



**ANN WAY
MACHINE TOOLS**

CNC Toolholders

End Mills

Face Mills



Holding Your Future

TOOLING SYSTEM



Total tooling system Vol.2

www.annwaytools.com.tw

Holding Your Future

TOOLING SYSTEM

www.annwaytools.com.tw



Ann Way Machine Tools Co., Ltd. was founded in 1979. We manufacture cutting tools and cutting tool holders for conventional and CNC machine tools. Our main products include,

- Boring and milling cutting tools
- ER collet chucks
- Milling chucks
- Keyless drill chucks
- ER, OZ, SC collet chucks
- Boring chucks
- BT, HSK, DIN, ANSI testing tools

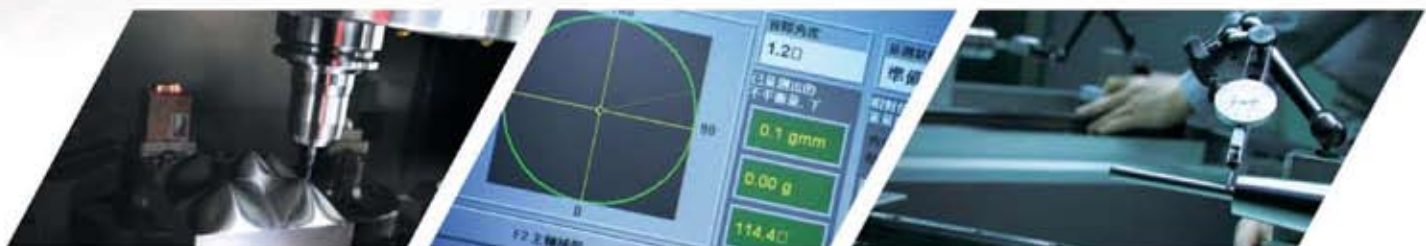
Our ASK, ADS, AVC and ASG series products meet the demands of high speed, high precision machining.

We have invested heavily over the years in our own manufacturing facilities and are ISO9001 certified. Our R&D department is always active and ready to offer new high quality products. You can find Ann Way cutting holders and cutting tools in the USA, Canada, the UK, Germany, France, Switzerland, Italy, Australia, Turkey and Southeast Asia. We actively keep innovating, developing, and enterprising to offer good product quality and serve all customers.

安威機具自1979年成立以來，堅持品質、以客為尊的誠信經營，已凝聚成一股以品質為上策的企業精神。秉持著創新突破的精神，安威持續在產品上精進提昇；近年來，為符合國際市場數控機械、高精密、高轉速的需求，成功研發出高速切削ASK、ADS、ASG、AVC等系列產品，能充分配合高轉速切削刀具，目前已廣泛應用於平衡度高、精度好的精密機械。另外，在粗搪、精搪、大小口徑搪頭方面，亦持續推出多樣化產品，廣受業界好評。更重要的是，安威擁有國際標準規格的檢驗模具BT、HSK、DIN、ANSI，使產品更能合乎國際市場的嚴苛要求。而於2003年通過ISO 9001認證，亦使得安威在品質掌控、行政與生產管理、客戶服務與技術支援等各方面，確實發揮加乘效果。優質的產品深得國內外客戶肯定，成功行銷美國、加拿大、義大利、英國、德國、法國、澳洲、瑞士等全球多個國家。「用實力證明價值，以實績創造品牌」，安威持續以一種打造機械配件精工品質的態度，踩著穩健的步伐，邁向企業永續經營之路！



FULL HD ONLINE



Watch Ann Way company introduction at: www.machinetools.net.tw. Select **VIDEOS & BROADBAND**, then enter **M35700**

請上網 www.machinetools.net.tw 選擇 **VIDEOS**，輸入編號 **M35701** 即可立即觀看公司簡介動態影片。

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>>> 超微粒鎢鋼長刃鋁用立銑刀-2刃,3刃螺旋角45度

ACEMX-Extra Micro Carbide End Mill For Aluminum-2F&3F,Long Flute,Helical Angle 55°

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立銑刀切削條件計算公式 **MILLING PARAMETERS**

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AF SERIES

Extra Micro Carbide End Mill-2F&4F, Helical Angle 35°

超微粒鎢鋼立銑刀-2刃 & 4刃螺旋角35度

ITEM No. AFEMK



訂購示例：AFEMK0103-2T/4T
Ordering process: AFEMK0103-2T/4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron, Carbon steels, Alloy steels, Die steels, Pre-hardened steels, Stainless steels, Nickel, Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFEMK0103-2T	1	3	50	3	2
AFEMK0153-2T	1.5	4			
AFEMK0203-2T	2	6			
AFEMK0253-2T	2.5	8			
AFEMK0303-2T	3				
AFEMK0104-2T	1	3	50	4	2
AFEMK0154-2T	1.5	4			
AFEMK0204-2T	2	5			
AFEMK0304-2T	3	8			
AFEMK0404-2T	4	12	50	6	2
AFEMK0106-2T	1	3			
AFEMK0206-2T	2	5			
AFEMK0306-2T	3	8			
AFEMK0406-2T	4	12	60	8	2
AFEMK0506-2T	5	15			
AFEMK0606-2T	6	16			
AFEMK0708-2T	7	16			
AFEMK0808-2T	8	20	75	10	2
AFEMK0910-2T	9	20			
AFEMK10010-2T	10	30			
AFEMK12012-2T	12	32			
AFEMK14016-2T	14	45	100	16	2
AFEMK16016-2T	16				
AFEMK18020-2T	18				
AFEMK20020-2T	20				
AFEMK20020-2T	20	45	100	16	2

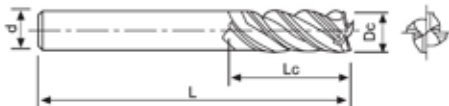
-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFEMK0103-4T	1	3	50	3	4
AFEMK0153-4T	1.5	4			
AFEMK0203-4T	2	6			
AFEMK0253-4T	2.5	8			
AFEMK0303-4T	3				
AFEMK0104-4T	1	3	50	4	4
AFEMK0154-4T	1.5	4			
AFEMK0204-4T	2	5			
AFEMK0304-4T	3	8			
AFEMK0404-4T	4	12	50	6	4
AFEMK0106-4T	1	3			
AFEMK0206-4T	2	5			
AFEMK0306-4T	3	8			
AFEMK0406-4T	4	12	60	8	4
AFEMK0506-4T	5	15			
AFEMK0606-4T	6	16			
AFEMK0708-4T	7	16			
AFEMK0808-4T	8	20	75	10	4
AFEMK0910-4T	9	20			
AFEMK10010-4T	10	30			
AFEMK12012-4T	12	32			
AFEMK14016-4T	14	45	100	16	4
AFEMK16016-4T	16				
AFEMK18020-4T	18				
AFEMK20020-4T	20				
AFEMK20020-4T	20	45	100	16	4

Extra Micro Carbide End Mill-4Flutes, Helical Angle 45°

超微粒鎢鋼立銑刀-4刃螺旋角45度

ITEM No. AFEMV



訂購示例：AFEMV0103-4T

Ordering process: AFEMV0103-4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

- 適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金

- Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium

- 規格表DIMENSIONS(4*/4Flutes)

Item No.	DC	FLUTE LENGTH	FLUTE WIDTH	FLUTE WIDTH	FLUTE WIDTH
AFEMV0103-4T	1	3	50	3	4
AFEMV0153-4T	1.5	4			
AFEMV0203-4T	2	6			
AFEMV0253-4T	2.5	8			
AFEMV0303-4T	3				
AFEMV0104-4T	1	3	50	4	4
AFEMV0154-4T	1.5	4			
AFEMV0204-4T	2	5			
AFEMV0304-4T	3	8			
AFEMV0404-4T	4				
AFEMV0106-4T	1	3	50	6	4
AFEMV0206-4T	2	5			
AFEMV0306-4T	3	8			
AFEMV0406-4T	4				
AFEMV0506-4T	5	15			
AFEMV0606-4T	6	16	60	8	4
AFEMV0708-4T	7	16			
AFEMV0808-4T	8	20			
AFEMV0910-4T	9	20	75	10	4
AFEMV10010-4T	10	30			
AFEMV12012-4T	12	32		12	
AFEMV14016-4T	14	45	100	16	4
AFEMV16016-4T	16				
AFEMV18020-4T	18	45	100	20	4
AFEMV20020-4T	20				

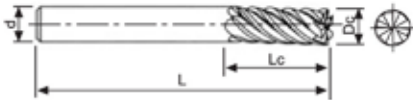


AF SERIES

Extra Micro Carbide End Mill-6Flutes, Helical Angle 45°

超微粒鎢鋼立銑刀-6刃螺旋角45度

ITEM No. AFEMV



- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。
- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.
- 6刃設計，適合高硬度及精修加工應用
- 6 flutes design ideal for high hardness metals and finishing application.
- 適用切削材：
鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金
- Work Material:
Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium
- 規格表DIMENSIONS(6*/6Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFEMV0606-6T	6	16	60	6	6
AFEMV0808-6T	8	20		8	
AFEMV10010-6T	10	30	75	10	6
AFEMV12012-6T	12	32		12	
AFEMV16016-6T	16	45	100	16	6
AFEMV20020-6T	20	50		20	
AFEMV25025-6T	25	50		25	

訂購示例：AFEMV0606-6T

Ordering process: AFEMV0606-6T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



Extra Micro Carbide End Mill-2F&4F, Long Flute, Helical Angle 45°

超微粒鎢鋼長刃立銑刀-2刃 & 4刃螺旋角45度

ITEM No. AFELV



訂購示例：AFELV0104-2T/4T
Ordering process: AFELV0104-2T/4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。
- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.
- 適用切削材：
鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金
- Work Material:
Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium
- 規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFELV0104-2T	1	5	50	4	2
AFELV0154-2T	1.5	8			
AFELV0204-2T	2	10			
AFELV0304-2T	3	15	60	4	2
AFELV0404-2T	4	20			
AFELV0206-2T	2	10			
AFELV0306-2T	3	15	75	6	2
AFELV0406-2T	4	20			
AFELV0506-2T	5	25			
AFELV0606-2T	6	30	100	8	2
AFELV0708-2T	7	35			
AFELV0808-2T	8				
AFELV09010-2T	9	40	100	10	2
AFELV10010-2T	10	45			
AFELV12012-2T	12	55			
AFELV14016-2T	14	60	150	16	2
AFELV16016-2T	16	70			
AFELV18020-2T	18	80			
AFELV20020-2T	20	90	200	20	2

