

Standard



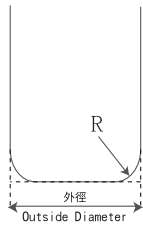
K-RVM 鎢鋼 2 刃 圓鼻刀

Standard, 2 Flute Corner Radius End Mills

2 Flute 2 刃

4 Flute 4 刃

3&6 Flute 3&6 刃



採用超微粒子合金
Super fine grain alloy is used for the carbide material .



NANO處理
TiCN coating process is used .



R角公差 ± 0.02
Carbide Radius Tolerance ± 0.02 .



R角
Corner edge radius



30° 螺旋角
Helix Angle is 30°



加工材料對照表 (◎最佳○可) Applicable Work Material (◎ Most suitable ○ suitable)

被削材 Work Material										
碳素鋼	合金鋼	工具鋼	高溫合金鋼			鑄鐵	鋁合金	石墨	銅合金	塑膠
CARBON STEELS	ALLOY STEELS	PREHARDENED STEELS	HARDENED STEELS			CAST IRON STEELS	ALUMINIUM ALLOYS	GRAPHITE	COPPER ALLOYS	PLASTIC
S45C S55C	SK-SCM SUS	(30-45HRC) NAK	(~55HRC)	(~60HRC)	(60~65HRC)					
◎	◎	◎	◎	◎	○	○			○	

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	角半徑 Comer Radius	刃長 Length of Cut	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)
K-RVM 2010-02	1	R0.2	2	45	4	920
K-RVM 2010-03		R0.3				
K-RVM 2015-02	1.5	R0.2	3	45	4	
K-RVM 2015-03		R0.3				
K-RVM 2015-05		R0.5				
K-RVM 2020-02	2	R0.2	4	45	4	
K-RVM 2020-03		R0.3				
K-RVM 2020-05		R0.5				
K-RVM 2025-02	2.5	R0.2	5	45	4	
K-RVM 2025-03		R0.3				
K-RVM 2025-05		R0.5				
K-RVM 2030-02	3	R0.2	10	45	4	
K-RVM 2030-03		R0.3				
K-RVM 2030-05		R0.5				
K-RVM 2030-10		R1				

- Square 方型
- Ball 球型
- Corner Radius 角半徑
- Taper 錐型
- Other 特殊刀具

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	角半徑 Comer Radius	刃長 Length of Cut	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)
K-RVM 2040-02	4	R0.2	12	45	6	920
K-RVM 2040-03		R0.3				
K-RVM 2040-05		R0.5				
K-RVM 2040-10		R1				
K-RVM 2050-02	5	R0.2	15	50	6	1,150
K-RVM 2050-03		R0.3				
K-RVM 2050-05		R0.5				
K-RVM 2050-10		R1				
K-RVM 2060-02	6	R0.2	15	50	6	1,150
K-RVM 2060-03		R0.3				
K-RVM 2060-05		R0.5				
K-RVM 2060-10		R1				
K-RVM 2060-15		R1.5				
K-RVM 2060-20		R2				
K-RVM 2080-05	8	R0.5	20	60	8	1,800
K-RVM 2080-10		R1				
K-RVM 2080-15		R1.5				
K-RVM 2080-20		R2				
K-RVM 2080-25		R2.5				
K-RVM 2100-05	10	R0.5	25	75	10	2,250
K-RVM 2100-10		R1				
K-RVM 2100-15		R1.5				
K-RVM 2100-20		R2				
K-RVM 2100-25		R2.5				
K-RVM 2100-30		R3				
K-RVM 2120-05	12	R0.5	25	75	12	2,800
K-RVM 2120-10		R1				
K-RVM 2120-15		R1.5				
K-RVM 2120-20		R2				
K-RVM 2120-25		R2.5				
K-RVM 2120-30		R3				
K-RVM 2160-10	16	R1	32	100	16	6,500
K-RVM 2160-20		R2				
K-RVM 2160-30		R3				



