

# HEX

FOR HARDEND  
CUTTING

AS- High Speed Hardened Coated  
End Mill (Bronze) HRC65

AS-高速加硬塗層銑刀（古銅色）HRC65度

Micro Diameter End Mill (Minimum Diameter:0.09mm)



TUNGSTEN CARBIDE

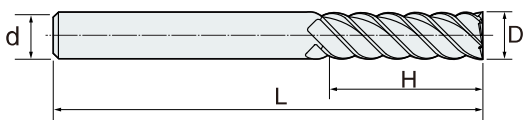
[www.dohretool.cn](http://www.dohretool.cn)

# HEX 6 flutes square end mills

6刃立铣刀



B165



UMG 0.5 μm CO10% HRC-65 AITINS

Product Code 产品编号	Blade diameter 刃径	Blade length 刃长	Full 全长	Shank 柄径	Inventory 库存
HEX6F04001105006	4.0	11	50	6	◎
HEX6F05001305006	5.0	13	50	6	◎
HEX6F06001505006	6.0	15	50	6	◎
HEX6F08002006008	8.0	20	60	8	◎
HEX6F10002507510	10.0	25	75	10	◎
HEX6F12003007512	12.0	30	75	12	◎
HEX6F16004010016	16.0	40	100	16	◎
HEX6F20004010020	20.0	40	100	20	◎
HEX6F25004510025	25.0	45	100	25	◎

## ★ WORK MATERIAL 被削材质

HEX			
P20 S45C 碳素钢	SCM SK 合金钢	SKT SKD 加硬模具钢	S316 加硬不锈钢
●	●	●	●

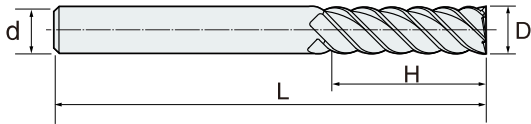
## ★ TOLERANCES 公差

Blade diameter 刃部直径	Blade diameter tolerance 刃部直径公差	Shank diameter tolerance 柄部直径公差
Φ4.0~Φ6.4	-0.01~-0.03	H6
Φ6.5~Φ10.9	-0.01~-0.035	
Φ11.0~Φ16.5	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	
Φ20.5~Φ25.0	-0.015~-0.05	

Order code: HEX 6F 040 011 050 06 AS  
 订货编号: D H L d HRC65

# HEX Long flute 6 flutes square end mills

長刃型 6刃立銑刀



UMG 0.5 μm CO10% HRC-65 AITINS

B166

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX6F04001607506	4.0	16	75	6	◎
HEX6F05002007506	5.0	20	75	6	◎
HEX6F06002507506	6.0	25	75	6	◎
HEX6F08003007508	8.0	30	75	8	◎
HEX6F04002010006	4.0	20	100	6	◎
HEX6F05002510006	5.0	25	100	6	◎
HEX6F06003010006	6.0	30	100	6	◎
HEX6F08003510008	8.0	35	100	8	◎
HEX6F10004010010	10.0	40	100	10	◎
HEX6F12004510012	12.0	45	100	12	◎
HEX6F08005015008	8.0	50	150	8	◎
HEX6F10005015010	10.0	50	150	10	◎
HEX6F12005015012	12.0	50	150	12	◎
HEX6F16007015016	16.0	70	150	16	◎
HEX6F20007015020	20.0	70	150	20	◎
HEX6F25008015025	25.0	80	150	25	◎

## ★ WORK MATERIAL 被削材質

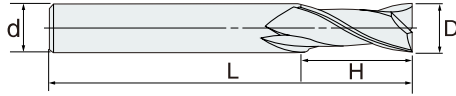
HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ4.0~Φ6.4	-0.01~-0.03	H6
Φ6.5~Φ10.9	-0.01~-0.035	
Φ11.0~Φ16.5	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	
Φ20.5~Φ25.0	-0.015~-0.05	

# HEX 2 flutes square end mills

2刃立铣刀



UMG 0.5 μm CO10% HRC-65 AITINS

B167

Product Code 产品编号	Blade diameter 刃径	Blade length 刃长	Full 全长	Shank 柄径	Inventory 库存
HEX2F01003005004	1.0	3	50	4	◎
HEX2F01504005004	1.5	4	50	4	◎
HEX2F02006005004	2.0	6	50	4	◎
HEX2F02507005004	2.5	7	50	4	◎
HEX2F03008005004	3.0	8	50	4	◎
HEX2F03510005004	3.5	10	50	4	◎
HEX2F04011005004	4.0	11	50	4	◎
HEX2F01003005006	1.0	3	50	6	◎
HEX2F01504005006	1.5	4	50	6	◎
HEX2F02006005006	2.0	6	50	6	◎
HEX2F02507005006	2.5	7	50	6	◎
HEX2F03008005006	3.0	8	50	6	◎
HEX2F03510005006	3.5	10	50	6	◎
HEX2F04011005006	4.0	11	50	6	◎
HEX2F04513005006	4.5	13	50	6	◎
HEX2F05013005006	5.0	13	50	6	◎
HEX2F05513005006	5.5	13	50	6	◎
HEX2F06015005006	6.0	15	50	6	◎
HEX2F06517006008	6.5	17	60	8	◎
HEX2F07017006008	7.0	17	60	8	◎
HEX2F07517006008	7.5	17	60	8	◎
HEX2F0802006008	8.0	20	60	8	◎
HEX2F08523007510	8.5	23	75	10	◎
HEX2F09023007510	9.0	23	75	10	◎
HEX2F09525007510	9.5	25	75	10	◎
HEX2F10025007510	10.0	25	75	10	◎
HEX2F10525007512	10.5	25	75	12	◎
HEX2F11028007512	11.0	28	75	12	◎
HEX2F11528007512	11.5	28	75	12	◎
HEX2F12030007512	12.0	30	75	12	◎
HEX2F13040010014	13.0	40	100	14	◎
HEX2F14040010014	14.0	40	100	14	◎
HEX2F15040010016	15.0	40	100	16	◎
HEX2F16040010016	16.0	40	100	16	◎
HEX2F17040010018	17.0	40	100	18	◎
HEX2F18040010018	18.0	40	100	18	◎
HEX2F19040010020	19.0	40	100	20	◎
HEX2F20040010020	20.0	40	100	20	◎
HEX2F22040010025	22.0	40	100	25	◎
HEX2F25040010025	25.0	40	100	25	◎

★ WORK MATERIAL 被削材质

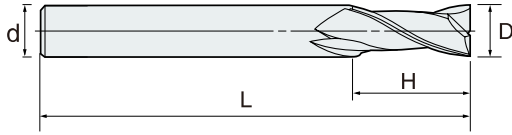
HEX			
P20 S45C 碳素钢	SCM SK 合金钢	SKT SKD 加硬模具钢	S316 加硬不锈钢
●	●	●	●

★ TOLERANCES 公差

Blade diameter 刃部直径	Blade diameter tolerance 刃部直径公差	Shank diameter tolerance 柄部直径公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.0	-0.01~-0.03	
Φ6.5~Φ10.5	-0.01~-0.035	
Φ11.0~Φ16.0	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	

# HEX Long shank 2 flutes square end mills

長柄標準刃 2刃立銑刀



UMG 0.5 μm CO10% HRC-65 AITINS

B168

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F01003007504	1.0	3	75	4	◎
HEX2F01504507504	1.5	4.5	75	4	◎
HEX2F02006007504	2.0	6	75	4	◎
HEX2F02507007504	2.5	7	75	4	◎
HEX2F03008007504	3.0	8	75	4	◎
HEX2F03510007504	3.5	10	75	4	◎
HEX2F04011007504	4.0	11	75	4	◎
HEX2F04513007506	4.5	13	75	6	◎
HEX2F05013007506	5.0	13	75	6	◎
HEX2F05513007506	5.5	13	75	6	◎
HEX2F06015007506	6.0	15	75	6	◎
HEX2F06517007508	6.5	17	75	8	◎
HEX2F07017007508	7.0	17	75	8	◎
HEX2F07517007508	7.5	17	75	8	◎
HEX2F08020007508	8.0	20	75	8	◎
HEX2F03008010006	3.0	8	100	6	◎
HEX2F04011010006	4.0	11	100	6	◎
HEX2F05013010006	5.0	13	100	6	◎
HEX2F06015010006	6.0	15	100	6	◎
HEX2F07017010008	7.0	17	100	8	◎
HEX2F08020010008	8.0	20	100	8	◎
HEX2F09023010010	9.0	23	100	10	◎
HEX2F10025010010	10.0	25	100	10	◎
HEX2F11028010012	11.0	28	100	12	◎
HEX2F12030010012	12.0	30	100	12	◎
HEX2F08020015008	8.0	20	150	8	◎
HEX2F10025015010	10.0	25	150	10	◎
HEX2F12030015012	12.0	30	150	12	◎
HEX2F16030015016	16.0	30	150	16	◎
HEX2F18040015018	18.0	40	150	18	◎
HEX2F20040015020	20.0	40	150	20	◎
HEX2F16040020016	16.0	40	200	16	◎
HEX2F20040020020	20.0	40	200	20	◎

## ★ WORK MATERIAL 被削材

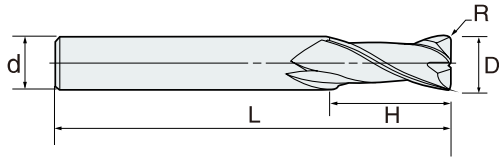
HEX			
P20 S45C 碳素钢	SCM SK 合金钢	SKT SKD 加硬模具钢	S316 加硬不锈钢
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直径	Blade diameter tolerance 刃部直径公差	Shank diameter tolerance 柄部直径公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.0	-0.01~-0.03	
Φ6.5~Φ10.5	-0.01~-0.035	
Φ11.0~Φ16.0	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	