-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFELV0104-4T	1	5	50	4	4
AFELV0154-4T	1.5	8			
AFELV0204-4T	2	10			
AFELV0304-4T	3	15	60	4	4
AFELV0404-4T	4	20			
AFELV0206-4T	2	10			
AFELV0306-4T	3	15	75	6	4
AFELV0406-4T	4	20			
AFELV0506-4T	5	25			
AFELV0606-4T	6	30	100	8	4
AFELV0708-4T	7	35			
AFELV0808-4T	8				
AFELV09010-4T	9	40	100	10	4
AFELV10010-4T	10	45			
AFELV12012-4T	12	55			
AFELV14016-4T	14	60	150	16	4
AFELV16016-4T	16	70			
AFELV18020-4T	18	80			
AFELV20020-4T	20	90	200	20	4

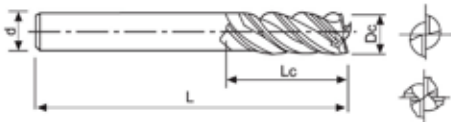
AF SERIES



Extra Micro Carbide End Mill-2F&4F, Long Flute, Helical Angle 35°

超微粒鎢鋼長刃立銑刀-2刃 & 4刃螺旋角35度

ITEM No. AFELK



訂購示例：AFELK0104-2T/4T
Ordering process: AFELK0104-2T/4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

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-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFELK0104-2T	1	5	50	4	2
AFELK0154-2T	1.5	8			
AFELK0204-2T	2	10			
AFELK0304-2T	3	15	60	4	2
AFELK0404-2T	4	20			
AFELK0206-2T	2	10			
AFELK0306-2T	3	15	75	6	2
AFELK0406-2T	4	20			
AFELK0506-2T	5	25			
AFELK0606-2T	6	30	100	8	2
AFELK0708-2T	7	35			
AFELK0808-2T	8				
AFELK09010-2T	9	40	100	10	2
AFELK10010-2T	10	45			
AFELK12012-2T	12	55			
AFELK14016-2T	14	60	150	16	2
AFELK16016-2T	16	70			
AFELK18020-2T	18	80			
AFELK20020-2T	20	90	200	20	2

-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFELK0104-4T	1	5	50	4	4
AFELK0154-4T	1.5	8			
AFELK0204-4T	2	10			
AFELK0304-4T	3	15	60	4	4
AFELK0404-4T	4	20			
AFELK0206-4T	2	10			
AFELK0306-4T	3	15	75	6	4
AFELK0406-4T	4	20			
AFELK0506-4T	5	25			
AFELK0606-4T	6	30	100	8	4
AFELK0708-4T	7	35			
AFELK0808-4T	8				
AFELK09010-4T	9	40	100	10	4
AFELK10010-4T	10	45			
AFELK12012-4T	12	55			
AFELK14016-4T	14	60	150	16	4
AFELK16016-4T	16	70			
AFELK18020-4T	18	80			
AFELK20020-4T	20	90	200	20	4

Extra Micro Carbide End Mill-2F&4F,Long Shank,Helical Angle 35°

超微粒鎢鋼長柄立銑刀-2刃 & 4刃螺旋角35度

ITEM No. AFENK



訂購示例：AFENK0104-2T/4T

Ordering process:AFENK0104-2T/4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels.Pre-hardened steels Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFENK0104-2T	1	3	75	4	2
AFENK0154-2T	1.5	4			
AFENK0204-2T	2	5			
AFENK0304-2T	3	8			
AFENK0404-2T	4	12			
AFENK0306-2T	3	8	75	6	2
AFENK0406-2T	4	12			
AFENK0506-2T	5	15			
AFENK0606-2T	6	16			
AFENK0708-2T	7	20			
AFENK0808-2T	8	20	100	8	2
AFENK09010-2T	9	30			
AFENK10010-2T	10	30	150	10	2
			100		
AFENK12012-2T	12	32	150	12	2
			100		
AFENK14016-2T	14	45	150	16	2
			200		
AFENK16016-2T	16	45	150	16	2
			200		
AFENK18020-2T	18	45	150	20	2
			200		
AFENK20020-2T	20	45	150	20	2
			200		

-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
AFENK0104-4T	1	3	75	4	4
AFENK0154-4T	1.5	4			
AFENK0204-4T	2	5			
AFENK0304-4T	3	8			
AFENK0404-4T	4	12			
AFENK0306-4T	3	8	75	6	4
AFENK0406-4T	4	12			
AFENK0506-4T	5	15			
AFENK0606-4T	6	16			
AFENK0708-4T	7	20			
AFENK0808-4T	8	20	100	8	4
AFENK09010-4T	9	30			
AFENK10010-4T	10	30	150	10	4
			100		
AFENK12012-4T	12	32	150	12	4
			100		
AFENK14016-4T	14	45	150	16	4
			200		
AFENK16016-4T	16	45	150	16	4
			200		
AFENK18020-4T	18	45	150	20	4
			200		
AFENK20020-4T	20	45	150	20	4
			200		

AF SERIES

Extra Micro Carbide End Mill-2F&4F,Long Shank,Helical Angle 45°

超微粒鎢鋼長柄立銑刀-2刃 & 4刃螺旋角45度

ITEM No. AFENV



訂購示例：AFENV0104-2T/4T
Ordering process:AFENV0104-2T/4T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T		
AFENV0104-2T	1	3	75	4	2		
AFENV0154-2T	1.5	4					
AFENV0204-2T	2	5					
AFENV0304-2T	3	8					
AFENV0404-2T	4	12					
AFENV0306-2T	3	8	75	6	2		
AFENV0406-2T	4	12					
AFENV0506-2T	5	15					
AFENV0606-2T	6	16					
AFENV0708-2T	7						
AFENV0808-2T	8	20	100	8	2		
AFENV09010-2T	9						
AFENV10010-2T	10	30	150	10	2		
AFENV12012-2T	12		100				
AFENV14016-2T	14	45	150	12	2		
AFENV16016-2T	16		200				
AFENV18020-2T	18	45	150	16	2		
AFENV20020-2T	20		200				
			150			20	2
			200				



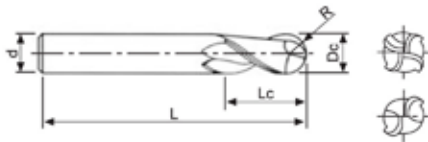
-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T		
AFENV0104-4T	1	3	75	4	4		
AFENV0154-4T	1.5	4					
AFENV0204-4T	2	5					
AFENV0304-4T	3	8					
AFENV0404-4T	4	12					
AFENV0306-4T	3	8	75	6	4		
AFENV0406-4T	4	12					
AFENV0506-4T	5	15					
AFENV0606-4T	6	16					
AFENV0708-4T	7						
AFENV0808-4T	8	20	100	8	4		
AFENV09010-4T	9						
AFENV10010-4T	10	30	150	10	4		
AFENV12012-4T	12		100				
AFENV14016-4T	14	45	150	12	4		
AFENV16016-4T	16		200				
AFENV18020-4T	18	45	150	16	4		
AFENV20020-4T	20		200				
			150			20	4
			200				

Extra Micro Carbide Ball Nose End Mill-2F&4F, Helical Angle 30°

超微粒鎢鋼球型銑刀-2刃 & 4刃螺旋角30度

ITEM No. AFBMG



訂購示例：AFBMG0104-2T/4T

Ordering process: AFBMG0104-2T/4T

尺徑Radius	公差Tolerance
R徑	±0.02



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFBMG0104-2T	1	0.5	2	50	4	2
AFBMG0154-2T	1.5	0.75	3			
AFBMG0204-2T	2	1	4			
AFBMG0254-2T	2.5	1.25	5			
AFBMG0304-2T	3	1.5	6			
AFBMG0404-2T	4	2	8			
AFBMG0106-2T	1	0.5	2	50	6	2
AFBMG0206-2T	2	1	4			
AFBMG0306-2T	3	1.5	6			
AFBMG0406-2T	4	2	8			
AFBMG0506-2T	5	2.5	10			
AFBMG0606-2T	6	3	12			
AFBMG0708-2T	7	3.5	14	60	8	2
AFBMG0808-2T	8	4	16			
AFBMG10010-2T	10	5	20	75	10	2
AFBMG12012-2T	12	6	24		12	
AFBMG16016-2T	16	8	32	100	16	2
AFBMG20020-2T	20	10	40		20	

-規格表DIMENSIONS(4*/4Flutes)

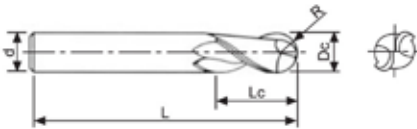
編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFBMG0104-4T	1	0.5	2	50	4	4
AFBMG0154-4T	1.5	0.75	3			
AFBMG0204-4T	2	1	4			
AFBMG0254-4T	2.5	1.25	5			
AFBMG0304-4T	3	1.5	6			
AFBMG0404-4T	4	2	8			
AFBMG0106-4T	1	0.5	2	50	6	4
AFBMG0206-4T	2	1	4			
AFBMG0306-4T	3	1.5	6			
AFBMG0406-4T	4	2	8			
AFBMG0506-4T	5	2.5	10			
AFBMG0606-4T	6	3	12			
AFBMG0708-4T	7	3.5	14	60	8	4
AFBMG0808-4T	8	4	16			
AFBMG10010-4T	10	5	20	75	10	4
AFBMG12012-4T	12	6	24		12	
AFBMG16016-4T	16	8	32	100	16	4
AFBMG20020-4T	20	10	40		20	

AF SERIES

Extra Micro Carbide Ball Nose End Mill-2Flutes, Long Shank, Helical Angle 30°

超微粒鎢鋼長柄球型銑刀-2刃螺旋角30度

ITEM No. AFBNG



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFBNG0106-2T	1	0.5	2	75	6	2
AFBNG0156-2T	1.5	0.75	3			
AFBNG0206-2T	2	1	4			
AFBNG0256-2T	2.5	1.25	5			
AFBNG0306-2T	3	1.5	6			
AFBNG0406-2T	4	2	8			
AFBNG0506-2T	5	2.5	10	100	8	2
AFBNG0606-2T	6	3	12			
AFBNG0708-2T	7	3.5	14			
AFBNG0808-2T	8	4	16			
AFBNG09010-2T	9	4.5	18	100	10	2
AFBNG10010-2T	10	5	20		12	2
AFBNG12010-2T	12	6	24	150	16	2
AFBNG14016-2T	14	7	28			
AFBNG16016-2T	16	8	32			
AFBNG20020-2T	20	10	40	200	20	2

