	6	20	-	-	100	6	B	▲
HSXE2080 0860	8	20	-	-	60	8	B	▲
HSXE2080 0875	8	20	-	-	75	8	B	▲
HSXE2080 08100	8	25	-	-	100	8	B	▲
HSXE2100 1075	10	25	-	-	75	10	B	▲
HSXE2100 10100	10	30	-	-	100	10	B	▲
HSXE2120 1275	12	30	-	-	75	12	B	▲
HSXE2120 12100	12	35	-	-	100	12	B	▲
HSXE2140 1475	14	32	-	-	75	14	B	△
HSXE2140 14100	14	40	-	-	100	14	B	△
HSXE2160 16100	16	45	-	-	100	16	B	△
HSXE2160 16150	16	50	-	-	150	16	B	△
HSXE2200 20100	20	45	-	-	100	20	B	△
HSXE2200 20150	20	55	-	-	150	20	B	△

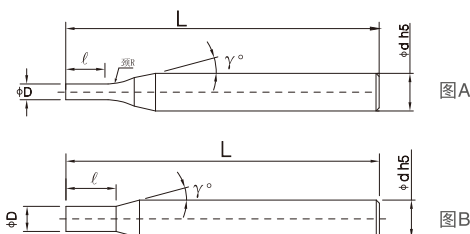
可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

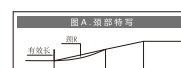
○ 非常合适 ○ 适合

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS	~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	球墨铸铁 DUCTILE CAST IRON ~350HB						
○	○	○	○	○	○	○	○	○			○	○	

HSXB 4-Flute End Mill



φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HSXE4010 0450	1	3	4	12	50	4	A	▲
HSXE4010 0650	1	3	4	12	50	6	A	▲
HSXE4015 0450	1.5	4	-	11	50	4	B	▲
HSXE4015 0650	1.5	4	-	11	50	6	B	▲
HSXE4020 0450	2	6	-	11	50	4	B	▲
HSXE4020 0650	2	6	-	11	50	6	B	▲
HSXE4025 0450	2.5	8	-	11	50	4	B	▲
HSXE4025 0650	2.5	8	-	11	50	6	B	▲
HSXE4030 0450	3	8	-	11	50	4	B	▲
HSXE4030 0650	3	8	-	11	50	6	B	▲
HSXE4030 0660	3	8	-	11	60	6	B	▲
HSXE4030 0675	3	12	-	11	75	6	B	▲
HSXE4040 0450	4	11	-	-	50	4	B	▲
HSXE4040 0475	4	15	-	-	75	4	B	▲
HSXE4040 0650	4	11	-	11	50	6	B	▲
HSXE4040 0660	4	11	-	11	60	6	B	▲
HSXE4040 0675	4	15	-	11	75	6	B	▲
HSXE4050 0650	5	13	-	11	50	6	B	▲
HSXE4050 0675	5	18	-	11	75	6	B	▲
HSXE4060 0650	6	16	-	-	50	6	B	▲
HSXE4060 0660	6	16	-	-	60	6	B	▲
HSXE4060 0675	6	20	-	-	75	6	B	▲
HSXE4060 06100	6	20	-	-	100	6	B	▲
HSXE4080 0860	8	20	-	-	60	8	B	▲
HSXE4080 0875	8	20	-	-	75	8	B	▲
HSXE4080 08100	8	25	-	-	100	8	B	▲

HSXB 4-Flute End Mill

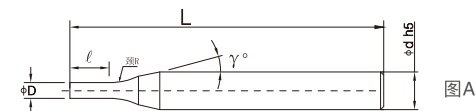


图 A

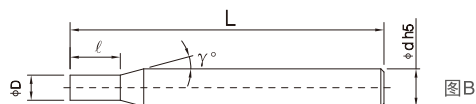


图 B

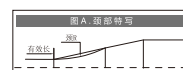


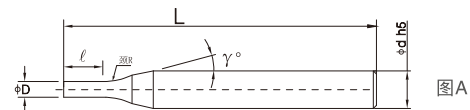
图 A: 端面符号

$\varnothing D$	D Tolerance
$D \leq 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018

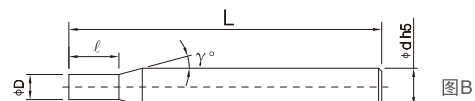
单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	$\varnothing D$	l	R	$\gamma / ^\circ$	L	$\varnothing d$	Pic	Stock
HSXE4100 1075	10	25	-	-	75	10	B	▲
HSXE4100 10100	10	-	-	-	100	10	B	▲
HSXE4120 1275	12	30	-	-	75	12	B	▲
HSXE4120 12100	12	35	-	-	100	12	B	▲
HSXE4140 1475	14	32	-	-	75	14	B	▲
HSXE4140 14100	14	40	-	-	100	14	B	▲
HSXE4160 16100	16	45	-	-	100	16	B	▲
HSXE4160 16150	16	50	-	-	150	16	B	▲
HSXE4200 20100	20	45	-	-	100	20	B	▲
HSXE4200 20150	20	55	-	-	150	20	B	▲

HSXB 4-Flute End Mill-45°



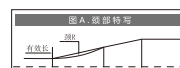
图A



图B



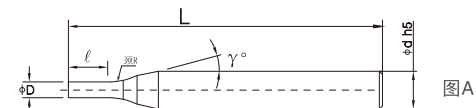
Ø D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



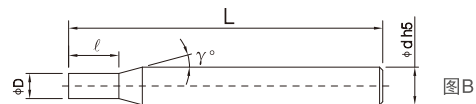
型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HSXEF4010 0450	1	3	4	12	50	4	A	▲
HSXEF4010 0650	1	3	4	12	50	6	A	▲
HSXEF4015 0450	1.5	4	-	11	50	4	B	▲
HSXEF4015 0650	1.5	4	-	11	50	6	B	▲
HSXEF4020 0450	2	6	-	11	50	4	B	▲
HSXEF4020 0650	2	6	-	11	50	6	B	▲
HSXEF4025 0450	2.5	8	-	11	50	4	B	▲
HSXEF4025 0650	2.5	8	-	11	50	6	B	▲
HSXEF4030 0450	3	8	-	11	50	4	B	▲
HSXEF4030 0650	3	8	-	11	50	6	B	▲
HSXEF4030 0660	3	8	-	11	60	6	B	▲
HSXEF4030 0675	3	12	-	11	75	6	B	▲
HSXEF4040 0450	4	11	-	-	50	4	B	▲
HSXEF4040 0475	4	15	-	-	75	4	B	▲
HSXEF4040 0650	4	11	-	11	50	6	B	▲
HSXEF4040 0660	4	11	-	11	60	6	B	▲
HSXEF4040 0675	4	15	-	11	75	6	B	▲
HSXEF4050 0650	5	13	-	11	50	6	B	▲
HSXEF4050 0675	5	18	-	11	75	6	B	▲
HSXEF4060 0650	6	16	-	-	50	6	B	▲
HSXEF4060 0660	6	16	-	-	60	6	B	▲
HSXEF4060 0675	6	20	-	-	75	6	B	▲
HSXEF4060 06100	6	20	-	-	100	6	B	▲

HSXB 2-Flute Ball End Mill

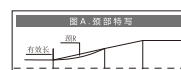
HSXEF 4-Flute End Mill-45°



图A



图B



∅ D	D Tolerance
D < 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	∅D	ℓ	R	γ/°	L	∅d	Pic	Stock
HSXEF4080 0860	8	20	-	-	60	8	B	▲
HSXEF4080 0875	8	20	-	-	75	8	B	▲
HSXEF4080 08100	8	25	-	-	100	8	B	▲
HSXEF4080 08125	8	28	-	-	125	8	B	▲
HSXEF4080 08150	8	28	-	-	150	8	B	▲
HSXEF4100 1075	10	25	-	-	75	10	B	▲
HSXEF4100 10100	10	30	-	-	100	10	B	▲
HSXEF4100 10125	10	35	-	-	125	10	B	▲
HSXEF4100 10150	10	35	-	-	150	10	B	▲
HSXEF4120 1275	12	30	-	-	75	12	B	▲
HSXEF4120 12100	12	35	-	-	100	12	B	▲
HSXEF4120 12125	12	42	-	-	125	12	B	▲
HSXEF4120 12150	12	42	-	-	150	12	B	▲
HSXEF4140 1475	14	32	-	-	75	14	B	△
HSXEF4140 14100	14	40	-	-	100	14	B	△
HSXEF4160 16100	16	45	-	-	100	16	B	△
HSXEF4160 16150	16	50	-	-	150	16	B	△
HSXEF4200 20100	20	45	-	-	100	20	B	△
HSXEF4200 20150	20	55	-	-	150	20	B	△

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常合适 ○ 适合

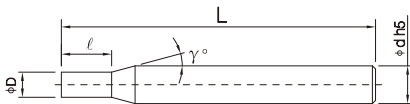
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS	~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	球墨铸铁 DUCTILE CAST IRON						
○	○	○	○	○	○	○	○	○			○	○	



E012

HSXB 2-Flute Ball End Mill

HSXEG 6-Flute End Mill-52°



Ø D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

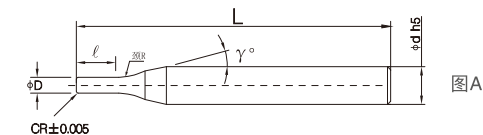
单位:mm

型 号	刃径	刃长	全长	柄径	库存
Type No.	φD	ℓ	L	φd	Stock
HSXEG6060 0660	6	18	60	6	▲
HSXEG6060 0675	6	24	75	6	▲
HSXEG6080 0860	8	20	60	8	▲
HSXEG6080 0875	8	32	75	8	▲
HSXEG6100 1075	10	30	75	10	▲
HSXEG6100 10100	10	40	100	10	▲
HSXEG6120 1275	12	32	75	12	▲
HSXEG6120 12100	12	45	100	12	▲
HSXEG6160 16100	16	40	100	16	▲
HSXEG6160 16150	16	64	150	16	▲
HSXEG6200 20100	20	45	100	20	▲
HSXEG6200 20150	20	75	150	20	▲

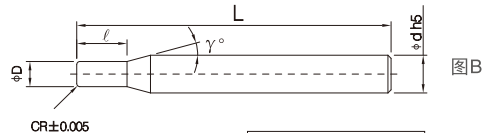
可切削材料适用表 TABLE OF RECOMMENDED MILLING MATERIALS										○ 非常合适		○ 适合	
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○	○	○	○	○	○			○	○	

HSXB 2-Flute Ball End Mill

HSXR 2-Flute Corner Radius End Mill

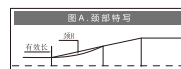


图A



图B

ϕD	D Tolerance
$D < 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018



型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	CR	ℓ	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HSXR2010R0.2 0450	1	0.2	2	4	12	50	4	A	▲
HSXR2015R0.2 0450	1.5	0.2	3	-	11	50	4	B	▲
HSXR2020R0.2 0450	2	0.2	4	-	11	50	4	B	▲
HSXR2020R0.5 0450	2	0.5	4	-	11	50	4	B	▲
HSXR2025R0.2 0450	2.5	0.2	5	-	11	50	4	B	▲
HSXR2025R0.5 0450	2.5	0.5	5	-	11	50	4	B	▲
HSXR2030R0.2 0450	3	0.2	6	-	11	50	4	B	▲
HSXR2030R0.2 0650	3	0.2	6	-	11	50	6	B	▲
HSXR2030R0.2 0660	3	0.2	6	-	11	60	6	B	▲
HSXR2030R0.2 0675	3	0.2	6	-	11	75	6	B	▲
HSXR2030R0.5 0450	3	0.5	6	-	11	50	4	B	▲
HSXR2030R0.5 0650	3	0.5	6	-	11	50	6	B	▲
HSXR2030R0.5 0660	3	0.5	6	-	11	60	6	B	▲
HSXR2030R0.5 0675	3	0.5	6	-	11	75	6	B	▲
HSXR2040R0.2 0450	4	0.2	8	-	-	50	4	B	▲
HSXR2040R0.2 0475	4	0.2	8	-	-	75	4	B	▲
HSXR2040R0.2 0650	4	0.2	8	-	11	50	6	B	▲
HSXR2040R0.2 0660	4	0.2	8	-	11	60	6	B	▲
HSXR2040R0.2 0675	4	0.2	8	-	11	75	6	B	▲
HSXR2040R0.5 0450	4	0.5	8	-	-	50	4	B	▲
HSXR2040R0.5 0475	4	0.5	8	-	-	75	4	B	▲
HSXR2040R0.5 0650	4	0.5	8	-	11	50	6	B	▲
HSXR2040R0.5 0660	4	0.5	8	-	11	60	6	B	▲
HSXR2040R0.5 0675	4	0.5	8	-	11	75	6	B	▲
HSXR2040R1.0 0450	4	1	8	-	-	50	4	B	▲
HSXR2040R1.0 0475	4	1	8	-	-	75	4	B	▲
HSXR2040R1.0 0650	4	1	8	-	11	50	6	B	▲
HSXR2040R1.0 0660	4	1	8	-	11	60	6	B	▲
HSXR2040R1.0 0675	4	1	8	-	11	75	6	B	▲



E014

HSXB 2-Flute Ball End Mill

HSXR 2-Flute Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HSXR2060R0.5 0650	6	0.5	12	-	-	50	6	B	▲
HSXR2060R0.5 0660	6	0.5	12	-	-	60	6	B	▲
HSXR2060R0.5 0675	6	0.5	12	-	-	75	6	B	▲
HSXR2060R0.5 06100	6	0.5	12	-	-	100	6	B	▲
HSXR2060R1.0 0650	6	1	12	-	-	50	6	B	▲
HSXR2060R1.0 0660	6	1	12	-	-	60	6	B	▲
HSXR2060R1.0 0675	6	1	12	-	-	75	6	B	▲
HSXR2060R1.0 06100	6	1	12	-	-	100	6	B	▲
HSXR2080R0.5 0860	8	0.5	16	-	-	60	8	B	▲
HSXR2080R0.5 0875	8	0.5	16	-	-	75	8	B	▲
HSXR2080R0.5 08100	8	0.5	16	-	-	100	8	B	▲
HSXR2080R1.0 0860	8	1	16	-	-	60	8	B	▲
HSXR2080R1.0 0875	8	1	16	-	-	75	8	B	▲
HSXR2080R1.0 08100	8	1	16	-	-	100	8	B	▲
HSXR2100R0.5 1075	10	0.5	20	-	-	75	10	B	▲
HSXR2100R0.5 10100	10	0.5	20	-	-	100	10	B	▲
HSXR2100R1.0 1075	10	1	20	-	-	75	10	B	▲
HSXR2100R1.0 10100	10	1	20	-	-	100	10	B	▲
HSXR2120R0.5 1275	12	0.5	24	-	-	75	12	B	▲
HSXR2120R0.5 12100	12	0.5	24	-	-	100	12	B	▲
HSXR2120R1.0 1275	12	1	24	-	-	75	12	B	▲
HSXR2120R1.0 12100	12	1	24	-	-	100	12	B	▲
HSXR2120R2.0 1275	12	2	24	-	-	75	12	B	▲
HSXR2120R2.0 12100	12	2	24	-	-	100	12	B	▲

可切削材料适用表

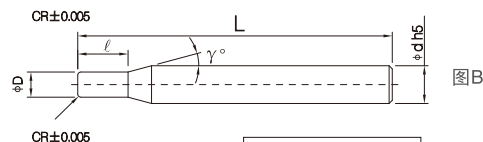
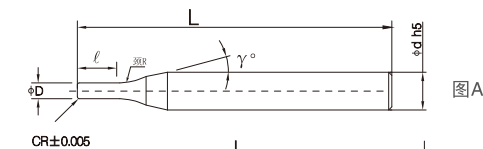
TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合 ○ 适合

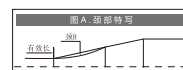
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS					不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
		预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS											
~40HRC		~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB							
○		○	○	○	○	○	○	○				○	○	

HSXB 2-Flute Ball End Mill

HSXR 4-Flute Corner Radius End Mill



φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HSXR4010R0.2 0450	1	0.2	2	4	12	50	4	A	▲
HSXR4015R0.2 0450	1.5	0.2	3	-	11	50	4	B	▲
HSXR4020R0.2 0450	2	0.2	4	-	11	50	4	B	▲
HSXR4020R0.5 0450	2	0.5	4	-	11	50	4	B	▲
HSXR4030R0.2 0450	3	0.2	6	-	11	50	4	B	▲
HSXR4030R0.2 0650	3	0.2	6	-	11	50	6	B	▲
HSXR4030R0.2 0660	3	0.2	6	-	11	60	6	B	▲
HSXR4030R0.2 0675	3	0.2	6	-	11	75	6	B	▲
HSXR4030R0.5 0450	3	0.5	6	-	11	50	4	B	▲
HSXR4030R0.5 0650	3	0.5	6	-	11	50	6	B	▲
HSXR4030R0.5 0660	3	0.5	6	-	11	60	6	B	▲
HSXR4030R0.5 0675	3	0.5	6	-	11	75	6	B	▲
HSXR4040R0.2 0450	4	0.2	8	-	11	50	4	B	▲
HSXR4040R0.2 0475	4	0.2	8	-	11	75	4	B	▲
HSXR4040R0.2 0650	4	0.2	8	-	11	50	6	B	▲
HSXR4040R0.2 0660	4	0.2	8	-	11	60	6	B	▲
HSXR4040R0.2 0675	4	0.2	8	-	11	75	6	B	▲
HSXR4040R0.3 0450	4	0.3	8	-	-	50	4	B	▲
HSXR4040R0.3 0475	4	0.3	8	-	-	75	4	B	▲
HSXR4040R0.3 0650	4	0.3	8	-	11	50	6	B	▲
HSXR4040R0.3 0660	4	0.3	8	-	11	60	6	B	▲
HSXR4040R0.3 0675	4	0.3	8	-	11	75	6	B	▲
HSXR4040R0.5 0450	4	0.5	8	-	-	50	4	B	▲
HSXR4040R0.5 0475	4	0.5	8	-	-	75	4	B	▲
HSXR4040R0.5 0650	4	0.5	8	-	11	50	6	B	▲
HSXR4040R0.5 0660	4	0.5	8	-	11	60	6	B	▲
HSXR4040R0.5 0675	4	0.5	8	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

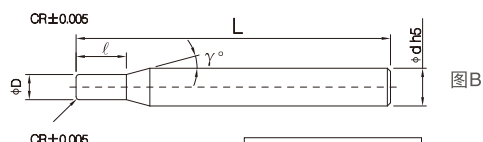
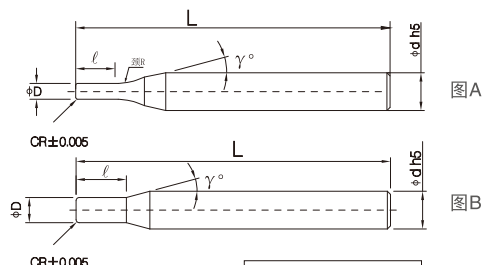
HSXR 4-Flute Corner Radius End Mill

单位:mm

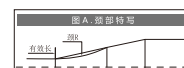
型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HSXR4040R1.0 0450	4	1	8	-	-	50	4	B	▲
HSXR4040R1.0 0475	4	1	8	-	-	75	4	B	▲
HSXR4040R1.0 0650	4	1	8	-	11	50	6	B	▲
HSXR4040R1.0 0660	4	1	8	-	11	60	6	B	▲
HSXR4040R1.0 0675	4	1	8	-	11	75	6	B	▲
HSXR4060R0.2 0650	6	0.2	12	-	-	50	6	B	▲
HSXR4060R0.2 0660	6	0.2	12	-	-	60	6	B	▲
HSXR4060R0.2 0675	6	0.2	12	-	-	75	6	B	▲
HSXR4060R0.2 06100	6	0.2	12	-	-	100	6	B	▲
HSXR4060R0.5 0650	6	0.5	12	-	-	50	6	B	▲
HSXR4060R0.5 0660	6	0.5	12	-	-	60	6	B	▲
HSXR4060R0.5 0675	6	0.5	12	-	-	75	6	B	▲
HSXR4060R0.5 06100	6	0.5	12	-	-	100	6	B	▲
HSXR4060R1.0 0650	6	1	12	-	-	50	6	B	▲
HSXR4060R1.0 0660	6	1	12	-	-	60	6	B	▲
HSXR4060R1.0 0675	6	1	12	-	-	75	6	B	▲
HSXR4060R1.0 06100	6	1	12	-	-	100	6	B	▲
HSXR4080R0.5 0860	8	0.5	16	-	-	60	8	B	▲
HSXR4080R0.5 0875	8	0.5	16	-	-	75	8	B	▲
HSXR4080R0.5 08100	8	0.5	16	-	-	100	8	B	▲
HSXR4080R0.5 08125	8	0.5	20	-	-	125	8	B	▲
HSXR4080R0.5 08150	8	0.5	20	-	-	150	8	B	▲
HSXR4080R1.0 0860	8	1	16	-	-	60	8	B	▲
HSXR4080R1.0 0875	8	1	16	-	-	75	8	B	▲
HSXR4080R1.0 08100	8	1	16	-	-	100	8	B	▲
HSXR4100R0.5 1075	10	0.5	20	-	-	75	10	B	▲
HSXR4100R0.5 10100	10	0.5	20	-	-	100	10	B	▲

HSXB 2-Flute Ball End Mill

HSXR 4-Flute Corner Radius End Mill



φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

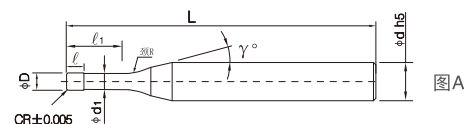


单位:mm

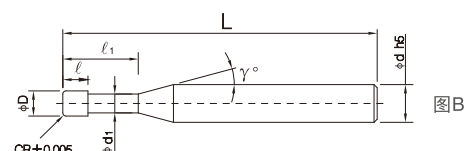
型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HSXR4100R0.5 10125	10	0.5	25	-	-	125	10	B	▲
HSXR4100R0.5 10150	10	0.5	25	-	-	150	10	B	▲
HSXR4100R1.0 1075	10	1	20	-	-	75	10	B	▲
HSXR4100R1.0 10100	10	1	20	-	-	100	10	B	▲
HSXR4120R0.5 1275	12	0.5	24	-	-	75	12	B	▲
HSXR4120R0.5 12100	12	0.5	24	-	-	100	12	B	▲
HSXR4120R0.5 12125	12	0.5	30	-	-	125	12	B	△
HSXR4120R0.5 12150	12	0.5	30	-	-	150	12	B	△
HSXR4120R1.0 1275	12	1	24	-	-	75	12	B	△
HSXR4120R1.0 12100	12	1	24	-	-	100	12	B	△
HSXR4120R2.0 1275	12	2	24	-	-	75	12	B	△
HSXR4120R2.0 12100	12	2	24	-	-	100	12	B	△