# HEX 2 flutes corner radius end mills

圓鼻 2刃立銑刀



UMG 0.5 μm CO10% HRC-65 AITINS

B169

Product Code 產品編號	Blade diameter 刃徑	R	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F010R0203005004	1.0	0.2	3	50	4	◎
HEX2F015R0204005004	1.5	0.2	4	50	4	◎
HEX2F015R0504005004	1.5	0.5	4	50	4	◎
HEX2F020R0206005004	2.0	0.2	6	50	4	◎
HEX2F020R0506005004	2.0	0.5	6	50	4	◎
HEX2F025R0208005004	2.5	0.2	8	50	4	◎
HEX2F025R0508005004	2.5	0.5	8	50	4	◎
HEX2F030R0208005004	3.0	0.2	8	50	4	◎
HEX2F030R0508005004	3.0	0.5	8	50	4	◎
HEX2F030R1008005004	3.0	1.0	8	50	4	◎
HEX2F040R0211005004	4.0	0.2	11	50	4	◎
HEX2F040R0511005004	4.0	0.5	11	50	4	◎
HEX2F040R1011005004	4.0	1.0	11	50	4	◎
HEX2F050R0513005006	5.0	0.5	13	50	6	◎
HEX2F050R1013005006	5.0	1.0	13	50	6	◎
HEX2F060R0215005006	6.0	0.2	15	50	6	◎
HEX2F060R0515005006	6.0	0.5	15	50	6	◎
HEX2F060R1015005006	6.0	1.0	15	50	6	◎
HEX2F060R1515005006	6.0	1.5	15	50	6	◎
HEX2F060R2015005006	6.0	2.0	15	50	6	◎
HEX2F080R0520006008	8.0	0.5	20	60	8	◎
HEX2F080R1020006008	8.0	1.0	20	60	8	◎
HEX2F080R1520006008	8.0	1.5	20	60	8	◎
HEX2F080R2020006008	8.0	2.0	20	60	8	◎
HEX2F100R0525007510	10.0	0.5	25	75	10	◎
HEX2F100R1025007510	10.0	1.0	25	75	10	◎
HEX2F100R1525007510	10.0	1.5	25	75	10	◎
HEX2F100R2025007510	10.0	2.0	25	75	10	◎
HEX2F100R2525007510	10.0	2.5	25	75	10	◎
HEX2F100R3030007510	10.0	3.0	25	75	10	◎
HEX2F120R0530007512	12.0	0.5	30	75	12	◎
HEX2F120R1030007512	12.0	1.0	30	75	12	◎
HEX2F120R1530007512	12.0	1.5	30	75	12	◎
HEX2F120R2030007512	12.0	2.0	30	75	12	◎
HEX2F120R2530007512	12.0	2.5	30	75	12	◎
HEX2F120R3030007512	12.0	3.0	30	75	12	◎

## ★ WORK MATERAIL 被削材質

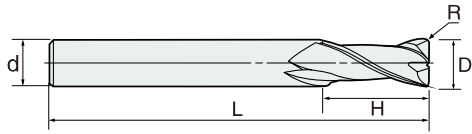
HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.0	-0.01~-0.03	
Φ6.5~Φ10.5	-0.01~-0.035	
Φ11.0~Φ12.0	-0.01~-0.04	

# HEX Long shank 2 flutes corner radius end mills

長柄圓鼻2刃立銼刀



UMG 0.5 μm CO10% HRC-65 AITINS



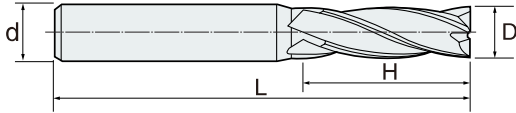
B170

Product Code 產品編號	Blade diameter 刃徑	R	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F010R0203007504	1.0	0.2	3	75	4	◎
HEX2F015R0204007504	1.5	0.2	4	75	4	◎
HEX2F015R0504007504	1.5	0.5	4	75	4	◎
HEX2F020R0206007504	2.0	0.2	6	75	4	◎
HEX2F020R0506007504	2.0	0.5	6	75	4	◎
HEX2F025R0208007504	2.5	0.2	8	75	4	◎
HEX2F025R0508007504	2.5	0.5	8	75	4	◎
HEX2F030R0208007504	3.0	0.2	8	75	4	◎
HEX2F030R0508007504	3.0	0.5	8	75	4	◎
HEX2F030R1008007504	3.0	1.0	8	75	4	◎
HEX2F040R0211007504	4.0	0.2	11	75	4	◎
HEX2F040R0511007504	4.0	0.5	11	75	4	◎
HEX2F040R1011007504	4.0	1.0	11	75	4	◎
HEX2F050R0511007506	5.0	0.5	11	75	6	◎
HEX2F050R1013007506	5.0	1.0	13	75	6	◎
HEX2F060R0215007506	6.0	0.2	15	75	6	◎
HEX2F060R0515007506	6.0	0.5	15	75	6	◎
HEX2F060R1015007506	6.0	1.0	15	75	6	◎
HEX2F060R1515007506	6.0	1.5	15	75	6	◎
HEX2F060R2015007506	6.0	2.0	15	75	6	◎
HEX2F080R0520007508	8.0	0.5	20	75	8	◎
HEX2F080R1020007508	8.0	1.0	20	75	8	◎
HEX2F080R1520007508	8.0	1.5	20	75	8	◎
HEX2F080R2020007508	8.0	2.0	20	75	8	◎
HEX2F040R0211010006	4.0	0.2	11	100	6	◎
HEX2F040R0511010006	4.0	0.5	11	100	6	◎
HEX2F040R1011010006	4.0	1.0	11	100	6	◎
HEX2F050R0513010006	5.0	0.5	13	100	6	◎
HEX2F050R1013010006	5.0	1.0	13	100	6	◎
HEX2F060R0215010006	6.0	0.2	15	100	6	◎
HEX2F060R0515010006	6.0	0.5	15	100	6	◎
HEX2F060R1015010006	6.0	1.0	15	100	6	◎
HEX2F060R1515010006	6.0	1.5	15	100	6	◎
HEX2F060R2015010006	6.0	2.0	15	100	6	◎
HEX2F080R0520010008	8.0	0.5	20	100	8	◎
HEX2F080R1020010008	8.0	1.0	20	100	8	◎
HEX2F080R1520010008	8.0	1.5	20	100	8	◎
HEX2F080R2020010008	8.0	2.0	20	100	8	◎
HEX2F100R0525010010	10.0	0.5	25	100	10	◎
HEX2F100R1025010010	10.0	1.0	25	100	10	◎
HEX2F100R1525010010	10.0	1.5	25	100	10	◎
HEX2F100R2025010010	10.0	2.0	25	100	10	◎
HEX2F100R2525010010	10.0	2.5	25	100	10	◎
HEX2F100R3025010010	10.0	3.0	25	100	10	◎
HEX2F120R0530010012	12.0	0.5	30	100	12	◎
HEX2F120R1030010012	12.0	1.0	30	100	12	◎
HEX2F120R1530010012	12.0	1.5	30	100	12	◎
HEX2F120R2030010012	12.0	2.0	30	100	12	◎
HEX2F120R2530010012	12.0	2.5	30	100	12	◎
HEX2F120R3030010012	12.0	3.0	30	100	12	◎

■Special specifications can be customized. ■特殊規格可訂制。

# HEX 4 flutes square end mills

4刃立铣刀



UMG 0.5 μm CO10% HRC-65 AITINS

B171

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F01003005004	1.0	3	50	4	◎
HEX4F01504505004	1.5	4.5	50	4	◎
HEX4F02006005004	2.0	6	50	4	◎
HEX4F02507005004	2.5	7	50	4	◎
HEX4F03008005004	3.0	8	50	4	◎
HEX4F03510005004	3.5	10	50	4	◎
HEX4F04011005004	4.0	11	50	4	◎
HEX4F04513005006	4.5	13	50	6	◎
HEX4F05013005006	5.0	13	50	6	◎
HEX4F05513005006	5.5	13	50	6	◎
HEX4F06015005006	6.0	15	50	6	◎
HEX4F06517006008	6.5	17	60	8	◎
HEX4F07017006008	7.0	17	60	8	◎
HEX4F07517006008	7.5	17	60	8	◎
HEX4F08020006008	8.0	20	60	8	◎
HEX4F08523007510	8.5	23	75	10	◎
HEX4F09023007510	9.0	23	75	10	◎
HEX4F09525007510	9.5	25	75	10	◎
HEX4F10025007510	10.0	25	75	10	◎
HEX4F10525007512	10.5	25	75	12	◎
HEX4F11028007512	11.0	28	75	12	◎
HEX4F11528007512	11.5	28	75	12	◎
HEX4F12030007512	12.0	30	75	12	◎
HEX4F13033010014	13.0	33	100	14	◎
HEX4F14035010014	14.0	35	100	14	◎
HEX4F15038010016	15.0	38	100	16	◎
HEX4F16040010016	16.0	40	100	16	◎
HEX4F17040010018	17.0	40	100	18	◎
HEX4F18040010018	18.0	40	100	18	◎
HEX4F19040010020	19.0	40	100	20	◎
HEX4F20040010020	20.0	40	100	20	◎
HEX4F22040010025	22.0	40	100	25	◎
HEX4F25040010025	25.0	40	100	25	◎

## ★ WORK MATERIAL 被削材質

HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

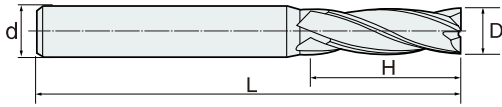
## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.4	-0.01~-0.03	
Φ6.5~Φ10.9	-0.01~-0.035	
Φ11.0~Φ16.5	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	
Φ20.5~Φ25.0	-0.015~-0.05	



# HEX Long shank 4 flutes square end mills

長柄標準刃 4刃立銼刀



UMG 0.5 μm CO10% HRC-65 AITINS

B172

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F01003007504	1.0	3	75	4	◎
HEX4F01504507504	1.5	4.5	75	4	◎
HEX4F02006007504	2.0	6	75	4	◎
HEX4F02507007504	2.5	7	75	4	◎
HEX4F03008007504	3.0	8	75	4	◎
HEX4F03510007504	3.5	10	75	4	◎
HEX4F04011007504	4.0	11	75	4	◎
HEX4F04513007506	4.5	13	75	6	◎
HEX4F05013007506	5.0	13	75	6	◎
HEX4F05513007506	5.5	13	75	6	◎
HEX4F06015007506	6.0	15	75	6	◎
HEX4F06517007508	6.5	17	75	8	◎
HEX4F07017007508	7.0	17	75	8	◎
HEX4F07517007508	7.5	17	75	8	◎
HEX4F08020007508	8.0	20	75	8	◎
HEX4F03008010006	3.0	8	100	6	◎
HEX4F04011010006	4.0	11	100	6	◎
HEX4F05013010006	5.0	13	100	6	◎
HEX4F06015010006	6.0	15	100	6	◎
HEX4F07017010008	7.0	17	100	8	◎
HEX4F08020010008	8.0	20	100	8	◎
HEX4F09023010010	9.0	23	100	10	◎
HEX4F10025010010	10.0	25	100	10	◎
HEX4F11028010012	11.0	28	100	12	◎
HEX4F12030010012	12.0	30	100	12	◎
HEX4F08020015008	8.0	20	150	8	◎
HEX4F10025015010	10.0	25	150	10	◎
HEX4F12030015012	12.0	30	150	12	◎
HEX4F16040015016	16.0	40	150	16	◎
HEX4F18040015018	18.0	40	150	18	◎
HEX4F20040015020	20.0	40	150	20	◎
HEX4F16040020016	16.0	40	200	16	◎
HEX4F20040020020	20.0	40	200	20	◎