訂購示例：AFBNG0106-2T

Ordering process:AFBNG0106-2T

尺徑Radius	公差Tolerance
R徑	±0.02



Extra Micro Carbide Ball Nose End Mill-2F&4F,Long Flute,Helical Angle 30°

超微粒鎢鋼長刃球型銑刀-2刃 & 4刃螺旋角30度

ITEM No. AFBLG



訂購示例：AFBLG0304-2T/4T

Ordering process:AFBLG0304-2T/4T

尺徑Radius	公差Tolerance
R徑	±0.02



- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T		
AFBLG0304-2T	3	1.5	20	60	4	2		
AFBLG0404-2T	4	2						
AFBLG0506-2T	5	2.5	25	75	6	2		
AFBLG0606-2T	6	3	28					
AFBLG0708-2T	7	3.5	30				8	2
AFBLG0808-2T	8	4						
AFBLG0910-2T	9	4.5	32	10	2			
AFBLG10010-2T	10	5						
AFBLG12012-2T	12	6	50	100	12	2		
AFBLG14014-2T	14	7	60	150	14	2		
AFBLG16016-2T	16	8			16			
AFBLG20020-2T	20	10			20			

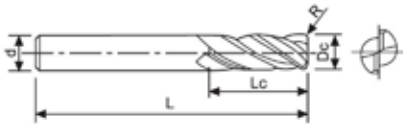
-規格表DIMENSIONS(4*/4Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T		
AFBLG0304-4T	3	1.5	20	60	4	4		
AFBLG0404-4T	4	2						
AFBLG0506-4T	5	2.5	25	75	6	4		
AFBLG0606-4T	6	3	28					
AFBLG0708-4T	7	3.5	30				8	4
AFBLG0808-4T	8	4						
AFBLG0910-4T	9	4.5	32	10	4			
AFBLG10010-4T	10	5						
AFBLG12012-4T	12	6	50	100	12	4		
AFBLG14014-4T	14	7	60	150	14	4		
AFBLG16016-4T	16	8			16			
AFBLG20020-4T	20	10			20			

AF SERIES

Extra Micro Carbide End With Corner Radius-2Flutes, Helical Angle 35° 超微粒鎢鋼R角立銑刀-2刃螺旋角35度

ITEM No. AFRMK



訂購示例：AFRMK0104-2T02
Ordering process:AFRMK0104-2T02

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

尺徑Radius	公差Tolerance
R徑	±0.02



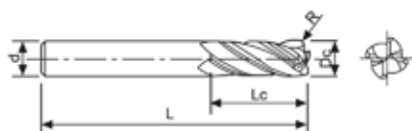
- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。
- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.
- 適用切削材：
鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鎳合金、鈦合金
- Work Material:
Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium
- 規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFRMK0104-2T	1	0.2	3	50	4	2
		0.3				
AFRMK0204-2T	2	0.2	6	50	4	2
		0.3				
AFRMK0304-2T	3	0.2	8	50	4	2
		0.3				
AFRMK0404-2T	4	0.2	11	50	4	2
		0.3				
AFRMK0506-2T	5	0.2	13	50	6	2
		0.3				
AFRMK0606-2T	6	0.2	16	50	6	2
		0.3				
AFRMK0808-2T	6	0.2	20	60	8	2
		0.3				
AFRMK10010-2T	6	0.2	30	75	10	2
		0.3				
AFRMK12012-2T	6	0.2	32	75	12	2
		0.3				

Extra Micro Carbide End With Corner Radius-4Flutes, Helical Angle 35°

超微粒鎢鋼R角立銑刀-4刃螺旋角35度

ITEM No. AFRMK



訂購示例：AFRMK0206-4T02

Ordering process: AFRMK0206-4T02

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

尺徑Radius	公差Tolerance
R徑	± 0.02



-說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。

-Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.

-適用切削材：

鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金

-Work Material:

Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium

-規格表DIMENSIONS(4*4Flutes)

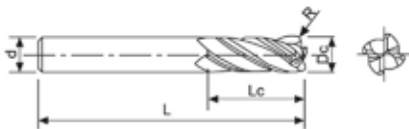
編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFRMK0206-4T	2	0.2	6	50	6	4
		0.3				
		0.5				
AFRMK0306-4T	3	0.2	8	50	6	4
		0.3				
		0.5				
		1				
AFRMK0406-4T	4	0.2	11	50	6	4
		0.3				
		0.5				
		1				
		1.5				
AFRMK0506-4T	5	0.2	13	50	6	4
		0.3				
		0.5				
		1				
AFRMK0606-4T	6	0.2	16	50	6	4
		0.3				
		0.5				
		1				
		1.5				
		2				
AFRMK0808-4T	8	0.3	20	60	8	4
		0.5				
		1				
		1.5				
		2				
AFRMK10010-4T	10	0.3	30	75	10	4
		0.5				
		1				
		1.5				
		2				
		2.5				
AFRMK12012-4T	12	0.3	32	75	12	4
		0.5				
		1				
		1.5				
		2				
		2.5				

AF SERIES

Extra Micro Carbide End Mill With Corner Radius-4Flutes,Long Shank, Helical Angle 35°

超微粒鎢鋼長柄R角立銑刀-4刃螺旋角35度

ITEM No. AFRNK



訂購示例：AFRNK0303-4T02
Ordering process:AFRNK0303-4T02

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

尺徑Radius	公差Tolerance
R徑	± 0.02



- 說明：選用高品質鎢鋼搭配TiAlN鍍層，可泛用各種金屬切削環境以提供客戶最經濟的成本解決方案。
- Description: Adopting high quality carbide with TiAlN coating and providing most economical solution for customers. Applicable for different applications.
- 適用切削材：
鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不鏽鋼、鍍合金、鈦合金
- Work Material:
Cast iron. Carbon steels. Alloy steels. Die steels. Pre-hardened steels. Stainless steels. Nickel. Titanium
- 規格表DIMENSIONS(4*4Flutes)

編號 No.	刃徑DC	R徑R	刃長LC	總長L	柄徑d	刃數T
AFRNK0303-4T	3	0.2	8	75	3	4
		0.3				
		0.5				
		1				
AFRNK0404-4T	4	0.2	11	75	4	4
		0.3				
		0.5				
		1				
AFRNK0206-4T	2	0.2	6	100	6	4
		0.3				
		0.5				
		1				
AFRNK0306-4T	3	0.2	8	100	6	4
		0.3				
		0.5				
		1				
AFRNK0406-4T	4	0.2	11	100	6	4
		0.3				
		0.5				
		1				
AFRNK0506-4T	5	0.2	13	100	6	4
		0.3				
		0.5				
		1				
AFRNK0606-4T	6	0.2	16	100	6	4
		0.3				
		0.5				
		1				
		1.5				
		2				
AFRNK0808-4T	8	0.3	20	100	8	4
		0.5				
		1				
		1.5				
AFRNK10010-4T	10	0.3	30	100	10	4
		0.5				
		1				
		1.5				
		2				
		2.5				
AFRNK12012-4T	12	0.3	32	100	12	4
		0.5				
		1				
		1.5				
		2				
		2.5				

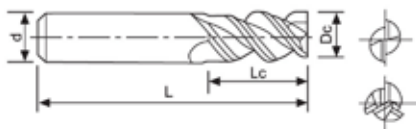
Extra Micro Carbide End Mill For Aluminum-2F&3F, Helical Angle 45°

超微粒鎢鋼鋁用立銑刀-2刃 & 3刃螺旋角45度

ITEM No. ACEMV

鋁合金專用銑刀 CUTTING ALUMINUM-TYPE

- 說明：針對鋁銅合金切削設計並有良好加工品質及刀具壽命
- Description: Designed for aluminum & copper alloys and with good cutting performance and tool life.
- 適用切削材：
鋁合金、銅合金、鎂合金、鋅合金
- Work Material:
Aluminum.Copper.Magnesium.Zinc
- 規格表DIMENSIONS(2*/2Flutes)



編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACEMV0104-2T	1	3	50	4	2
ACEMV0204-2T	2	5			
ACEMV0304-2T	3	8			
ACEMV0404-2T	4	12			
ACEMV0106-2T	1	3	50	6	2
ACEMV0206-2T	2	5			
ACEMV0306-2T	3	8			
ACEMV0406-2T	4	12			
ACEMV0506-2T	5	13			
ACEMV0606-2T	6	16			
ACEMV0808-2T	8	20	60	8	2
ACEMV10010-2T	10	30	75	10	
ACEMV12012-2T	12	32		12	
ACEMV16016-2T	16	50	100	16	
ACEMV20020-2T	20	50		20	

訂購示例：ACEMV0104-2T/3T

Ordering process:ACEMV0104-2T/3T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

-規格表DIMENSIONS(3*/3Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACEMV0104-3T	1	3	50	4	3
ACEMV0204-3T	2	5			
ACEMV0304-3T	3	8			
ACEMV0404-3T	4	12			
ACEMV0106-3T	1	3	50	6	3
ACEMV0206-3T	2	5			
ACEMV0306-3T	3	8			
ACEMV0406-3T	4	12			
ACEMV0506-3T	5	13			
ACEMV0606-3T	6	16			
ACEMV0808-3T	8	20	60	8	3
ACEMV10010-3T	10	30	75	10	
ACEMV12012-3T	12	32		12	
ACEMV16016-3T	16	50	100	16	
ACEMV20020-3T	20	50		20	



AF SERIES



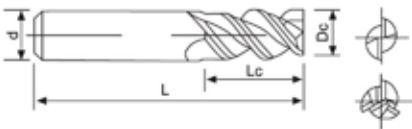
Extra Micro Carbide End Mill For Aluminum-2F&3F, Helical Angle 55°

超微粒鎢鋼鋁用立銑刀-2刃 & 3刃螺旋角55度

ITEM No. ACEMX

鋁合金專用銑刀 CUTTING ALUMINUM-TYPE

- 說明：針對鋁銅合金切削設計並有良好加工品質及刀具壽命，高導角55度設計
- Description: Designed for aluminum & copper alloys and with good cutting performance and tool life. High helix angles design.
- 適用切削材：
鋁合金、銅合金、鎂合金、鋅合金
- Work Material:
Aluminum.Copper.Magnesium.Zinc
- 規格表DIMENSIONS(2*/2Flutes)



訂購示例：ACEMX0104-2T/3T

Ordering process: ACEMX0104-2T/3T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACEMX0104-2T	1	3	50	4	2
ACEMX0204-2T	2	5			
ACEMX0304-2T	3	8			
ACEMX0404-2T	4	12			
ACEMX0106-2T	1	3	50	6	2
ACEMX0206-2T	2	5			
ACEMX0306-2T	3	8			
ACEMX0406-2T	4	12			
ACEMX0506-2T	5	13			
ACEMX0606-2T	6	16			
ACEMX0808-2T	8	20	60	8	2
ACEMX10010-2T	10	30	75	10	
ACEMX12012-2T	12	32		12	
ACEMX16016-2T	16	50	100	16	2
ACEMX20020-2T	20	50		20	