HSXB 2-Flute Ball End Mill

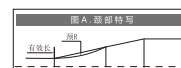
HSXRP 4-Flute Short Corner Radius End Mill



图A



图B



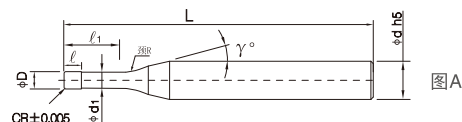
∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

单位:mm

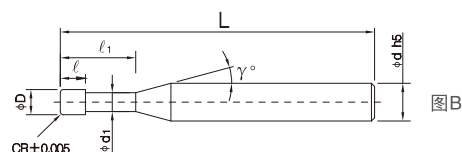
型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φ d ₁	R	γ/°	L	φd	Pic	Stock
HSXRP4010R0.2 0450	1	0.2	1	3	0.94	4	12	50	4	A	▲
HSXRP4015R0.2 0450	1.5	0.2	1.5	4.5	1.42	-	11	50	4	B	▲
HSXRP4020R0.2 0450	2	0.2	2	6	1.9	-	11	50	4	B	▲
HSXRP4020R0.5 0450	2	0.5	2	6	1.9	-	11	50	4	B	▲
HSXRP4030R0.2 0450	3	0.2	3	9	2.9	-	11	50	4	B	▲
HSXRP4030R0.2 0650	3	0.2	3	9	2.9	-	11	50	6	B	▲
HSXRP4030R0.2 0660	3	0.2	3	9	2.9	-	11	60	6	B	▲
HSXRP4030R0.2 0675	3		3	9	2.9	-	11	75	6	B	▲
HSXRP4030R0.3 0450	3	0.2	3	9	2.9	-	11	50	4	B	▲
HSXRP4030R0.3 0660	3	0.3	3	9	2.9	-	11	50	6	B	▲
HSXRP4030R0.3 0660	3	0.3	3	9	2.9	-	11	60	6	B	▲
HSXRP4030R0.3 0675	3	0.3	3	9	2.9	-	11	75	6	B	▲
HSXRP4030R0.5 0450	3	0.5	3	9	2.9	-	11	50	4	B	▲
HSXRP4030R0.5 0650	3	0.5	3	9	2.9	-	11	50	6	B	▲
HSXRP4030R0.5 0660	3	0.5	3	9	2.9	-	11	60	6	B	▲
HSXRP4030R0.5 0675	3	0.5	3	9	2.9	-	11	75	6	B	▲
HSXRP4040R0.2 0450	4	0.2	4	12	3.9	-	-	50	4	B	▲
HSXRP4040R0.2 0650	4	0.2	4	12	3.9	-	11	60	6	B	▲
HSXRP4040R0.2 0660	4	0.2	4	12	3.9	-	11	60	6	B	▲
HSXRP4040R0.2 0675	4	0.2	4	12	3.9	-	11	75	6	B	▲
HSXRP4040R0.5 0450	4	0.5	4	12	3.9	-	-	50	4	B	▲
HSXRP4040R0.5 0650	4	0.5	4	12	3.9	-	11	50	6	B	▲
HSXRP4040R0.5 0660	4	0.5	4	12	3.9	-	11	60	6	B	▲
HSXRP4040R0.5 0675	4	0.5	4	12	3.9	-	11	75	6	B	▲
HSXRP4040R1.0 0450	4	1	4	12	3.9	-	-	50	4	B	▲
HSXRP4040R1.0 0650	4	1	4	12	3.9	-	11	50	6	B	▲
HSXRP4040R1.0 0660	4	1	4	12	3.9	-	11	60	6	B	▲

HSXB 2-Flute Ball End Mill

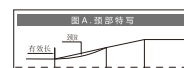
HSXRP 4-Flute Short Corner Radius End Mill



图A



图B



图A 局部特写

φD	D Tolerance
D≤3	0~-0.010
3<D≤6	0~-0.012
6<D≤10	0~-0.015
10<D≤18	0~-0.018

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXRP4040R1.0 0675	4	1	4	12	3.9	-	11	75	6	B	▲
HSXRP4060R0.2 0650	6	0.2	6	18	5.85	-	-	50	6	B	▲
HSXRP4060R0.2 0660	6	0.2	6	18	5.85	-	-	60	6	B	▲
HSXRP4060R0.2 0675	6	0.2	6	18	5.85	-	-	75	6	B	▲
HSXRP4060R0.2 06100	6	0.2	6	18	5.85	-	-	100	6	B	▲
HSXRP4060R0.5 0650	6	0.5	6	18	5.85	-	-	50	6	B	▲
HSXRP4060R0.5 0660	6	0.5	6	18	5.85	-	-	60	6	B	▲
HSXRP4060R0.5 0675	6	0.5	6	18	5.85	-	-	75	6	B	▲
HSXRP4060R0.5 06100	6	0.5	6	18	5.85	-	-	100	6	B	▲
HSXRP4060R1.0 0650	6	1	6	18	5.85	-	-	50	6	B	▲
HSXRP4060R1.0 0660	6	1	6	18	5.85	-	-	60	6	B	▲
HSXRP4060R1.0 0675	6	1	6	18	5.85	-	-	75	6	B	▲
HSXRP4060R1.0 06100	6	1	6	18	5.85	-	-	100	6	B	▲
HSXRP4080R0.5 0860	8	0.5	8	24	7.8	-	-	60	8	B	▲
HSXRP4080R0.5 0875	8	0.5	8	24	7.8	-	-	75	8	B	▲
HSXRP4080R0.5 08100	8	0.5	8	24	7.8	-	-	100	8	B	▲
HSXRP4080R1.0 0860	8	1	8	24	7.8	-	-	60	8	B	▲
HSXRP4080R1.0 0875	8	1	8	24	7.8	-	-	75	8	B	▲
HSXRP4080R1.0 08100	8	1	8	24	7.8	-	-	100	8	B	▲
HSXRP4080R0.5 08125	8	0.5	8	24	7.8	-	-	125	8	B	▲
HSXRP4080R0.5 08150	8	0.5	8	24	7.8	-	-	150	8	B	▲
HSXRP4100R0.5 1075	10	0.5	10	30	9.8	-	-	75	10	B	▲
HSXRP4100R0.5 10100	10	0.5	10	30	9.8	-	-	100	10	B	▲
HSXRP4100R0.5 10125	10	0.5	10	30	9.8	-	-	125	10	B	▲
HSXRP4100R0.5 10150	10	0.5	10	30	9.8	-	-	150	10	B	▲
HSXRP4100R1.0 1075	10	1	10	30	9.8	-	-	75	10	B	▲
HSXRP4100R1.0 10100	10	1	10	30	9.8	-	-	100	10	B	▲

HSXB 2-Flute Ball End Mill

HSXRP 4-Flute Short Corner Radius End Mill

单位:mm

型 号	刃 径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXRP4120R0.5 1275	12	0.5	12	36	11.7	-	-	75	12	B	▲
HSXRP4120R0.5 12100	12	0.5	12	36	11.7	-	-	100	12	B	▲
HSXRP4120R0.5 12125	12	0.5	12	36	11.7	-	-	125	12	B	△
HSXRP4120R0.5 12150	12	0.5	12	36	11.7	-	-	150	12	B	△
HSXRP4120R1.0 1275	12	1	12	36	11.7	-	-	75	12	B	△
HSXRP4120R1.0 12100	12	1	12	36	11.7	-	-	100	12	B	△
HSXRP4120R2.0 1275	12	2	12	36	11.7	-	-	75	12	B	△
HSXRP4120R2.0 12100	12	2	12	36	11.7	-	-	100	12	B	△

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

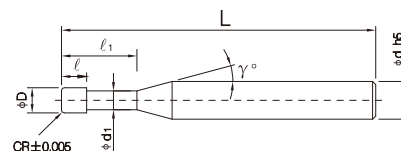
○ 非常适合

○ 适合

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS					不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS							球墨铸铁 DUCTILE CAST IRON						
~40HRC		~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB							
○		○	○	○	○	○	○	○				○	○	

HSXB 2-Flute Ball End Mill

HSXRT 4-Flute Power Corner Radius End Mill



Ø D	D Tolerance
D<3	0~-0.010
3<D≤6	0~-0.012
6<D≤10	0~-0.015
10<D≤18	0~-0.018

单位:mm

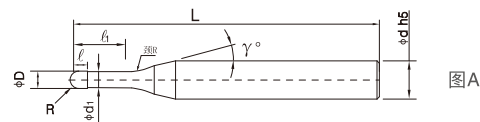
型 号	刃径	圆角半径	刃长	有效长	首径	柄锥角度	全长	柄径	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	γ/°	L	φd	Stock
HSXRT4030R0.5 0650	3	0.5	1.2	8	2.9	11	50	6	▲
HSXRT4030R0.5 0675	3	0.5	1.2	8	2.9	11	75	6	▲
HSXRT4030R1.0 0650	3	1	1.2	8	2.9	11	50	6	▲
HSXRT4030R1.0 0675	3	1	1.2	8	2.9	11	75	6	▲
HSXRT4040R0.5 0650	4	0.5	1.6	10	3.9	11	50	6	▲
HSXRT4040R0.5 0675	4	0.5	1.6	10	3.9	11	75	6	▲
HSXRT4040R1.0 0650	4	1	1.6	10	3.9	11	50	6	▲
HSXRT4040R1.0 0675	4	1	1.6	10	3.9	11	75	6	▲
HSXRT4050R1.0 0650	5	1	2	12	4.85	11	50	6	▲
HSXRT4050R1.0 0675	5	1	2	12	4.85	11	75	6	▲
HSXRT4060R1.0 0650	6	1	2.5	12	5.85	-	50	6	▲
HSXRT4060R1.0 0675	6	1	2.5	12	5.85	-	75	6	▲
HSXRT4060R1.5 0650	6	1.5	2.5	12	5.85	-	50	6	▲
HSXRT4060R1.5 0675	6	1.5	2.5	12	5.85	-	75	6	▲
HSXRT4080R1.0 0875	8	1	3.5	16	7.8	-	75	8	▲
HSXRT4080R1.0 08100	8	1	3.5	16	7.8	-	100	8	▲
HSXRT4080R2.0 0875	8	2	3.5	16	7.8	-	75	8	▲
HSXRT4080R2.0 08100	8	2	3.5	16	7.8	-	100	8	▲
HSXRT4100R1.0 1075	10	1	4	20	9.8	-	75	10	▲
HSXRT4100R1.0 10100	10	1	4	20	9.8	-	100	10	▲
HSXRT4100R2.0 1075	10	2	4	20	9.8	-	75	10	▲
HSXRT4100R2.0 10100	10	2	4	20	9.8	-	100	10	▲
HSXRT4120R2.0 1275	12	2	5	24	11.7	-	75	12	▲
HSXRT4120R2.0 12100	12	2	5	24	11.7	-	100	12	▲
HSXRT4120R3.0 1275	12	3	5	24	11.7	-	75	12	▲
HSXRT4120R3.0 12100	12	3	5	24	11.7	-	100	12	▲



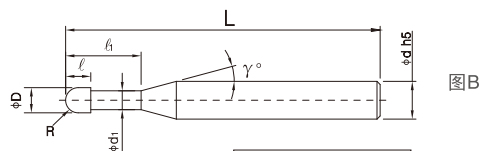
E022

HSXB 2-Flute Ball End Mill

HSXB2L 2-Flute Long Neck Ball End Mill



图A

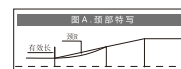


图B



ϕD	D Tolerance
$D \leq 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018

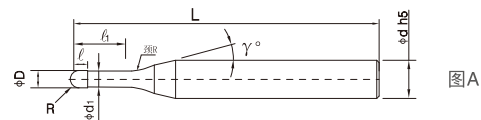
ϕD	R Tolerance
$D \leq 8$	± 0.005
$D > 8$	± 0.008



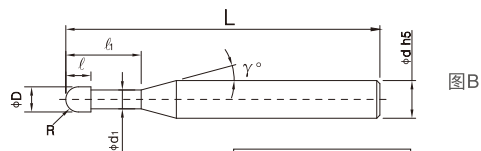
型 号	刃径	球半径	刃长	有效长	颈R	首径	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	R	ℓ	ℓ_1	R	ϕd_1	$\gamma/^\circ$	L	ϕd	Pic	Stock
HSXB2001L0.5 0450	0.1	0.05	0.1	0.5	1	0.08	12	50	4	A	▲
HSXB2001L0.75 0450	0.1	0.05	0.1	0.75	1	0.08	12	50	4	A	▲
HSXB2001L1 0450	0.1	0.05	0.1	1	1	0.08	12	50	4	A	△
HSXB20015L0.5 0450	0.15	0.075	0.15	0.5	1	0.13	12	50	4	A	▲
HSXB20015L0.75 0450	0.15	0.075	0.15	0.75	1	0.13	12	50	4	A	▲
HSXB20015L1 0450	0.15	0.075	0.15	1	1	0.13	12	50	4	A	▲
HSXB20015L1.5 0450	0.15	0.075	0.15	1.5	1	0.13	12	50	4	A	△
HSXB2002L0.5 0450	0.2	0.1	0.2	0.5	1	0.17	12	50	4	A	▲
HSXB2002L1 0450	0.2	0.1	0.2	1	1	0.17	12	50	4	A	▲
HSXB2002L1.5 0450	0.2	0.1	0.2	1.5	1	0.17	12	50	4	A	▲
HSXB2002L2 0450	0.2	0.1	0.2	2	1	0.17	12	50	4	A	△
HSXB2003L0.5 0450	0.3	0.15	0.25	0.5	1	0.27	12	50	4	A	▲
HSXB2003L1 0450	0.3	0.15	0.25	1	1	0.27	12	50	4	A	▲
HSXB2003L1.5 0450	0.3	0.15	0.25	1.5	1	0.27	12	50	4	A	▲
HSXB2003L2 0450	0.3	0.15	0.25	2	1	0.27	12	50	4	A	▲
HSXB2003L2.5 0450	0.3	0.15	0.25	2.5	1	0.27	12	50	4	A	▲
HSXB2003L3 0450	0.3	0.15	0.25	3	1	0.27	12	50	4	A	△
HSXB2004L1 0450	0.4	0.2	0.3	1	2	0.36	12	50	4	A	▲
HSXB2004L1.5 0450	0.4	0.2	0.3	1.5	2	0.36	12	50	4	A	▲
HSXB2004L2 0450	0.4	0.2	0.3	2	2	0.36	12	50	4	A	▲
HSXB2004L2.5 0450	0.4	0.2	0.3	2.5	2	0.36	12	50	4	A	▲
HSXB2004L3 0450	0.4	0.2	0.3	3	2	0.36	12	50	4	A	▲
HSXB2004L3.5 0450	0.4	0.2	0.3	3.5	2	0.36	12	50	4	A	△
HSXB2004L4 0450	0.4	0.2	0.3	4	2	0.36	12	50	4	A	△

HSXB 2-Flute Ball End Mill

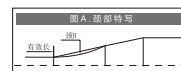
HSXB2L 2-Flute Long Neck Ball End Mill



图A



图B



图A: 局部特写

∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

∅ D	R Tolerance
D ≤ 8	±0.005
D > 8	±0.008

型 号	刃径	球半径	刃长	有效长	颈R	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	R	φd ₁	γ/°	L	φd	Pic	Stock
HSXB2005L1 0450	0.5	0.25	0.4	1	2	0.46	12	50	4	A	▲
HSXB2005L2 0450	0.5	0.25	0.4	2	2	0.46	12	50	4	A	▲
HSXB2005L3 0450	0.5	0.25	0.4	3	2	0.46	12	50	4	A	▲
HSXB2005L4 0450	0.5	0.25	0.4	4	2	0.46	12	50	4	A	▲
HSXB2005L5 0450	0.5	0.25	0.4	5	2	0.46	12	50	4	A	△
HSXB2005L6 0450	0.5	0.25	0.4	6	2	0.46	12	50	4	A	△
HSXB2006L2 0450	0.6	0.3	0.5	2	4	0.56	12	50	4	A	▲
HSXB2006L3 0450	0.6	0.3	0.5	3	4	0.56	12	50	4	A	▲
HSXB2006L4 0450	0.6	0.3	0.5	4	4	0.56	12	50	4	A	▲
HSXB2006L5 0450	0.6	0.3	0.5	5	4	0.56	12	50	4	A	▲
HSXB2006L6 0450	0.6	0.3	0.5	6	4	0.56	12	50	4	A	△
HSXB2006L8 0450	0.6	0.3	0.5	8	4	0.56	12	50	4	A	△
HSXB2006L10 0450	0.6	0.3	0.5	10	4	0.56	12	50	4	A	△
HSXB2007L2 0450	0.7	0.35	0.6	2	4	0.66	12	50	4	A	▲
HSXB2007L3 0450	0.7	0.35	0.6	3	4	0.66	12	50	4	A	▲
HSXB2007L4 0450	0.7	0.35	0.6	4	4	0.66	12	50	4	A	▲
HSXB2007L5 0450	0.7	0.35	0.6	5	4	0.66	12	50	4	A	▲
HSXB2007L6 0450	0.7	0.35	0.6	6	4	0.66	12	50	4	A	▲
HSXB2007L7 0450	0.7	0.35	0.6	7	4	0.66	12	50	4	A	△
HSXB2008L2 0450	0.8	0.4	0.7	2	4	0.76	12	50	4	A	▲
HSXB2008L3 0450	0.8	0.4	0.7	3	4	0.76	12	50	4	A	▲
HSXB2008L4 0450	0.8	0.4	0.7	4	4	0.76	12	50	4	A	▲
HSXB2008L5 0450	0.8	0.4	0.7	5	4	0.76	12	50	4	A	▲
HSXB2008L6 0450	0.8	0.4	0.7	6	4	0.76	12	50	4	A	▲
HSXB2008L8 0450	0.8	0.4	0.7	8	4	0.76	12	50	4	A	▲
HSXB2008L10 0450	0.8	0.4	0.7	10	4	0.76	12	50	4	A	△

HSXB 2-Flute Ball End Mill

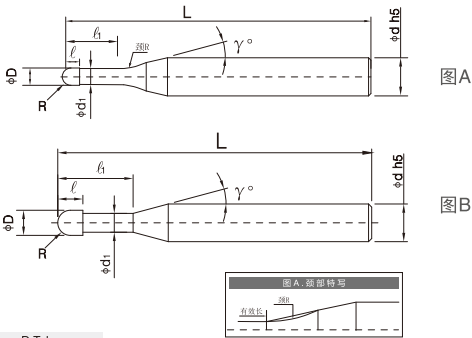
HSXB2L 2-Flute Long Neck Ball End Mill

单位:mm

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXB2008L12 0450	0.8	0.4	0.7	12	0.76	4	12	50	4	A	△
HSXB2010L4 0450	1	0.5	0.8	4	0.94	4	12	50	4	A	▲
HSXB2010L4 0660	1	0.5	0.8	4	0.94	4	12	60	6	A	▲
HSXB2010L6 0450	1	0.5	0.8	6	0.94	4	12	50	4	A	▲
HSXB2010L6 0660	1	0.5	0.8	6	0.94	4	12	60	6	A	▲
HSXB2010L8 0450	1	0.5	0.8	8	0.94	4	12	50	4	A	▲
HSXB2010L8 0660	1	0.5	0.8	8	0.94	4	12	60	6	A	▲
HSXB2010L10 0450	1	0.5	0.8	10	0.94	4	12	50	4	A	▲
HSXB2010L10 0660	1	0.5	0.8	10	0.94	4	12	60	6	A	▲
HSXB2015L6 0450	1.5	0.75	1.2	6	1.42	-	11	50	4	B	▲
HSXB2015L6 0660	1.5	0.75	1.2	6	1.42	-	11	60	6	B	▲
HSXB2015L8 0450	1.5	0.75	1.2	8	1.42	-	11	50	4	B	▲
HSXB2015L8 0660	1.5	0.75	1.2	8	1.42	-	11	60	6	B	▲
HSXB2015L10 0450	1.5	0.75	1.2	10	1.42	-	11	50	4	B	▲
HSXB2015L10 0660	1.5	0.75	1.2	10	1.42	-	11	60	6	B	▲
HSXB2015L12 0450	1.5	0.75	1.2	12	1.42	-	11	50	4	B	▲
HSXB2015L12 0660	1.5	0.75	1.2	12	1.42	-	11	60	6	B	▲
HSXB2020L6 0450	2	1	1.6	6	1.9	-	11	50	4	B	▲
HSXB2020L8 0450	2	1	1.6	8	1.9	-	11	50	4	B	▲
HSXB2020L8 0660	2	1	1.6	8	1.9	-	11	60	6	B	▲
HSXB2020L10 0450	2	1	1.6	10	1.9	-	11	50	4	B	▲
HSXB2020L10 0660	2	1	1.6	10	1.9	-	11	60	6	B	▲
HSXB2020L12 0450	2	1	1.6	12	1.9	-	11	50	4	B	▲
HSXB2020L12 0660	2	1	1.6	12	1.9	-	11	60	6	B	▲
HSXB2020L16 0450	2	1	1.6	16	1.9	-	11	50	4	B	▲
HSXB2020L16 0660	2	1	1.6	16	1.9	-	11	60	6	B	▲
HSXB2025L8 0450	2.5	1.25	2	8	2.4	-	11	50	4	B	▲
HSXB2025L10 0450	2.5	1.25	2	10	2.4	-	11	50	4	B	▲
HSXB2025L12 0450	2.5	1.25	2	12	2.4	-	11	50	4	B	▲
HSXB2025L16 0450	2.5	1.25	2	16	2.4	-	11	50	4	B	▲
HSXB2030L10 0660	3	1.5	2.4	10	2.9	-	11	60	6	B	▲
HSXB2030L12 0660	3	1.5	2.4	12	2.9	-	11	60	6	B	▲