## ★ WORK MATERAIL 被削材質

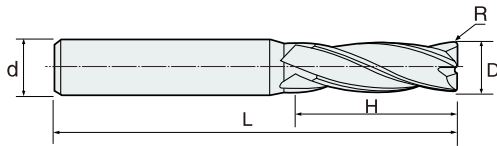
HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.0	-0.01~-0.03	
Φ6.5~Φ10.5	-0.01~-0.035	
Φ11.0~Φ16.0	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	

# HEX 4 flutes corner radius end mills

圓鼻 4刃立銑刀



UMG 0.5 μm CO10% HRC-65 AITINS

B173

Product Code 產品編號	Blade diameter 刃徑	R	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F010R0203005004	1.0	0.2	3	50	4	◎
HEX4F015R0204005004	1.5	0.2	4	50	4	◎
HEX4F015R0504005004	1.5	0.5	4	50	4	◎
HEX4F020R0206005004	2.0	0.2	6	50	4	◎
HEX4F020R0506005004	2.0	0.5	6	50	4	◎
HEX4F025R0208005004	2.5	0.2	8	50	4	◎
HEX4F025R0508005004	2.5	0.5	8	50	4	◎
HEX4F030R0208005004	3.0	0.2	8	50	4	◎
HEX4F030R0508005004	3.0	0.5	8	50	4	◎
HEX4F030R1008005004	3.0	1.0	8	50	4	◎
HEX4F040R0211005004	4.0	0.2	11	50	4	◎
HEX4F040R0511005004	4.0	0.5	11	50	4	◎
HEX4F040R1011005004	4.0	1.0	11	50	4	◎
HEX4F050R0513005006	5.0	0.5	13	50	6	◎
HEX4F050R1013005006	5.0	1.0	13	50	6	◎
HEX4F060R0215005006	6.0	0.2	15	50	6	◎
HEX4F060R0515005006	6.0	0.5	15	50	6	◎
HEX4F060R1015005006	6.0	1.0	15	50	6	◎
HEX4F060R1515005006	6.0	1.5	15	50	6	◎
HEX4F060R2015005006	6.0	2.0	15	50	6	◎
HEX4F080R0520006008	8.0	0.5	20	60	8	◎
HEX4F080R1020006008	8.0	1.0	20	60	8	◎
HEX4F080R1520006008	8.0	1.5	20	60	8	◎
HEX4F080R2020006008	8.0	2.0	20	60	8	◎
HEX4F100R0525007510	10.0	0.5	25	75	10	◎
HEX4F100R1025007510	10.0	1.0	25	75	10	◎
HEX4F100R1525007510	10.0	1.5	25	75	10	◎
HEX4F100R2025007510	10.0	2.0	25	75	10	◎
HEX4F100R2525007510	10.0	2.5	25	75	10	◎
HEX4F100R3025007510	10.0	3.0	25	75	10	◎
HEX4F120R0530007512	12.0	0.5	30	75	12	◎
HEX4F120R1030007512	12.0	1.0	30	75	12	◎
HEX4F120R1530007512	12.0	1.5	30	75	12	◎
HEX4F120R2030007512	12.0	2.0	30	75	12	◎
HEX4F120R2530007512	12.0	2.5	30	75	12	◎
HEX4F120R3030007512	12.0	3.0	30	75	12	◎

## ★ WORK MATERIAL 被削材質

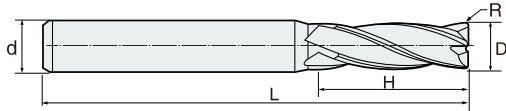
HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.0	-0.01~-0.03	
Φ6.5~Φ10.5	-0.01~-0.035	
Φ11.0~Φ12.0	-0.01~-0.04	

# HEX Long shank 4 flutes corner radius end mills

長柄圓鼻 4 刃立銼刀



UMG 0.5 μm CO10% HRC-65 AITINS

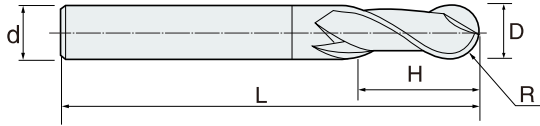
B174

Product Code 產品編號	Blade diameter 刃徑	R	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F010R0203007504	1.0	0.2	3	75	4	◎
HEX4F015R0204007504	1.5	0.2	4	75	4	◎
HEX4F015R0504007504	1.5	0.5	4	75	4	◎
HEX4F020R0206007504	2.0	0.2	6	75	4	◎
HEX4F020R0506007504	2.0	0.5	6	75	4	◎
HEX4F025R0208007504	2.5	0.2	8	75	4	◎
HEX4F025R0508007504	2.5	0.5	8	75	4	◎
HEX4F030R0208007504	3.0	0.2	8	75	4	◎
HEX4F030R0508007504	3.0	0.5	8	75	4	◎
HEX4F030R1008007504	3.0	1.0	8	75	4	◎
HEX4F040R0211007504	4.0	0.2	11	75	4	◎
HEX4F040R0511007504	4.0	0.5	11	75	4	◎
HEX4F040R1011007504	4.0	1.0	11	75	4	◎
HEX4F050R0513007506	5.0	0.5	13	75	6	◎
HEX4F050R1013007506	5.0	1.0	13	75	6	◎
HEX4F060R0215007506	6.0	0.2	15	75	6	◎
HEX4F060R0515007506	6.0	0.5	15	75	6	◎
HEX4F060R1015007506	6.0	1.0	15	75	6	◎
HEX4F060R1515007506	6.0	1.5	15	75	6	◎
HEX4F060R2015007506	6.0	2.0	15	75	6	◎
HEX4F080R0520007508	8.0	0.5	20	75	8	◎
HEX4F080R1020007508	8.0	1.0	20	75	8	◎
HEX4F080R1520007508	8.0	1.5	20	75	8	◎
HEX4F080R2020007508	8.0	2.0	20	75	8	◎
HEX4F040R0211010006	4.0	0.2	11	100	6	◎
HEX4F040R0511010006	4.0	0.5	11	100	6	◎
HEX4F040R1011010006	4.0	1.0	11	100	6	◎
HEX4F050R0513010006	5.0	0.5	13	100	6	◎
HEX4F050R1013010006	5.0	1.0	13	100	6	◎
HEX4F060R0215010006	6.0	0.2	15	100	6	◎
HEX4F060R0515010006	6.0	0.5	15	100	6	◎
HEX4F060R1015010006	6.0	1.0	15	100	6	◎
HEX4F060R1515010006	6.0	1.5	15	100	6	◎
HEX4F060R2015010006	6.0	2.0	15	100	6	◎
HEX4F080R0520010008	8.0	0.5	20	100	8	◎
HEX4F080R1020010008	8.0	1.0	20	100	8	◎
HEX4F080R1520010008	8.0	1.5	20	100	8	◎
HEX4F080R2020010008	8.0	2.0	20	100	8	◎
HEX4F100R0525010010	10.0	0.5	25	100	10	◎
HEX4F100R1025010010	10.0	1.0	25	100	10	◎
HEX4F100R1525010010	10.0	1.5	25	100	10	◎
HEX4F100R2025010010	10.0	2.0	25	100	10	◎
HEX4F100R2525010010	10.0	2.5	25	100	10	◎
HEX4F100R3025010010	10.0	3.0	25	100	10	◎
HEX4F120R0530010012	12.0	0.5	30	100	12	◎
HEX4F120R1030010012	12.0	1.0	30	100	12	◎
HEX4F120R1530010012	12.0	1.5	30	100	12	◎
HEX4F120R2030010012	12.0	2.0	30	100	12	◎
HEX4F120R2530010012	12.0	2.5	30	100	12	◎
HEX4F120R3030010012	12.0	3.0	30	100	12	◎

■ Special specifications can be customized. ■ 特殊規格可訂制。

# HEX 2 flutes ball nose end mills

2刃球型立铣刀



UMG 0.5 μm CO10% HRC-65 AITINS

B175

Product Code 產品編號	R Blade R 徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2FR005002005004	R0.50	2.0	50	4	◎
HEX2FR007503005004	R0.75	3.0	50	4	◎
HEX2FR010004005004	R1.00	4.0	50	4	◎
HEX2FR012505005004	R1.25	5.0	50	4	◎
HEX2FR015006005004	R1.50	6.0	50	4	◎
HEX2FR017507005004	R1.75	7.0	50	4	◎
HEX2FR020008005004	R2.00	8.0	50	4	◎
HEX2FR005002005006	R0.50	2.0	50	6	◎
HEX2FR007503005006	R0.75	3.0	50	6	◎
HEX2FR010004005006	R1.00	4.0	50	6	◎
HEX2FR012505005006	R1.25	5.0	50	6	◎
HEX2FR015006005006	R1.50	6.0	50	6	◎
HEX2FR017507005006	R1.75	7.0	50	6	◎
HEX2FR020008005006	R2.00	8.0	50	6	◎
HEX2FR022509005006	R2.25	9.0	50	6	◎
HEX2FR025010005006	R2.50	10.0	50	6	◎
HEX2FR027511005006	R2.75	11.0	50	6	◎
HEX2FR030012005006	R3.00	12.0	50	6	◎
HEX2FR032513006008	R3.25	13.0	60	8	◎
HEX2FR035014006008	R3.50	14.0	60	8	◎
HEX2FR037515006008	R3.75	15.0	60	8	◎
HEX2FR040016006008	R4.00	16.0	60	8	◎
HEX2FR045018007510	R4.50	18.0	75	10	◎
HEX2FR050020007510	R5.00	20.0	75	10	◎
HEX2FR060024007512	R6.00	24.0	75	12	◎
HEX2FR070030010014	R7.00	30.0	100	14	◎
HEX2FR080030010016	R8.00	30.0	100	16	◎
HEX2FR090030010018	R9.00	30.0	100	18	◎
HEX2FR100030010020	R10.0	30.0	100	20	◎
HEX2FR125030010025	R12.5	30.0	100	25	◎