Standard

2刃

2 Flute

4刃

4 Flute

3&6刃

3&6 Flute

Square

方型

Ball

球型

Corner Radius

角半徑

Taper

錐型

Other

特殊
刀具

Standard



2 Flute

2刃

4 Flute

4刃

3&6 Flute

3&6刃

K-RVM 切削條件說明表 List of milling for K-RVM

加工材料 WORK MATERIAL		碳素鋼 CARBON STEELS S45C.S50C (~255 HB)		合金鋼 ALLOY STEELS SK.SCM.SUS (225~325 HRC)		工具鋼 PRE-HARDENED STEELS HARDENED STEELS HARDENED STEELS (30~45 HRC)		高溫合金鋼/熱處理鋼 HARDENED STEELS SKD11.61SKT (45~50 HRC)	
切削速度 Velocity		V = 40~60m/min		V = 30~40m/min		V = 25~30m/min		V = 15~25m/min	
型號 Model Number	外徑 Outside Diameter (m/m)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)
2010	1	16,000	340	12,700	120	9,550	65	5,580	32
2020	2	8,000	200	6,400	120	4,800	65	2,790	31
2025	2.5	6,300	200	5,100	120	3,800	55	2,250	31
2030	3	5,000	200	4,200	120	3,180	55	2,120	33
2040	4	4,000	240	3,200	150	2,390	5565	1,590	39
2050	5	3,200	240	2,550	150	1,910	65	1,270	39
2060	6	2,650	240	2,120	150	1,590	65	1,060	39
2080	8	2,000	240	1,600	150	1,190	70	800	39
2100	10	1,600	240	1,270	150	950	70	640	39
2120	12	1,330	240	1,060	150	800	70	530	39
2160	16	1,000	220	800	130	600	60	400	36
2180	18	900	190	700	120	530	60	350	33
2200	20	800	190	640	110	480	55	320	31
2250	25	650	170	510	100	380	50	250	25

溝切削

切削量 (mm) Milling Amount for Slotting

45HRC以下 Less than 45HRC

$D < 03$ $Ad = 0.25D$

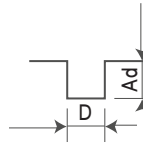
$D \geq 03$ $Ad = 0.5D$

45HRC以上 More than 45HRC

$Ad = 0.05D$

D:外徑 (mm) Outside Diameter

Ad:軸方向切削量 (mm) Milling Amount



Square

方型

Ball

球型

Corner Radius

角半徑

Taper

錐型

Other

特殊
刀具



Standard

2刃

2 Flute

4刃

4 Flute

3&6刃

3&6 Flute

Square

方型

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Corner Radius

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錐型

Other

特殊
刀具

Standard



2 Flute

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4 Flute

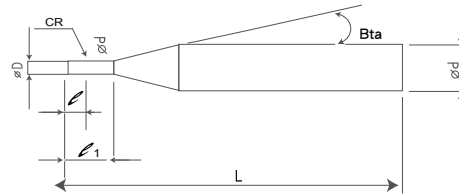
4刃

3&6 Flute

3&6刃

K-RVMT 鎢鋼深溝2刃圓鼻刀

2 Flute Long Neck Corner Radius End Mills



採用超微粒子合金
Super fine grain alloy is used for the carbide material .



高鋁鈦處理
TiAlN coating is used .



R角公差 ± 0.02
Carbide Radius Tolerance ± 0.02 .



R角
Corner edge radius



30° 螺旋角
Helix Angle is 30°



加工材料對照表(◎最佳 ○可)Applicable Work Material(◎ Most suitable ○ suitable)

被削材 Work Material										
碳素鋼 CARBON STEELS S45C S55C	合金鋼 ALLOY STEELS SK-SCM SUS	工具鋼 PREHARDENED STEELS (30-45HRC)NAK	高溫合金鋼 HARDENED STEELS			鑄鐵 CASTIRON STEELS	鋁合金 ALUMINIUM ALLOYS	石墨 GRAPHITE	銅合金 COPPER ALLOYS	塑膠 PLASTIC
			(~55HRC)	(~60HRC)	(60~65HRC)					
◎	◎	◎	◎	○				○		

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	角半徑 Comer Radius	有效長 Effective Length	刃長 Length of Cut	首徑 Neck Diameter	單角 Shank Taper Angle	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)	
	$\varnothing D$	CR	l_1	l	$\varnothing d$	Bta	L	$\varnothing d$		
K-RVMT 2010-01-020	1	RO.1	2	1	0.93	15°	50	4	1,700	
K-RVMT 2010-01-050			5							
K-RVMT 2020-01-040	2	RO.1	4	2	1.9	17.5°	50	4		
K-RVMT 2020-01-100			10							
K-RVMT 2020-03-040			RO.3							4
K-RVMT 2020-03-100										10
K-RVMT 2030-03-060	3	RO.1	6	3	2.9	12°	50	4		
K-RVMT 2030-01-150			15							
K-RVMT 2030-03-060			6							
K-RVMT 2030-03-150		RO.3	6							
			15							

- Square 方型
- Ball 球型
- Corner Radius 角半徑
- Taper 錐型
- Other 特殊刀具

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	角半徑 Comer Radius	有效長 Effective Length	刃長 Length of Cut	首徑 Neck Diameter	單角 Shank Taper Angle	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)
	øD	CR	ℓ1	ℓ	ød	Bta	L	ød	
K-RVMT 2040-01080	4	RO.1	8	4	3.8	12°	50	4	1,700
K-RVMT 2040-01-200			20				60		2,200
K-RVMT 2040-03-080		RO.3	8				50		1,700
K-RVMT 2040-03-200			20				60		2,200
K-RVMT 2040-03-200		RO.5	8				50		1,700
K-RVMT 2040-03-200			20				60		2,200
K-RVMT 2060-01-120	6	RO.1	12	6	5.8	—	50	6	1,900
K-RVMT 2060-01-300			30			—	70		2,400
K-RVMT 2060-03-120		RO.3	12			—	50		1,900
K-RVMT 2060-03-300			30			—	70		2,400
K-RVMT 2060-05-120		RO.5	12			—	50		1,900
K-RVMT 2060-05-300			30			—	70		2,400