HSXB 2-Flute Ball End Mill

HSXB2L 2-Flute Long Neck Ball End Mill



∅D	D Tolerance	∅D	R Tolerance
D<3	0~-0.010	D<8	±0.005
3<D≤6	0~-0.012	D>8	±0.008
6<D≤10	0~-0.015		
10<D≤18	0~-0.018		

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXB2030L16 0660	3	1.5	2.4	16	2.9	-	11	60	6	B	▲
HSXB2030L20 0660	3	1.5	2.4	20	2.9	-	11	60	6	B	▲
HSXB2030L25 0675	3	1.5	2.4	25	2.9	-	11	75	6	B	▲
HSXB2040L12 0660	4	2	3.2	12	3.9	-	11	60	6	B	▲
HSXB2040L16 0660	4	2	3.2	16	3.9	-	11	60	6	B	▲
HSXB2040L20 0660	4	2	3.2	20	3.9	-	11	60	6	B	▲
HSXB2040L25 0675	4	2	3.2	25	3.9	-	11	75	6	B	▲
HSXB2040L30 0675	4	2	3.2	30	3.9	-	11	75	6	B	▲
HSXB2050L16 0660	5	2.5	4	16	4.85	-	11	60	6	B	▲
HSXB2050L20 0660	5	2.5	4	20	4.85	-	11	60	6	B	▲
HSXB2050L25 0675	5	2.5	4	25	4.85	-	11	75	6	B	▲
HSXB2050L30 0675	5	2.5	4	30	4.85	-	11	75	6	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○	○	○	○	○	○			○	○	

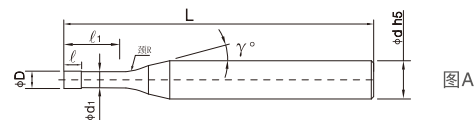
○ 非常适合 ○ 适合



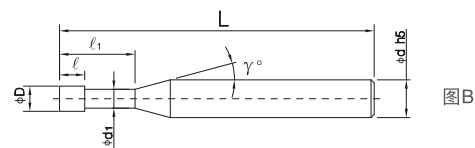
E026

HSXB 2-Flute Ball End Mill

HSXE2L 2-Flute Long Neck End Mill



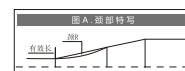
图A



图B



∅ D	D Tolerance
D < 3	0 ~ 0.010
3 < D < 6	0 ~ 0.012

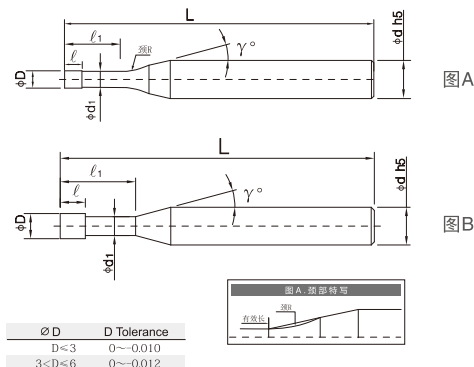


图A: 局部特写

型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXE2001L0.5 0450	0.1	0.1	0.5	0.08	1	12	50	4	A	▲
HSXE2001L0.75 0450	0.1	0.1	0.75	0.08	1	12	50	4	A	▲
HSXE2001L1 0450	0.1	0.1	1	0.08	1	12	50	4	A	△
HSXE20015L0.5 0450	0.15	0.15	0.5	0.13	1	12	50	4	A	▲
HSXE20015L0.75 0450	0.15	0.15	0.75	0.13	1	12	50	4	A	▲
HSXE20015L1 0450	0.15	0.15	1	0.13	1	12	50	4	A	▲
HSXE20015L1.5 0450	0.15	0.15	1.5	0.13	1	12	50	4	A	△
HSXE2002L0.5 0450	0.2	0.2	0.5	0.17	1	12	50	4	A	▲
HSXE2002L1 0450	0.2	0.2	1	0.17	1	12	50	4	A	▲
HSXE2002L1.5 0450	0.2	0.2	1.5	0.17	1	12	50	4	A	▲
HSXE2002L2 0450	0.2	0.2	2	0.17	1	12	50	4	A	△
HSXE2003L0.5 0450	0.3	0.25	0.5	0.27	1	12	50	4	A	▲
HSXE2003L1 0450	0.3	0.25	1	0.27	1	12	50	4	A	▲
HSXE2003L1.5 0450	0.3	0.25	1.5	0.27	1	12	50	4	A	▲
HSXE2003L2 0450	0.3	0.25	2	0.27	1	12	50	4	A	▲
HSXE2003L2.5 0450	0.3	0.25	2.5	0.27	1	12	50	4	A	▲
HSXE2003L3 0450	0.3	0.25	3	0.27	1	12	50	4	A	△
HSXE2004L1 0450	0.4	0.3	1	0.36	2	12	50	4	A	▲
HSXE2004L1.5 0450	0.4	0.3	1.5	0.36	2	12	50	4	A	▲
HSXE2004L2 0450	0.4	0.3	2	0.36	2	12	50	4	A	▲
HSXE2004L2.5 0450	0.4	0.3	2.5	0.36	2	12	50	4	A	▲
HSXE2004L3 0450	0.4	0.3	3	0.36	2	12	50	4	A	▲
HSXE2004L3.5 0450	0.4	0.3	3.5	0.36	2	12	50	4	A	△
HSXE2004L4 0450	0.4	0.3	4	0.36	2	12	50	4	A	△
HSXE2005L1 0450	0.5	0.4	1	0.46	2	12	50	4	A	▲
HSXE2005L2 0450	0.5	0.4	2	0.46	2	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

HSXE2L 2-Flute Long Neck End Mill



型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXE2005L3 0450	0.5	0.4	3	0.46	2	12	50	4	A	▲
HSXE2005L4 0450	0.5	0.4	4	0.46	2	12	50	4	A	▲
HSXE2005L5 0450	0.5	0.4	5	0.46	2	12	50	4	A	△
HSXE2005L6 0450	0.5	0.4	6	0.46	2	12	50	4	A	△
HSXE2006L2 0450	0.6	0.5	2	0.56	4	12	50	4	A	▲
HSXE2006L3 0450	0.6	0.5	3	0.56	4	12	50	4	A	▲
HSXE2006L4 0450	0.6	0.5	4	0.56	4	12	50	4	A	▲
HSXE2006L5 0450	0.6	0.5	5	0.56	4	12	50	4	A	▲
HSXE2006L6 0450	0.6	0.5	6	0.56	4	12	50	4	A	△
HSXE2006L8 0450	0.6	0.5	8	0.56	4	12	50	4	A	△
HSXE2006L10 0450	0.6	0.5	10	0.56	4	12	50	4	A	△
HSXE2007L2 0450	0.7	0.6	2	0.66	4	12	50	4	A	▲
HSXE2007L3 0450	0.7	0.6	3	0.66	4	12	50	4	A	▲
HSXE2007L4 0450	0.7	0.6	4	0.66	4	12	50	4	A	▲
HSXE2007L5 0450	0.7	0.6	5	0.66	4	12	50	4	A	▲
HSXE2007L6 0450	0.7	0.6	6	0.66	4	12	50	4	A	▲
HSXE2007L7 0450	0.7	0.6	7	0.66	4	12	50	4	A	△
HSXE2008L2 0450	0.8	0.7	2	0.76	4	12	50	4	A	▲
HSXE2008L3 0450	0.8	0.7	3	0.76	4	12	50	4	A	▲
HSXE2008L4 0450	0.8	0.7	4	0.76	4	12	50	4	A	▲
HSXE2008L5 0450	0.8	0.7	5	0.76	4	12	50	4	A	▲
HSXE2008L6 0450	0.8	0.7	6	0.76	4	12	50	4	A	▲
HSXE2008L8 0450	0.8	0.7	8	0.76	4	12	50	4	A	▲
HSXE2008L10 0450	0.8	0.7	10	0.76	4	12	50	4	A	△
HSXE2008L12 0450	0.8	0.7	12	0.76	4	12	50	4	A	△



HSXB 2-Flute Ball End Mill

HSXE2L 2-Flute Long Neck End Mill

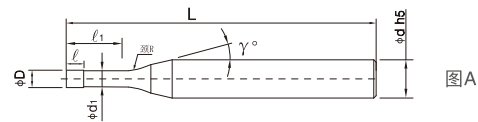
单位:mm

型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXE2010L4 0450	1	0.8	4	0.94	4	12	50	4	A	▲
HSXE2010L6 0450	1	0.8	6	0.94	4	12	50	4	A	▲
HSXE2010L8 0450	1	0.8	8	0.94	4	12	50	4	A	▲
HSXE2010L10 0450	1	0.8	10	0.94	4	12	50	4	A	▲
HSXE2015L6 0450	1.5	1.2	6	1.42	-	11	50	4	B	▲
HSXE2015L8 0450	1.5	1.2	8	1.42	-	11	50	4	B	▲
HSXE2015L10 0450	1.5	1.2	10	1.42	-	11	50	4	B	▲
HSXE2015L12 0450	1.5	1.2	12	1.42	-	11	50	4	B	▲
HSXE2020L8 0450	2	1.6	8	1.9	-	11	50	4	B	▲
HSXE2020L10 0450	2	1.6	10	1.9	-	11	50	4	B	▲
HSXE2020L12 0450	2	1.6	12	1.9	-	11	50	4	B	▲
HSXE2020L16 0450	2	1.6	16	1.9	-	11	50	4	B	▲
HSXE2025L10 0450	2.5	2	10	2.4	-	11	50	4	B	▲
HSXE2025L12 0450	2.5	2	12	2.4	-	11	50	4	B	▲
HSXE2025L16 0450	2.5	2	16	2.4	-	11	50	4	B	▲
HSXE2025L20 0450	2.5	2	20	2.4	-	11	50	4	B	▲
HSXE2030L10 0660	3	2.4	10	2.9	-	11	60	6	B	▲
HSXE2030L12 0660	3	2.4	12	2.9	-	11	60	6	B	▲
HSXE2030L16 0660	3	2.4	16	2.9	-	11	60	6	B	▲
HSXE2030L20 0660	3	2.4	20	2.9	-	11	60	6	B	▲
HSXE2030L25 0675	3	2.4	25	2.9	-	11	75	6	B	▲
HSXE2040L12 0660	4	3.2	12	3.9	-	11	60	6	B	▲
HSXE2040L16 0660	4	3.2	16	3.9	-	11	60	6	B	▲
HSXE2040L20 0660	4	3.2	20	3.9	-	11	60	6	B	▲
HSXE2040L25 0675	4	3.2	25	3.9	-	11	75	6	B	▲
HSXE2040L30 0675	4	3.2	30	3.9	-	11	75	6	B	▲

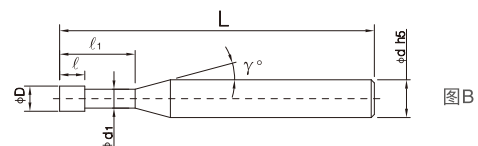
可切削材料适用表 TABLE OF RECOMMENDED MILLING MATERIALS										○ 非常适合		○ 适合				
碳素钢 CARBON STEELS		合金钢 ALLOY STEELS		预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS					不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS		工具钢 TOOL STEELS							球墨铸铁 DUCTILE CAST IRON							
~40HRC		~45HRC		~55HRC	~60HRC	~65HRC	~35HRC	~350HB								
○		○		○	○	○	○	○	○	○	○			○	○	

HSXB 2-Flute Ball End Mill

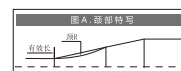
HSXE4L 4-Flute Long Neck End Mill



图A



图B



φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

单位:mm

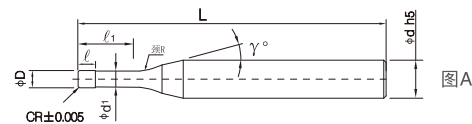
型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXE4010L4 0450	1	0.8	4	0.94	4	12	50	4	A	▲
HSXE4010L6 0450	1	0.8	6	0.94	4	12	50	4	A	▲
HSXE4010L8 0450	1	0.8	8	0.94	4	12	50	4	A	▲
HSXE4010L10 0450	1	0.8	10	0.94	4	12	50	4	A	▲
HSXE4015L6 0450	1.5	1.2	6	1.42	-	11	50	4	B	▲
HSXE4015L8 0450	1.5	1.2	8	1.42	-	11	50	4	B	▲
HSXE4015L10 0450	1.5	1.2	10	1.42	-	11	50	4	B	▲
HSXE4015L12 0450	1.5	1.2	12	1.42	-	11	50	4	B	▲
HSXE4020L8 0450	2	1.6	8	1.9	-	11	50	4	B	▲
HSXE4020L10 0450	2	1.6	10	1.9	-	11	50	4	B	▲
HSXE4020L12 0450	2	1.6	12	1.9	-	11	50	4	B	▲
HSXE4020L16 0450	2	1.6	16	1.9	-	11	50	4	B	▲
HSXE4025L10 0450	2.5	2	10	2.4	-	11	50	4	B	▲
HSXE4025L12 0450	2.5	2	12	2.4	-	11	50	4	B	▲
HSXE4025L16 0450	2.5	2	16	2.4	-	11	50	4	B	▲
HSXE4025L20 0450	2.5	2	20	2.4	-	11	50	4	B	▲
HSXE4030L10 0660	3	2.4	10	2.9	-	11	60	6	B	▲
HSXE4030L12 0660	3	2.4	12	2.9	-	11	60	6	B	▲
HSXE4030L16 0660	3	2.4	16	2.9	-	11	60	6	B	▲
HSXE4030L20 0660	3	2.4	20	2.9	-	11	60	6	B	▲
HSXE4030L25 0675	3	2.4	25	2.9	-	11	75	6	B	▲
HSXE4040L12 0660	4	3.2	12	3.9	-	11	60	6	B	▲
HSXE4040L16 0660	4	3.2	16	3.9	-	11	60	6	B	▲
HSXE4040L20 0660	4	3.2	20	3.9	-	11	60	6	B	▲
HSXE4040L25 0675	4	3.2	25	3.9	-	11	75	6	B	▲
HSXE4040L30 0675	4	3.2	30	3.9	-	11	75	6	B	▲



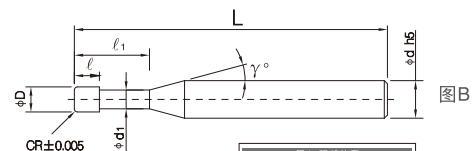
E030

HSXB 2-Flute Ball End Mill

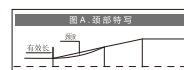
HSXR2L 2-Flute Long Neck Corner Radius End Mill



图A



图B



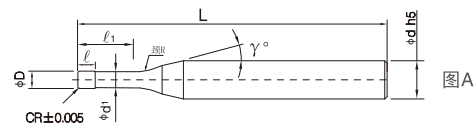
∅D	D Tolerance
D≤3	0~-0.010
3<D≤6	0~-0.012

单位:mm

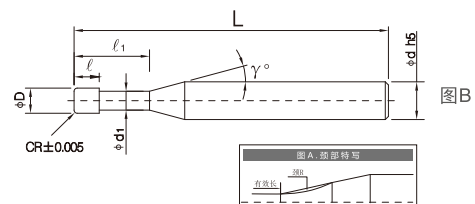
型 号	刃径	圆角半径	刃长	颈R	有效长	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	ℓ ₁	φd ₁	γ/°	L	φd	Pic	Stock
HSXR2003R0.05L0.5 0450	0.3	0.05	0.25	2	0.5	0.27	12	50	4	A	▲
HSXR2003R0.05L1 0450	0.3	0.05	0.25	2	1	0.27	12	50	4	A	▲
HSXR2003R0.05L1.5 0450	0.3	0.05	0.25	2	1.5	0.27	12	50	4	A	▲
HSXR2003R0.05L2 0450	0.3	0.05	0.25	2	2	0.27	12	50	4	A	▲
HSXR2003R0.05L2.5 0450	0.3	0.05	0.25	2	2.5	0.27	12	50	4	A	▲
HSXR2003R0.05L3 0450	0.3	0.05	0.25	2	3	0.27	12	50	4	A	△
HSXR2004R0.05L1 0450	0.4	0.05	0.3	2	1	0.36	12	50	4	A	▲
HSXR2004R0.05L1.5 0450	0.4	0.05	0.3	2	1.5	0.36	12	50	4	A	▲
HSXR2004R0.05L2 0450	0.4	0.05	0.3	2	2	0.36	12	50	4	A	▲
HSXR2004R0.05L2.5 0450	0.4	0.05	0.3	2	2.5	0.36	12	50	4	A	▲
HSXR2004R0.05L3 0450	0.4	0.05	0.3	2	3	0.36	12	50	4	A	▲
HSXR2004R0.05L3.5 0450	0.4	0.05	0.3	2	3.5	0.36	12	50	4	A	△
HSXR2004R0.05L4 0450	0.4	0.05	0.3	2	4	0.36	12	50	4	A	△
HSXR2004R0.1L1 0450	0.4	0.1	0.3	2	1	0.36	12	50	4	A	▲
HSXR2004R0.1L1.5 0450	0.4	0.1	0.3	2	1.5	0.36	12	50	4	A	▲
HSXR2004R0.1L2 0450	0.4	0.1	0.3	2	2	0.36	12	50	4	A	▲
HSXR2004R0.1L2.5 0450	0.4	0.1	0.3	2	2.5	0.36	12	50	4	A	▲
HSXR2004R0.1L3 0450	0.4	0.1	0.3	2	3	0.36	12	50	4	A	▲
HSXR2004R0.1L3.5 0450	0.4	0.1	0.3	2	3.5	0.36	12	50	4	A	△
HSXR2004R0.1L4 0450	0.4	0.1	0.3	2	4	0.36	12	50	4	A	△
HSXR2005R0.05L1 0450	0.5	0.05	0.4	2	1	0.46	12	50	4	A	▲
HSXR2005R0.05L2 0450	0.5	0.05	0.4	2	2	0.46	12	50	4	A	▲
HSXR2005R0.05L3 0450	0.5	0.05	0.4	2	3	0.46	12	50	4	A	▲
HSXR2005R0.05L4 0450	0.5	0.05	0.4	2	4	0.46	12	50	4	A	▲
HSXR2005R0.05L5 0450	0.5	0.05	0.4	2	5	0.46	12	50	4	A	△
HSXR2005R0.05L6 0450	0.5	0.05	0.4	2	6	0.46	12	50	4	A	△
HSXR2005R0.1L1 0450	0.5	0.1	0.4	2	1	0.46	12	50	4	A	▲
HSXR2005R0.1L2 0450	0.5	0.1	0.4	2	2	0.46	12	50	4	A	▲
HSXR2005R0.1L3 0450	0.5	0.1	0.4	2	3	0.46	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

HSXR2L 2-Flute Long Neck Corner Radius End Mill



图A



图B

φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

型号 Type No.	刃径 φD	圆角半径 CR	刃长 ℓ	颈R R	有效长 ℓ ₁	首径 φd ₁	柄锥角度 γ/°	全长 L	柄径 φd	图示 Pic	库存 Stock
HSXR2005R0.1L4 0450	0.5	0.1	0.4	2	4	0.46	12	50	4	A	▲
HSXR2005R0.1L5 0450	0.5	0.1	0.4	2	5	0.46	12	50	4	A	▲
HSXR2005R0.1L6 0450	0.5	0.1	0.4	2	6	0.46	12	50	4	A	▲
HSXR2006R0.05L2 0450	0.6	0.05	0.5	4	2	0.56	12	50	4	A	▲
HSXR2006R0.05L3 0450	0.6	0.05	0.5	4	3	0.56	12	50	4	A	▲
HSXR2006R0.05L4 0450	0.6	0.05	0.5	4	4	0.56	12	50	4	A	▲
HSXR2006R0.05L5 0450	0.6	0.05	0.5	4	5	0.56	12	50	4	A	▲
HSXR2006R0.05L6 0450	0.6	0.05	0.5	4	6	0.56	12	50	4	A	△
HSXR2006R0.05L8 0450	0.6	0.05	0.5	4	8	0.56	12	50	4	A	△
HSXR2006R0.05L10 0450	0.6	0.05	0.5	4	10	0.56	12	50	4	A	▲
HSXR2006R0.1L2 0450	0.6	0.1	0.5	4	2	0.56	12	50	4	A	▲
HSXR2006R0.1L3 0450	0.6	0.1	0.5	4	3	0.56	12	50	4	A	▲
HSXR2006R0.1L4 0450	0.6	0.1	0.5	4	4	0.56	12	50	4	A	▲
HSXR2006R0.1L5 0450	0.6	0.1	0.5	4	5	0.56	12	50	4	A	▲
HSXR2006R0.1L6 0450	0.6	0.1	0.5	4	6	0.56	12	50	4	A	▲
HSXR2006R0.1L8 0450	0.6	0.1	0.5	4	8	0.56	12	50	4	A	▲
HSXR2006R0.1L10 0450	0.6	0.1	0.5	4	10	0.56	12	50	4	A	▲
HSXR2007R0.05L2 0450	0.7	0.05	0.56	4	2	0.66	12	50	4	A	▲
HSXR2007R0.05L3 0450	0.7	0.05	0.56	4	3	0.66	12	50	4	A	▲
HSXR2007R0.05L4 0450	0.7	0.05	0.56	4	4	0.66	12	50	4	A	▲
HSXR2007R0.05L5 0450	0.7	0.05	0.56	4	5	0.66	12	50	4	A	▲
HSXR2007R0.05L6 0450	0.7	0.05	0.56	4	6	0.66	12	50	4	A	▲
HSXR2007R0.05L7 0450	0.7	0.05	0.56	4	7	0.66	12	50	4	A	△
HSXR2007R0.1L2 0450	0.7	0.1	0.56	4	2	0.66	12	50	4	A	▲
HSXR2007R0.1L3 0450	0.7	0.1	0.56	4	3	0.66	12	50	4	A	▲
HSXR2007R0.1L4 0450	0.7	0.1	0.56	4	4	0.66	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