## ★ WORK MATERAIL 被削材质

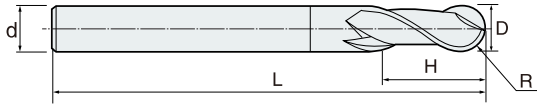
HEX			
P20 S45C 碳素钢	SCM SK 合金钢	SKT SKD 加硬模具钢	S316 加硬不锈钢
●	●	●	●
R	R diameter tolerance		
R	R ± 0.015		

## ★ TOLERANCES 公差

Blade diameter 刃部直径	Blade diameter tolerance 刃部直径公差	Shank diameter tolerance 柄部直径公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.4	-0.01~-0.03	
Φ6.5~Φ10.9	-0.01~-0.035	
Φ11.0~Φ16.5	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	
Φ20.5~Φ25.0	-0.015~-0.05	

# HEX Long shank 2 flutes ball nose end mills

長柄 2刃球型立銼刀



UMG 0.5 μm CO10% HRC-65 AITINS



Product Code 產品編號	R Blade R 徑	Blade length 刃長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2FR005002007504	R0.50	2	75	4	◎
HEX2FR007503007504	R0.75	3	75	4	◎
HEX2FR010004007504	R1.00	4	75	4	◎
HEX2FR012505007504	R1.25	5	75	4	◎
HEX2FR015006007504	R1.50	6	75	4	◎
HEX2FR017507007504	R1.75	7	75	4	◎
HEX2FR020008007504	R2.00	8	75	4	◎
HEX2FR022509007506	R2.25	9	75	6	◎
HEX2FR025010007506	R2.50	10	75	6	◎
HEX2FR027511007506	R2.75	11	75	6	◎
HEX2FR030012007506	R3.00	12	75	6	◎
HEX2FR040016007508	R4.00	16	75	8	◎
HEX2FR005002010006	R0.50	2	100	6	◎
HEX2FR007503010006	R0.75	3	100	6	◎
HEX2FR010004010006	R1.00	4	100	6	◎
HEX2FR012505010006	R1.25	5	100	6	◎
HEX2FR015006010006	R1.50	6	100	6	◎
HEX2FR017507010006	R1.75	7	100	6	◎
HEX2FR020008010006	R2.00	8	100	6	◎
HEX2FR022509010006	R2.25	9	100	6	◎
HEX2FR025010010006	R2.50	10	100	6	◎
HEX2FR027511010006	R2.75	11	100	6	◎
HEX2FR030012010006	R3.00	12	100	6	◎
HEX2FR040016010008	R4.00	16	100	8	◎
HEX2FR050020010010	R5.00	20	100	10	◎
HEX2FR060024010012	R6.00	24	100	12	◎
HEX2FR030012015006	R3.00	12	150	6	◎
HEX2FR040016015008	R4.00	16	150	8	◎
HEX2FR050020015010	R5.00	20	150	10	◎
HEX2FR060024015012	R6.00	24	150	12	◎
HEX2FR070030015014	R7.00	30	150	14	◎
HEX2FR080030015016	R8.00	30	150	16	◎
HEX2FR100030015020	R10.00	30	150	20	◎
HEX2FR040016020008	R4.00	16	200	8	◎
HEX2FR050020020010	R5.00	20	200	10	◎
HEX2FR060024020012	R6.00	24	200	12	◎
HEX2FR070030020014	R7.00	30	200	14	◎
HEX2FR080030020016	R8.00	30	200	16	◎
HEX2FR100030020020	R10.00	30	200	20	◎

★ WORK MATERAIL 被削材質

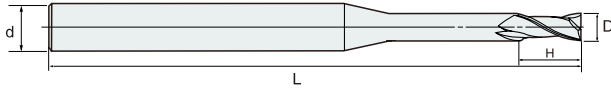
HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●
R	R diameter tolerance		
R	R ± 0.015		

★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差	Shank diameter tolerance 柄部直徑公差
Φ1.0~Φ2.9	0~-0.02	H6
Φ3.0~Φ6.4	-0.01~-0.03	
Φ6.5~Φ10.9	-0.01~-0.035	
Φ11.0~Φ16.5	-0.01~-0.04	
Φ17.0~Φ20.0	-0.015~-0.045	
Φ20.5~Φ25.0	-0.015~-0.05	

# HEX 2 flutes long neck short flute square end mills

二刃平底深溝銑刀



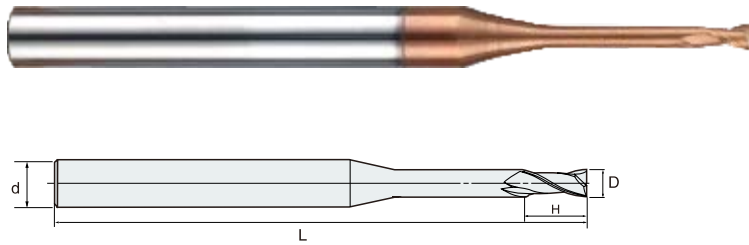
UMG 0.5 μm CO10% HRC-65 AITINS

B177

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F00200301005004	0.2	0.3	1	50	4	◎
HEX2F00200302005004	0.2	0.3	2	50	4	◎
HEX2F00300401005004	0.3	0.4	1	50	4	◎
HEX2F00300402005004	0.3	0.4	2	50	4	◎
HEX2F00300403005004	0.3	0.4	3	50	4	◎
HEX2F00300404005004	0.3	0.4	4	50	4	◎
HEX2F00300405005004	0.3	0.4	5	50	4	◎
HEX2F00400501005004	0.4	0.5	1	50	4	◎
HEX2F00400502005004	0.4	0.5	2	50	4	◎
HEX2F00400503005004	0.4	0.5	3	50	4	◎
HEX2F00400504005004	0.4	0.5	4	50	4	◎
HEX2F00400505005004	0.4	0.5	5	50	4	◎
HEX2F00400506005004	0.4	0.5	6	50	4	◎
HEX2F00400508005004	0.4	0.5	8	50	4	◎
HEX2F00400510005004	0.4	0.5	10	50	4	◎
HEX2F00500602005004	0.5	0.6	2	50	4	◎
HEX2F00500603005004	0.5	0.6	3	50	4	◎
HEX2F00500604005004	0.5	0.6	4	50	4	◎
HEX2F00500605005004	0.5	0.6	5	50	4	◎
HEX2F00500606005004	0.5	0.6	6	50	4	◎
HEX2F00500608005004	0.5	0.6	8	50	4	◎
HEX2F00500610005004	0.5	0.6	10	50	4	◎
HEX2F00500612005004	0.5	0.6	12	50	4	◎
HEX2F00500614005004	0.5	0.6	14	50	4	◎
HEX2F00600702005004	0.6	0.7	2	50	4	◎
HEX2F00600703005004	0.6	0.7	3	50	4	◎
HEX2F00600704005004	0.6	0.7	4	50	4	◎
HEX2F00600705005004	0.6	0.7	5	50	4	◎
HEX2F00600706005004	0.6	0.7	6	50	4	◎
HEX2F00600708005004	0.6	0.7	8	50	4	◎
HEX2F00600710005004	0.6	0.7	10	50	4	◎
HEX2F00600712005004	0.6	0.7	12	50	4	◎
HEX2F00600714005004	0.6	0.7	14	50	4	◎
HEX2F00600716005004	0.6	0.7	16	50	4	◎
HEX2F00700802005004	0.7	0.8	2	50	4	◎
HEX2F00700804005004	0.7	0.8	4	50	4	◎
HEX2F00700806005004	0.7	0.8	6	50	4	◎
HEX2F00700808005004	0.7	0.8	8	50	4	◎
HEX2F00700810005004	0.7	0.8	10	50	4	◎
HEX2F00700812005004	0.7	0.8	12	50	4	◎
HEX2F00801002005004	0.8	1.0	2	50	4	◎
HEX2F00801004005004	0.8	1.0	4	50	4	◎
HEX2F00801006005004	0.8	1.0	6	50	4	◎
HEX2F00801008005004	0.8	1.0	8	50	4	◎
HEX2F00801010005004	0.8	1.0	10	50	4	◎
HEX2F00801012005004	0.8	1.0	12	50	4	◎
HEX2F00801014005004	0.8	1.0	14	50	4	◎
HEX2F00901106005004	0.9	1.1	6	50	4	◎
HEX2F00901108005004	0.9	1.1	8	50	4	◎
HEX2F00901110005004	0.9	1.1	10	50	4	◎
HEX2F01001202005004	1.0	1.2	2	50	4	◎
HEX2F01001203005004	1.0	1.2	3	50	4	◎
HEX2F01001204005004	1.0	1.2	4	50	4	◎
HEX2F01001205005004	1.0	1.2	5	50	4	◎
HEX2F01001206005004	1.0	1.2	6	50	4	◎
HEX2F01001208005004	1.0	1.2	8	50	4	◎
HEX2F01001210005004	1.0	1.2	10	50	4	◎

# HEX 2 flutes long neck short flute square end mills

二刃平底深溝銑刀



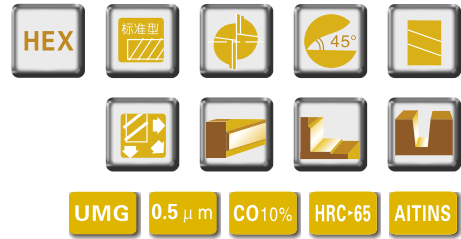
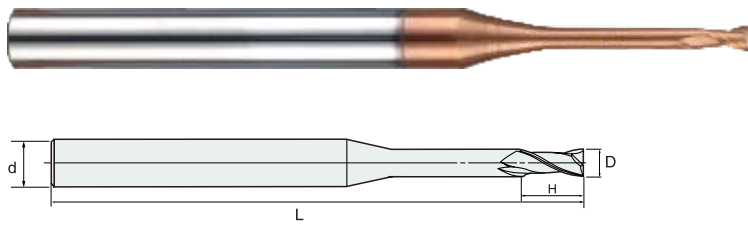
UMG 0.5 μm CO10% HRC-65 AITINS