Standard

2刃

2 Flute

4刃

4 Flute

3&6刃

3&6 Flute

Square

方型

Ball

球型

Corner Radius

角半徑

Taper

錐型

Other

特殊
刀具

Standard

2 Flute

4 Flute

3&6 Flute

2刃

4刃

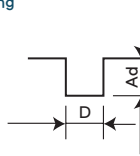
3&6刃

K-RVMT 切削條件說明表 List of milling for K-RVMT

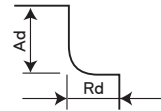
加工材料 WORK MATERIAL		碳素鋼 CARBON STEELLS S45C.S50C (~255 HB)		合金鋼 ALLOY STEELLS SK.SCM.SUS (225~325 HRC)		工具鋼 PREHARDENED STEELLS HARDENED STEELLS HARDENED STEELLS NAK.SKD (30~45 HRC)		高溫合金鋼/熱處理鋼 HARDENED STEELLS SKD11.61SKT (45~60 HRC)	
切削速度 Velocity		V=60m/min前後 Around V=60m/min		V=50m/min前後 Around V=50m/min		V=40m/min前後 Around V=40m/min		V=30m/min前後 Around V=30m/min	
型號 Model Number	外徑 Outside Diameter (m/m)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)
2010	1	19100	360	15900	280	12700	220	9500	170
2020	2	9600	230	8000	220	6400	190	4800	120
2030	3	6400	230	5300	220	4200	200	3200	130
2040	4	4800	330	4000	300	3200	280	2400	150
2060	6	3200	330	2700	300	2100	280	1600	150

溝切削

切削量 (mm) Milling Amount for Slotting
Ad=0.05D以下 Less than 0.05D
D:外徑 (mm) Outside Diameter



切削量 (mm) Milling Amount for Slotting
Ad=1D以下 Less than 1D
RD=0.025D
D:外徑 (mm) Outside Diameter



高速加工的條件 For Hig-Speed Milling

加工材料 WORK MATERIAL		碳素鋼 合金鋼 CARBON STEELLS ALLOY STEELLS S45C.S50C.SK.SCM(~325 HRC)		工具鋼 PREHARDENED STEEL SHARDENED STEELLS NAK.SKD(30~45 HRC)		高溫合金鋼/熱處理鋼 HARDENED STEELLS SKD11.61SKT(45~60 HRC)	
切削速度 Velocity		V=150m/min前後 Around V=150m/min		V=130m/min前後 Around V=130m/min		V=100m/min前後 Around V=100m/min	
型號 Model Number	外徑 Outside Diameter (m/m)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)
2101	0.1	32000	640	32000	520	31800	510
2020	0.1	23900	720	20700	620	15900	480
	0.3	23900	960	20700	830	15900	640
2030	0.1	16000	800	13800	690	10600	530
	0.3	16000	960	13800	830	10600	640
2040,2060	0.1	9500	480	8300	420	6400	320
	0.3	9500	570	8300	500	6400	380
	0.5	9500	670	8300	580	6400	450
軸方向切削量Ad Milling Amount (mm)		Ad=0.05D					

Square

方型

Ball

球型

Corner Radius

角半徑

Taper

錐型

Other

特殊
刀具

Standard

2刃

2 Flute

4刃

4 Flute

3&6刃

3&6 Flute

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方型

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Taper

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特殊
刀具

Standard



K-RVM 鎢鋼 4 刃 圓鼻刀

Standard, 4 Flute Corner Radius End Mills

2 Flute

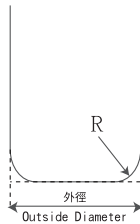
2 刃

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採用超微粒子合金
Super fine grain alloy is used for the carbide material .



NANO處理
TiCN coating process is used .



R角公差 ± 0.02
Carbide Radius Tolerance ± 0.02 .