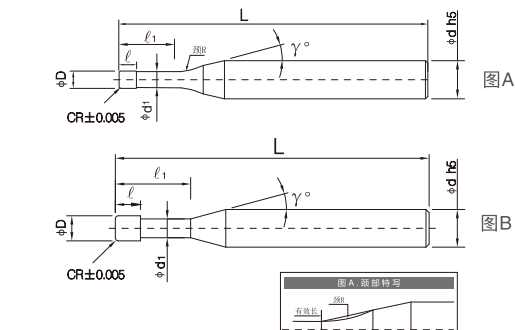
HSXR2L 2-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	颈R	有效长	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	ℓ ₁	φd ₁	γ/°	L	φd	Pic	Stock
HSXR2007R0.1L5 0450	0.7	0.1	0.56	4	5	0.66	12	50	4	A	▲
HSXR2007R0.1L6 0450	0.7	0.1	0.56	4	6	0.66	12	50	4	A	▲
HSXR2007R0.1L7 0450	0.7	0.1	0.56	4	7	0.66	12	50	4	A	△
HSXR2008R0.05L2 0450	0.8	0.05	0.64	4	2	0.76	12	50	4	A	▲
HSXR2008R0.05L3 0450	0.8	0.05	0.64	4	3	0.76	12	50	4	A	▲
HSXR2008R0.05L4 0450	0.8	0.05	0.64	4	4	0.76	12	50	4	A	▲
HSXR2008R0.05L5 0450	0.8	0.05	0.64	4	5	0.76	12	50	4	A	▲
HSXR2008R0.05L6 0450	0.8	0.05	0.64	4	6	0.76	12	50	4	A	▲
HSXR2008R0.05L8 0450	0.8	0.05	0.64	4	8	0.76	12	50	4	A	▲
HSXR2008R0.05L10 0450	0.8	0.05	0.64	4	10	0.76	12	50	4	A	△
HSXR2008R0.05L12 0450	0.8	0.05	0.64	4	12	0.76	12	50	4	A	△
HSXR2008R0.1L2 0450	0.8	0.1	0.64	4	2	0.76	12	50	4	A	▲
HSXR2008R0.1L3 0450	0.8	0.1	0.64	4	3	0.76	12	50	4	A	▲
HSXR2008R0.1L4 0450	0.8	0.1	0.64	4	4	0.76	12	50	4	A	▲
HSXR2008R0.1L5 0450	0.8	0.1	0.64	4	5	0.76	12	50	4	A	▲
HSXR2008R0.1L6 0450	0.8	0.1	0.64	4	6	0.76	12	50	4	A	▲
HSXR2008R0.1L8 0450	0.8	0.1	0.64	4	8	0.76	12	50	4	A	▲
HSXR2008R0.1L10 0450	0.8	0.1	0.64	4	10	0.76	12	50	4	A	△
HSXR2008R0.1L12 0450	0.8	0.1	0.64	4	12	0.76	12	50	4	A	△
HSXR2008R0.2L2 0450	0.8	0.2	0.64	4	2	0.76	12	50	4	A	▲
HSXR2008R0.2L3 0450	0.8	0.2	0.64	4	3	0.76	12	50	4	A	▲
HSXR2008R0.2L4 0450	0.8	0.2	0.64	4	4	0.76	12	50	4	A	▲
HSXR2008R0.2L5 0450	0.8	0.2	0.64	4	5	0.76	12	50	4	A	▲
HSXR2008R0.2L6 0450	0.8	0.2	0.64	4	6	0.76	12	50	4	A	▲
HSXR2008R0.2L8 0450	0.8	0.2	0.64	4	8	0.76	12	50	4	A	▲
HSXR2008R0.2L10 0450	0.8	0.2	0.64	4	10	0.76	12	50	4	A	△
HSXR2008R0.2L12 0450	0.8	0.2	0.64	4	12	0.76	12	50	4	A	△
HSXR2010R0.1L4 0450	1	0.1	0.8	4	4	0.94	12	50	4	A	▲
HSXR2010R0.1L6 0450	1	0.1	0.8	4	6	0.94	12	50	4	A	▲
HSXR2010R0.1L8 0450	1	0.1	0.8	4	8	0.94	12	50	4	A	▲
HSXR2010R0.1L10 0450	1	0.1	0.8	4	10	0.94	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

HSXR2L 2-Flute Long Neck Corner Radius End Mill



∅D	D Tolerance
D<3	0~-0.010
3<D≤6	0~-0.012

型 号	刃径	圆角半径	刃长	颈R	有效长	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	ℓ ₁	φd ₁	γ/°	L	φd	Pic	Stock
HSXR2010R0.2L4 0450	1	0.2	0.8	4	4	0.94	12	50	4	A	▲
HSXR2010R0.2L6 0450	1	0.2	0.8	4	6	0.94	12	50	4	A	▲
HSXR2010R0.2L8 0450	1	0.2	0.8	4	8	0.94	12	50	4	A	▲
HSXR2010R0.2L10 0450	1	0.2	0.8	4	10	0.94	12	50	4	A	▲
HSXR2015R0.1L6 0450	1.5	0.1	1.2	-	6	1.42	11	50	4	B	▲
HSXR2015R0.1L8 0450	1.5	0.1	1.2	-	8	1.42	11	50	4	B	▲
HSXR2015R0.1L10 0450	1.5	0.1	1.2	-	10	1.42	11	50	4	B	▲
HSXR2015R0.1L12 0450	1.5	0.1	1.2	-	12	1.42	11	50	4	B	▲
HSXR2015R0.2L6 0450	1.5	0.2	1.2	-	6	1.42	11	50	4	B	▲
HSXR2015R0.2L8 0450	1.5	0.2	1.2	-	8	1.42	11	50	4	B	▲
HSXR2015R0.2L10 0450	1.5	0.2	1.2	-	10	1.42	11	50	4	B	▲
HSXR2015R0.2L12 0450	1.5	0.2	1.2	-	12	1.42	11	50	4	B	▲
HSXR2020R0.1L8 0450	2	0.1	1.6	-	8	1.9	11	50	4	B	▲
HSXR2020R0.1L10 0450	2	0.1	1.6	-	10	1.9	11	50	4	B	▲
HSXR2020R0.1L12 0450	2	0.1	1.6	-	12	1.9	11	50	4	B	▲
HSXR2020R0.1L16 0450	2	0.1	1.6	-	16	1.9	11	50	4	B	▲
HSXR2020R0.2L8 0450	2	0.2	1.6	-	8	1.9	11	50	4	B	▲
HSXR2020R0.2L10 0450	2	0.2	1.6	-	10	1.9	11	50	4	B	▲
HSXR2020R0.2L12 0450	2	0.2	1.6	-	12	1.9	11	50	4	B	▲
HSXR2020R0.2L16 0450	2	0.2	1.6	-	16	1.9	11	50	4	B	▲
HSXR2020R0.5L8 0450	2	0.5	1.6	-	8	1.9	11	50	4	B	▲
HSXR2020R0.5L10 0450	2	0.5	1.6	-	10	1.9	11	50	4	B	▲
HSXR2020R0.5L12 0450	2	0.5	1.6	-	12	1.9	11	50	4	B	▲
HSXR2020R0.5L16 0450	2	0.5	1.6	-	16	1.9	11	50	4	B	▲
HSXR2030R0.1L10 0660	3	0.1	2.4	-	10	2.9	11	60	6	B	▲
HSXR2030R0.1L12 0660	3	0.1	2.4	-	12	2.9	11	60	6	B	▲
HSXR2030R0.1L16 0660	3	0.1	2.4	-	16	2.9	11	60	6	B	▲

HSXB 2-Flute Ball End Mill

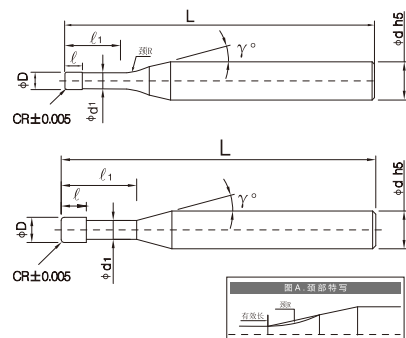
HSXR2L 2-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXR2030R0.1L20 0660	3	0.1	2.4	20	2.9	-	11	60	6	B	▲
HSXR2030R0.1L25 0675	3	0.1	2.4	25	2.9	-	11	75	6	B	▲
HSXR2030R0.2L10 0660	3	0.2	2.4	10	2.9	-	11	60	6	B	▲
HSXR2030R0.2L12 0660	3	0.2	2.4	12	2.9	-	11	60	6	B	▲
HSXR2030R0.2L16 0660	3	0.2	2.4	16	2.9	-	11	60	6	B	▲
HSXR2030R0.2L20 0660	3	0.2	2.4	20	2.9	-	11	60	6	B	▲
HSXR2030R0.2L25 0675	3	0.2	2.4	25	2.9	-	11	75	6	B	▲
HSXR2030R0.5L10 0660	3	0.5	2.4	10	2.9	-	11	60	6	B	▲
HSXR2030R0.5L12 0660	3	0.5	2.4	12	2.9	-	11	60	6	B	▲
HSXR2030R0.5L16 0660	3	0.5	2.4	16	2.9	-	11	60	6	B	▲
HSXR2030R0.5L20 0660	3	0.5	2.4	20	2.9	-	11	60	6	B	▲
HSXR2030R0.5L25 0675	3	0.5	2.4	25	2.9	-	11	75	6	B	▲
HSXR2040R0.1L12 0660	4	0.1	3.2	12	3.9	-	11	60	6	B	▲
HSXR2040R0.1L16 0660	4	0.1	3.2	16	3.9	-	11	60	6	B	▲
HSXR2040R0.1L20 0660	4	0.1	3.2	20	3.9	-	11	60	6	B	▲
HSXR2040R0.1L25 0675	4	0.1	3.2	25	3.9	-	11	75	6	B	▲
HSXR2040R0.1L30 0675	4	0.1	3.2	30	3.9	-	11	75	6	B	▲
HSXR2040R0.2L12 0660	4	0.2	3.2	12	3.9	-	11	60	6	B	▲
HSXR2040R0.2L16 0660	4	0.2	3.2	16	3.9	-	11	60	6	B	▲
HSXR2040R0.2L20 0660	4	0.2	3.2	20	3.9	-	11	60	6	B	▲
HSXR2040R0.2L25 0675	4	0.2	3.2	25	3.9	-	11	75	6	B	▲
HSXR2040R0.2L30 0675	4	0.2	3.2	30	3.9	-	11	75	6	B	▲
HSXR2040R0.5L12 0660	4	0.5	3.2	12	3.9	-	11	60	6	B	▲
HSXR2040R0.5L16 0660	4	0.5	3.2	16	3.9	-	11	60	6	B	▲
HSXR2040R0.5L20 0660	4	0.5	3.2	20	3.9	-	11	60	6	B	▲
HSXR2040R0.5L25 0675	4	0.5	3.2	25	3.9	-	11	75	6	B	▲
HSXR2040R0.5L30 0675	4	0.5	3.2	30	3.9	-	11	75	6	B	▲
HSXR2040R1.0L12 0660	4	1	3.2	12	3.9	-	11	60	6	B	▲
HSXR2040R1.0L16 0660	4	1	3.2	16	3.9	-	11	60	6	B	▲
HSXR2040R1.0L20 0660	4	1	3.2	20	3.9	-	11	60	6	B	▲
HSXR2040R1.0L25 0675	4	1	3.2	25	3.9	-	11	75	6	B	▲
HSXR2040R1.0L30 0675	4	1	3.2	30	3.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HSXR4L 4-Flute Long Neck Corner Radius End Mill



$\varnothing D$	D Tolerance
$D \leq 3$	0—0.010
$3 < D \leq 6$	0—0.012

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	$\varnothing D$	CR	l	l_1	$\varnothing d_1$	R	$\gamma/^\circ$	L	$\varnothing d$	Pic	Stock
HSXR4010R0.1L4 0450	1	0.1	0.8	4	0.94	4	12	50	4	A	▲
HSXR4010R0.1L6 0450	1	0.1	0.8	6	0.94	4	12	50	4	A	▲
HSXR4010R0.1L8 0450	1	0.1	0.8	8	0.94	4	12	50	4	A	▲
HSXR4010R0.1L10 0450	1	0.1	0.8	10	0.94	4	12	50	4	A	▲
HSXR4010R0.2L4 0450	1	0.2	0.8	4	0.94	4	12	50	4	A	▲
HSXR4010R0.2L6 0450	1	0.2	0.8	6	0.94	4	12	50	4	A	▲
HSXR4010R0.2L8 0450	1	0.2	0.8	8	0.94	4	12	50	4	A	▲
HSXR4010R0.2L10 0450	1	0.2	0.8	10	0.94	4	12	50	4	A	▲
HSXR4015R0.1L6 0450	1.5	0.1	1.2	6	1.42	-	11	50	4	B	▲
HSXR4015R0.1L8 0450	1.5	0.1	1.2	8	1.42	-	11	50	4	B	▲
HSXR4015R0.1L10 0450	1.5	0.1	1.2	10	1.42	-	11	50	4	B	▲
HSXR4015R0.1L12 0450	1.5	0.1	1.2	12	1.42	-	11	50	4	B	▲
HSXR4015R0.2L6 0450	1.5	0.2	1.2	6	1.42	-	11	50	4	B	▲
HSXR4015R0.2L8 0450	1.5	0.2	1.2	8	1.42	-	11	50	4	B	▲
HSXR4015R0.2L10 0450	1.5	0.2	1.2	10	1.42	-	11	50	4	B	▲
HSXR4015R0.2L12 0450	1.5	0.2	1.2	12	1.42	-	11	50	4	B	▲
HSXR4020R0.1L8 0450	2	0.1	1.6	8	1.9	-	11	50	4	B	▲
HSXR4020R0.1L10 0450	2	0.1	1.6	10	1.9	-	11	50	4	B	▲
HSXR4020R0.1L12 0450	2	0.1	1.6	12	1.9	-	11	50	4	B	▲
HSXR4020R0.1L16 0450	2	0.1	1.6	16	1.9	-	11	50	4	B	▲
HSXR4020R0.2L8 0450	2	0.2	1.6	8	1.9	-	11	50	4	B	▲
HSXR4020R0.2L10 0450	2	0.2	1.6	10	1.9	-	11	50	4	B	▲
HSXR4020R0.2L12 0450	2	0.2	1.6	12	1.9	-	11	50	4	B	▲
HSXR4020R0.2L16 0450	2	0.2	1.6	16	1.9	-	11	50	4	B	▲

HSXB 2-Flute Ball End Mill

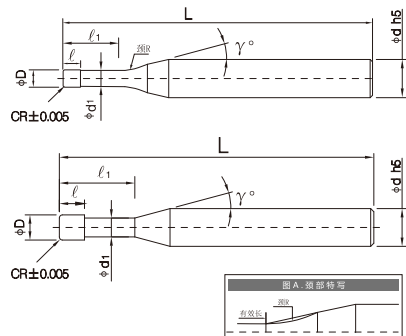
HSXR4L 4-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXR4020R0.5L8 0450	2	0.5	1.6	8	1.9	-	11	50	4	B	▲
HSXR4020R0.5L10 0450	2	0.5	1.6	10	1.9	-	11	50	4	B	▲
HSXR4020R0.5L12 0450	2	0.5	1.6	12	1.9	-	11	50	4	B	▲
HSXR4020R0.5L16 0450	2	0.5	1.6	16	1.9	-	11	50	4	B	▲
HSXR4030R0.1L10 0660	3	0.1	2.4	10	2.9	-	11	60	6	B	▲
HSXR4030R0.1L12 0660	3	0.1	2.4	12	2.9	-	11	60	6	B	▲
HSXR4030R0.1L16 0660	3	0.1	2.4	16	2.9	-	11	60	6	B	▲
HSXR4030R0.1L20 0660	3	0.1	2.4	20	2.9	-	11	60	6	B	▲
HSXR4030R0.1L25 0675	3	0.1	2.4	25	2.9	-	11	75	6	B	▲
HSXR4030R0.2L10 0660	3	0.2	2.4	10	2.9	-	11	60	6	B	▲
HSXR4030R0.2L12 0660	3	0.2	2.4	12	2.9	-	11	60	6	B	▲
HSXR4030R0.2L16 0660	3	0.2	2.4	16	2.9	-	11	60	6	B	▲
HSXR4030R0.2L20 0660	3	0.2	2.4	20	2.9	-	11	60	6	B	▲
HSXR4030R0.2L25 0675	3	0.2	2.4	25	2.9	-	11	75	6	B	▲
HSXR4030R0.5L10 0660	3	0.5	2.4	10	2.9	-	11	60	6	B	▲
HSXR4030R0.5L12 0660	3	0.5	2.4	12	2.9	-	11	60	6	B	▲
HSXR4030R0.5L16 0660	3	0.5	2.4	16	2.9	-	11	60	6	B	▲
HSXR4030R0.5L20 0660	3	0.5	2.4	20	2.9	-	11	60	6	B	▲
HSXR4030R0.5L25 0675	3	0.5	2.4	25	2.9	-	11	75	6	B	▲
HSXR4040R0.1L12 0660	4	0.1	3.2	12	3.9	-	11	60	6	B	▲
HSXR4040R0.1L16 0660	4	0.1	3.2	16	3.9	-	11	60	6	B	▲
HSXR4040R0.1L20 0660	4	0.1	3.2	20	3.9	-	11	60	6	B	▲
HSXR4040R0.1L25 0675	4	0.1	3.2	25	3.9	-	11	75	6	B	▲
HSXR4040R0.1L30 0675	4	0.1	3.2	30	3.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HSXR4L 4-Flute Long Neck Corner Radius End Mill



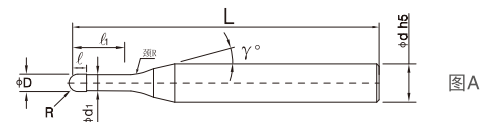
∅D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

单位:mm

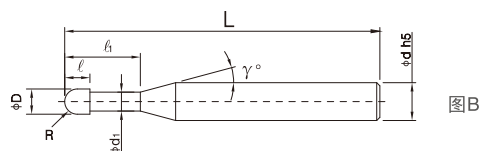
型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HSXR4040R0.2L12 0660	4	0.2	3.2	12	3.9	-	11	60	6	B	▲
HSXR4040R0.2L16 0660	4	0.2	3.2	16	3.9	-	11	60	6	B	▲
HSXR4040R0.2L20 0660	4	0.2	3.2	20	3.9	-	11	60	6	B	▲
HSXR4040R0.2L25 0675	4	0.2	3.2	25	3.9	-	11	75	6	B	▲
HSXR4040R0.2L30 0675	4	0.2	3.2	30	3.9	-	11	75	6	B	▲
HSXR4040R0.5L12 0660	4	0.5	3.2	12	3.9	-	11	60	6	B	▲
HSXR4040R0.5L16 0660	4	0.5	3.2	16	3.9	-	11	60	6	B	▲
HSXR4040R0.5L20 0660	4	0.5	3.2	20	3.9	-	11	60	6	B	▲
HSXR4040R0.5L25 0675	4	0.5	3.2	25	3.9	-	11	75	6	B	▲
HSXR4040R0.5L30 0675	4	0.5	3.2	30	3.9	-	11	75	6	B	▲
HSXR4040R1.0L12 0660	4	1	3.2	12	3.9	-	11	60	6	B	▲
HSXR4040R1.0L16 0660	4	1	3.2	16	3.9	-	11	60	6	B	▲
HSXR4040R1.0L20 0660	4	1	3.2	20	3.9	-	11	60	6	B	▲
HSXR4040R1.0L25 0675	4	1	3.2	25	3.9	-	11	75	6	B	▲
HSXR4040R1.0L30 0675	4	1	3.2	30	3.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HGXB 2-Flute Ball End Mill



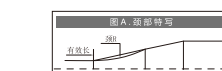
图A



图B



ϕD	D Tolerance
$D < 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018



ϕD	R Tolerance
$D < 8$	± 0.005
$D > 8$	± 0.008

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	R	ℓ	ℓ_1	ϕd_1	R	γ°	L	ϕd	Pic	Stock
HGXB2004 0450	0.4	0.2	0.6	-	-	2	12	50	4	A	▲
HGXB2005 0450	0.5	0.25	0.8	-	-	2	12	50	4	A	▲
HGXB2006 0450	0.6	0.3	0.9	-	-	4	12	50	4	A	▲
HGXB2008 0450	0.8	0.4	1.2	-	-	4	12	50	4	A	▲
HGXB2010 0450	1	0.5	0.8	2	0.94	4	12	50	4	A	▲
HGXB2010 0650	1	0.5	0.8	2.5	0.94	4	12	50	6	A	▲
HGXB2010 0660	1	0.5	0.8	2.5	0.94	4	12	60	6	A	▲
HGXB2010 0675	1	0.5	0.8	2.5	0.94	4	12	75	6	A	▲
HGXB2010 06100	1	0.5	0.8	2.5	0.94	4	12	100	6	A	▲
HGXB2015 0450	1.5	0.75	1.2	3	1.42	-	11	50	4	B	▲
HGXB2015 0650	1.5	0.75	1.2	4	1.42	-	11	50	6	B	▲
HGXB2015 0660	1.5	0.75	1.2	4	1.42	-	11	60	6	B	▲
HGXB2015 0675	1.5	0.75	1.2	4	1.42	-	11	75	6	B	▲
HGXB2015 06100	1.5	0.75	1.2	4	1.42	-	11	100	6	B	△
HGXB2020 0450	2	1	1.6	4	1.9	-	11	50	4	B	▲
HGXB2020 0650	2	1	1.6	6	1.9	-	11	50	6	B	▲
HGXB2020 0660	2	1	1.6	6	1.9	-	11	60	6	B	▲
HGXB2020 0675	2	1	1.6	6	1.9	-	11	75	6	B	▲
HGXB2020 06100	2	1	1.6	6	1.9	-	11	100	6	B	△
HGXB2025 0450	2.5	1.25	2	5	2.4	-	11	50	4	B	▲
HGXB2025 0650	2.5	1.25	2	7	2.4	-	11	50	6	B	▲
HGXB2025 0660	2.5	1.25	2	7	2.4	-	11	60	6	B	▲
HGXB2025 0675	2.5	1.25	2	7	2.4	-	11	75	6	B	▲
HGXB2025 06100	2.5	1.25	2	7	2.4	-	11	100	6	B	△
HGXB2030 0450	3	1.5	2.4	6	2.9	-	11	50	4	B	▲
HGXB2030 0650	3	1.5	2.4	8	2.9	-	11	50	6	B	▲
HGXB2030 0660	3	1.5	2.4	8	2.9	-	11	60	6	B	▲
HGXB2030 0675	3	1.5	2.4	8	2.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HGXB 2-Flute Ball End Mill