-規格表DIMENSIONS(3*/3Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACEMX0104-3T	1	3	50	4	3
ACEMX0204-3T	2	5			
ACEMX0304-3T	3	8			
ACEMX0404-3T	4	12			
ACEMX0106-3T	1	3	50	6	3
ACEMX0206-3T	2	5			
ACEMX0306-3T	3	8			
ACEMX0406-3T	4	12			
ACEMX0506-3T	5	13			
ACEMX0606-3T	6	16			
ACEMX0808-3T	8	20	60	8	3
ACEMX10010-3T	10	30	75	10	
ACEMX12012-3T	12	32		12	
ACEMX16016-3T	16	50	100	16	3
ACEMX20020-3T	20	50		20	



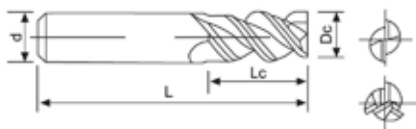
Extra Micro Carbide End Mill For Aluminum-2F&3F, Long Flute, Helical Angle 45°

超微粒鎢鋼長刃鋁用立銑刀-2刃 & 3刃螺旋角45度

ITEM No. ACELV

鋁合金專用銑刀 CUTTING ALUMINUM-TYPE

- 說明：針對鋁銅合金切削設計並加長刀刃，具有良好加工品質及刀具壽命
- Description: Designed for aluminum & copper alloys and with extended cutting edge length and with good cutting performance and tool life.
- 適用切削材：
鋁合金、銅合金、鎂合金、鋅合金
- Work Material:
Aluminum.Copper.Magnesium.Zinc
- 規格表DIMENSIONS(2*/2Flutes)



訂購示例：ACELV0104-2T/3T
Ordering process:ACELV0104-2T/3T

刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACELV0104-2T	1	7	60	4	2
ACELV0204-2T	2	12			
ACELV0304-2T	3	15			
ACELV0404-2T	4	20			
ACELV0306-2T	3	20	60	6	2
ACELV0406-2T	4				
ACELV0506-2T	5	25	75	8	2
ACELV0606-2T	6	30	75		
ACELV0808-2T	8	32	100	10	2
ACELV10010-2T	10	45		12	
ACELV12012-2T	12	20		16	
ACELV16016-2T	16	60	150	16	2
ACELV20020-2T	20			20	

-規格表DIMENSIONS(3*/3Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACELV0104-3T	1	7	60	4	3
ACELV0204-3T	2	12			
ACELV0304-3T	3	15			
ACELV0404-3T	4	20			
ACELV0306-3T	3	20	60	6	3
ACELV0406-3T	4				
ACELV0506-3T	5	25	75	8	3
ACELV0606-3T	6	30	75		
ACELV0808-3T	8	32	100	10	3
ACELV10010-3T	10	45		12	
ACELV12012-3T	12	20		16	
ACELV16016-3T	16	60	150	16	3
ACELV20020-3T	20			20	



AF SERIES

Extra Micro Carbide End Mill For Aluminum-2F&3F, Long Flute, Helical Angle 55°

超微粒鎢鋼長刃鋁用立銑刀-2刃 & 3刃螺旋角55度

ITEM No. ACELX

鋁合金專用銑刀 CUTTING ALUMINUM-TYPE

- 說明：針對鋁銅合金切削設計並加長刀刃，具有良好加工品質及刀具壽命
- Description: Designed for aluminum & copper alloys and with extended cutting edge length and with good cutting performance and tool life.
- 適用切削材：
鋁合金、銅合金、鎂合金、鋅合金
- Work Material:
Aluminum.Copper.Magnesium.Zinc
- 規格表DIMENSIONS(2*/2Flutes)



編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACELX0104-2T	1	7	60	4	2
ACELX0204-2T	2	12			
ACELX0304-2T	3	15			
ACELX0404-2T	4	20			
ACELX0306-2T	3	20	60	6	2
ACELX0406-2T	4				
ACELX0506-2T	5	25	75	8	2
ACELX0606-2T	6	30	75		
ACELX0808-2T	8	32	100	10	2
ACELX10010-2T	10	45		12	
ACELX12012-2T	12	20		16	
ACELX16016-2T	16	60	150	20	2
ACELX20020-2T	20				

-規格表DIMENSIONS(3*/3Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T
ACELX0104-3T	1	7	60	4	3
ACELX0204-3T	2	12			
ACELX0304-3T	3	15			
ACELX0404-3T	4	20			
ACELX0306-3T	3	20	60	6	3
ACELX0406-3T	4				
ACELX0506-3T	5	25	75	8	3
ACELX0606-3T	6	30	75		
ACELX0808-3T	8	32	100	10	3
ACELX10010-3T	10	45		12	
ACELX12012-3T	12	20		16	
ACELX16016-3T	16	60	150	20	3
ACELX20020-3T	20				

訂購示例：ACELX0104-2T/3T

Ordering process:ACELX0104-2T/3T

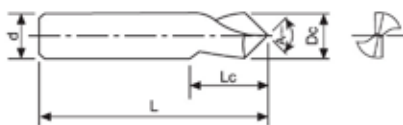
刃徑DC	公差Tolerance
$\phi < 1$	-0~-0.015
$1 < \phi < 3$	-0~-0.02
$3 < \phi < 12$	-0~-0.025
$12 < \phi$	-0~-0.03



Extra Micro Carbide Spot Drills-90° & 120°

超微粒鎢鋼定點鑽-90度 & 120度

ITEM No. IDH



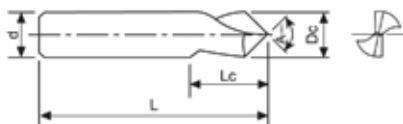
- 說明：選用高品質鎢鋼及鍍層製作而成，可加工中高硬度金屬
- Description: Adopting high quality carbide and coating(optional).
Ideal for machining most steels.

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T	角度Angle
IDH0303	3	12	50	3	2	90°&120°
IDH0404	4			4		
IDH0505	5			5		
IDH0606	6	20	60	6		
IDH0808	8			8		
IDH10010	10	25	75	10		
IDH12012	12			12		
IDH16016	16			16		
IDH20020	20	40	100	20		

-訂購示例：IDH03090/030120
Ordering process:IDH03090/030120

ITEM No. IDHP



- 說明：選用高品質鎢鋼及鍍層製作而成，適用加工較低硬度金屬
- Description: Adopting high quality carbide and coating(optional).
Suitable for machining steels with low hardness.

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T	角度Angle
IDHP0303	3	12	50	3	2	90°&120°
IDHP0404	4			4		
IDHP0505	5			5		
IDHP0606	6	20	60	6		
IDHP0808	8			8		
IDHP10010	10	25	75	10		
IDHP12012	12			12		
IDHP16016	16			16		
IDHP20020	20	40	100	20		

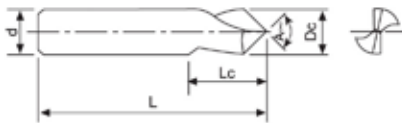
-訂購示例：IDHP03090/030120
Ordering process:IDHP03090/030120

ID SERIES

Extra Micro Carbide Long Shank Spot Drills-90° & 120°

超微粒鎢鋼定點鑽-90度 & 120度

ITEM No. IDHN



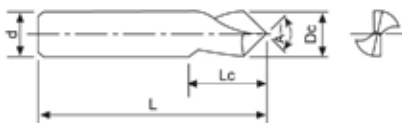
- 說明：選用高品質鎢鋼及鍍層製作而成，可加工中高硬度金屬
- Description: Adopting high quality carbide and coating(optional).
Ideal for machining most steels.

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T	角度Angle
IDHN0303	3	12	75	3	2	90°&120°
IDHN0404	4			4		
IDHN0505	5	5				
IDHN0606	6	6				
IDHN0808	8	8				
IDHN10010	10	25	100	10		
IDHN12012	12			12		
IDHN16016	16	35	100	16		
IDHN20020	20			20		

-訂購示例：IDHN03090/030120
Ordering process:IDH03090/030120

ITEM No. IDHPN



- 說明：選用高品質鎢鋼及鍍層製作而成，適用加工較低硬度金屬
- Description: Adopting high quality carbide and coating(optional).
Suitable for machining steels with low hardness.

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T	角度Angle
IDHPN0303	3	12	75	3	2	90°&120°
IDHPN0404	4			4		
IDHPN0505	5	5				
IDHPN0606	6	6				
IDHPN0808	8	8				
IDHPN10010	10	25	100	10		
IDHPN12012	12			12		
IDHPN16016	16	35	150	16		
IDHPN20020	20			20		

-訂購示例：IDHPN03090/030120
Ordering process:IDHPN03090/030120

Extra Micro Carbide Center Drills-60°

超微粒鎢鋼中心鑽-60度

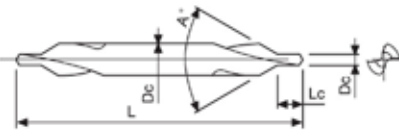
ITEM No. IDHU

- 說明：選用高品質鎢鋼及鍍層製作而成之中心鑽，具備良好精度
- Description: Center drill made of high quality carbide and with excellent precision.

-規格表DIMENSIONS(2*/2Flutes)

編號 No.	刃徑DC	刃長LC	總長L	柄徑d	刃數T	角度Angle
IDHU0103	1	1.5	50	3	2	60°
IDHU0205	2	3		5		
IDHU0256	2.5	3.8		6		
IDHU0308	3	4.8	60	8		
IDHU04010	4	6		10		
IDHU05012	5	7.5		75		

-訂購示例：IDHU0103
Ordering process:IDU0103



ITEM No. IDHQ

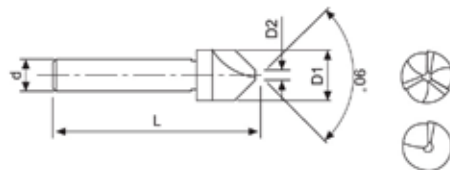
-規格表DIMENSIONS(1*/1Flutes)

編號 No.	刃徑D1	刃徑D2	刃長LC	總長L	柄徑d	刃數T
IDHQ0121	12	2.8	4.6	60	10	1
IDHQ0161	16	3.2	6.4	65		
IDHQ0201	20	3.5	8.25	70	12	
IDHQ0251	25	3.8	10.6	75		

-規格表DIMENSIONS(3*/3Flutes)

編號 No.	刃徑D1	刃徑D2	刃長LC	總長L	柄徑d	刃數T
IDHQ0123	12	2.8	4.6	60	10	3
IDHQ0163	16	3.2	6.4	65		
IDHQ0203	20	3.5	8.25	70	12	
IDHQ0253	25	3.8	10.6	75		

-訂購示例：IDHQ0121T/3T
Ordering process:IDHQ0121T/3T



MILLING PARAMETERS

Calculation Of Cutting Conditions

立銑刀切削條件計算公式

切削速度(周速) : V(m/min)
Velocity

$$V = \frac{\pi \times D \times N}{1000}$$

$\pi = 3.14$ (圓周率)
D=銑刀直徑(mm)
N=回轉速(r.p.m.)