B178

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F01001212005004	1.0	1.2	12	50	4	◎
HEX2F01001214005004	1.0	1.2	14	50	4	◎
HEX2F01001216005004	1.0	1.2	16	50	4	◎
HEX2F01001218005004	1.0	1.2	18	50	4	◎
HEX2F01001220005004	1.0	1.2	20	50	4	◎
HEX2F01201504005004	1.2	1.5	4	50	4	◎
HEX2F01201506005004	1.2	1.5	6	50	4	◎
HEX2F01201508005004	1.2	1.5	8	50	4	◎
HEX2F01201510005004	1.2	1.5	10	50	4	◎
HEX2F01201512005004	1.2	1.5	12	50	4	◎
HEX2F01201516005004	1.2	1.5	16	50	4	◎
HEX2F01201520005004	1.2	1.5	20	50	4	◎
HEX2F01401806005004	1.4	1.8	6	50	4	◎
HEX2F01401808005004	1.4	1.8	8	50	4	◎
HEX2F01401810005004	1.4	1.8	10	50	4	◎
HEX2F01401814005004	1.4	1.8	14	50	4	◎
HEX2F01401816005004	1.4	1.8	16	50	4	◎
HEX2F01401818005004	1.4	1.8	18	50	4	◎
HEX2F01401820005004	1.4	1.8	20	50	4	◎
HEX2F01501804005004	1.5	1.8	4	50	4	◎
HEX2F01501806005004	1.5	1.8	6	50	4	◎
HEX2F01501808005004	1.5	1.8	8	50	4	◎
HEX2F01501810005004	1.5	1.8	10	50	4	◎
HEX2F01501812005004	1.5	1.8	12	50	4	◎
HEX2F01501814005004	1.5	1.8	14	50	4	◎
HEX2F01501816005004	1.5	1.8	16	50	4	◎
HEX2F01501818005004	1.5	1.8	18	50	4	◎
HEX2F01501820005004	1.5	1.8	20	50	4	◎
HEX2F01601910005004	1.6	1.9	10	50	4	◎
HEX2F01601914005004	1.6	1.9	14	50	4	◎
HEX2F01601918005004	1.6	1.9	18	50	4	◎
HEX2F01802010005004	1.8	2.0	10	50	4	◎
HEX2F01802014005004	1.8	2.0	14	50	4	◎
HEX2F01802018005004	1.8	2.0	18	50	4	◎
HEX2F02002504005004	2.0	2.5	4	50	4	◎
HEX2F02002506005004	2.0	2.5	6	50	4	◎
HEX2F02002508005004	2.0	2.5	8	50	4	◎
HEX2F02002510005004	2.0	2.5	10	50	4	◎
HEX2F02002512005004	2.0	2.5	12	50	4	◎
HEX2F02002514005004	2.0	2.5	14	50	4	◎
HEX2F02002516005004	2.0	2.5	16	50	4	◎
HEX2F02002518005004	2.0	2.5	18	50	4	◎
HEX2F02002520005004	2.0	2.5	20	50	4	◎
HEX2F02002522005004	2.0	2.5	22	50	4	◎
HEX2F02002525005004	2.0	2.5	25	50	4	◎
HEX2F02002530005004	2.0	2.5	30	50	4	◎
HEX2F02002535005004	2.0	2.5	35	50	4	◎
HEX2F02503008005004	2.5	3.0	8	50	4	◎
HEX2F02503010005004	2.5	3.0	10	50	4	◎
HEX2F02503012005004	2.5	3.0	12	50	4	◎
HEX2F02503016005004	2.5	3.0	16	50	4	◎
HEX2F02503020005004	2.5	3.0	20	50	4	◎
HEX2F02503025005004	2.5	3.0	25	50	4	◎
HEX2F02503030005004	2.5	3.0	30	50	4	◎
HEX2F02503035005004	2.5	3.0	35	50	4	◎

# HEX 2 flutes long neck short flute square end mills

二刃平底深溝銑刀



B179

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2F03003506005006	3.0	3.5	6	50	6	◎
HEX2F03003510005006	3.0	3.5	10	50	6	◎
HEX2F03003512005006	3.0	3.5	12	50	6	◎
HEX2F03003516005006	3.0	3.5	16	50	6	◎
HEX2F03003520006006	3.0	3.5	20	60	6	◎
HEX2F03003525006006	3.0	3.5	25	60	6	◎
HEX2F03003530006006	3.0	3.5	30	60	6	◎
HEX2F03003535007506	3.0	3.5	35	75	6	◎
HEX2F04004508005006	4.0	4.5	8	50	6	◎
HEX2F04004510005006	4.0	4.5	10	50	6	◎
HEX2F04004512005006	4.0	4.5	12	50	6	◎
HEX2F04004516005006	4.0	4.5	16	50	6	◎
HEX2F04004520006006	4.0	4.5	20	60	6	◎
HEX2F04004525006006	4.0	4.5	25	60	6	◎
HEX2F04004530006006	4.0	4.5	30	60	6	◎
HEX2F04004535007506	4.0	4.5	35	75	6	◎
HEX2F05007016005006	5.0	7.0	16	50	6	◎
HEX2F05007020006006	5.0	7.0	20	60	6	◎
HEX2F05007025006006	5.0	7.0	25	60	6	◎
HEX2F05007030006006	5.0	7.0	30	60	6	◎
HEX2F05007035075006	5.0	7.0	35	75	6	◎
HEX2F06010020006006	6.0	10.0	20	60	6	◎
HEX2F06010030075006	6.0	10.0	30	75	6	◎
HEX2F08015020006008	8.0	15.0	20	60	8	◎
HEX2F08015030075008	8.0	15.0	30	75	8	◎
HEX2F08015040010008	8.0	15.0	40	100	8	◎
HEX2F10020025075010	10.0	20.0	25	75	10	◎
HEX2F10020035075010	10.0	20.0	35	75	10	◎
HEX2F10020045010010	10.0	20.0	45	100	10	◎
HEX2F12025030075012	12.0	25.0	30	75	12	◎
HEX2F12025040010012	12.0	25.0	40	100	12	◎
HEX2F12025050010012	12.0	25.0	50	100	12	◎

Working material 被切材質	Alloy steel/Tool steel 合金鋼/工具鋼	Alloy steel/Tool steel 合金鋼/工具鋼	Alloy steel/Tool steel 合金鋼/工具鋼	Alloy steel/Tool steel 合金鋼/工具鋼
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Material code 材質編碼	45C,S50C,SCM	SCM,SKT,SKD	SCM,SKT,SKD	SKT,SKD
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Hardness grade 硬度等級	HRC < 20	HRC 20~30	HRC 30~40	HRC 40~50
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## ★ WORK MATERAIL 被削材質

HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差
Φ	0~-0.02

Diameter 直徑	R.P.M		Feed (mm/mm)		R.P.M		Feed (mm/mm)	
	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)
0.2MM	52,000	310	52,000	290	52,000	250	52,000	250
0.3MM	56,000	520	56,000	460	56,000	410	56,000	410
0.4MM	52,000	610	52,000	580	44,600	420	44,600	420
0.5MM	52,800	840	50,000	720	37,600	470	37,600	470
0.8MM	34,100	830	28,100	650	21,100	450	21,100	450
1.0MM	30,100	1,070	24,400	770	19,500	480	19,500	480
1.5MM	20,000	980	17,500	740	12,400	450	12,400	450
2.0MM	18,500	1,250	16,400	930	11,500	550	11,500	550
2.5MM	14,000	1,240	11,800	950	8,800	650	8,800	650
3.0MM	10,600	1,150	8,700	850	6,200	560	6,200	560
4.0MM	8,500	1,280	7,100	950	5,100	600	5,100	600
5.0MM	5,800	1,040	4,800	760	3,300	460	3,300	460
6.0MM	3,900	890	3,600	680	2,400	440	2,400	440
8.0MM	3,200	910	2,800	710	2,300	450	2,300	450
10.0MM	2,900	890	2,700	680	2,100	430	2,100	430
12.0MM	2,500	710	2,300	580	2,000	400	2,000	400

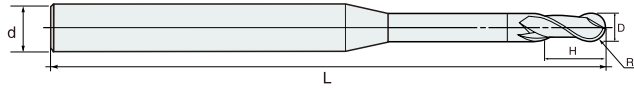


Please refer to 3xD table, reduce R.P.M. & Feed while efficient length is increasing.



# HEX 2 flutes long neck short flute ball nose end mills

二刃深溝球頭銼刀



UMG 0.5 μm CO10% HRC-65 AITINS

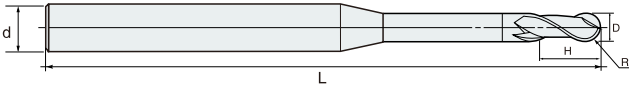


B180

Product Code 產品編號	Radius 半徑	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2FR01500301005004	0.15R	0.3	0.3	1	50	4	◎
HEX2FR01500302005004	0.15R	0.3	0.3	2	50	4	◎
HEX2FR01500303005004	0.15R	0.3	0.3	3	50	4	◎
HEX2FR02000401005004	0.20R	0.4	0.4	1	50	4	◎
HEX2FR02000402005004	0.20R	0.4	0.4	2	50	4	◎
HEX2FR02000403005004	0.20R	0.4	0.4	3	50	4	◎
HEX2FR02000404005004	0.20R	0.4	0.4	4	50	4	◎
HEX2FR02000405005004	0.20R	0.4	0.4	5	50	4	◎
HEX2FR02000406005004	0.20R	0.4	0.4	6	50	4	◎
HEX2FR02500408005004	0.20R	0.4	0.4	8	50	4	◎
HEX2FR02500501005004	0.25R	0.5	0.5	1	50	4	◎
HEX2FR02500502005004	0.25R	0.5	0.5	2	50	4	◎
HEX2FR02500503005004	0.25R	0.5	0.5	3	50	4	◎
HEX2FR02500504005004	0.25R	0.5	0.5	4	50	4	◎
HEX2FR02500505005004	0.25R	0.5	0.5	5	50	4	◎
HEX2FR02500506005004	0.25R	0.5	0.5	6	50	4	◎
HEX2FR02500508005004	0.25R	0.5	0.5	8	50	4	◎
HEX2FR03000510005004	0.25R	0.5	0.5	10	50	4	◎
HEX2FR03000601005004	0.30R	0.6	0.6	1	50	4	◎
HEX2FR03000602005004	0.30R	0.6	0.6	2	50	4	◎
HEX2FR03000603005004	0.30R	0.6	0.6	3	50	4	◎
HEX2FR03000604005004	0.30R	0.6	0.6	4	50	4	◎
HEX2FR03000605005004	0.30R	0.6	0.6	5	50	4	◎
HEX2FR03000606005004	0.30R	0.6	0.6	6	50	4	◎
HEX2FR03000608005004	0.30R	0.6	0.6	8	50	4	◎
HEX2FR03000610005004	0.30R	0.6	0.6	10	50	4	◎
HEX2FR03500612005004	0.30R	0.6	0.6	12	50	4	◎
HEX2FR03500702005004	0.35R	0.7	0.7	2	50	4	◎
HEX2FR03500704005004	0.35R	0.7	0.7	4	50	4	◎
HEX2FR03500708005004	0.35R	0.7	0.7	8	50	4	◎
HEX2FR03500710005004	0.35R	0.7	0.7	10	50	4	◎
HEX2FR04000712005004	0.35R	0.7	0.7	12	50	4	◎
HEX2FR04000802005004	0.40R	0.8	0.8	2	50	4	◎
HEX2FR04000804005004	0.40R	0.8	0.8	4	50	4	◎
HEX2FR04000806005004	0.40R	0.8	0.8	6	50	4	◎
HEX2FR04000808005004	0.40R	0.8	0.8	8	50	4	◎
HEX2FR04000810005004	0.40R	0.8	0.8	10	50	4	◎
HEX2FR04500812005004	0.40R	0.8	0.8	12	50	4	◎
HEX2FR05000904005004	0.45R	0.9	0.9	4	50	4	◎
HEX2FR05001002005004	0.50R	1.0	1.0	2	50	4	◎
HEX2FR05001003005004	0.50R	1.0	1.0	3	50	4	◎
HEX2FR05001004005004	0.50R	1.0	1.0	4	50	4	◎
HEX2FR05001005005004	0.50R	1.0	1.0	5	50	4	◎
HEX2FR05001006005004	0.50R	1.0	1.0	6	50	4	◎
HEX2FR05001008005004	0.50R	1.0	1.0	8	50	4	◎
HEX2FR05001010005004	0.50R	1.0	1.0	10	50	4	◎
HEX2FR05001012005004	0.50R	1.0	1.0	12	50	4	◎
HEX2FR05001014005004	0.50R	1.0	1.0	14	50	4	◎
HEX2FR05001016005004	0.50R	1.0	1.0	16	50	4	◎
HEX2FR05001018005004	0.50R	1.0	1.0	18	50	4	◎
HEX2FR05001020005004	0.50R	1.0	1.0	20	50	4	◎
HEX2FR05001022005004	0.50R	1.0	1.0	22	60	4	◎