单位:mm

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXB2030 06100	3	1.5	2.4	8	2.9	-	11	100	6	B	△
HGXB2040 0450	4	2	6	-	-	-	-	50	4	B	▲
HGXB2040 0475	4	2	6	-	-	-	-	75	4	B	▲
HGXB2040 0650	4	2	3.2	10	3.9	-	11	50	6	B	▲
HGXB2040 0660	4	2	3.2	10	3.9	-	11	60	6	B	▲
HGXB2040 0675	4	2	3.2	10	3.9	-	11	75	6	B	▲
HGXB2040 06100	4	2	3.2	10	3.9	-	11	100	6	B	△
HGXB2050 0650	5	2.5	4	12	4.85	-	11	50	6	B	▲
HGXB2050 0660	5	2.5	4	12	4.85	-	11	60	6	B	▲
HGXB2050 0675	5	2.5	4	12	4.85	-	11	75	6	B	▲
HGXB2050 06100	5	2.5	4	12	4.85	-	11	100	6	B	△
HGXB2060 0650	6	3	9	-	-	-	-	50	6	B	▲
HGXB2060 0660	6	3	9	-	-	-	-	60	6	B	▲
HGXB2060 0675	6	3	9	-	-	-	-	75	6	B	▲
HGXB2060 06100	6	3	9	-	-	-	-	100	6	B	▲
HGXB2080 0860	8	4	12	-	-	-	-	60	8	B	▲
HGXB2080 0875	8	4	12	-	-	-	-	75	8	B	▲
HGXB2080 08100	8	4	12	-	-	-	-	100	8	B	▲
HGXB2080 08125	8	4	12	-	-	-	-	125	8	B	▲
HGXB2080 08150	8	4	12	-	-	-	-	150	8	B	▲
HGXB2100 1075	10	5	15	-	-	-	-	75	10	B	▲
HGXB2100 10100	10	5	15	-	-	-	-	100	10	B	▲
HGXB2100 10125	10	5	15	-	-	-	-	125	10	B	△
HGXB2100 10150	10	5	15	-	-	-	-	150	10	B	△
HGXB2120 1275	12	6	18	-	-	-	-	75	12	B	△
HGXB2120 12100	12	6	18	-	-	-	-	100	12	B	△
HGXB2120 12125	12	6	18	-	-	-	-	125	12	B	△
HGXB2120 12150	12	6	18	-	-	-	-	150	12	B	△
HGXB2160 16100	16	8	24	-	-	-	-	100	16	B	△
HGXB2160 16150	16	8	24	-	-	-	-	150	16	B	△

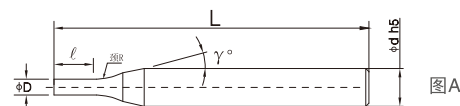
可切削材料适用表
TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合 ○ 适合

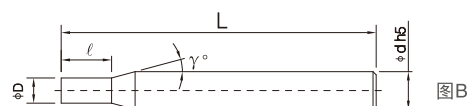
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

HSXB 2-Flute Ball End Mill

HGXE 2-Flute End Mill



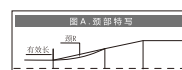
图A



图B



ϕD	D Tolerance
$D < 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D < 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018



图A: 球部特写

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	ℓ	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXE2004 0450	0.4	1.2	2	12	50	4	A	▲
HGXE2005 0450	0.5	1.5	2	12	50	4	A	▲
HGXE2006 0450	0.6	1.8	4	12	50	4	A	▲
HGXE2008 0450	0.8	2.4	4	12	50	4	A	▲
HGXE2010 0450	1	3	4	12	50	4	A	▲
HGXE2010 0650	1	3	4	12	50	6	A	▲
HGXE2015 0450	1.5	4	-	11	50	4	B	▲
HGXE2015 0650	1.5	4	-	11	50	6	B	▲
HGXE2020 0450	2	6	-	11	50	4	B	▲
HGXE2020 0650	2	6	-	11	50	6	B	▲
HGXE2025 0450	2.5	8	-	11	50	4	B	▲
HGXE2025 0650	2.5	8	-	11	50	6	B	▲
HGXE2030 0450	3	8	-	11	50	4	B	▲
HGXE2030 0650	3	8	-	11	50	6	B	▲
HGXE2030 0675	3	12	-	11	75	6	B	▲
HGXE2040 0450	4	11	-	-	50	4	B	▲
HGXE2040 0475	4	15	-	-	75	4	B	▲
HGXE2040 0650	4	11	-	11	50	6	B	▲
HGXE2040 0675	4	15	-	11	75	6	B	▲
HGXE2050 0650	5	13	-	11	50	6	B	▲
HGXE2050 0675	5	18	-	11	75	6	B	▲
HGXE2060 0650	6	16	-	-	50	6	B	▲
HGXE2060 0660	6	16	-	-	60	6	B	▲
HGXE2060 0675	6	20	-	-	75	6	B	▲
HGXE2060 06100	6	20	-	-	100	6	B	▲
HGXE2080 0860	8	20	-	-	60	8	B	▲
HGXE2080 0875	8	20	-	-	75	8	B	▲
HGXE2080 08100	8	25	-	-	100	8	B	▲

HSXB 2-Flute Ball End Mill

HGXE 2-Flute End Mill

单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HGXE2100 1075	10	25	-	-	75	10	B	▲
HGXE2100 10100	10	30	-	-	100	10	B	▲
HGXE2120 1275	12	30	-	-	75	12	B	▲
HGXE2120 12100	12	35	-	-	100	12	B	▲
HGXE2140 1475	14	32	-	-	75	14	B	▲
HGXE2140 14100	14	40	-	-	100	14	B	▲
HGXE2160 16100	16	45	-	-	100	16	B	▲
HGXE2160 16150	16	50	-	-	150	16	B	▲
HGXE2200 20100	20	45	-	-	100	20	B	▲
HGXE2200 20150	20	55	-	-	150	20	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
		预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS				球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

○ 非常适合 ○ 适合



E042

A

Grooving

B

Threading

C

Turning

D

Drilling

M

Milling

F

Taps

G

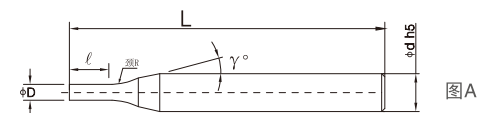
Special Tools

H

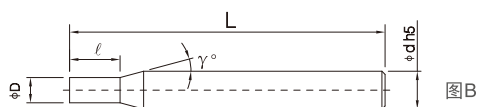
Technical Info

HSXB 2-Flute Ball End Mill

HGXE 4-Flute End Mill



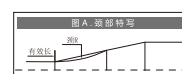
图A



图B



∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



图C: 底部特写

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HGXE4010 0450	1	3	4	12	50	4	A	▲
HGXE4010 0650	1	3	4	12	50	6	A	▲
HGXE4015 0450	1.5	4	-	11	50	4	B	▲
HGXE4015 0650	1.5	4	-	11	50	6	B	▲
HGXE4020 0450	2	6	-	11	50	4	B	▲
HGXE4020 0650	2	6	-	11	50	6	B	▲
HGXE4025 0450	2.5	8	-	11	50	4	B	▲
HGXE4025 0650	2.5	8	-	11	50	6	B	▲
HGXE4030 0450	3	8	-	11	50	4	B	▲
HGXE4030 0650	3	8	-	11	50	6	B	▲
HGXE4030 0675	3	12	-	11	75	6	B	▲
HGXE4040 0450	4	11	-	-	50	4	B	▲
HGXE4040 0475	4	15	-	-	75	4	B	▲
HGXE4040 0650	4	11	-	11	50	6	B	▲
HGXE4040 0675	4	15	-	11	75	6	B	▲
HGXE4050 0650	5	13	-	11	50	6	B	▲
HGXE4050 0675	5	18	-	11	75	6	B	▲
HGXE4060 0650	6	16	-	-	50	6	B	▲
HGXE4060 0660	6	16	-	-	60	6	B	▲
HGXE4060 0675	6	20	-	-	75	6	B	▲
HGXE4060 06100	6	20	-	-	100	6	B	▲
HGXE4080 0860	8	20	-	-	60	8	B	▲
HGXE4080 0875	8	20	-	-	75	8	B	▲
HGXE4080 08100	8	25	-	-	100	8	B	▲

E043



HSXB 2-Flute Ball End Mill

HGXE 4-Flute End Mill

单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HGXE4100 1075	10	25	-	-	75	10	B	▲
HGXE4100 10100	10	30	-	-	100	10	B	▲
HGXE4120 1275	12	30	-	-	75	12	B	▲
HGXE4120 12100	12	35	-	-	100	12	B	▲
HGXE4140 1475	14	32	-	-	75	14	B	▲
HGXE4140 14100	14	40	-	-	100	14	B	▲
HGXE4160 16100	16	45	-	-	100	16	B	▲
HGXE4160 16150	16	50	-	-	150	16	B	▲
HGXE4200 20100	20	45	-	-	100	20	B	▲
HGXE4200 20150	20	55	-	-	150	20	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常合适 ○ 适合

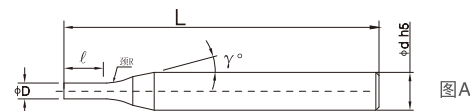
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石 墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑 料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS	~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB					
○		○	○	○			○	○	○		○	○	



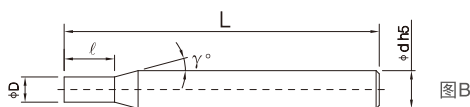
E044

HSXB 2-Flute Ball End Mill

HGXEF 4-Flute End Mill-45°



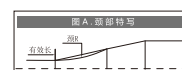
图A



图B



∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



图A: 顶部特写

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HGXEF4010 0450	1	3	4	12	50	4	A	▲
HGXEF4010 0650	1	3	4	12	50	6	A	▲
HGXEF4015 0450	1.5	4	-	11	50	4	B	▲
HGXEF4015 0650	1.5	4	-	11	50	6	B	▲
HGXEF4020 0450	2	6	-	11	50	4	B	▲
HGXEF4020 0650	2	6	-	11	50	6	B	▲
HGXEF4025 0450	2.5	8	-	11	50	4	B	▲
HGXEF4025 0650	2.5	8	-	11	50	6	B	▲
HGXEF4030 0450	3	8	-	11	50	4	B	▲
HGXEF4030 0650	3	8	-	11	50	6	B	▲
HGXEF4030 0675	3	12	-	11	75	6	B	▲
HGXEF4040 0450	4	11	-	-	50	4	B	▲
HGXEF4040 0475	4	15	-	-	75	4	B	▲
HGXEF4040 0650	4	11	-	11	50	6	B	▲
HGXEF4040 0675	4	15	-	11	75	6	B	▲
HGXEF4050 0650	5	13	-	11	50	6	B	▲
HGXEF4050 0675	5	18	-	11	75	6	B	▲
HGXEF4060 0650	6	16	-	-	50	6	B	▲
HGXEF4060 0660	6	16	-	-	60	6	B	▲
HGXEF4060 0675	6	20	-	-	75	6	B	▲

HSXB 2-Flute Ball End Mill

HGXEF 4-Flute End Mill-45°

单位:mm

型 号	刃径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	R	γ/°	L	φd	Pic	Stock
HGXEF4060 06100	6	20	-	-	100	6	B	▲
HGXEF4080 0860	8	20	-	-	60	8	B	▲
HGXEF4080 0875	8	20	-	-	75	8	B	▲
HGXEF4080 08100	8	25	-	-	100	8	B	▲
HGXEF4080 08125	8	28	-	-	125	8	B	▲
HGXEF4080 08150	8	28	-	-	150	8	B	▲
HGXEF4100 1075	10	25	-	-	75	10	B	▲
HGXEF4100 10100	10	30	-	-	100	10	B	▲
HGXEF4100 10125	10	35	-	-	125	10	B	▲
HGXEF4100 10150	10	35	-	-	150	10	B	▲
HGXEF4120 1275	12	30	-	-	75	12	B	▲
HGXEF4120 12100	12	35	-	-	100	12	B	▲
HGXEF4120 12125	12	42	-	-	125	12	B	▲
HGXEF4120 12150	12	42	-	-	150	12	B	▲
HGXEF4140 1475	14	32	-	-	75	14	B	△
HGXEF4140 14100	14	40	-	-	100	14	B	△
HGXEF4160 16100	16	45	-	-	100	16	B	△
HGXEF4160 16150	16	50	-	-	150	16	B	△
HGXEF4200 20100	20	45	-	-	100	20	B	△
HGXEF4200 20150	20	55	-	-	150	20	B	△

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS、HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石 墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑 料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

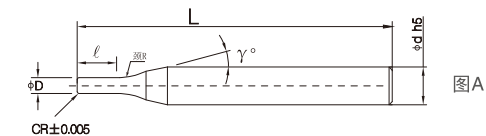
○ 非常适合 ○ 适合



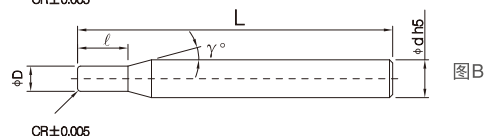
E046

HSXB 2-Flute Ball End Mill

HGXR 2-Flute Corner Radius End Mill



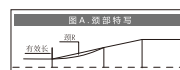
图A



图B



∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018



型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HGXR2010R0.2 0450	1	0.2	2	4	12	50	4	A	▲
HGXR2015R0.2 0450	1.5	0.2	3	-	11	50	4	B	▲
HGXR2020R0.2 0450	2	0.2	4	-	11	50	4	B	▲
HGXR2020R0.5 0450	2	0.5	4	-	11	50	4	B	▲
HGXR2025R0.2 0450	2.5	0.2	5	-	11	50	4	B	▲
HGXR2025R0.5 0450	2.5	0.5	5	-	11	50	4	B	▲
HGXR2030R0.2 0450	3	0.2	6	-	11	50	4	B	▲
HGXR2030R0.2 0650	3	0.2	6	-	11	50	6	B	▲
HGXR2030R0.2 0660	3	0.2	6	-	11	60	6	B	▲
HGXR2030R0.2 0675	3	0.2	6	-	11	75	6	B	▲
HGXR2030R0.5 0450	3	0.5	6	-	11	50	4	B	▲
HGXR2030R0.5 0650	3	0.5	6	-	11	50	6	B	▲
HGXR2030R0.5 0660	3	0.5	6	-	11	60	6	B	▲
HGXR2030R0.5 0675	3	0.5	6	-	11	75	6	B	▲
HGXR2040R0.2 0450	4	0.2	8	-	11	50	4	B	▲
HGXR2040R0.2 0475	4	0.2	8	-	-	75	4	B	▲
HGXR2040R0.2 0650	4	0.2	8	-	11	50	6	B	▲
HGXR2040R0.2 0660	4	0.2	8	-	11	60	6	B	▲
HGXR2040R0.2 0675	4	0.2	8	-	11	75	6	B	▲
HGXR2040R0.5 0450	4	0.5	8	-	-	50	4	B	▲
HGXR2040R0.5 0475	4	0.5	8	-	-	75	4	B	▲
HGXR2040R0.5 0650	4	0.5	8	-	11	50	6	B	▲
HGXR2040R0.5 0660	4	0.5	8	-	11	60	6	B	▲
HGXR2040R0.5 0675	4	0.5	8	-	11	75	6	B	▲
HGXR2040R1.0 0450	4	1	8	-	-	50	4	B	▲
HGXR2040R1.0 0475	4	1	8	-	-	75	4	B	▲
HGXR2040R1.0 0650	4	1	8	-	11	50	6	B	▲
HGXR2040R1.0 0660	4	1	8	-	11	60	6	B	▲

HSXB 2-Flute Ball End Mill

HGXR 2-Flute Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HGXR2040R1.0 0675	4	1	8	-	11	75	6	B	▲
HGXR2060R0.5 0650	6	0.5	12	-	-	50	6	B	▲
HGXR2060R0.5 0660	6	0.5	12	-	-	60	6	B	▲
HGXR2060R0.5 0675	6	0.5	12	-	-	75	6	B	▲
HGXR2060R0.5 06100	6	0.5	12	-	-	100	6	B	▲
HGXR2060R1.0 0650	6	1	12	-	-	50	6	B	▲
HGXR2060R1.0 0660	6	1	12	-	-	60	6	B	▲
HGXR2060R1.0 0675	6	1	12	-	-	75	6	B	▲
HGXR2060R1.0 06100	6	1	12	-	-	100	6	B	▲
HGXR2080R0.5 0860	8	0.5	16	-	-	60	8	B	▲
HGXR2080R0.5 0875	8	0.5	16	-	-	75	8	B	▲
HGXR2080R0.5 08100	8	0.5	16	-	-	100	8	B	▲
HGXR2080R1.0 0860	8	1	16	-	-	60	8	B	▲
HGXR2080R1.0 0875	8	1	16	-	-	75	8	B	▲
HGXR2080R1.0 08100	8	1	16	-	-	100	8	B	▲
HGXR2100R0.5 1075	10	0.5	20	-	-	75	10	B	▲
HGXR2100R0.5 10100	10	0.5	20	-	-	100	10	B	▲
HGXR2100R1.0 1075	10	1	20	-	-	75	10	B	▲
HGXR2100R1.0 10100	10	1	20	-	-	100	10	B	▲
HGXR2120R0.5 1275	12	0.5	24	-	-	75	12	B	▲
HGXR2120R0.5 12100	12	0.5	24	-	-	100	12	B	▲
HGXR2120R1.0 1275	12	1	24	-	-	75	12	B	▲
HGXR2120R1.0 12100	12	1	24	-	-	100	12	B	▲
HGXR2120R2.0 1275	12	2	24	-	-	75	12	B	▲
HGXR2120R2.0 12100	12	2	24	-	-	100	12	B	▲

可切削材料适用表
TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常合适 ○ 适合

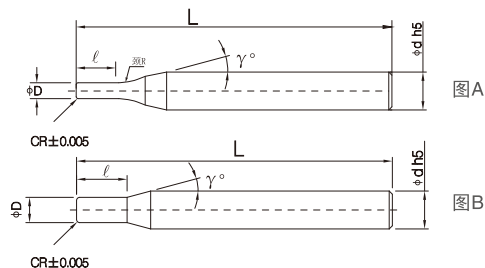
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石 墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑 料 PLASTIC
		预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS				球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	



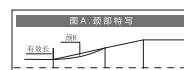
E048

HSXB 2-Flute Ball End Mill

HGXR 4-Flute Corner Radius End Mill



ϕD	D Tolerance
$D < 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018



型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	CR	ℓ	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXR4010R0.2 0450	1	0.2	2	4	12	50	4	A	▲
HGXR4015R0.2 0450	1.5	0.2	3	-	11	50	4	B	▲
HGXR4020R0.2 0450	2	0.2	4	-	11	50	4	B	▲
HGXR4020R0.5 0450	2	0.5	4	-	11	50	4	B	▲
HGXR4030R0.2 0450	3	0.2	6	-	11	50	4	B	▲
HGXR4030R0.2 0650	3	0.2	6	-	11	50	6	B	▲
HGXR4030R0.2 0660	3	0.2	6	-	11	60	6	B	▲
HGXR4030R0.2 0675	3	0.2	6	-	11	75	6	B	▲
HGXR4030R0.5 0450	3	0.5	6	-	11	50	4	B	▲
HGXR4030R0.5 0650	3	0.5	6	-	11	50	6	B	▲
HGXR4030R0.5 0660	3	0.5	6	-	11	60	6	B	▲
HGXR4030R0.5 0675	3	0.5	6	-	11	75	6	B	▲
HGXR4040R0.2 0450	4	0.2	8	-	-	50	4	B	▲
HGXR4040R0.2 0475	4	0.2	8	-	-	75	4	B	▲
HGXR4040R0.2 0650	4	0.2	8	-	11	50	6	B	▲
HGXR4040R0.2 0660	4	0.2	8	-	11	60	6	B	▲
HGXR4040R0.2 0675	4	0.2	8	-	11	75	6	B	▲
HGXR4040R0.5 0450	4	0.5	8	-	-	50	4	B	▲
HGXR4040R0.5 0475	4	0.5	8	-	-	75	4	B	▲
HGXR4040R0.5 0650	4	0.5	8	-	11	50	6	B	▲
HGXR4040R0.5 0660	4	0.5	8	-	11	60	6	B	▲
HGXR4040R0.5 0675	4	0.5	8	-	11	75	6	B	▲
HGXR4040R1.0 0450	4	1	8	-	-	50	4	B	▲
HGXR4040R1.0 0475	4	1	8	-	-	75	4	B	▲
HGXR4040R1.0 0650	4	1	8	-	11	50	6	B	▲
HGXR4040R1.0 0660	4	1	8	-	11	60	6	B	▲
HGXR4040R1.0 0675	4	1	8	-	11	75	6	B	△