$\pi = 3.14$ (the circular constant)
D=Outside Diameter
N=Spindle Speed

回轉速 : N(r.p.m.)
Spindle Speed

$$N = \frac{1000 \times V}{\pi \times D}$$

V=切削速度(m/min)
 $\pi = 3.14$ (圓周率)
D=銑刀直徑(mm)

V=Velocity
 $\pi = 3.14$ (the circular constant)
D=Outside Diameter

進給速度 : F(mm/min)
Feed

$$F = N \times Z \times Sz$$

N=回轉速(r.p.m.)
Z=刃數
Sz=每一刃的進刀量 (mm/刃)

N=Spindle Speed
Z=Number of flutes
Sz=Feed per tooth

每一刃的進刀量 : Sz(mm/刃)
Feed per tooth

$$Sz = \frac{F}{N \times Z}$$

F=進給速度(mm/min)
N=回轉數 (r.p.m.)
Z=刃數

F=Feed
N=Spindle Speed
Z=Number of flutes

AF Series-2Flutes

AFEMK/AFELK/AFELV/AFENK/AFENV

加工材質 WORKING MATERIAL	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		硬質鋼 HARDENED STEELS		不鏽鋼 STAINLESS STEEL		不鏽鋼 STAINLESS STEEL	
MATERIAL CODE	(45C,S50C,SCM)		(SCM,SKT,SKD)		(SCM,SKT,SKD)		(SKT,SKD)		(SUS304)		FC/FCF	
硬度HARDNESS	HRC20		HRC 25~35		HRC 35~45		HRC 45~50					
切削速度VC	68 M/min		54 M/min		45 M/min		27 M/min		54 M/min		79 M/min	
刀具尺寸(mm) TOOL DIAMETER	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)
1MM	20000	120	17100	100	14400	65	8000	50	17100	100	25200	270
2MM	10800	155	8640	120	7200	85	4320	65	8640	120	12600	290
3MM	7560	155	5760	135	4680	90	3000	65	5760	135	8640	290
4MM	5400	165	4320	135	3600	100	2160	65	4320	135	6480	290
5MM	4500	180	3420	135	2880	100	1800	75	3420	135	5040	325
6MM	3600	180	2880	135	2340	100	1440	75	2880	135	4320	360
8MM	2700	180	2160	155	1800	110	1080	75	2160	155	3240	360
10MM	2160	180	1710	155	1440	120	870	75	1710	155	2520	380
12MM	1800	180	1440	155	1200	120	720	75	1440	155	2160	400
14MM	1800	200	1360	170	1140	130	720	80	1360	170	2000	440
16MM	1560	220	2100	180	1000	140	630	90	2100	130	1800	480
18MM	1560	220	1060	180	880	140	630	90	1060	180	1600	480
20MM	1200	220	960	180	800	140	480	90	960	180	1400	480
切削量 Milling Amount (mm)	Ad=0.5D(D < 3.Ad <= 0.25D)						Ad=0.1D (D < 3.Ad <= 0.25D)			Ad=0.5D(D < 3.Ad <= 0.25D)		

以上數值為建議值，適當的切削條件仍視機械狀況、夾具、冷卻油使用...等等而改變

These are recommended values which depended on the condition of the machine, fixture, coolant etc. They may have to be adapted.

AF Series-4Flutes

AFEMK/AFELK/AFELV/AFENK/AFENV

加工材質 WORKING MATERIAL	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		硬質鋼 HARDENED STEELS		不鏽鋼 STAINLESS STEEL		不鏽鋼 STAINLESS STEEL	
MATERIAL CODE	(45C,S50C,SCM)		(SCM,SKT,SKD)		(SCM,SKT,SKD)		(SKT,SKD)		(SUS304)		FC/FCD	
硬度HARDNESS	HRC20		HRC 25~35		HRC 35~45		HRC 45~50					
切削速度VC	68 M/min		54 M/min		45 M/min		27 M/min		54 M/min		79 M/min	
刀具尺寸(mm) TOOL DIAMETER	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)
3MM	7560	490	5760	345	4680	165	3020	200	5760	345	8640	900
4MM	5400	490	4320	345	3600	165	2160	200	4320	345	6480	1080
5MM	4500	490	3420	345	2880	165	1800	200	3420	345	5040	1080
6MM	3600	490	2880	345	2340	165	1440	200	2880	345	4320	1080
8MM	2700	490	2160	345	1800	175	1080	200	2160	345	3240	1080
10MM	2160	505	1710	360	1440	175	860	210	1710	360	2520	1170
12MM	1800	505	1440	360	1200	175	720	210	1440	360	2160	1260
14MM	1800	560	1360	400	1140	190	720	230	1360	400	2000	1400
16MM	1560	600	1200	420	1000	200	620	240	1200	420	1800	1500
18MM	1400	600	1060	420	880	200	560	240	1060	420	1600	1500
20MM	1260	600	960	420	880	200	480	240	960	420	1600	1400
切削量 Milling Amount (mm)	Ad=1.5D Rd ≤ 0.1D								Ad=1.5D Rd ≤ 0.05D		Ad=1D Rd ≤ 0.1D	

AF Series-2Flutes

AFRMK

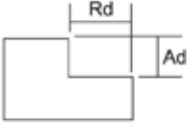
加工材質 WORKING MATERIAL	合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		硬質鋼 HARDENED STEELS		不鏽鋼 STAINLESS STEEL		不鏽鋼 STAINLESS STEEL	
MATERIAL CODE	(45C,S50C,SCM)		(SCM,SKT,SKD)		(SCM,SKT,SKD)		(SKT,SKD)		(SUS304)		FC/FCD	
硬度HARDNESS	HRC20		HRC 25~35		HRC 35~45		HRC 45~50					
切削速度VC	68 M/min		54 M/min		45 M/min		27 M/min		54 M/min		79 M/min	
刀具尺寸(mm) TOOL DIAMETER	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)
1MM	20000	120	17100	100	14400	65	8000	50	17100	100	25200	270
2MM	10800	155	8640	120	7200	85	4320	65	8640	120	12600	290
3MM	7560	155	5760	135	4680	90	3000	65	5760	135	8640	290
4MM	5400	165	4320	135	3600	100	2160	65	4320	135	6480	290
5MM	4500	180	3420	135	2880	100	1800	75	3420	135	5040	325
6MM	3600	180	2880	135	2340	100	1440	75	2880	135	4320	360
8MM	2700	180	2160	155	1800	110	1080	75	2160	155	3240	360
10MM	2160	180	1710	155	1440	120	870	75	1710	155	2520	380
12MM	1800	180	1440	155	1200	120	720	75	1440	155	2160	400
切削量 Milling Amount (mm)	Ad=0.5D(D < 3 Ad ≤ 0.25D)								Ad=0.1D (D < 3 Ad ≤ 0.05D)		Ad=0.5D (D < 3 Ad ≤ 0.25D)	

以上數值為建議值，適當的切削條件仍視機械狀況、夾具、冷卻油使用...等等而改變

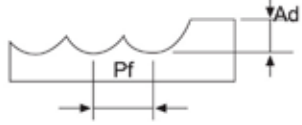
These are recommended values which depended on the condition of the machine, fixture, coolant etc. They may have to be adapted.

MILLING PARAMETERS

AF Series-4Flutes AFRMK/AFRNK

加工材質 WORKING MATERIAL	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		硬質鋼 HARDENED STEELS		不鏽鋼 STAINLESS STEEL		不鏽鋼 STAINLESS STEEL			
MATERIAL CODE	(45C,S50C,SCM)		(SCM,SKT,SKD)		(SCM,SKT,SKD)		(SKT,SKD)		(SUS304)		FC/FCD			
硬度HARDNESS	HRC<20		HRC 25~35		HRC 35~45		HRC 45~50							
切削速度VC	68 M/min		54 M/min		45 M/min		27 M/min		54 M/min		79 M/min			
刀具尺寸(mm) TOOL DIAMETER	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)		
3MM	7560	490	5760	345	4680	165	3020	200	5760	345	8640	900		
4MM	5400	490	4320	345	3600	165	2160	200	4320	345	6480	1080		
5MM	4500	490	3420	345	2880	165	1800	200	3420	345	5040	1080		
6MM	3600	490	2880	345	2340	165	1440	200	2880	345	4320	1080		
8MM	2700	490	2160	345	1800	175	1080	200	2160	345	3240	1080		
10MM	2160	505	1710	360	1440	175	860	210	1710	360	2520	1170		
12MM	1800	505	1440	360	1200	175	720	210	1440	360	2160	1260		
切削量 Milling Amount (mm)	Ad=1.5D Rd ≤ 0.1D								Ad=1.5D Rd ≤ 0.05D		Ad=1D Rd ≤ 0.1D			

AF Series AFBMG/AFBNG

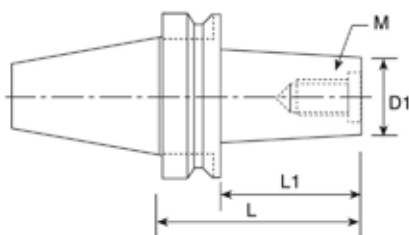
加工材質 WORKING MATERIAL	合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		合金鋼/工具鋼 ALLOY STEEL/ TOOL STEEL		硬質鋼 HARDENED STEELS		不鏽鋼 STAINLESS STEEL		不鏽鋼 STAINLESS STEEL	
MATERIAL CODE	(45C,S50C,SCM)		(SCM,SKT,SKD)		(SCM,SKT,SKD)		(SKT,SKD)		(SUS304)		FC/FCD	
硬度HARDNESS	HRC<20		HRC 20~30		HRC 30~40		HRC 40~50					
切削速度VC	68 M/min		54 M/min		45 M/min		27 M/min		54 M/min		79 M/min	
刀具尺寸(mm) TOOL DIAMETER	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)	R.P.M	FEED (mm/min)
0.5R	36000	450	32400	380	21600	290	14400	180	32400	380	45000	740
1.0R	20520	600	16200	490	11700	380	8200	240	16200	490	22860	900
2.0R	11520	720	8640	560	6300	435	4600	290	8640	560	11520	1030
3.0R	7560	900	5760	600	3780	450	3020	360	5760	600	7560	1260
4.0R	5760	900	4320	600	2880	450	2300	360	4320	600	5760	1260
5.0R	4590	900	3420	600	2160	450	1830	360	3420	600	4590	1260
6.0R	3780	900	2880	620	1800	470	1520	360	2880	620	3780	1350
8.0R	3200	1000	2400	680	1560	520	1280	400	2400	680	3200	1500
10.0R	2600	1000	1920	680	1300	520	1040	400	1920	680	2600	1500
切削量 Milling Amount (mm)	Ad=0.05D Pf=0.1D											

以上數值為建議值，適當的切削條件仍視機械狀況、夾具、冷卻油使用...等等而改變

These are recommended values which depended on the condition of the machine, fixture, coolant etc. They may have to be adpted.