# HEX 2 flutes long neck short flute ball nose end mills

二刃深溝球頭銼刀



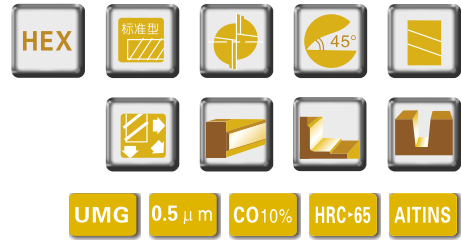
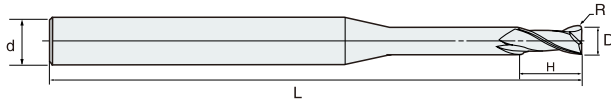
UMG 0.5 μm CO10% HRC-65 AITINS

B181

Product Code 產品編號	Radius 半徑	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2FR06012045004	0.60R	1.2	1.2	4	50	4	◎
HEX2FR06012065004	0.60R	1.2	1.2	6	50	4	◎
HEX2FR06012085004	0.60R	1.2	1.2	8	50	4	◎
HEX2FR06012105004	0.60R	1.2	1.2	10	50	4	◎
HEX2FR06012125004	0.60R	1.2	1.2	12	50	4	◎
HEX2FR06012165004	0.60R	1.2	1.2	16	50	4	◎
HEX2FR06012205004	0.60R	1.2	1.2	20	50	4	◎
HEX2FR06012245004	0.60R	1.2	1.2	24	50	4	◎
HEX2FR07014065004	0.70R	1.4	1.4	6	50	4	◎
HEX2FR07014085004	0.70R	1.4	1.4	8	50	4	◎
HEX2FR07014125004	0.70R	1.4	1.4	12	50	4	◎
HEX2FR07014165004	0.70R	1.4	1.4	16	50	4	◎
HEX2FR07515035004	0.75R	1.5	1.5	3	50	4	◎
HEX2FR07515045004	0.75R	1.5	1.5	4	50	4	◎
HEX2FR07515065004	0.75R	1.5	1.5	6	50	4	◎
HEX2FR07515085004	0.75R	1.5	1.5	8	50	4	◎
HEX2FR07515105004	0.75R	1.5	1.5	10	50	4	◎
HEX2FR07515125004	0.75R	1.5	1.5	12	50	4	◎
HEX2FR07515145004	0.75R	1.5	1.5	14	50	4	◎
HEX2FR07515165004	0.75R	1.5	1.5	16	50	4	◎
HEX2FR07515185004	0.75R	1.5	1.5	18	50	4	◎
HEX2FR07515205004	0.75R	1.5	1.5	20	50	4	◎
HEX2FR07515225004	0.75R	1.5	1.5	22	50	4	◎
HEX2FR07515255004	0.75R	1.5	1.5	25	50	4	◎
HEX2FR07515305004	0.75R	1.5	1.5	30	50	4	◎
HEX2FR08016065004	0.80R	1.6	1.6	6	50	4	◎
HEX2FR08016085004	0.80R	1.6	1.6	8	50	4	◎
HEX2FR08016125004	0.80R	1.6	1.6	12	50	4	◎
HEX2FR08016165004	0.80R	1.6	1.6	16	50	4	◎
HEX2FR08016205004	0.80R	1.6	1.6	20	50	4	◎
HEX2FR09018065004	0.90R	1.8	1.8	6	50	4	◎
HEX2FR09018085004	0.90R	1.8	1.8	8	50	4	◎
HEX2FR09018125004	0.90R	1.8	1.8	12	50	4	◎
HEX2FR09018165004	0.90R	1.8	1.8	16	50	4	◎
HEX2FR09018205004	0.90R	1.8	1.8	20	50	4	◎
HEX2FR10020045004	1.00R	2.0	2.0	4	50	4	◎
HEX2FR10020065004	1.00R	2.0	2.0	6	50	4	◎
HEX2FR10020085004	1.00R	2.0	2.0	8	50	4	◎
HEX2FR10020105004	1.00R	2.0	2.0	10	50	4	◎
HEX2FR10020125004	1.00R	2.0	2.0	12	50	4	◎
HEX2FR10020145004	1.00R	2.0	2.0	14	50	4	◎
HEX2FR10020165004	1.00R	2.0	2.0	16	50	4	◎
HEX2FR10020185004	1.00R	2.0	2.0	18	50	4	◎
HEX2FR10020205004	1.00R	2.0	2.0	20	50	4	◎
HEX2FR10020225004	1.00R	2.0	2.0	22	50	4	◎
HEX2FR10020255004	1.00R	2.0	2.0	25	50	4	◎
HEX2FR12525085004	1.25R	2.5	2.5	8	50	4	◎
HEX2FR12525105004	1.25R	2.5	2.5	10	50	4	◎
HEX2FR12525165004	1.25R	2.5	2.5	16	50	4	◎
HEX2FR12525205004	1.25R	2.5	2.5	20	50	4	◎
HEX2FR12525255004	1.25R	2.5	2.5	25	50	4	◎
HEX2FR12525305004	1.25R	2.5	2.5	30	60	4	◎

# HEX 2 flutes long neck short flute corner radius end mills

二刃深溝圓鼻銼刀

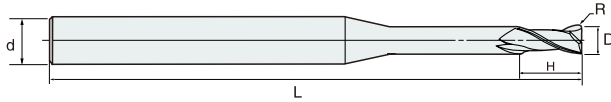


B182

Product Code 產品編號	Blade diameter 刃徑	Corner radius R角	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX010R0010100405004	1.0	0.1R	1.0	4	50	4	◎
HEX010R0010100605004	1.0	0.1R	1.0	6	50	4	◎
HEX010R0010100805004	1.0	0.1R	1.0	8	50	4	◎
HEX010R0010101005004	1.0	0.1R	1.0	10	50	4	◎
HEX010R0010101205004	1.0	0.1R	1.0	12	50	4	◎
HEX010R0020100405004	1.0	0.2R	1.0	4	50	4	◎
HEX010R0020100605004	1.0	0.2R	1.0	6	50	4	◎
HEX010R0020100805004	1.0	0.2R	1.0	8	50	4	◎
HEX010R0020101005004	1.0	0.2R	1.0	10	50	4	◎
HEX010R0020101205004	1.0	0.2R	1.0	12	50	4	◎
HEX010R0030100405004	1.0	0.3R	1.0	4	50	4	◎
HEX010R0030100605004	1.0	0.3R	1.0	6	50	4	◎
HEX010R0030100805004	1.0	0.3R	1.0	8	50	4	◎
HEX010R0030101005004	1.0	0.3R	1.0	10	50	4	◎
HEX010R0030101205004	1.0	0.3R	1.0	12	50	4	◎
HEX012R0010120405004	1.2	0.1R	1.2	4	50	4	◎
HEX012R0010120605004	1.2	0.1R	1.2	6	50	4	◎
HEX012R0010120805004	1.2	0.1R	1.2	8	50	4	◎
HEX012R0010121005004	1.2	0.1R	1.2	10	50	4	◎
HEX012R0010121205004	1.2	0.1R	1.2	12	50	4	◎
HEX012R0020120405004	1.2	0.2R	1.2	4	50	4	◎
HEX012R0020120605004	1.2	0.2R	1.2	6	50	4	◎
HEX012R0020120805004	1.2	0.2R	1.2	8	50	4	◎
HEX012R0020121005004	1.2	0.2R	1.2	10	50	4	◎
HEX012R0020121205004	1.2	0.2R	1.2	12	50	4	◎
HEX012R0030120405004	1.2	0.3R	1.2	4	50	4	◎
HEX012R0030120605004	1.2	0.3R	1.2	6	50	4	◎
HEX012R0030120805004	1.2	0.3R	1.2	8	50	4	◎
HEX012R0030121005004	1.2	0.3R	1.2	10	50	4	◎
HEX012R0030121205004	1.2	0.3R	1.2	12	50	4	◎
HEX015R0010150605004	1.5	0.1R	1.5	6	50	4	◎
HEX015R0010150805004	1.5	0.1R	1.5	8	50	4	◎
HEX015R0010151005004	1.5	0.1R	1.5	10	50	4	◎
HEX015R0010151205004	1.5	0.1R	1.5	12	50	4	◎
HEX015R0010151605004	1.5	0.1R	1.5	16	50	4	◎
HEX015R0020150605004	1.5	0.2R	1.5	6	50	4	◎
HEX015R0020150805004	1.5	0.2R	1.5	8	50	4	◎
HEX015R0020151005004	1.5	0.2R	1.5	10	50	4	◎
HEX015R0020151205004	1.5	0.2R	1.5	12	50	4	◎
HEX015R0020151605004	1.5	0.2R	1.5	16	50	4	◎
HEX015R0030150605004	1.5	0.3R	1.5	6	50	4	◎
HEX015R0030150805004	1.5	0.3R	1.5	8	50	4	◎
HEX015R0030151005004	1.5	0.3R	1.5	10	50	4	◎
HEX015R0030151205004	1.5	0.3R	1.5	12	50	4	◎
HEX015R0030151605004	1.5	0.3R	1.5	16	50	4	◎
HEX015R0050150605004	1.5	0.5R	1.5	6	50	4	◎
HEX015R0050150805004	1.5	0.5R	1.5	8	50	4	◎
HEX015R0050151005004	1.5	0.5R	1.5	10	50	4	◎
HEX015R0050151205004	1.5	0.5R	1.5	12	50	4	◎
HEX015R0050151605004	1.5	0.5R	1.5	16	50	4	◎
HEX020R0010200605004	2.0	0.1R	2.0	6	50	4	◎
HEX020R0010200805004	2.0	0.1R	2.0	8	50	4	◎
HEX020R0010201005004	2.0	0.1R	2.0	10	50	4	◎
HEX020R0010201205004	2.0	0.1R	2.0	12	50	4	◎
HEX020R0010201605004	2.0	0.1R	2.0	16	50	4	◎
HEX020R0010202005004	2.0	0.1R	2.0	20	50	4	◎
HEX020R0010202505004	2.0	0.1R	2.0	25	60	4	◎