HSXB 2-Flute Ball End Mill

HGXR 4-Flute Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	R	γ/°	L	φd	Pic	Stock
HGXR4060R0.5 0650	6	0.5	12	-	-	50	6	B	▲
HGXR4060R0.5 0660	6	0.5	12	-	-	60	6	B	▲
HGXR4060R0.5 0675	6	0.5	12	-	-	75	6	B	▲
HGXR4060R0.5 06100	6	0.5	12	-	-	100	6	B	▲
HGXR4060R1.0 0650	6	1	12	-	-	50	6	B	▲
HGXR4060R1.0 0660	6	1	12	-	-	60	6	B	▲
HGXR4060R1.0 0675	6	1	12	-	-	75	6	B	▲
HGXR4060R1.0 06100	6	1	12	-	-	100	6	B	▲
HGXR4080R0.5 0860	8	0.5	16	-	-	60	8	B	▲
HGXR4080R0.5 0875	8	0.5	16	-	-	75	8	B	▲
HGXR4080R0.5 08100	8	0.5	16	-	-	100	8	B	▲
HGXR4080R0.5 08125	8	0.5	20	-	-	125	8	B	▲
HGXR4080R0.5 08150	8	0.5	20	-	-	150	8	B	▲
HGXR4080R1.0 0860	8	1	16	-	-	60	8	B	▲
HGXR4080R1.0 0875	8	1	16	-	-	75	8	B	▲
HGXR4080R1.0 08100	8	1	16	-	-	100	8	B	▲
HGXR4100R0.5 1075	10	0.5	20	-	-	75	10	B	▲
HGXR4100R0.5 10100	10	0.5	20	-	-	100	10	B	▲
HGXR4100R0.5 10125	10	0.5	25	-	-	125	10	B	▲
HGXR4100R0.5 10150	10	0.5	25	-	-	150	10	B	▲
HGXR4100R1.0 1075	10	1	20	-	-	75	10	B	▲
HGXR4100R1.0 10100	10	1	20	-	-	100	10	B	▲
HGXR4120R0.5 1275	12	0.5	24	-	-	75	12	B	▲
HGXR4120R0.5 12100	12	0.5	24	-	-	100	12	B	▲
HGXR4120R0.5 12125	12	0.5	30	-	-	125	12	B	△
HGXR4120R0.5 12150	12	0.5	30	-	-	150	12	B	△
HGXR4120R1.0 1275	12	1	24	-	-	75	12	B	△
HGXR4120R1.0 12100	12	1	24	-	-	100	12	B	△
HGXR4120R2.0 1275	12	2	24	-	-	75	12	B	△
HGXR4120R2.0 12100	12	2	24	-	-	100	12	B	△

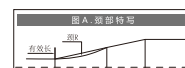
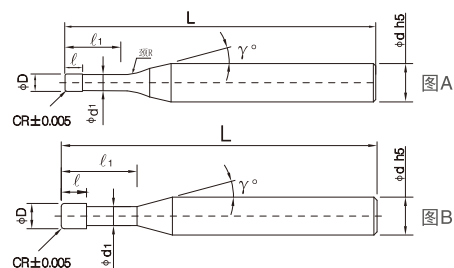
可切削材料适用表
TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合 ○ 适合

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

HSXB 2-Flute Ball End Mill

HGXRP 4-Flute Short Corner Radius End Mill



ϕD	D Tolerance
$D \leq 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012
$6 < D \leq 10$	0 ~ -0.015
$10 < D \leq 18$	0 ~ -0.018

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	CR	ℓ	ℓ_1	ϕd_1	R	$\gamma / ^\circ$	L	ϕd	Pic	Stock
HGXRP4010R0.2 0450	1	0.2	1	3	0.94	4	-	50	4	A	▲
HGXRP4015R0.2 0450	1.5	0.2	1.5	4.5	1.42	-	-	50	4	B	▲
HGXRP4020R0.2 0450	2	0.2	2	6	1.9	-	-	50	4	B	▲
HGXRP4020R0.5 0450	2	0.5	2	6	1.9	-	-	50	4	B	▲
HGXRP4030R0.2 0450	3	0.2	3	9	2.9	-	-	50	4	B	▲
HGXRP4030R0.2 0650	3	0.2	3	9	2.9	-	-	50	6	B	▲
HGXRP4030R0.2 0660	3	0.2	3	9	2.9	-	-	60	6	B	▲
HGXRP4030R0.2 0675	3	0.2	3	9	2.9	-	-	75	6	B	▲
HGXRP4030R0.3 0450	3	0.3	3	9	2.9	-	-	50	4	B	▲
HGXRP4030R0.3 0660	3	0.3	3	9	2.9	-	-	50	6	B	▲
HGXRP4030R0.3 0660	3	0.3	3	9	2.9	-	-	60	6	B	▲
HGXRP4030R0.3 0675	3	0.3	3	9	2.9	-	-	75	6	B	▲
HGXRP4030R0.5 0450	3	0.5	3	9	2.9	-	-	50	4	B	▲
HGXRP4030R0.5 0650	3	0.5	3	9	2.9	-	-	50	6	B	▲
HGXRP4030R0.5 0660	3	0.5	3	9	2.9	-	-	60	6	B	▲
HGXRP4030R0.5 0675	3	0.5	3	9	2.9	-	-	75	6	B	▲
HGXRP4040R0.2 0450	4	0.2	4	12	3.9	-	-	50	4	B	▲
HGXRP4040R0.2 0650	4	0.2	4	12	3.9	-	-	50	6	B	▲
HGXRP4040R0.2 0660	4	0.2	4	12	3.9	-	-	60	6	B	▲
HGXRP4040R0.2 0675	4	0.2	4	12	3.9	-	-	75	6	B	▲
HGXRP4040R0.5 0450	4	0.5	4	12	3.9	-	-	50	4	B	▲
HGXRP4040R0.5 0650	4	0.5	4	12	3.9	-	-	50	6	B	▲
HGXRP4040R0.5 0660	4	0.5	4	12	3.9	-	-	60	6	B	▲
HGXRP4040R0.5 0675	4	0.5	4	12	3.9	-	-	75	6	B	▲
HGXRP4040R1.0 0450	4	1	4	12	3.9	-	-	50	4	B	▲
HGXRP4040R1.0 0650	4	1	4	12	3.9	-	-	50	6	B	▲

HSXB 2-Flute Ball End Mill

HGXRP 4-Flute Short Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.		CR	ℓ	ℓ_1	ϕd_1	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXRP4040R1.0 0660	4	1	4	12	3.9	-	-	60	6	B	▲
HGXRP4040R1.0 0675	4	1	4	12	3.9	-	-	75	6	B	▲
HGXRP4060R0.2 0650	6	0.2	6	18	5.85	-	-	50	6	B	▲
HGXRP4060R0.2 0660	6	0.2	6	18	5.85	-	-	60	6	B	▲
HGXRP4060R0.2 0675	6	0.2	6	18	5.85	-	-	75	6	B	▲
HGXRP4060R0.2 06100	6	0.2	6	18	5.85	-	-	100	6	B	▲
HGXRP4060R0.5 0650	6	0.5	6	18	5.85	-	-	50	6	B	▲
HGXRP4060R0.5 0660	6	0.5	6	18	5.85	-	-	60	6	B	▲
HGXRP4060R0.5 0675	6	0.5	6	18	5.85	-	-	75	6	B	▲
HGXRP4060R0.5 06100	6	0.5	6	18	5.85	-	-	100	6	B	▲
HGXRP4060R1.0 0650	6	1	6	18	5.85	-	-	50	6	B	▲
HGXRP4060R1.0 0660	6	1	6	18	5.85	-	-	60	6	B	▲
HGXRP4060R1.0 0675	6	1	6	18	5.85	-	-	75	6	B	▲
HGXRP4060R1.0 06100	6	1	6	18	5.85	-	-	100	6	B	▲
HGXRP4080R0.5 0860	8	0.5	8	24	7.8	-	-	60	8	B	▲
HGXRP4080R0.5 0875	8	0.5	8	24	7.8	-	-	75	8	B	▲
HGXRP4080R0.5 08100	8	0.5	8	24	7.8	-	-	100	8	B	▲
HGXRP4080R0.5 08125	8	0.5	8	24	7.8	-	-	125	8	B	▲
HGXRP4080R0.5 08150	8	0.5	8	24	7.8	-	-	150	8	B	▲
HGXRP4080R1.0 0860	8	1	8	24	7.8	-	-	60	8	B	▲
HGXRP4080R1.0 0875	8	1	8	24	7.8	-	-	75	8	B	▲
HGXRP4080R1.0 08100	8	1	8	24	7.8	-	-	100	8	B	▲
HGXRP4100R0.5 1075	10	0.5	10	30	9.8	-	-	75	10	B	▲
HGXRP4100R0.5 10100	10	0.5	10	30	9.8	-	-	100	10	B	▲
HGXRP4100R0.5 10125	10	0.5	10	30	9.8	-	-	125	10	B	▲
HGXRP4100R0.5 10150	10	0.5	10	30	9.8	-	-	150	10	B	▲
HGXRP4100R1.0 1075	10	1	10	30	9.8	-	-	75	10	B	▲
HGXRP4100R1.0 10100	10	1	10	30	9.8	-	-	100	10	B	▲
HGXRP4120R0.5 1275	12	0.5	12	36	11.7	-	-	75	12	B	▲
HGXRP4120R0.5 12100	12	0.5	12	36	11.7	-	-	100	12	B	▲



A

Grooving

B

Threading

C

Turning

D

Drilling

E

Milling

F

Taps

G

Special Tools

H

Technical Info

HSXB 2-Flute Ball End Mill

HGXRP 4-Flute Short Corner Radius End Mill

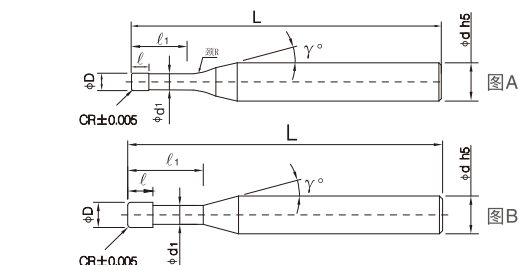
Carbide
UMGCoating
ATX

4

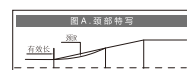
30°
Helix Angle

Relief Angle

R

<65
HRC

φD	D Tolerance
D<3	0~-0.010
3<D<6	0~-0.012
6<D<10	0~-0.015
10<D<18	0~-0.018



型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	l	l ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXRP4120R0.5 12125	12	0.5	12	36	11.7	-	-	125	12	B	△
HGXRP4120R0.5 12150	12	0.5	12	36	11.7	-	-	150	12	B	△
HGXRP4120R1.0 1275	12	1	12	36	11.7	-	-	75	12	B	△
HGXRP4120R1.0 12100	12	1	12	36	11.7	-	-	100	12	B	△
HGXRP4120R2.0 1275	12	2	12	36	11.7	-	-	75	12	B	△
HGXRP4120R2.0 12100	12	2	12	36	11.7	-	-	100	12	B	△

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常合适 ○ 适合

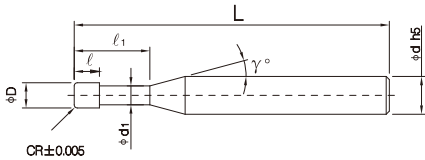
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

E053



HSXB 2-Flute Ball End Mill

HGXRT 4-Flute Strong Corner Radius End Mill



∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

单位:mm

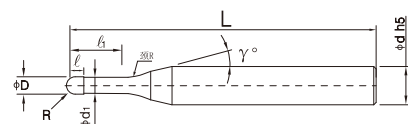
型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Stock
HGXRT4030R0.5 0650	3	0.5	1.2	8	2.9	-	11	50	6	▲
HGXRT4030R0.5 0675	3	0.5	1.2	8	2.9	-	11	75	6	▲
HGXRT4030R1.0 0650	3	1	1.2	8	2.9	-	11	50	6	▲
HGXRT4030R1.0 0675	3	1	1.2	8	2.9	-	11	75	6	▲
HGXRT4040R0.5 0650	4	0.5	1.6	10	3.9	-	11	50	6	▲
HGXRT4040R0.5 0675	4	0.5	1.6	10	3.9	-	11	75	6	▲
HGXRT4040R1.0 0650	4	1	1.6	10	3.9	-	11	50	6	▲
HGXRT4040R1.0 0675	4	1	1.6	10	3.9	-	11	75	6	▲
HGXRT4050R1.0 0650	5	1	2	12	4.85	-	11	50	6	▲
HGXRT4050R1.0 0675	5	1	2	12	4.85	-	11	75	6	▲
HGXRT4060R1.0 0650	6	1	2.5	12	5.85	-	-	50	6	▲
HGXRT4060R1.0 0675	6	1	2.5	12	5.85	-	-	75	6	▲
HGXRT4060R1.5 0650	6	1.5	2.5	12	5.85	-	-	50	6	▲
HGXRT4060R1.5 0675	6	1.5	2.5	12	5.85	-	-	75	6	▲
HGXRT4080R1.0 0875	8	1	3.5	16	7.8	-	-	75	8	▲
HGXRT4080R1.0 08100	8	1	3.5	16	7.8	-	-	100	8	▲
HGXRT4080R2.0 0875	8	2	3.5	16	7.8	-	-	75	8	▲
HGXRT4080R2.0 08100	8	2	3.5	16	7.8	-	-	100	8	▲
HGXRT4100R1.0 1075	10	1	4	20	9.8	-	-	75	10	▲
HGXRT4100R1.0 10100	10	1	4	20	9.8	-	-	100	10	▲
HGXRT4100R2.0 1075	10	2	4	20	9.8	-	-	75	10	▲
HGXRT4100R2.0 10100	10	2	4	20	9.8	-	-	100	10	▲
HGXRT4120R2.0 1275	12	2	5	24	11.7	-	-	75	12	▲
HGXRT4120R2.0 12100	12	2	5	24	11.7	-	-	100	12	▲
HGXRT4120R3.0 1275	12	3	5	24	11.7	-	-	75	12	▲
HGXRT4120R3.0 12100	12	3	5	24	11.7	-	-	100	12	▲



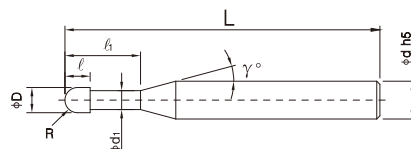
E054

HSXB 2-Flute Ball End Mill

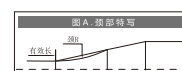
HGXB2L 2-Flute Long Neck Ball End Mill



图A



图B

Carbide
UMGCoating
ATX

2

30°
Helix Angle

Relief Angle

<65
HRC

∅ D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

∅ D	R Tolerance
D ≤ 8	±0.005
D > 8	±0.008

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	∅D	R	ℓ	ℓ ₁	∅d ₁	R	γ/°	L	∅d	Pic	Stock
HGXB2001L0.5 0450	0.1	0.05	0.1	0.5	0.08	1	12	50	4	A	▲
HGXB2001L0.75 0450	0.1	0.05	0.1	0.75	0.08	1	12	50	4	A	▲
HGXB2001L1 0450	0.1	0.05	0.1	1	0.08	1	12	50	4	A	△
HGXB20015L0.5 0450	0.15	0.075	0.15	0.5	0.13	1	12	50	4	A	▲
HGXB20015L0.75 0450	0.15	0.075	0.15	0.75	0.13	1	12	50	4	A	▲
HGXB20015L1 0450	0.15	0.075	0.15	1	0.13	1	12	50	4	A	▲
HGXB20015L1.5 0450	0.15	0.075	0.15	1.5	0.13	1	12	50	4	A	△
HGXB2002L0.5 0450	0.2	0.1	0.2	0.5	0.17	1	12	50	4	A	▲
HGXB2002L1 0450	0.2	0.1	0.2	1	0.17	1	12	50	4	A	▲
HGXB2002L1.5 0450	0.2	0.1	0.2	1.5	0.17	1	12	50	4	A	▲
HGXB2002L2 0450	0.2	0.1	0.2	2	0.17	1	12	50	4	A	△
HGXB2003L0.5 0450	0.3	0.15	0.25	0.5	0.27	1	12	50	4	A	▲
HGXB2003L1 0450	0.3	0.15	0.25	1	0.27	1	12	50	4	A	▲
HGXB2003L1.5 0450	0.3	0.15	0.25	1.5	0.27	1	12	50	4	A	▲
HGXB2003L2 0450	0.3	0.15	0.25	2	0.27	1	12	50	4	A	▲
HGXB2003L2.5 0450	0.3	0.15	0.25	2.5	0.27	1	12	50	4	A	▲
HGXB2003L3 0450	0.3	0.15	0.25	3	0.27	1	12	50	4	A	△
HGXB2004L1 0450	0.4	0.2	0.3	1	0.36	2	12	50	4	A	▲
HGXB2004L1.5 0450	0.4	0.2	0.3	1.5	0.36	2	12	50	4	A	▲
HGXB2004L2 0450	0.4	0.2	0.3	2	0.36	2	12	50	4	A	▲
HGXB2004L2.5 0450	0.4	0.2	0.3	2.5	0.36	2	12	50	4	A	▲
HGXB2004L3 0450	0.4	0.2	0.3	3	0.36	2	12	50	4	A	▲
HGXB2004L3.5 0450	0.4	0.2	0.3	3.5	0.36	2	12	50	4	A	△
HGXB2004L4 0450	0.4	0.2	0.3	4	0.36	2	12	50	4	A	△
HGXB2005L1 0450	0.5	0.25	0.4	1	0.46	2	12	50	4	A	▲
HGXB2005L2 0450	0.5	0.25	0.4	2	0.46	2	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

HGXB2L 2-Flute Long Neck Ball End Mill

单位:mm

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXB2005L3 0450	0.5	0.25	0.4	3	0.46	2	12	50	4	A	▲
HGXB2005L4 0450	0.5	0.25	0.4	4	0.46	2	12	50	4	A	▲
HGXB2005L5 0450	0.5	0.25	0.4	5	0.46	2	12	50	4	A	△
HGXB2005L6 0450	0.5	0.25	0.4	6	0.46	2	12	50	4	A	△
HGXB2006L2 0450	0.6	0.3	0.5	2	0.56	4	12	50	4	A	▲
HGXB2006L3 0450	0.6	0.3	0.5	3	0.56	4	12	50	4	A	▲
HGXB2006L4 0450	0.6	0.3	0.5	4	0.56	4	12	50	4	A	▲
HGXB2006L5 0450	0.6	0.3	0.5	5	0.56	4	12	50	4	A	▲
HGXB2006L6 0450	0.6	0.3	0.5	6	0.56	4	12	50	4	A	△
HGXB2006L8 0450	0.6	0.3	0.5	8	0.56	4	12	50	4	A	△
HGXB2006L10 0450	0.6	0.3	0.5	10	0.56	4	12	50	4	A	△
HGXB2007L2 0450	0.7	0.35	0.6	2	0.66	4	12	50	4	A	▲
HGXB2007L3 0450	0.7	0.35	0.6	3	0.66	4	12	50	4	A	▲
HGXB2007L4 0450	0.7	0.35	0.6	4	0.66	4	12	50	4	A	▲
HGXB2007L5 0450	0.7	0.35	0.6	5	0.66	4	12	50	4	A	▲
HGXB2007L6 0450	0.7	0.35	0.6	6	0.66	4	12	50	4	A	▲
HGXB2007L7 0450	0.7	0.35	0.6	7	0.66	4	12	50	4	A	△
HGXB2008L2 0450	0.8	0.4	0.7	2	0.76	4	12	50	4	A	▲
HGXB2008L3 0450	0.8	0.4	0.7	3	0.76	4	12	50	4	A	▲
HGXB2008L4 0450	0.8	0.4	0.7	4	0.76	4	12	50	4	A	▲
HGXB2008L5 0450	0.8	0.4	0.7	5	0.76	4	12	50	4	A	▲
HGXB2008L6 0450	0.8	0.4	0.7	6	0.76	4	12	50	4	A	▲
HGXB2008L8 0450	0.8	0.4	0.7	8	0.76	4	12	50	4	A	▲
HGXB2008L10 0450	0.8	0.4	0.7	10	0.76	4	12	50	4	A	△
HGXB2008L12 0450	0.8	0.4	0.7	12	0.76	4	12	50	4	A	△

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
		~40HRC	~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	球墨铸铁 DUCTILE CAST IRON ~350HB					
○		○	○	○			○	○	○			○	○

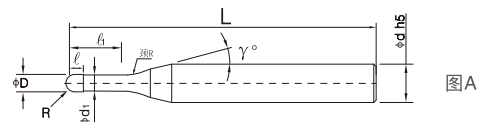
○ 非常适合 ○ 适合



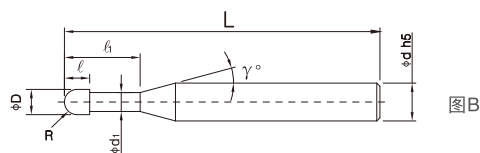
E056

HSXB 2-Flute Ball End Mill

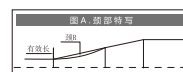
HGXB2L 2-Flute Long Neck Ball End Mill



图A



图B



Ø D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012
6 < D ≤ 10	0 ~ -0.015
10 < D ≤ 18	0 ~ -0.018

Ø D	R Tolerance
D ≤ 8	±0.005
D > 8	±0.008

单位:mm

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXB2010L4 0450	1	0.5	0.8	4	0.94	4	12	50	4	A	▲
HGXB2010L4 0660	1	0.5	0.8	4	0.94	4	12	60	6	A	▲
HGXB2010L6 0450	1	0.5	0.8	6	0.94	4	12	50	4	A	▲
HGXB2010L6 0660	1	0.5	0.8	6	0.94	4	12	60	6	A	▲
HGXB2010L8 0450	1	0.5	0.8	8	0.94	4	12	50	4	A	▲
HGXB2010L8 0660	1	0.5	0.8	8	0.94	4	12	60	6	A	▲
HGXB2010L10 0450	1	0.5	0.8	10	0.94	4	12	50	4	A	▲
HGXB2010L10 0660	1	0.5	0.8	10	0.94	4	12	60	6	A	▲
HGXB2015L6 0450	1.5	0.75	1.2	6	1.42	-	11	50	4	B	▲
HGXB2015L6 0660	1.5	0.75	1.2	6	1.42	-	11	60	6	B	▲
HGXB2015L8 0450	1.5	0.75	1.2	8	1.42	-	11	50	4	B	▲
HGXB2015L8 0660	1.5	0.75	1.2	8	1.42	-	11	60	6	B	▲
HGXB2015L10 0450	1.5	0.75	1.2	10	1.42	-	11	50	4	B	▲
HGXB2015L10 0660	1.5	0.75	1.2	10	1.42	-	11	60	6	B	▲
HGXB2015L12 0450	1.5	0.75	1.2	12	1.42	-	11	50	4	B	▲
HGXB2015L12 0660	1.5	0.75	1.2	12	1.42	-	11	60	6	B	▲
HGXB2020L6 0450	2	1	1.6	6	1.9	-	11	50	4	B	▲
HGXB2020L8 0450	2	1	1.6	8	1.9	-	11	50	4	B	▲
HGXB2020L8 0660	2	1	1.6	8	1.9	-	11	60	6	B	▲
HGXB2020L10 0450	2	1	1.6	10	1.9	-	11	50	4	B	▲
HGXB2020L10 0660	2	1	1.6	10	1.9	-	11	60	6	B	▲
HGXB2020L12 0450	2	1	1.6	12	1.9	-	11	50	4	B	▲
HGXB2020L12 0660	2	1	1.6	12	1.9	-	11	60	6	B	▲
HGXB2020L16 0450	2	1	1.6	16	1.9	-	11	50	4	B	▲