BT40/BT50

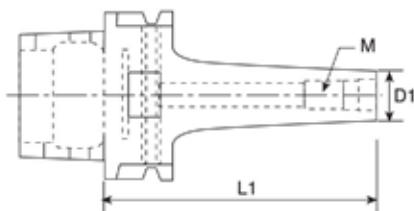
鎖牙式刀把



Model No.	M	D1	L1	L
BT40-AMD122-80	6	13	53	80
BT40-AMD122-100	6	13	73	100
BT40-AMD123-80	6	11	53	80
BT40-AMD162-80	8	13	53	80
BT40-AMD162-100	8	13	73	100
BT40-AMD202-80	10	18	53	80
BT40-AMD202-100	10	18	73	100
BT40-AMD253-80	12	21	53	80
BT40-AMD253-100	12	21	73	100
BT40-AMD354-80	16	33	53	80
BT40-AMD354-100	16	33	73	100
BT50-AMD122-100	8	13	62	100
BT50-AMD122-120	8	13	82	120
BT50-AMD162-100	8	13	62	100
BT50-AMD162-120	8	13	82	120
BT50-AMD202-100	10	18	62	100
BT50-AMD202-120	10	18	82	120
BT50-AMD253-100	12	21	62	100
BT50-AMD253-120	12	21	82	120
BT50-AMD354-100	16	33	62	100
BT50-AMD354-120	16	33	82	120

HSK40E/HSK50E

鎖牙式刀把

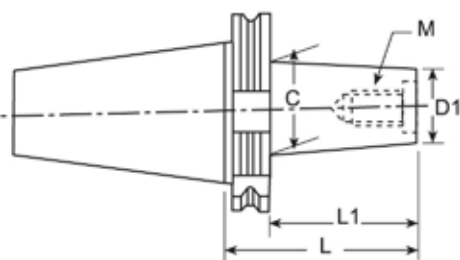


Model No.	M	D1	L1
HSK40E-AMD123-60	6	11	60
HSK40E-AMD122-60	8	13	60
HSK40E-AMD203-60	10	18	60
HSK50E-AMD123-60	6	11	60
HSK50E-AMD122-60	8	13	60
HSK50E-AMD203-60	10	18	60
HSK63A-AMD122-80	8	13	80
HSK63A-AMD122-100	8	13	100
HSK63A-AMD123-80	6	11	80
HSK63A-AMD162-80	8	13	80
HSK63A-AMD162-100	8	13	100
HSK63A-AMD202-80	10	18	80
HSK63A-AMD202-100	10	18	100
HSK63A-AMD253-80	12	21	80
HSK63A-AMD253-100	12	21	100
HSK63A-AMD354-80	16	29	80
HSK63A-AMD354-100	16	29	100

SK40/SK50-

DIN69871A

鎖牙式刀把

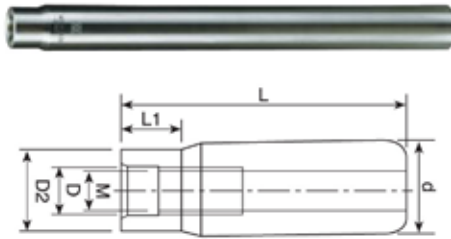


Model No.	M	D1	L1	L
SK40-AMD122-80	8	13	53	80
SK40-AMD122-100	8	13	73	100
SK40-AMD123-80	6	11	53	80
SK40-AMD162-80	8	13	53	80
SK40-AMD162-100	8	13	73	100
SK40-AMD202-80	10	18	53	80
SK40-AMD202-100	10	18	73	100
SK40-AMD253-80	12	21	53	80
SK40-AMD253-100	12	21	73	100
SK40-AMD354-80	16	29	53	80
SK40-AMD354-100	16	29	73	100
SK50-AMD122-100	8	13	62	100
SK50-AMD122-120	8	13	82	120
SK50-AMD162-100	8	13	62	100
SK50-AMD162-120	8	13	82	120
SK50-AMD202-100	10	18	62	100
SK50-AMD202-120	10	18	82	120
SK50-AMD253-100	12	21	62	100
SK50-AMD253-120	12	21	82	120
SK50-AMD354-100	16	29	62	100
SK50-AMD354-120	16	29	82	120

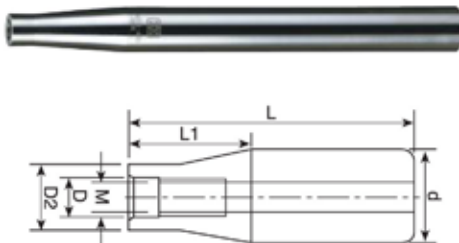
EXTENSION ADAPTER



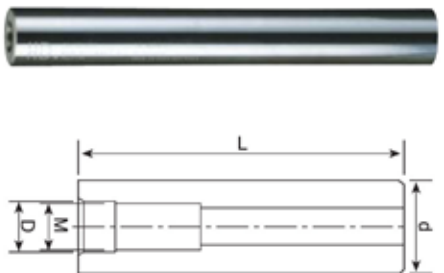
Extension Adapter 連接式刀桿



Extension Adapter 連接式刀桿



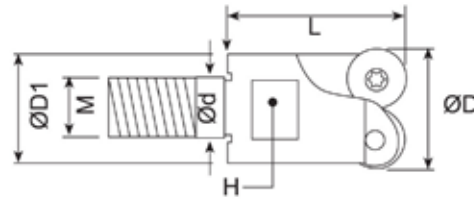
Extension Adapter 連接式刀桿



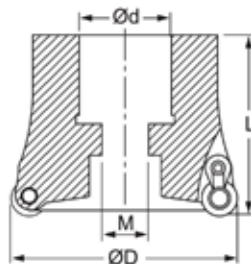
Carbide
錫鋼柄

Ordering code	Dimensions,mm					
	L	d	M	D	D2	L1
MD11-A12-120K	120	12	M6	6.5	11	10
MD14-A16-150K	150	16	M8	8.5	14	10
MD14-A16-200K	200					
MD18-A20-150K	150	20	M10	10.5	18	12
MD18-A20-250K	250					
MD23-A25-200K	200	25	M12	12.5	23	15
MD23-A25-300K	300					
MD29-A32-200K	200	32	M16	17	29	18
MD29-A32-350K	350					
MD11-A16-150K	150	16	M6	6.5	11	32
MD11-A16-200K	200					
MD14-A20-200K	200	20	M8	8.5	14	50
MD14-A20-250K	250					
MD18-A25-200K	200	25	M10	10.5	18	60
MD18-A25-250K	250					
MD23-A32-250K	250	32	M12	12.5	23	70
MD23-A32-350K	350					
MD29-A42-250K	250	42	M16	17	29	100
MD29-A42-350K	350					
HD06-060-M3	60	6	M3	3.5	6	--
HD06-120-M3	120					
HD08-060-M4	60	8	M4	4.5	8	
HD08-100-M4	100					
HD08-120-M4	120	10	M5	5.5	10	
HD10-075-M5	75					
HD10-100-M5	100					
HD10-150-M5	150					
HD12-100-M6	100	12	M6	6.5	12	
HD12-150-M5	150					
HD12-200-M6	200	16	M8	8.5	16	
HD16-100-M8	100					
HD16-150-M8	150					
HD16-200-M8	200					
HD20-100-M10	100	20	M10	10.5	20	
HD20-150-M10	150					
HD20-200-M10	200					
HD20-300-M10	300					
HD25-100-M12	100	25	M12	12.5	25	
HD25-150-M12	150					
HD25-200-M12	200					
HD25-300-M12	300					
HD32-150-M16	150	32	M16	17	32	
HD32-200-M16	200					
HD32-300-M16	300					
HD32-400-M16	400					

RD-Corner Rounding End Mills-圓刃銑刀把 RD-圓刃銑刀頭



Ordering code	Dimensions,mm				Teeth	Insert	Screw	Clamp	Screw	Wrench
	D	M	d	L						
RD051-D092-MD08	9	M4	4.5	15	2	RD..0501..	MS2004A	--	--	TF6
RD051-D102-MD10	10	M5	5.5	16	2					
RD051-D112-MD10	11	M5	5.5	18	2					
RD051-D122-MD11	12	M6	6.5	18	2		MS2005A	--	--	TF6
RD051-D123-MD11					3					
RD051-D132-MD11	13	M6	6.5	18	2					
RD051-D133-MD11					3					
RD051-D164-MD14	16	M8	8.5	23	4					
RD051-D174-MD14	17	M8	8.5	23	4					
RD072-D162-MD14	16	M8	8.5	23	2	RD..0702..	MS2506B	--	--	TF9
RD072-D172-MD14	17	M8	8.5	23	2					
RD072-D173-MD14					3					
RD072-D203-MD18	20	M10	10.5	30	3					
RD072-D213-MD18	21	M10	10.5	30	3					
RD072-D254-MD23	25	M12	12.5	35	4					
RD072-D255-MD23					5					
RD072-D264-MD23	26	M12	12.5	35	4					
RD072-D265-MD23					5					
RD072-D355-MD29	35	M16	17	43	5					
RD072-D356-MD29					6					
RD103-D202-MD18	20	M10	10.5	30	2	RD..1003..	MS3507A	--	--	TF15
RD103-D212-MD18	21									
RD103-D253-MD23	25	M12	12.5	35	3					
RD103-D263-MD23	26									
RD103-D353-MD29	35	M16	17	43	3	RD..1003..	MS3507A	MC35141	MS3509A	TF15
RD103-D354-MD29					4					

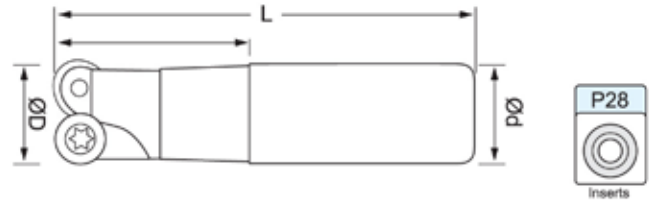


Ordering code	Dimensions,mm				Teeth	Insert	Screw	Clamp	Screw	Wrench
	D	M	d	L						
RD103-D504-22.0	50	11	22.0	40	4	RD..1003..	MS3509B	MC35141	MS3509A	TF15
RD103-D505-22.0	50				5					
RD103-D635-25.4	63	13	25.4	50	5					
RD103-D636-25.4	63				6					

Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	d	L	M				
TR103-D504-22.0	50	22.0	40	11	4	RD..1003..	MS3509A	TF15
TR103-D505-22.0	50	22.0	40	11	5			
TR103-D635-25.4	63	25.4	50	13	5	(SAFETY)		
TR103-D636-25.4	63	25.4	50	13	6			
TR103-D666-25.4	63	25.4	50	13	6			
TR103-D666-27.0	63	27.0	50	13	6			

RD-CORNER ROUNDING END MILLS

RD-Corner Rounding End Mills-圓刃銑刀把 RD-圓刃銑刀頭



Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
RD051-D092-S08-100	9	100	8	12	2	RD..0501..	MS2004A	TF6
RD051-D102-S10-100	10	100	10	18	2			
RD051-D112-S10-100	11	100	10	15	2			
RD051-D122-S12-100	12	100	12	22	2			
RD051-D123-S12-100	12	100	12	22	3			
RD051-D132-S12-100	13	100	12	18	2			
RD051-D133-S12-100	13	100	12	18	3			
RD051-D164-S16-150	16	150	16	30	4			
RD051-D164-S16-200	16	200	16	30	4			
RD051-D174-S16-150	17	150	16	20	4			
RD051-D174-S16-200	17	200	16	20	4			
RD072-D162-S16-150	16	150	16	35	2	RD..0702..	MS2506A	TF9
RD072-D162-S16-200	16	200	16	35	2			
RD072-D172-S16-150	17	150	16	20	2			
RD072-D172-S16-200	17	200	16	20	2			
RD072-D203-S20-150	20	150	20	35	3			
RD072-D203-S20-200	20	200	20	35	3			
RD072-D213-S20-150	21	150	20	25	3			
RD072-D213-S20-200	21	200	20	25	3			
RD072-D254-S25-150	25	150	25	40	4			
RD072-D254-S25-200	25	200	25	40	4			
RD072-D254-S25-250	25	250	25	40	4			
RD072-D254-S25-300	25	300	25	40	4			
RD072-D255-S25-150	25	150	25	40	5			
RD072-D255-S25-200	25	200	25	40	5			
RD072-D255-S25-250	25	250	25	40	5			
RD072-D255-S25-300	25	300	25	40	5			
RD072-D264-S25-150	26	150	25	25	4			
RD072-D264-S25-200	26	200	25	25	4			
RD072-D264-S25-250	26	250	25	25	4			
RD072-D264-S25-300	26	300	25	25	4			
RD072-D265-S25-150	26	150	25	25	5			
RD072-D265-S25-200	26	200	25	25	5			
RD072-D265-S25-250	26	250	25	25	5			
RD072-D265-S25-300	26	300	25	25	5			

ⓘ Safety Inserts recommended.

RD-Corner Rounding End Mills-圓刃銑刀把 RD-圓刃銑刀頭



Ordering code	Dimensions,mm				Teeth	Insert	Screw	Clamp	Screw	Wrench
	D	L	d	L						
RD103-D202-S20-150	20	150	20	40	2	RD..1003..	MS3507A	--	--	TF15
RD103-D202-S20-200	20	200	20	40	2					
RD103-D212-S20-150	21	150	20	25	2					
RD103-D212-S20-200	21	200	20	25	2					
RD103-D253-S25-150	25	150	25	40	3	RD..1003..	MS3509B	--	--	TF15
RD103-D253-S25-200	25	200	25	40	3					
RD103-D253-S25-250	25	250	25	40	3					
RD103-D263-S25-150	26	150	25	25	3					
RD103-D263-S25-200	26	200	25	25	3					
RD103-D263-S25-250	26	250	25	25	3					
RD103-D263-S25-300	26	300	25	25	3					
RD103-D303-S25-150	30	150	25	26	3					
RD103-D303-S25-200	30	200	25	26	3					
RD103-D303-S25-250	30	250	25	26	3					
RD103-D354-S32-150	35	150	32	40	4	RD..1003..	MS3509B	MC35141	MS3509A	TF15
RD103-D354-S32-200	35	200	32	40	4					
RD103-D354-S32-250	35	250	32	40	4					
RD103-D354-S32-300	35	300	32	40	4					

⚠ Safety Inserts recommended.

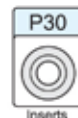
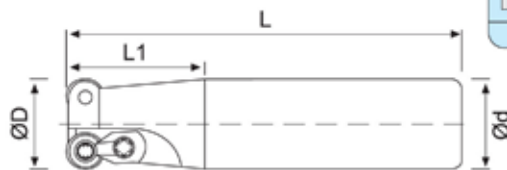
Inserts for Corner Rounding End Mills-刀片 刀片



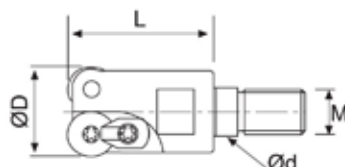
Ordering code	Ordering code	Grade 5020	Dimensions,mm			
			lc	s	d1	d2
	RDHW 0501 MO EN-91	*	5.0	1.50	2.2	
	RDMW 0702 MO EN-91	*	7.0	2.38	2.8	3.8
	RDMW 1003 MO EN	*	10.0	3.18	4.4	6.2

HAR-CORNER ROUNDING END MILLS

HAR-Corner Rounding End Mills-圓刃銑刀 HAR-圓刃銑刀



Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench	Screw	Clamp	Wrench
	D	L	d	L1							
C12-4R12-130	12	130	12	30	1	RD..0802..	MS3006B	TF9	MS3509A	MC35-141	TF15
C16-4R16-150	16	150	16	35	1						
C16-4R16-200		200									
C16-4R17-150	17	150	16	25	2	RD..0802..	MS3006B	TF9	--	--	--
C20-4R20-150	20	150	20	40	2	RD..0802..	MS3008B	TF9	MS3509A	MC35-141	TF15
C20-4R20-200		200									
C20-4R20-250		250									
C20-4R21-150	21	150	20	25	2	RD..0802..	MS3008B	TF9	MS3509A	MC35-141	TF15
C20-4R21-200		200									
C25-5R25-150	25	150	25	45	2	RD..10T3..	MS4009B	TF15	MS3509A	MC35-141	TF15
C25-5R25-200		200									
C25-5R25-250		250									
C25-5R25-300		300									
C25-5R26-150	26	150	25	30	2	RD..10T3..	MS4009B	TF15	MS3509A	MC35-141	TF15
C25-5R26-200		200									
C25-5R26-250		250									
C25-5R26-300	300										
C25-5R302-150	30	150	25	35	2						
C25-5R302-200		200									
C25-5R302-250		250									
C25-5R303-150	30	150	25	35	3						
C25-5R303-200		200									
C25-5R303-250		250									
C32-5R32-150	32	150	32	45	3						
C32-5R32-200		200									
C32-5R32-250		250									
C32-5R32-300		300									
C32-5R35-150	35	150	32	50	3						
C32-5R35-200		200									
C32-5R35-250		250									
C32-5R35-300		300									
C32-5R35-350		350									
C32-5R35-400	400										
C32-5R40-150	40	150	32	50	3						
C32-5R40-200		200									
C32-5R40-250		250									
C32-5R40-300		300									
C32-5R40-350		350									

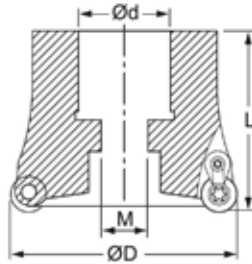


Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench	Screw	Clamp	Wrench
	D	M	d	L							
HAR08-162-MD14	16	M8	8.5	23	2	RD..0802..	MS3006B	TF9	--	--	--
HAR08-172-MD14	17										
HAR08-202-MD18	20	M10	10.5	30				MS3509A	MC35-41	TF15	
HAR08-212-MD18	21										
HAR10-252-MD23	25	M12	12.5	35	2	RD..10T3..	MS4009B	TF15	MS3509A	MC35-141	TF15
HAR10-262-MD23	26										
HAR10-302-MD29	30	M16	17	43	2						
HAR10-323-MD29	32	M16	17	43	3						
HAR10-353-MD29	35										

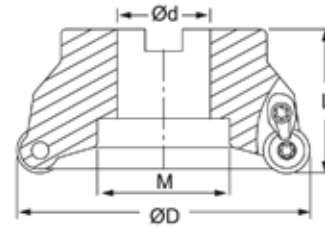
HAR-Corner Rounding End Mills-圓刃銑刀 HAR-圓刃銑刀



Ø50/Ø63/Ø66/Ø80



Ø100



Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench	Clamp	Screw	Wrench
	D	d	L	M							
RM-5R504-22.0	50	22.0	50	11	4	RD..10T3..	MS4009B	TF15	MC35-141	MS3509A	TF15
RM-5R504-25.4		25.4	50	13							
RM-5R635-25.4		63	25.4	50							
RM-6R504-22.0	50	22.0	50	11	4	RD..1204..	MS4011A	TF15	MC35-141	MS3509A	TF15
RM-6R504-25.4		25.4	50	13							
RM-6R635-25.4		63	25.4	50							
RM-6R665-25.4	66	25.4	50	13	5	RD..1604..	MS5011A	TF20	MC50-147	MS5011A	TF20
RM-6R806-25.4	80	25.4	50	13	6						
RM-6R805-27.0		27.0	50	13	5						
RM-6R806-27.0	80	27.0	50	13	6	RD..1604..	MS5011A	TF20	MC50-147	MS5011A	TF20
RM-8R633-25.4	63	25.4	50	13	3						
RM-8R634-25.4		25.4	50	13	4						
RM-8R635-25.4		25.4	50	13	5						
RM-8R635-27.0	63	27.0	50	13	5	RD..1604..	MS5011A	TF20	MC50-147	MS5011A	TF20
RM-8R664-25.4	66	25.4	50	13	4						
RM-8R665-25.4		25.4	50	13	5						
RM-8R664-27.0		27.0	50	13	4						
RM-8R805-25.4	80	25.4	55	13	5	RD..1604..	MS5011A	TF20	MC50-147	MS5011A	TF20
RM-8R805-27.0		27.0	55	13	5						
RM-8R806-27.0		27.0	55	13	5						
RM-8R1006-31.75	100	31.75	60	45	6						

① Hitachi inserts recommended.