# HEX 2 flutes long neck short flute corner radius end mills

二刃深溝圓鼻銼刀



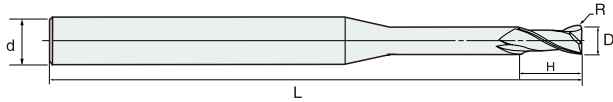
UMG 0.5 μm CO10% HRC-65 AITINS

B183

Product Code 產品編號	Blade diameter 刃徑	Corner radius R角	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX20R02065004	2.0	0.2R	2.0	6	50	4	◎
HEX20R02085004	2.0	0.2R	2.0	8	50	4	◎
HEX20R02105004	2.0	0.2R	2.0	10	50	4	◎
HEX20R02125004	2.0	0.2R	2.0	12	50	4	◎
HEX20R02165004	2.0	0.2R	2.0	16	50	4	◎
HEX20R02205004	2.0	0.2R	2.0	20	50	4	◎
HEX20R02256004	2.0	0.2R	2.0	25	60	4	◎
HEX20R03065004	2.0	0.3R	2.0	6	50	4	◎
HEX20R03085004	2.0	0.3R	2.0	8	50	4	◎
HEX20R03105004	2.0	0.3R	2.0	10	50	4	◎
HEX20R03125004	2.0	0.3R	2.0	12	50	4	◎
HEX20R03165004	2.0	0.3R	2.0	16	50	4	◎
HEX20R03205004	2.0	0.3R	2.0	20	50	4	◎
HEX20R03256004	2.0	0.3R	2.0	25	60	4	◎
HEX20R05065004	2.0	0.5R	2.0	6	50	4	◎
HEX20R05085004	2.0	0.5R	2.0	8	50	4	◎
HEX20R05105004	2.0	0.5R	2.0	10	50	4	◎
HEX20R05125004	2.0	0.5R	2.0	12	50	4	◎
HEX20R05165004	2.0	0.5R	2.0	16	50	4	◎
HEX20R05205004	2.0	0.5R	2.0	20	50	4	◎
HEX20R05256004	2.0	0.5R	2.0	25	60	4	◎
HEX25R01105004	2.5	0.1R	2.5	10	50	4	◎
HEX25R01165004	2.5	0.1R	2.5	16	50	4	◎
HEX25R01205004	2.5	0.1R	2.5	20	50	4	◎
HEX25R01256004	2.5	0.1R	2.5	25	60	4	◎
HEX25R02105004	2.5	0.2R	2.5	10	50	4	◎
HEX25R02165004	2.5	0.2R	2.5	16	50	4	◎
HEX25R02205004	2.5	0.2R	2.5	20	50	4	◎
HEX25R02256004	2.5	0.2R	2.5	25	60	4	◎
HEX25R03105004	2.5	0.3R	2.5	10	50	4	◎
HEX25R03165004	2.5	0.3R	2.5	16	50	4	◎
HEX25R03205004	2.5	0.3R	2.5	20	50	4	◎
HEX25R03256004	2.5	0.3R	2.5	25	60	4	◎
HEX25R05105004	2.5	0.5R	2.5	10	50	4	◎
HEX25R05165004	2.5	0.5R	2.5	16	50	4	◎
HEX25R05205004	2.5	0.5R	2.5	20	50	4	◎
HEX25R05255004	2.5	0.5R	2.5	25	60	4	◎
HEX30R01105006	3.0	0.1R	3.0	10	50	6	◎
HEX30R01166006	3.0	0.1R	3.0	16	60	6	◎
HEX30R01206006	3.0	0.1R	3.0	20	60	6	◎
HEX30R01256006	3.0	0.1R	3.0	25	60	6	◎
HEX30R01307506	3.0	0.1R	3.0	30	75	6	◎
HEX30R01357506	3.0	0.1R	3.0	35	75	6	◎
HEX30R02105006	3.0	0.2R	3.0	10	50	6	◎
HEX30R02166006	3.0	0.2R	3.0	16	60	6	◎
HEX30R02206006	3.0	0.2R	3.0	20	60	6	◎
HEX30R02256006	3.0	0.2R	3.0	25	60	6	◎
HEX30R02307506	3.0	0.2R	3.0	30	75	6	◎
HEX30R02357506	3.0	0.2R	3.0	35	75	6	◎
HEX30R03105006	3.0	0.3R	3.0	10	50	6	◎
HEX30R03166006	3.0	0.3R	3.0	16	60	6	◎
HEX30R03206006	3.0	0.3R	3.0	20	60	6	◎
HEX30R03256006	3.0	0.3R	3.0	25	60	6	◎
HEX30R03307506	3.0	0.3R	3.0	30	75	6	◎
HEX30R03357506	3.0	0.3R	3.0	35	75	6	◎

# HEX 2 flutes long neck short flute corner radius end mills

二刃深溝圓鼻銼刀

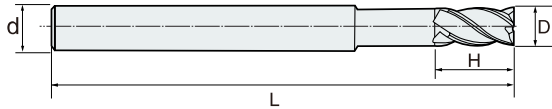


B184

Product Code 產品編號	Blade diameter 刃徑	Corner radius R角	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX30R05105006	3.0	0.5R	3.0	10	50	6	◎
HEX30R05166006	3.0	0.5R	3.0	16	60	6	◎
HEX30R05206006	3.0	0.5R	3.0	20	60	6	◎
HEX30R05256006	3.0	0.5R	3.0	25	60	6	◎
HEX30R05307506	3.0	0.5R	3.0	30	75	6	◎
HEX30R05357506	3.0	0.5R	3.0	35	75	6	◎
HEX30R10105006	3.0	1.0R	3.0	10	50	6	◎
HEX30R10166006	3.0	1.0R	3.0	16	60	6	◎
HEX30R10206006	3.0	1.0R	3.0	20	60	6	◎
HEX30R10256006	3.0	1.0R	3.0	25	60	6	◎
HEX30R10307506	3.0	1.0R	3.0	30	75	6	◎
HEX30R10357506	3.0	1.0R	3.0	35	75	6	◎
HEX40R01135006	4.0	0.1R	4.0	13	50	6	◎
HEX40R01166006	4.0	0.1R	4.0	16	60	6	◎
HEX40R01206006	4.0	0.1R	4.0	20	60	6	◎
HEX40R01256006	4.0	0.1R	4.0	25	60	6	◎
HEX40R01307506	4.0	0.1R	4.0	30	75	6	◎
HEX40R01357506	4.0	0.1R	4.0	35	75	6	◎
HEX40R02135006	4.0	0.2R	4.0	13	50	6	◎
HEX40R02166006	4.0	0.2R	4.0	16	60	6	◎
HEX40R02206006	4.0	0.2R	4.0	20	60	6	◎
HEX40R02256006	4.0	0.2R	4.0	25	60	6	◎
HEX40R02307506	4.0	0.2R	4.0	30	75	6	◎
HEX40R02357506	4.0	0.2R	4.0	35	75	6	◎
HEX40R03135006	4.0	0.3R	4.0	13	50	6	◎
HEX40R03166006	4.0	0.3R	4.0	16	60	6	◎
HEX40R03206006	4.0	0.3R	4.0	20	60	6	◎
HEX40R03256006	4.0	0.3R	4.0	25	60	6	◎
HEX40R03307506	4.0	0.3R	4.0	30	75	6	◎
HEX40R03357506	4.0	0.3R	4.0	35	75	6	◎
HEX40R05135006	4.0	0.5R	4.0	13	50	6	◎
HEX40R05166006	4.0	0.5R	4.0	16	60	6	◎
HEX40R05206006	4.0	0.5R	4.0	20	60	6	◎
HEX40R05256006	4.0	0.5R	4.0	25	60	6	◎
HEX40R05307506	4.0	0.5R	4.0	30	75	6	◎
HEX40R05357506	4.0	0.5R	4.0	35	75	6	◎
HEX40R10135006	4.0	1.0R	4.0	13	50	6	◎
HEX40R10166006	4.0	1.0R	4.0	16	60	6	◎
HEX40R10206006	4.0	1.0R	4.0	20	60	6	◎
HEX40R10256006	4.0	1.0R	4.0	25	60	6	◎
HEX40R10307506	4.0	1.0R	4.0	30	75	6	◎
HEX40R10357506	4.0	1.0R	4.0	35	75	6	◎
HEX50R01166006	5.0	0.1R	5.0	16	60	6	◎
HEX50R01306006	5.0	0.1R	5.0	30	60	6	◎
HEX50R02166006	5.0	0.2R	5.0	16	60	6	◎
HEX50R02306006	5.0	0.2R	5.0	30	60	6	◎
HEX50R03166006	5.0	0.3R	5.0	16	60	6	◎
HEX50R03306006	5.0	0.3R	5.0	30	60	6	◎
HEX50R05166006	5.0	0.5R	5.0	16	60	6	◎
HEX50R05306006	5.0	0.5R	5.0	30	60	6	◎
HEX50R10166006	5.0	1.0R	5.0	16	60	6	◎
HEX50R10306006	5.0	1.0R	5.0	30	60	6	◎