HSXB 2-Flute Ball End Mill

HGXB2L 2-Flute Long Neck Ball End Mill

型 号	刃径	球半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	R	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXB2020L16 0660	2	1	1.6	16	1.9	-	11	60	6	B	▲
HGXB2025L8 0450	2.5	1.25	2	8	2.4	-	11	50	4	B	▲
HGXB2025L10 0450	2.5	1.25	2	10	2.4	-	11	50	4	B	▲
HGXB2025L12 0450	2.5	1.25	2	12	2.4	-	11	50	4	B	▲
HGXB2025L16 0450	2.5	1.25	2	16	2.4	-	11	50	4	B	▲
HGXB2030L10 0660	3	1.5	2.4	10	2.9	-	11	60	6	B	▲
HGXB2030L12 0660	3	1.5	2.4	12	2.9	-	11	60	6	B	▲
HGXB2030L16 0660	3	1.5	2.4	16	2.9	-	11	60	6	B	▲
HGXB2030L20 0660	3	1.5	2.4	20	2.9	-	11	60	6	B	▲
HGXB2030L25 0675	3	1.5	2.4	25	2.9	-	11	75	6	B	▲
HGXB2040L12 0660	4	2	3.2	12	2.9	-	11	60	6	B	▲
HGXB2040L16 0660	4	2	3.2	16	3.9	-	11	60	6	B	▲
HGXB2040L20 0660	4	2	3.2	20	3.9	-	11	60	6	B	▲
HGXB2040L25 0675	4	2	3.2	25	3.9	-	11	75	6	B	▲
HGXB2040L30 0675	4	2	3.2	30	3.9	-	11	75	6	B	▲
HGXB2050L16 0660	5	2.5	4	16	4.85	-	11	60	6	B	▲
HGXB2050L20 0660	5	2.5	4	20	4.85	-	11	60	6	B	▲
HGXB2050L25 0675	5	2.5	4	25	4.85	-	11	75	6	B	▲
HGXB2050L30 0675	5	2.5	4	30	4.85	-	11	75	6	B	▲

可切削材料适用表
TABLE OF RECOMMENDED MILLING MATERIALS

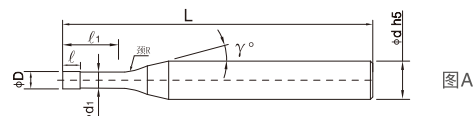
碳素钢 CARBON STEELS		合金钢 ALLOY STEELS		预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS					不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC	
预硬钢 PREHARDENED STEELS		工具钢 TOOL STEELS								球墨铸铁 DUCTILE CAST IRON							
~40HRC				~50HRC	~55HRC	~60HRC	~65HRC		~35HRC	~350HB							
○				○	○				○	○	○	○	○		○	○	

○ 非常适合 ○ 适合

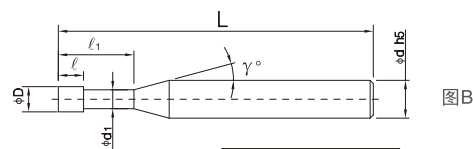


HSXB 2-Flute Ball End Mill

HGXE2L 2-Flute Long Neck End Mill



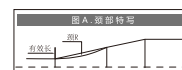
图A



图B



φD	D Tolerance
D≤3	0~-0.010
3<D≤6	0~-0.012



型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXE2001L0.5 0450	0.1	0.1	0.5	0.08	1	12	50	4	A	▲
HGXE2001L0.75 0450	0.1	0.1	0.75	0.08	1	12	50	4	A	▲
HGXE2001L1 0450	0.1	0.1	1	0.08	1	12	50	4	A	△
HGXE20015L0.5 0450	0.15	0.15	0.5	0.13	1	12	50	4	A	▲
HGXE20015L0.75 0450	0.15	0.15	0.75	0.13	1	12	50	4	A	▲
HGXE20015L1 0450	0.15	0.15	1	0.13	1	12	50	4	A	▲
HGXE20015L1.5 0450	0.15	0.15	1.5	0.13	1	12	50	4	A	△
HGXE2002L0.5 0450	0.2	0.2	0.5	0.17	1	12	50	4	A	▲
HGXE2002L1 0450	0.2	0.2	1	0.17	1	12	50	4	A	▲
HGXE2002L1.5 0450	0.2	0.2	1.5	0.17	1	12	50	4	A	▲
HGXE2002L2 0450	0.2	0.2	2	0.17	1	12	50	4	A	△
HGXE2003L0.5 0450	0.3	0.25	0.5	0.27	1	12	50	4	A	▲
HGXE2003L1 0450	0.3	0.25	1	0.27	1	12	50	4	A	▲
HGXE2003L1.5 0450	0.3	0.25	1.5	0.27	1	12	50	4	A	▲
HGXE2003L2 0450	0.3	0.25	2	0.27	1	12	50	4	A	▲
HGXE2003L2.5 0450	0.3	0.25	2.5	0.27	1	12	50	4	A	▲
HGXE2003L3 0450	0.3	0.25	3	0.27	1	12	50	4	A	△
HGXE2004L1 0450	0.4	0.3	1	0.36	2	12	50	4	A	▲
HGXE2004L1.5 0450	0.4	0.3	1.5	0.36	2	12	50	4	A	▲
HGXE2004L2 0450	0.4	0.3	2	0.36	2	12	50	4	A	▲
HGXE2004L2.5 0450	0.4	0.3	2.5	0.36	2	12	50	4	A	▲
HGXE2004L3 0450	0.4	0.3	3	0.36	2	12	50	4	A	▲
HGXE2004L3.5 0450	0.4	0.3	3.5	0.36	2	12	50	4	A	△
HGXE2004L4 0450	0.4	0.3	4	0.36	2	12	50	4	A	△
HGXE2005L1 0450	0.5	0.4	1	0.46	2	12	50	4	A	▲
HGXE2005L2 0450	0.5	0.4	2	0.46	2	12	50	4	A	▲

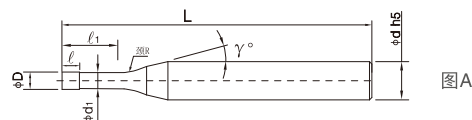
HSXB 2-Flute Ball End Mill

HGXE2L 2-Flute Long Neck End Mill

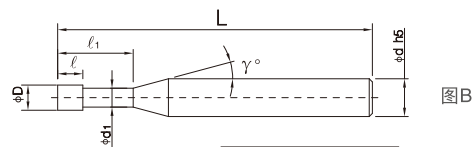
型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	ℓ	ℓ_1	ϕd_1	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXE2005L3 0450	0.5	0.4	3	0.46	2	12	50	4	A	▲
HGXE2005L4 0450	0.5	0.4	4	0.46	2	12	50	4	A	▲
HGXE2005L5 0450	0.5	0.4	5	0.46	2	12	50	4	A	△
HGXE2005L6 0450	0.5	0.4	6	0.46	2	12	50	4	A	△
HGXE2006L2 0450	0.6	0.5	2	0.56	4	12	50	4	A	▲
HGXE2006L3 0450	0.6	0.5	3	0.56	4	12	50	4	A	▲
HGXE2006L4 0450	0.6	0.5	4	0.56	4	12	50	4	A	▲
HGXE2006L5 0450	0.6	0.5	5	0.56	4	12	50	4	A	▲
HGXE2006L6 0450	0.6	0.5	6	0.56	4	12	50	4	A	△
HGXE2006L8 0450	0.6	0.5	8	0.56	4	12	50	4	A	△
HGXE2006L10 0450	0.6	0.5	10	0.56	4	12	50	4	A	△
HGXE2007L2 0450	0.7	0.6	2	0.66	4	12	50	4	A	▲
HGXE2007L3 0450	0.7	0.6	3	0.66	4	12	50	4	A	▲
HGXE2007L4 0450	0.7	0.6	4	0.66	4	12	50	4	A	▲
HGXE2007L5 0450	0.7	0.6	5	0.66	4	12	50	4	A	▲
HGXE2007L6 0450	0.7	0.6	6	0.66	4	12	50	4	A	▲
HGXE2007L7 0450	0.7	0.6	7	0.66	4	12	50	4	A	△
HGXE2008L2 0450	0.8	0.7	2	0.76	4	12	50	4	A	▲
HGXE2008L3 0450	0.8	0.7	3	0.76	4	12	50	4	A	▲
HGXE2008L4 0450	0.8	0.7	4	0.76	4	12	50	4	A	▲
HGXE2008L5 0450	0.8	0.7	5	0.76	4	12	50	4	A	▲
HGXE2008L6 0450	0.8	0.7	6	0.76	4	12	50	4	A	▲
HGXE2008L8 0450	0.8	0.7	8	0.76	4	12	50	4	A	▲
HGXE2008L10 0450	0.8	0.7	10	0.76	4	12	50	4	A	△
HGXE2008L12 0450	0.8	0.7	12	0.76	4	12	50	4	A	△
HGXE2010L4 0450	1	0.8	4	0.94	4	12	50	4	A	▲
HGXE2010L6 0450	1	0.8	6	0.94	4	12	50	4	A	▲
HGXE2010L8 0450	1	0.8	8	0.94	4	12	50	4	A	▲
HGXE2010L10 0450	1	0.8	10	0.94	4	12	50	4	A	▲
HGXE2015L6 0450	1.5	1.2	6	1.42	-	11	50	4	B	▲
HGXE2015L8 0450	1.5	1.2	8	1.42	-	11	50	4	B	▲
HGXE2015L10 0450	1.5	1.2	10	1.42	-	11	50	4	B	▲

HSXB 2-Flute Ball End Mill

HGXE2L 2-Flute Long Neck End Mill



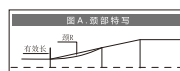
图A



图B



φD	D Tolerance
D<3	0~-0.010
3<D≤6	0~-0.012



单位:mm

型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXE2015L12 0450	1.5	1.2	12	1.42	-	11	50	4	B	▲
HGXE2020L8 0450	2	1.6	8	1.9	-	11	50	4	B	▲
HGXE2020L10 0450	2	1.6	10	1.9	-	11	50	4	B	▲
HGXE2020L12 0450	2	1.6	12	1.9	-	11	50	4	B	▲
HGXE2020L16 0450	2	1.6	16	1.9	-	11	50	4	B	▲
HGXE2025L10 0450	2.5	2	10	2.4	-	11	50	4	B	▲
HGXE2025L12 0450	2.5	2	12	2.4	-	11	50	4	B	▲
HGXE2025L16 0450	2.5	2	16	2.4	-	11	50	4	B	▲
HGXE2025L20 0450	2.5	2	20	2.4	-	11	50	4	B	▲
HGXE2030L10 0660	3	2.4	10	2.9	-	11	60	6	B	▲
HGXE2030L12 0660	3	2.4	12	2.9	-	11	60	6	B	▲
HGXE2030L16 0660	3	2.4	16	2.9	-	11	60	6	B	▲
HGXE2030L20 0660	3	2.4	20	2.9	-	11	60	6	B	▲
HGXE2030L25 0675	3	2.4	25	2.9	-	11	75	6	B	▲
HGXE2040L12 0660	4	3.2	12	3.9	-	11	60	6	B	▲
HGXE2040L16 0660	4	3.2	16	3.9	-	11	60	6	B	▲
HGXE2040L20 0660	4	3.2	20	3.9	-	11	60	6	B	▲
HGXE2040L25 0675	4	3.2	25	3.9	-	11	75	6	B	▲
HGXE2040L30 0675	4	3.2	30	3.9	-	11	75	6	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合
 ○ 适合

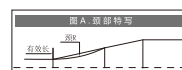
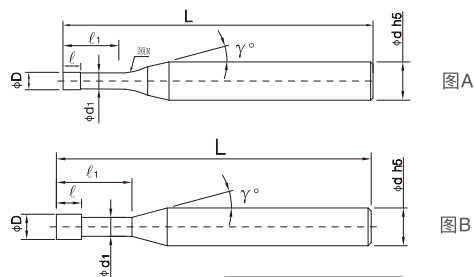
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

E061



HSXB 2-Flute Ball End Mill

HGXE4L 4-Flute Long Neck End Mill



$\varnothing D$	D Tolerance
$D \leq 3$	0 ~ -0.010
$3 < D \leq 6$	0 ~ -0.012

单位:mm

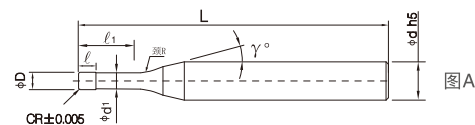
型 号	刃径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	$\varnothing D$	ℓ	ℓ_1	$\varnothing d_1$	R	$\gamma/^\circ$	L	$\varnothing d$	Pic	Stock
HGXE4010L4 0450	1	0.8	4	0.94	4	12	50	4	A	▲
HGXE4010L6 0450	1	0.8	6	0.94	4	12	50	4	A	▲
HGXE4010L8 0450	1	0.8	8	0.94	4	12	50	4	A	▲
HGXE4010L10 0450	1	0.8	10	0.94	4	12	50	4	A	▲
HGXE4015L6 0450	1.5	1.2	6	1.42	-	11	50	4	B	▲
HGXE4015L8 0450	1.5	1.2	8	1.42	-	11	50	4	B	▲
HGXE4015L10 0450	1.5	1.2	10	1.42	-	11	50	4	B	▲
HGXE4015L12 0450	1.5	1.2	12	1.42	-	11	50	4	B	▲
HGXE4020L8 0450	2	1.6	8	1.9	-	11	50	4	B	▲
HGXE4020L10 0450	2	1.6	10	1.9	-	11	50	4	B	▲
HGXE4020L12 0450	2	1.6	12	1.9	-	11	50	4	B	▲
HGXE4020L16 0450	2	1.6	16	1.9	-	11	50	4	B	▲
HGXE4025L10 0450	2.5	2	10	2.4	-	11	50	4	B	▲
HGXE4025L12 0450	2.5	2	12	2.4	-	11	50	4	B	▲
HGXE4025L16 0450	2.5	2	16	2.4	-	11	50	4	B	▲
HGXE4025L20 0450	2.5	2	20	2.4	-	11	50	4	B	▲
HGXE4030L10 0660	3	2.4	10	2.9	-	11	60	6	B	▲
HGXE4030L12 0660	3	2.4	12	2.9	-	11	60	6	B	▲
HGXE4030L16 0660	3	2.4	16	2.9	-	11	60	6	B	▲
HGXE4030L20 0660	3	2.4	20	2.9	-	11	60	6	B	▲
HGXE4030L25 0675	3	2.4	25	2.9	-	11	75	6	B	▲
HGXE4040L12 0660	4	3.2	12	3.9	-	11	60	6	B	▲
HGXE4040L16 0660	4	3.2	16	3.9	-	11	60	6	B	▲
HGXE4040L20 0660	4	3.2	20	3.9	-	11	60	6	B	▲
HGXE4040L25 0675	4	3.2	25	3.9	-	11	75	6	B	▲
HGXE4040L30 0675	4	3.2	30	3.9	-	11	75	6	B	▲



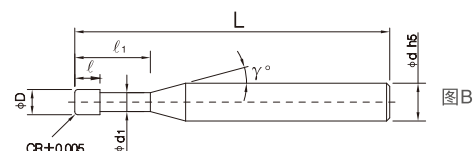
E062

HSXB 2-Flute Ball End Mill

HGXR2L 2-Flute Long Neck Corner Radius End Mill



图A



图B



∅ D	D Tolerance
D < 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	∅D	CR	ℓ	ℓ ₁	∅d ₁	R	γ/°	L	∅d	Pic	Stock
HGXR2003R0.05L0.5 0450	0.3	0.05	0.25	0.5	0.27	2	12	50	4	A	▲
HGXR2003R0.05L1 0450	0.3	0.05	0.25	1	0.27	2	12	50	4	A	▲
HGXR2003R0.05L1.5 0450	0.3	0.05	0.25	1.5	0.27	2	12	50	4	A	▲
HGXR2003R0.05L2 0450	0.3	0.05	0.25	2	0.27	2	12	50	4	A	▲
HGXR2003R0.05L2.5 0450	0.3	0.05	0.25	2.5	0.27	2	12	50	4	A	▲
HGXR2003R0.05L3 0450	0.3	0.05	0.25	3	0.27	2	12	50	4	A	△
HGXR2004R0.05L1 0450	0.4	0.05	0.3	1	0.36	2	12	50	4	A	▲
HGXR2004R0.05L1.5 0450	0.4	0.05	0.3	1.5	0.36	2	12	50	4	A	▲
HGXR2004R0.05L2 0450	0.4	0.05	0.3	2	0.36	2	12	50	4	A	▲
HGXR2004R0.05L2.5 0450	0.4	0.05	0.3	2.5	0.36	2	12	50	4	A	▲
HGXR2004R0.05L3 0450	0.4	0.05	0.3	3	0.36	2	12	50	4	A	▲
HGXR2004R0.05L3.5 0450	0.4	0.05	0.3	3.5	0.36	2	12	50	4	A	△
HGXR2004R0.05L4 0450	0.4	0.05	0.3	4	0.36	2	12	50	4	A	△
HGXR2004R0.1L1 0450	0.4	0.1	0.3	1	0.36	2	12	50	4	A	▲
HGXR2004R0.1L1.5 0450	0.4	0.1	0.3	1.5	0.36	2	12	50	4	A	▲
HGXR2004R0.1L2 0450	0.4	0.1	0.3	2	0.36	2	12	50	4	A	▲
HGXR2004R0.1L2.5 0450	0.4	0.1	0.3	2.5	0.36	2	12	50	4	A	▲
HGXR2004R0.1L3 0450	0.4	0.1	0.3	3	0.36	2	12	50	4	A	▲
HGXR2004R0.1L3.5 0450	0.4	0.1	0.3	3.5	0.36	2	12	50	4	A	△
HGXR2004R0.1L4 0450	0.4	0.1	0.3	4	0.36	2	12	50	4	A	△
HGXR2005R0.05L1 0450	0.5	0.05	0.4	1	0.46	2	12	50	4	A	▲
HGXR2005R0.05L2 0450	0.5	0.05	0.4	2	0.46	2	12	50	4	A	▲
HGXR2005R0.05L3 0450	0.5	0.05	0.4	3	0.46	2	12	50	4	A	▲
HGXR2005R0.05L4 0450	0.5	0.05	0.4	4	0.46	2	12	50	4	A	▲
HGXR2005R0.05L5 0450	0.5	0.05	0.4	5	0.46	2	12	50	4	A	△
HGXR2005R0.05L6 0450	0.5	0.05	0.4	6	0.46	2	12	50	4	A	△
HGXR2005R0.1L1 0450	0.5	0.1	0.4	1	0.46	2	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

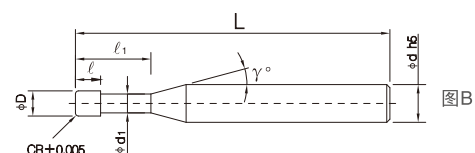
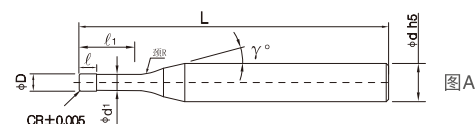
HGXR2L 2-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	CR	ℓ	ℓ_1	ϕd_1	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXR2005R0.1L2 0450	0.5	0.1	0.4	2	0.46	2	12	50	4	A	▲
HGXR2005R0.1L3 0450	0.5	0.1	0.4	3	0.46	2	12	50	4	A	▲
HGXR2005R0.1L4 0450	0.5	0.1	0.4	4	0.46	2	12	50	4	A	▲
HGXR2005R0.1L5 0450	0.5	0.1	0.4	5	0.46	2	12	50	4	A	▲
HGXR2005R0.1L6 0450	0.5	0.1	0.4	6	0.46	2	12	50	4	A	▲
HGXR2006R0.05L2 0450	0.6	0.05	0.5	2	0.56	4	12	50	4	A	▲
HGXR2006R0.05L3 0450	0.6	0.05	0.5	3	0.56	4	12	50	4	A	▲
HGXR2006R0.05L4 0450	0.6	0.05	0.5	4	0.56	4	12	50	4	A	▲
HGXR2006R0.05L5 0450	0.6	0.05	0.5	5	0.56	4	12	50	4	A	▲
HGXR2006R0.05L6 0450	0.6	0.05	0.5	6	0.56	4	12	50	4	A	△
HGXR2006R0.05L8 0450	0.6	0.05	0.5	8	0.56	4	12	50	4	A	△
HGXR2006R0.05L10 0450	0.6	0.05	0.5	10	0.56	4	12	50	4	A	△
HGXR2006R0.1L2 0450	0.6	0.1	0.5	2	0.56	4	12	50	4	A	▲
HGXR2006R0.1L3 0450	0.6	0.1	0.5	3	0.56	4	12	50	4	A	▲
HGXR2006R0.1L4 0450	0.6	0.1	0.5	4	0.56	4	12	50	4	A	▲
HGXR2006R0.1L5 0450	0.6	0.1	0.5	5	0.56	4	12	50	4	A	▲
HGXR2006R0.1L6 0450	0.6	0.1	0.5	6	0.56	4	12	50	4	A	△
HGXR2006R0.1L8 0450	0.6	0.1	0.5	8	0.56	4	12	50	4	A	△
HGXR2006R0.1L10 0450	0.6	0.1	0.5	10	0.56	4	12	50	4	A	△
HGXR2007R0.05L2 0450	0.7	0.05	0.56	2	0.66	4	12	50	4	A	▲
HGXR2007R0.05L3 0450	0.7	0.05	0.56	3	0.66	4	12	50	4	A	▲
HGXR2007R0.05L4 0450	0.7	0.05	0.56	4	0.66	4	12	50	4	A	▲
HGXR2007R0.05L5 0450	0.7	0.05	0.56	5	0.66	4	12	50	4	A	▲
HGXR2007R0.05L6 0450	0.7	0.05	0.56	6	0.66	4	12	50	4	A	▲
HGXR2007R0.05L7 0450	0.7	0.05	0.56	7	0.66	4	12	50	4	A	△
HGXR2007R0.1L2 0450	0.7	0.1	0.56	2	0.66	4	12	50	4	A	▲
HGXR2007R0.1L3 0450	0.7	0.1	0.56	3	0.66	4	12	50	4	A	▲
HGXR2007R0.1L4 0450	0.7	0.1	0.56	4	0.66	4	12	50	4	A	▲