R角
Corner edge radius



30° 螺旋角
Helix Angle is 30°



加工材料對照表(◎最佳 ○可)Applicable Work Material(◎ Most suitable ○ suitable)

被削材 Work Material										
碳素鋼 CARBON STEELS S45C S55C	合金鋼 ALLOY STEELS SK-SCM SUS	工具鋼 PREHARDENED STEELS (30-45HRC)NAK	高溫合金鋼 HARDENED STEELS			鑄鐵 CASTIRON STEELS	鋁合金 ALUMINIUM ALLOYS	石墨 GRAPHITE	銅合金 COPPER ALLOYS	塑膠 PLASTIC
			(~55HRC)	(~60HRC)	(60-65HRC)					
◎	◎	◎	◎	◎	○	○		○		

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	R半徑 Corner Radius	刃長 Length of Cut	有效長 Effective Length	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)
K-RVM 4040-02	4	R 0.2	4	12	50	6	920
K-RVM 4040-03	4	R 0.3	4	12	50	6	920
K-RVM 4040-05	4	R 0.5	4	12	50	6	920
K-RVM 4040-10	4	R 1	4	12	50	6	920
K-RVM 4060-02	6	R 0.2	6	18	50	6	1,150
K-RVM 4060-03	6	R 0.3	6	18	50	6	1,150
K-RVM 4060-05	6	R 0.5	6	18	50	6	1,150
K-RVM 4060-10	6	R 1	6	18	50	6	1,150
K-RVM 4080-03	8	R 0.3	8	24	60	8	1,800
K-RVM 4080-05	8	R 0.5	8	24	60	8	1,800
K-RVM 4080-10	8	R 1	8	24	60	8	1,800
K-RVM 4010-05	10	R 0.5	10	30	75	10	2,250
K-RVM 4010-10	10	R 1	10	30	75	10	2,250
K-RVM 4010-15	10	R 1.5	10	30	75	10	2,250
K-RVM 4012-05	12	R 0.5	12	36	75	12	2,800
K-RVM 4012-10	12	R 1	12	36	75	12	2,800
K-RVM 4012-15	12	R 1.5	12	36	75	12	2,800
K-RVM 4040-05	4	R 0.5	4	12	75	6	1,400
K-RVM 4040-10	4	R 1	4	12	75	6	1,400
K-RVM 4060-05	6	R 0.5	6	20	100	6	1,650
K-RVM 4060-10	6	R 1	6	20	100	6	1,650
K-RVM 4080-05	8	R 0.5	8	25	100	8	2,300
K-RVM 4080-10	8	R 1	8	25	100	8	2,300

- Square 方型
- Ball 球型
- Corner Radius 角半徑
- Taper 錐型
- Other 特殊刀具

單位:Unit(mm)

型號 Model Number	外徑 Outside Diameter	R半徑 Comer Radius	刃長 Length of Cut	有效長 Effective Length	全長 Overall Length	柄徑 Shank Diameter	定價 Price (NT)
K-RVM 4010-05	10	R 0.5	10	30	100	10	2,950
K-RVM 4010-10	10	R 1	10	30	100	10	2,950
K-RVM 4012-05	12	R 0.5	12	36	100	12	3,500
K-RVM 4012-10	12	R 1	12	36	100	12	3,500



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2 Flute

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4 Flute

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3&6 Flute

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特殊
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K-RVMT 切削條件說明表 List of milling for K-RVMT

加工材料 WORK MATERIAL		碳素鋼 CARBON STEELS S45C.S50C (~255 HB)		合成鋼 ALLOY STEELS SK.SCM.SUS (225~325 HRC)		工具鋼 PREHARDENED STEELS HARDENED STEELS HARDENED STEELS NAK.SKD (30~45 HRC)		高溫合金鋼/熱處理鋼 HARDENED STEELS SKD11.61SKT (45~50 HRC)	
切削速度 Velocity		V=40~60m/min		V=30~40m/min		V=25~30m/min		V=15~25m/min	
型號 Model Number	外徑 Outside Diameter (m/m)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)	轉數 Speed (m/in-1)	進給量 Feed (m/in-1)
4010	1	16000	340	12700	120	9550	65	5580	22
4020	2	8000	200	6400	120	4800	55	2790	31
4025	2.5	6300	200	5100	120	3800	55	2250	31
4030	3	5000	200	4200	120	3180	55	2210	33
4040	4	4000	240	3200	150	2390	65	1590	39
4050	5	3200	240	2550	150	1910	65	1270	39
4060	6	2650	240	2120	150	1590	65	1060	39
4080	8	2000	240	1600	150	1190	70	800	39
4000	10	1600	240	1270	150	950	70	640	39
4020	12	1330	240	1060	150	800	70	530	39
4060	16	1000	220	800	130	600	60	400	36
4080	18	900	190	700	120	530	60	350	33
4000	20	800	190	640	110	480	55	320	31
4050	25	650	170	510	100	380	50	250	25

溝切削

切削量 (mm) Milling Amount for Slotting

45HRC以下 Less than 45HRC

$D < 0.3$ $Ad = 0.25D$

$D \geq 0.3$ $Ad = 0.5D$

45HRC以上 More than 45HRC

$Ad = 0.05D$

D:外徑 (mm) Outside Diameter

Ad:軸方向切削量 (mm) Milling Amount