# HEX 4 flutes high strength flat end mills

四刃強力平底銑刀



UMG 0.5 μm CO10% HRC-65 AITINS

B185

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F01001502505004	1.0	1.5	2.5	50	4	◎
HEX4F02003005005004	2.0	3.0	5.0	50	4	◎
HEX4F03004507505006	3.0	4.5	7.5	50	6	◎
HEX4F04006010005006	4.0	6.0	10.0	50	6	◎
HEX4F05007512505006	5.0	7.5	12.5	50	6	◎
HEX4F06009015005006	6.0	9.0	15.0	50	6	◎
HEX4F08012020006008	8.0	12.0	20.0	60	8	◎
HEX4F10015025075010	10.0	15.0	25.0	75	10	◎
HEX4F12018030075012	12.0	18.0	30.0	75	12	◎
HEX4F16024040100016	16.0	24.0	40.0	100	16	◎
HEX4F20030050100020	20.0	30.0	50.0	100	20	◎

Product Code 產品編號	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F1/8-B	1/8	5/32	1/2	2-1/2	1/4	◎
HEX4F3/16-B	3/16	7/32	3/4	2-1/2	1/4	◎
HEX4F1/4-B	1/4	9/32	3/4	2-1/2	1/4	◎
HEX4F5/16-B	5/16	13/32	1	2-1/2	5/16	◎
HEX4F3/8-B	3/8	15/32	1	2-1/2	3/8	◎
HEX4F1/2-B	1/2	5/8	1-1/4	3	1/2	◎
HEX4F5/8-B	5/8	3/4	1-1/2	3-1/2	5/8	◎
HEX4F3/4-B	3/4	15/16	1-3/4	4	3/4	◎

## ★ WORK MATERIAL 被削材質

HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

Working material 被切材質	Hardened steel 淬火鋼	Hardened steel 淬火鋼	Hardened steel 淬火鋼
Material code 材質編碼	SKT,SKD	SKT,SKD	SKT,SKD
Hardness grade 硬度等級	HRC 55	HRC 60	HRC 65
Vc	160M/min	150M/min	99M/min

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差
Φ ≤ 12.0	0~-0.02
Φ > 12.0	0~-0.03

Diameter 直徑	R.P.M		Feed (mm/mm)		R.P.M		Feed (mm/mm)	
	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)
6MM	8,500	2,450	7,950	2,000	5,300	1,210		
8MM	6,350	2,440	5,950	1,995	4,000	1,215		
10MM	5,100	2,450	4,700	1,970	3,200	1,215		
12MM	4,250	2,450	3,950	1,985	2,650	1,210		
14MM	3,600	2,420	3,400	1,995	2,250	1,200		
16MM	3,150	2,420	3,000	2,000	1,950	1,285		
18MM	2,800	2,420	2,650	2,000	1,750	1,200		
20MM	2,500	2,400	2,350	1,970	1,550	1,180		
25MM	2,000	2,400	1,900	1,990	1,250	1,190		



Milling amount  
(mm)

ap	ae
1.0D	0.02D
aeMax=0.2mm以下	

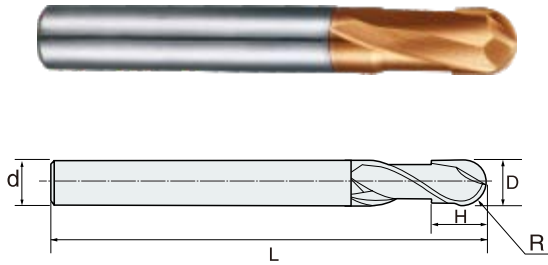
ap	ae
1.0D	0.01D
aeMax=0.2mm以下	

ap	ae
1.0D	0.01D
aeMax=0.2mm以下	

The feed & RPM may be changed depending on the M/C Conditions, Lubricating & Cooling systems.

# HEX 4 flutes high strength ball nose end mills

二刃強力球頭銼刀



UMG 0.5 μm CO10% HRC-65 AITINS

B186

Product Code 產品編號	Radius 半徑	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX2FR0050100100205004	0.50R	1.0	1.0	2	50	4	◎
HEX2FR0075150150305004	0.75R	1.5	1.5	3	50	4	◎
HEX2FR0100200200405006	1.00R	2.0	2.0	4	50	6	◎
HEX2FR0150300300605006	1.50R	3.0	3.0	6	50	6	◎
HEX2FR0200400400805006	2.00R	4.0	4.0	8	50	6	◎
HEX2FR0250500501005006	2.50R	5.0	5.0	10	50	6	◎
HEX2FR0300600601205006	3.00R	6.0	6.0	12	50	6	◎
HEX2FR0400800801606008	4.00R	8.0	8.0	16	60	8	◎
HEX2FR0501001002007510	5.00R	10.0	10.0	20	75	10	◎
HEX2FR0601201202407512	6.00R	12.0	12.0	24	75	12	◎
HEX2FR0801601603210016	8.00R	16.0	16.0	32	100	16	◎

## ★ WORK MATERIAL 被削材質

HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

Working material 被切材質	Hardened steel 淬火鋼	Hardened steel 淬火鋼	Hardened steel 淬火鋼
Material code 材質編碼	SKT,SKD	SKT,SKD	SKT,SKD
Hardness grade 硬度等級	HRC 55	HRC 60	HRC 65
Vc	190M/min	175M/min	95M/min

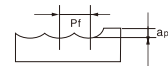
## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差
$\Phi \leq 12.0$	$R \pm 0.01$
$\Phi > 12.0$	$R \pm 0.015$

Diameter 直徑	R.P.M		Feed (mm/mm)		R.P.M		Feed (mm/mm)	
	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)
0.5R	32,000	960	30,000	850	25,500	500		
1.0R	31,500	1,900	28,500	1,880	15,500	600		
1.5R	21,000	2,080	19,000	1,880	10,500	625		
2.0R	15,500	2,050	14,000	1,850	7,950	630		
2.5R	12,500	2,060	11,000	1,815	6,350	630		
3.0R	10,500	2,080	9,500	1,880	5,300	630		
4.0R	7,950	1,550	7,150	1,400	3,950	470		
5.0R	6,350	1,250	5,700	1,100	3,150	375		
6.0R	5,300	1,050	4,750	950	2,650	315		
8.0R	3,950	790	3,550	710	1,950	230		

Milling amount  
(mm)

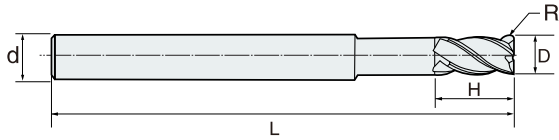
	$a_p$	$P_f$
$R \leq 8$	0.02D	0.1D
$R > 8$	0.32mm	0.1D



The feed & RPM may be changed depending on the M/C Conditions, Lubricating & Cooling systems.

# HEX 4 flutes high strength corner radius end mills

四刃強力圓鼻銼刀



B187

Product Code 產品編號	Radius 半徑	Blade diameter 刃徑	Blade length 刃長	Effective length 有效長	Full 全長	Shank 柄徑	Inventory 庫存
HEX4F030R01003005006	0.1R	3	3	7.5	50	6	◎
HEX4F030R05003005006	0.5R	3	3	7.5	50	6	◎
HEX4F040R02004005006	0.2R	4	4	10.0	50	6	◎
HEX4F040R05004005006	0.5R	4	4	10.0	50	6	◎
HEX4F050R02005005006	0.2R	5	5	12.5	50	6	◎
HEX4F050R05005005006	0.5R	5	5	12.5	50	6	◎
HEX4F060R02006005006	0.2R	6	6	15.0	50	6	◎
HEX4F060R05006005006	0.5R	6	6	15.0	50	6	◎
HEX4F060R10006005006	1.0R	6	6	15.0	50	6	◎
HEX4F080R03008006008	0.3R	8	8	20.0	60	8	◎
HEX4F080R05008006008	0.5R	8	8	20.0	60	8	◎
HEX4F080R10008006008	1.0R	8	8	20.0	60	8	◎
HEX4F080R15008006008	1.5R	8	8	20.0	60	8	◎
HEX4F100R03010007510	0.3R	10	10	25.0	75	10	◎
HEX4F100R05010007510	0.5R	10	10	25.0	75	10	◎
HEX4F100R10010007510	1.0R	10	10	25.0	75	10	◎
HEX4F100R15010007510	1.5R	10	10	25.0	75	10	◎
HEX4F100R20010007510	2.0R	10	10	25.0	75	10	◎
HEX4F120R03012007512	0.3R	12	12	30.0	75	12	◎
HEX4F120R05012007512	0.5R	12	12	30.0	75	12	◎
HEX4F120R10012007512	1.0R	12	12	30.0	75	12	◎
HEX4F120R15012007512	1.5R	12	12	30.0	75	12	◎
HEX4F120R20012007512	2.0R	12	12	30.0	75	12	◎

## ★ WORK MATERAIL 被削材質

HEX			
P20 S45C 碳素鋼	SCM SK 合金鋼	SKT SKD 加硬模具鋼	S316 加硬不銹鋼
●	●	●	●

Working material 被削材質	Hardened steel 淬火鋼	Hardened steel 淬火鋼	Hardened steel 淬火鋼
Material code 材質編碼	SKT,SKD	SKT,SKD	SKT,SKD
Hardness grade 硬度等級	HRC 35~45	HRC 45~55	HRC 55~60
Vc	110M/min	95M/min	79M/min

## ★ TOLERANCES 公差

Blade diameter 刃部直徑	Blade diameter tolerance 刃部直徑公差
$\Phi \leq 12.0$	0~-0.02
$\Phi > 12.0$	0~-0.03

R	R diameter tolerance
R	$R \pm 0.015$

Diameter 直徑	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)	R.P.M	Feed (mm/mm)
3MM	1,180	1,150	10,000	830	8,400	500
4MM	8,800	1,070	7,600	780	6,300	460
5MM	7,000	990	6,000	730	5,000	420
6MM	5,900	910	5,000	660	4,200	400
8MM	4,400	830	3,800	610	3,200	400
10MM	3,500	830	3,000	610	2,550	400
12MM	2,900	830	2,500	610	2,100	400

Milling amount  
(mm)

	$a_a$	$a_r$
$D < \Phi 6$	0.9D	0.01D
$\Phi 6 \leq D$	0.9D	0.02D



The feed & RPM may be changed depending on the M/C Conditions, Lubricating & Cooling systems.