HSXB 2-Flute Ball End Mill

HGXR2L 2-Flute Long Neck Corner Radius End Mill



Ø D	D Tolerance
D < 3	0 ~ 0.010
3 < D ≤ 6	0 ~ 0.012

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXR2007R0.1L5 0450	0.7	0.1	0.56	5	0.66	4	12	50	4	A	▲
HGXR2007R0.1L6 0450	0.7	0.1	0.56	6	0.66	4	12	50	4	A	▲
HGXR2007R0.1L7 0450	0.7	0.1	0.56	7	0.66	4	12	50	4	A	△
HGXR2008R0.05L2 0450	0.8	0.05	0.64	2	0.76	4	12	50	4	A	▲
HGXR2008R0.05L3 0450	0.8	0.05	0.64	3	0.76	4	12	50	4	A	▲
HGXR2008R0.05L4 0450	0.8	0.05	0.64	4	0.76	4	12	50	4	A	▲
HGXR2008R0.05L5 0450	0.8	0.05	0.64	5	0.76	4	12	50	4	A	▲
HGXR2008R0.05L6 0450	0.8	0.05	0.64	6	0.76	4	12	50	4	A	▲
HGXR2008R0.05L8 0450	0.8	0.05	0.64	8	0.76	4	12	50	4	A	▲
HGXR2008R0.05L10 0450	0.8	0.05	0.64	10	0.76	4	12	50	4	A	△
HGXR2008R0.05L12 0450	0.8	0.05	0.64	12	0.76	4	12	50	4	A	△
HGXR2008R0.1L2 0450	0.8	0.1	0.64	2	0.76	4	12	50	4	A	▲
HGXR2008R0.1L3 0450	0.8	0.1	0.64	3	0.76	4	12	50	4	A	▲
HGXR2008R0.1L4 0450	0.8	0.1	0.64	4	0.76	4	12	50	4	A	▲
HGXR2008R0.1L5 0450	0.8	0.1	0.64	5	0.76	4	12	50	4	A	▲
HGXR2008R0.1L6 0450	0.8	0.1	0.64	6	0.76	4	12	50	4	A	▲
HGXR2008R0.1L8 0450	0.8	0.1	0.64	8	0.76	4	12	50	4	A	▲
HGXR2008R0.1L10 0450	0.8	0.1	0.64	10	0.76	4	12	50	4	A	△
HGXR2008R0.1L12 0450	0.8	0.1	0.64	12	0.76	4	12	50	4	A	△
HGXR2008R0.2L2 0450	0.8	0.2	0.64	2	0.76	4	12	50	4	A	▲
HGXR2008R0.2L3 0450	0.8	0.2	0.64	3	0.76	4	12	50	4	A	▲
HGXR2008R0.2L4 0450	0.8	0.2	0.64	4	0.76	4	12	50	4	A	▲
HGXR2008R0.2L5 0450	0.8	0.2	0.64	5	0.76	4	12	50	4	A	▲
HGXR2008R0.2L6 0450	0.8	0.2	0.64	6	0.76	4	12	50	4	A	▲
HGXR2008R0.2L8 0450	0.8	0.2	0.64	8	0.76	4	12	50	4	A	▲
HGXR2008R0.2L10 0450	0.8	0.2	0.64	10	0.76	4	12	50	4	A	△
HGXR2008R0.2L12 0450	0.8	0.2	0.64	12	0.76	4	12	50	4	A	△

HSXB 2-Flute Ball End Mill

HGXR2L 2-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXR2010R0.1L4 0450	1	0.1	0.8	4	0.94	4	12	50	4	A	▲
HGXR2010R0.1L6 0450	1	0.1	0.8	6	0.94	4	12	50	4	A	▲
HGXR2010R0.1L8 0450	1	0.1	0.8	8	0.94	4	12	50	4	A	▲
HGXR2010R0.1L10 0450	1	0.1	0.8	10	0.94	4	12	50	4	A	▲
HGXR2010R0.2L4 0450	1	0.2	0.8	4	0.94	4	12	50	4	A	▲
HGXR2010R0.2L6 0450	1	0.2	0.8	6	0.94	4	12	50	4	A	▲
HGXR2010R0.2L8 0450	1	0.2	0.8	8	0.94	4	12	50	4	A	▲
HGXR2010R0.2L10 0450	1	0.2	0.8	10	0.94	4	12	50	4	A	▲
HGXR2015R0.1L6 0450	1.5	0.1	1.2	6	1.42	-	11	50	4	B	▲
HGXR2015R0.1L8 0450	1.5	0.1	1.2	8	1.42	-	11	50	4	B	▲
HGXR2015R0.1L10 0450	1.5	0.1	1.2	10	1.42	-	11	50	4	B	▲
HGXR2015R0.1L12 0450	1.5	0.1	1.2	12	1.42	-	11	50	4	B	▲
HGXR2015R0.2L6 0450	1.5	0.2	1.2	6	1.42	-	11	50	4	B	▲
HGXR2015R0.2L8 0450	1.5	0.2	1.2	8	1.42	-	11	50	4	B	▲
HGXR2015R0.2L10 0450	1.5	0.2	1.2	10	1.42	-	11	50	4	B	▲
HGXR2015R0.2L12 0450	1.5	0.2	1.2	12	1.42	-	11	50	4	B	▲
HGXR2020R0.1L8 0450	2	0.1	1.6	8	1.9	-	11	50	4	B	▲
HGXR2020R0.1L10 0450	2	0.1	1.6	10	1.9	-	11	50	4	B	▲
HGXR2020R0.1L12 0450	2	0.1	1.6	12	1.9	-	11	50	4	B	▲
HGXR2020R0.1L16 0450	2	0.1	1.6	16	1.9	-	11	50	4	B	▲
HGXR2020R0.2L8 0450	2	0.2	1.6	8	1.9	-	11	50	4	B	▲
HGXR2020R0.2L10 0450	2	0.2	1.6	10	1.9	-	11	50	4	B	▲
HGXR2020R0.2L12 0450	2	0.2	1.6	12	1.9	-	11	50	4	B	▲
HGXR2020R0.2L16 0450	2	0.2	1.6	16	1.9	-	11	50	4	B	▲
HGXR2020R0.5L8 0450	2	0.5	1.6	8	1.9	-	11	50	4	B	▲
HGXR2020R0.5L10 0450	2	0.5	1.6	10	1.9	-	11	50	4	B	▲

可切削材料适用表

TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合 ○ 适合

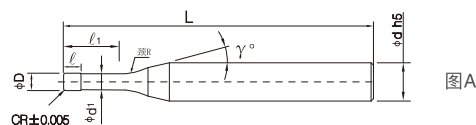
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石 墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑 料 PLASTIC
预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS						球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○		○	○		○	○	



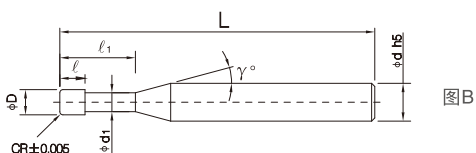
E066

HSXB 2-Flute Ball End Mill

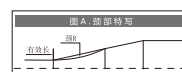
HGXR2L 2-Flute Long Neck Corner Radius End Mill



图A



图B



φD	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXR2020R0.5L12 0450	2	0.5	1.6	12	1.9	-	11	50	4	B	▲
HGXR2020R0.5L16 0450	2	0.5	1.6	16	1.9	-	11	50	4	B	▲
HGXR2030R0.1L10 0660	3	0.1	2.4	10	2.9	-	11	60	6	B	▲
HGXR2030R0.1L12 0660	3	0.1	2.4	12	2.9	-	11	60	6	B	▲
HGXR2030R0.1L16 0660	3	0.1	2.4	16	2.9	-	11	60	6	B	▲
HGXR2030R0.1L20 0660	3	0.1	2.4	20	2.9	-	11	60	6	B	▲
HGXR2030R0.1L25 0675	3	0.1	2.4	25	2.9	-	11	75	6	B	▲
HGXR2030R0.2L10 0660	3	0.2	2.4	10	2.9	-	11	60	6	B	▲
HGXR2030R0.2L12 0660	3	0.2	2.4	12	2.9	-	11	60	6	B	▲
HGXR2030R0.2L16 0660	3	0.2	2.4	16	2.9	-	11	60	6	B	▲
HGXR2030R0.2L20 0660	3	0.2	2.4	20	2.9	-	11	60	6	B	▲
HGXR2030R0.2L25 0675	3	0.2	2.4	25	2.9	-	11	75	6	B	▲
HGXR2030R0.5L10 0660	3	0.5	2.4	10	2.9	-	11	60	6	B	▲
HGXR2030R0.5L12 0660	3	0.5	2.4	12	2.9	-	11	60	6	B	▲
HGXR2030R0.5L16 0660	3	0.5	2.4	16	2.9	-	11	60	6	B	▲
HGXR2030R0.5L20 0660	3	0.5	2.4	20	2.9	-	11	60	6	B	▲
HGXR2030R0.5L25 0675	3	0.5	2.4	25	2.9	-	11	75	6	B	▲
HGXR2040R0.1L12 0660	4	0.1	3.2	12	3.9	-	11	60	6	B	▲
HGXR2040R0.1L16 0660	4	0.1	3.2	16	3.9	-	11	60	6	B	▲
HGXR2040R0.1L20 0660	4	0.1	3.2	20	3.9	-	11	60	6	B	▲
HGXR2040R0.1L25 0675	4	0.1	3.2	25	3.9	-	11	75	6	B	▲
HGXR2040R0.1L30 0675	4	0.1	3.2	30	3.9	-	11	75	6	B	▲
HGXR2040R0.2L12 0660	4	0.2	3.2	12	3.9	-	11	60	6	B	▲
HGXR2040R0.2L16 0660	4	0.2	3.2	16	3.9	-	11	60	6	B	▲
HGXR2040R0.2L20 0660	4	0.2	3.2	20	3.9	-	11	60	6	B	▲
HGXR2040R0.2L25 0675	4	0.2	3.2	25	3.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HGXR2L 2-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXR2040R0.2L30 0675	4	0.2	3.2	30	3.9	-	11	75	6	B	▲
HGXR2040R0.5L12 0660	4	0.5	3.2	12	3.9	-	11	60	6	B	▲
HGXR2040R0.5L16 0660	4	0.5	3.2	16	3.9	-	11	60	6	B	▲
HGXR2040R0.5L20 0660	4	0.5	3.2	20	3.9	-	11	60	6	B	▲
HGXR2040R0.5L25 0675	4	0.5	3.2	25	3.9	-	11	75	6	B	▲
HGXR2040R0.5L30 0675	4	0.5	3.2	30	3.9	-	11	75	6	B	▲
HGXR2040R1.0L12 0660	4	1	3.2	12	3.9	-	11	60	6	B	▲
HGXR2040R1.0L16 0660	4	1	3.2	16	3.9	-	11	60	6	B	▲
HGXR2040R1.0L20 0660	4	1	3.2	20	3.9	-	11	60	6	B	▲
HGXR2040R1.0L25 0675	4	1	3.2	25	3.9	-	11	75	6	B	▲
HGXR2040R1.0L30 0675	4	1	3.2	30	3.9	-	11	75	6	B	▲

可切削材料适用表
TABLE OF RECOMMENDED MILLING MATERIALS

○ 非常适合 ○ 适合

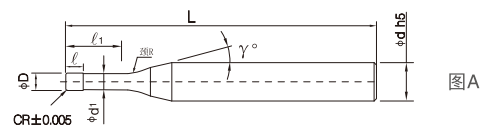
碳素钢 CARBON STEELS	合金钢 ALLOY STEELS	预硬钢、淬硬钢 PREHARDENED STEELS, HARDENED STEELS				不锈钢 STAINLESS STEELS	铸铁 CAST IRON	铜合金 COPPER ALLOYS	铝合金 ALUMINUM ALLOY	石墨 GRAPHITE	钛合金 TITANIUM ALLOY	耐热合金 HEAT RESISTANT ALLOYS	塑料 PLASTIC
		预硬钢 PREHARDENED STEELS	工具钢 TOOL STEELS				球墨铸铁 DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	



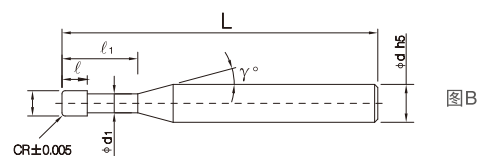
E068

HSXB 2-Flute Ball End Mill

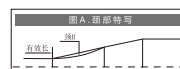
HGXR4L 4-Flute Long Neck Corner Radius End Mill



图A



图B



Ø D	D Tolerance
D ≤ 3	0 ~ -0.010
3 < D ≤ 6	0 ~ -0.012

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	φd ₁	R	γ/°	L	φd	Pic	Stock
HGXR4010R0.1L4 0450	1	0.1	0.8	4	0.94	4	12	50	4	A	▲
HGXR4010R0.1L6 0450	1	0.1	0.8	6	0.94	4	12	50	4	A	▲
HGXR4010R0.1L8 0450	1	0.1	0.8	8	0.94	4	12	50	4	A	▲
HGXR4010R0.1L10 0450	1	0.1	0.8	10	0.94	4	12	50	4	A	▲
HGXR4010R0.2L4 0450	1	0.2	0.8	4	0.94	4	12	50	4	A	▲
HGXR4010R0.2L6 0450	1	0.2	0.8	6	0.94	4	12	50	4	A	▲
HGXR4010R0.2L8 0450	1	0.2	0.8	8	0.94	4	12	50	4	A	▲
HGXR4010R0.2L10 0450	1	0.2	0.8	10	0.94	4	12	50	4	A	▲
HGXR4015R0.1L6 0450	1.5	0.1	1.2	6	1.42	-	11	50	4	B	▲
HGXR4015R0.1L8 0450	1.5	0.1	1.2	8	1.42	-	11	50	4	B	▲
HGXR4015R0.1L10 0450	1.5	0.1	1.2	10	1.42	-	11	50	4	B	▲
HGXR4015R0.1L12 0450	1.5	0.1	1.2	12	1.42	-	11	50	4	B	▲
HGXR4015R0.2L6 0450	1.5	0.2	1.2	6	1.42	-	11	50	4	B	▲
HGXR4015R0.2L8 0450	1.5	0.2	1.2	8	1.42	-	11	50	4	B	▲
HGXR4015R0.2L10 0450	1.5	0.2	1.2	10	1.42	-	11	50	4	B	▲
HGXR4015R0.2L12 0450	1.5	0.2	1.2	12	1.42	-	11	50	4	B	▲
HGXR4020R0.1L8 0450	2	0.1	1.6	8	1.9	-	11	50	4	B	▲
HGXR4020R0.1L10 0450	2	0.1	1.6	10	1.9	-	11	50	4	B	▲
HGXR4020R0.1L12 0450	2	0.1	1.6	12	1.9	-	11	50	4	B	▲
HGXR4020R0.1L16 0450	2	0.1	1.6	16	1.9	-	11	50	4	B	▲
HGXR4020R0.2L8 0450	2	0.2	1.6	8	1.9	-	11	50	4	B	▲
HGXR4020R0.2L10 0450	2	0.2	1.6	10	1.9	-	11	50	4	B	▲
HGXR4020R0.2L12 0450	2	0.2	1.6	12	1.9	-	11	50	4	B	▲
HGXR4020R0.2L16 0450	2	0.2	1.6	16	1.9	-	11	50	4	B	▲
HGXR4020R0.5L8 0450	2	0.5	1.6	8	1.9	-	11	50	4	B	▲
HGXR4020R0.5L10 0450	2	0.5	1.6	10	1.9	-	11	50	4	B	▲

HSXB 2-Flute Ball End Mill

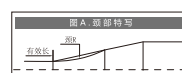
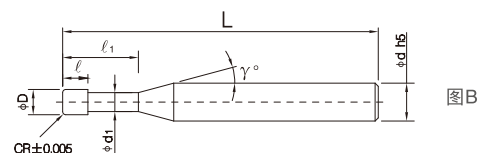
HGXR4L 4-Flute Long Neck Corner Radius End Mill

单位:mm

型 号	刃径	圆角半径	刃长	有效长	首径	颈R	柄锥角度	全长	柄径	图示	库存
Type No.	ϕD	CR	ℓ	ℓ_1	ϕd_1	R	$\gamma/^\circ$	L	ϕd	Pic	Stock
HGXR4020R0.5L12 0450	2	0.5	1.6	12	1.9	-	11	50	4	B	▲
HGXR4020R0.5L16 0450	2	0.5	1.6	16	1.9	-	11	50	4	B	▲
HGXR4030R0.1L10 0660	3	0.1	2.4	10	2.9	-	11	60	6	B	▲
HGXR4030R0.1L12 0660	3	0.1	2.4	12	2.9	-	11	60	6	B	▲
HGXR4030R0.1L16 0660	3	0.1	2.4	16	2.9	-	11	60	6	B	▲
HGXR4030R0.1L20 0660	3	0.1	2.4	20	2.9	-	11	60	6	B	▲
HGXR4030R0.1L25 0675	3	0.1	2.4	25	2.9	-	11	75	6	B	▲
HGXR4030R0.2L10 0660	3	0.2	2.4	10	2.9	-	11	60	6	B	▲
HGXR4030R0.2L12 0660	3	0.2	2.4	12	2.9	-	11	60	6	B	▲
HGXR4030R0.2L16 0660	3	0.2	2.4	16	2.9	-	11	60	6	B	▲
HGXR4030R0.2L20 0660	3	0.2	2.4	20	2.9	-	11	60	6	B	▲
HGXR4030R0.2L25 0675	3	0.2	2.4	25	2.9	-	11	75	6	B	▲
HGXR4030R0.5L10 0660	3	0.5	2.4	10	2.9	-	11	60	6	B	▲
HGXR4030R0.5L12 0660	3	0.5	2.4	12	2.9	-	11	60	6	B	▲
HGXR4030R0.5L16 0660	3	0.5	2.4	16	2.9	-	11	60	6	B	▲
HGXR4030R0.5L20 0660	3	0.5	2.4	20	2.9	-	11	60	6	B	▲
HGXR4030R0.5L25 0675	3	0.5	2.4	25	2.9	-	11	75	6	B	▲
HGXR4040R0.1L12 0660	4	0.1	3.2	12	3.9	-	11	60	6	B	▲
HGXR4040R0.1L16 0660	4	0.1	3.2	16	3.9	-	11	60	6	B	▲
HGXR4040R0.1L20 0660	4	0.1	3.2	20	3.9	-	11	60	6	B	▲
HGXR4040R0.1L25 0675	4	0.1	3.2	25	3.9	-	11	75	6	B	▲
HGXR4040R0.1L30 0675	4	0.1	3.2	30	3.9	-	11	75	6	B	▲
HGXR4040R0.2L12 0660	4	0.2	3.2	12	3.9	-	11	60	6	B	▲
HGXR4040R0.2L16 0660	4	0.2	3.2	16	3.9	-	11	60	6	B	▲
HGXR4040R0.2L20 0660	4	0.2	3.2	20	3.9	-	11	60	6	B	▲
HGXR4040R0.2L25 0675	4	0.2	3.2	25	3.9	-	11	75	6	B	▲

HSXB 2-Flute Ball End Mill

HGXR4L 4-Flute Long Neck Corner Radius End Mill



∅ D	D Tolerance
D < 3	0 ~ -0.010
3 < D < 6	0 ~ -0.012

型 号	刃径	圆角半径	刃长	有效长	颈R	首径	柄锥角度	全长	柄径	图示	库存
Type No.	φD	CR	ℓ	ℓ ₁	R	φd ₁	γ/°	L	φd	Pic	Stock
HGXR4040R0.2L30 0675	4	0.2	3.2	30	-	3.9	11	75	6	B	▲
HGXR4040R0.5L12 0660	4	0.5	3.2	12	-	3.9	11	60	6	B	▲
HGXR4040R0.5L16 0660	4	0.5	3.2	16	-	3.9	11	60	6	B	▲
HGXR4040R0.5L20 0660	4	0.5	3.2	20	-	3.9	11	60	6	B	▲
HGXR4040R0.5L25 0675	4	0.5	3.2	25	-	3.9	11	75	6	B	▲
HGXR4040R0.5L30 0675	4	0.5	3.2	30	-	3.9	11	75	6	B	▲
HGXR4040R1.0L12 0660	4	1	3.2	12	-	3.9	11	60	6	B	▲
HGXR4040R1.0L16 0660	4	1	3.2	16	-	3.9	11	60	6	B	▲
HGXR4040R1.0L20 0660	4	1	3.2	20	-	3.9	11	60	6	B	▲
HGXR4040R1.0L25 0675	4	1	3.2	25	-	3.9	11	75	6	B	▲
HGXR4040R1.0L30 0675	4	1	3.2	30	-	3.9	11	75	6	B	▲



WC-Co