Inserts For Corner Rounding End Mills 刀片



Ordering code	GRADE 材質 CY250	Insert Shape	Dimensions,mm		
			lc	S	d1
RDMT0802MOTN	•		8.0	2.38	3.4
RDMT10T3MOTN	•		10.0	3.97	4.5
RDMX1204MOTN	•		12.0	4.76	4.5
RDMX1604MOTN	•		16.0	4.76	5.5

WGR-BALL PRECISION CUTTERS

WGR-Ball Precision Cutters

球型精銑刀

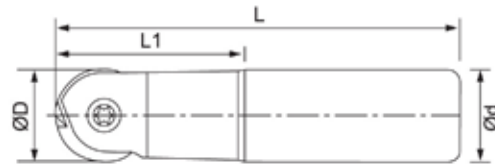
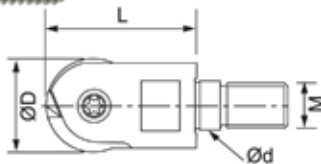


FIG-1 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
WGR08-S08-100	8	100	8	20	1	P3201-D08	MGR3008	TF8
WGR08-S10-100		100	10	35				
WGR10-S10-100	10	100	10	25	1	P3201-D10	MGR4010	TF15
WGR10-S12-150		150	12	36				
WGR12-S12-150	12	150	12	32	1	P3201-D12	MGR5012	TF20
WGR12-S16-200		200	16	58				
WGR16-S16-150	16	150	16	36	1	P3201-D16	MGR5016	TF20
WGR16-S16-200		200						
WGR16-S20-200		200	20	65				
WGR16-S20-250		250						
WGR20-S20-150	20	150	20	45	1	P3201-D20	MGR5020	TF20
WGR20-S20-200		200						
WGR20-S25-200		200	25	76				
WGR20-S25-250		250						
WGR25-S25-200	25	200	25	45	1	P3201-D25	MGR6025	TF30
WGR25-S25-250		250						
WGR25-S32-200		200	32	98				
WGR25-S32-250		250						
WGR25-S32-300		300						
WGR30-S32-200	30	200	32	50	1	P3201-D30	MGR8030	TF30
WGR30-S32-250		250						
WGR30-S32-300		300						

FIG-2 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	M	d	L				
WGR08-MD08	8	M4	8.5	16	1	P3201-D08	MGR3008	TF8
WGR10-MD10	10	M5	8.5	20	1	P3201-D10	MGR4010	TF15
WGR12-MD11	12	M6	8.5	22	1	P3201-D12	MGR5012	TF20
WGR12-MD14		M8	8.5	30	1			
WGR16-MD14	16	M8	8.5	28	1	P3201-D16	MGR5016	TF20
WGR20-MD18	20	M10	10.5	30	1	P3201-D20	MGR5020	TF20
WGR25-MD23	25	M12	12.5	40	1	P3201-D25	MGR6025	TF30
WGR30-MD29	30	M16	17.0	43	1	P3201-D30	MGR8030	TF30

Inserts For Ball Precision Cutters

刀片

Ordering code	GRADE 材質 CY250	Insert Shape	Dimensions,mm			
			D +0-0.03	S	d1	L
P3201-D08			8	2.0	3	9.5
P3201-D10			10	2.5	4	11.5
P3201-D12	•		12	2.5	5	12
P3201-D16	•		16	3.0	5	14
P3201-D20	•		20	3.0	5	16
P3201-D25	•		25	4.0	6	21.5
P3201-D30			30	5.0	8	25.5
P3201-D32			32	5.0	8	26.5

① Walter inserts recommended.

AQX-Boring & Milling Cutters AQX-鑽銑刀

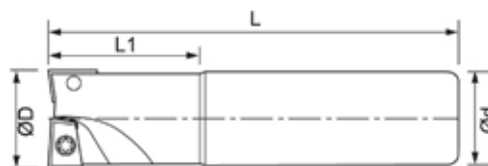


FIG-1 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
AQXR162-S16-150	16	150	16	30	2	QOG/MT0830R-G1/M2	MS2206A	TF7
AQXR162-S16-200		200						
AQXR172-S16-150	17	150	16	26	2			
AQXR172-S16-200		200						
AQXR202-S20-150	20	150	20	35	2	QOG/MT1035R-G1/M2	MS2506A	TF9
AQXR202-S20-200		200						
AQXR212-S20-150	21	150	20	32	2			
AQXR212-S20-200		200						
AQXR252-S25-150	25	150	25	40	2	QOG/MT1342R-G1/M2	MS3008A	TF9
AQXR252-S25-200		200						
AQXR262-S25-150	26	150	25	38	2			
AQXR262-S25-200		200						
AQXR322-S32-150	32	150	32	45	2	QOG/MT1651R-G1/M2	MS4011A	TF15
AQXR322-S32-200		200						
AQXR332-S32-150	23	150	32	38	2			
AQXR332-S32-200		200						
AQXR332-S32-250		250						
AQXR332-S32-300		300						
AQXR332-S32-350		350						

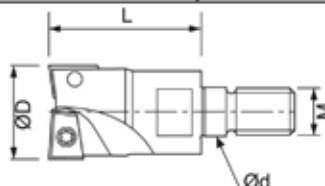


FIG-2 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	M	d	L				
AQXR162-MD14	16	M8	8.5	25	2	QOG/MT0830R-G1/M2	MS2206A	TF7
AQXR172-MD14	17							
AQXR202-MD18	20	M10	10.5	32	2	QOG/MT1035R-G1/M2	MS2506A	TF9
AQXR212-MD18	21							
AQXR252-MD23	25	M12	12.5	35	2	QOG/MT1342R-G1/M2	MS3008A	TF9
AQXR262-MD23	26							
AQXR322-MD29	32	M16	17	43	2	QOG/MT1651R-G1/M2	MS4011A	TF15
AQXR332-MD29	33							

Inserts For Boring & Milling Cutter 刀片

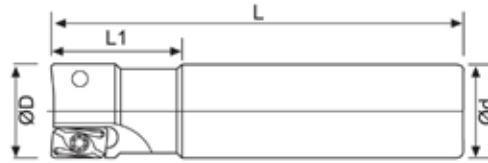
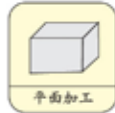


Ordering code	GRADE 材質		Insert Shape	Dimensions,mm			
	CY250	HT110		A	B	S	r
QOMT0803R-M2	•			8.4	5.5	3	0.8
QOMT1035R-M2	•			10.6	7	3.5	0.8
QOMT1342R-M2	•			13.1	8.7	4.2	0.8
QOMT1651R-M2	•			16.5	11	5.1	0.8
QOMT0803R-G1	•	•		8.4	5.5	3	0.8
QOMT1035R-G1	•	•		10.6	7	3.5	0.8
QOMT1342R-G1	•	•		13.1	8.7	4.2	0.8
QOMT1651R-G1	•	•		16.5	11	5.1	0.8

ⓘ Mitsubishi inserts recommended.

BAP-SHOULDER/CUTTING END MILLS

BAP-Shoulder/Cutting End Mills BAP-直角端銑刀



Ordering code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench
	D	L	d	L1				
BAP3-162-S16-100	16	100	16	28	2	APMT1135.....	MS2506A	TF9
BAP3-162-S16-150		150						
BAP3-172-S16-150	17	150	16	20	2			
BAP3-172-S16-200		200						
BAP3-182-S20-100	18	100	20	28	2			
BAP3-182-S20-150		150						
BAP3-202-S20-100	20	100	20	28	2			
BAP3-202-S20-150		150						
BAP3-212-S20-150	21	150	20	25	2			
BAP3-212-S20-200		200						
BAP3-243-S20-125	24	125	25	35	3			
BAP3-253-S25-150	25	150	25	35	3			
BAP3-253-S25-200		200						
BAP3-254-S25-150		150	25	35	4			
BAP3-254-S25-200		200						
BAP3-263-S25-150	26	150	25	35	4			
BAP3-263-S25-200		200						
BAP3-324-S32-150	32	150	32	35	4			
BAP3-324-S32-200		200						
BAP4-252-S25-125	25	125	25	40	2	APMT1604.....	MS4009A	TF15
BAP4-252-S25-150		150						
BAP4-252-S25-200		200						
BAP4-322-S32-150	32	150	32	45	2	MS4011A		
BAP4-322-S32-200		200						
BAP4-323-S32-150		150	32	45	3			
BAP4-323-S32-200		200						

① Mitsubishi inserts recommended.

BAP-Shoulder/Cutting End Mills BAP-直角端銑刀頭



FIG1

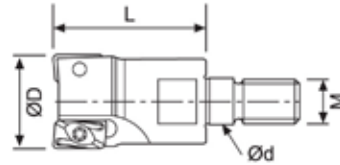


FIG-1 Ordering code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench
	D	M	d	L				
BAP3-162-MD14	16	M8	8.5	25	2	APMT1135.....	MS2506A	TF9
BAP3-172-MD14	17							
BAP3-202-MD18	20	M10	10.5	30	2			
BAP3-212-MD18	21							
BAP3-253-MD23	25	M12	12.5	35	3			
BAP3-263-MD23	26							



FIG2

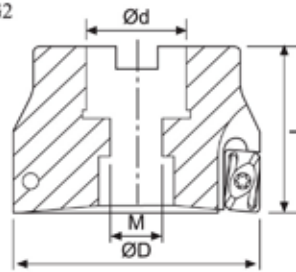


FIG-2 Ordering code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench
	D	d	L	M				
BAP4-504-22.0	50	22.0	50	10	4	APMT1604.....	MS4011A	TF15
BAP4-504-25.4		25.4	50	13				
BAP4-635-25.4	63	25.4	50	13	5			
BAP4-665-25.4	66	25.4	50	13	5			
BAP4-806-25.4	80	25.4	60	13	6			
BAP4-1008-31.75	100	31.75	50	45	8			

① Mitsubishi inserts recommended.

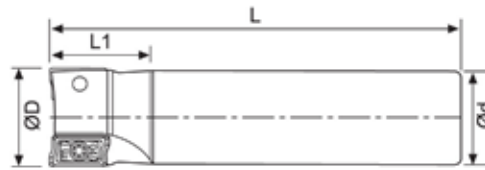
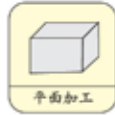
Inserts For Shoulder / Cutter End Mills 刀片



Ordering code	GRADE 材質			Insert Shape 	Dimensions,mm				
	F620	VP15TF	HTI10		A	B	S	d1	r
APMT1135PDER-H2	•				11	6.35	3.5	2.85	0.8
APMT1604PDER-H2	•				16.5	9.525	4.76	4.4	
APMT1135PDER-M2		•			11	6.35	3.5	2.85	0.8
APMT1604PDER-M2		•			16.5	9.525	4.76	4.4	
APMT1135PDER-G2			•		11	6.35	3.5	2.85	0.8
APMT1604PDER-G2			•		16.5	9.525	4.76	4.4	

APM-SHOULDER/CUTTING END MILLS

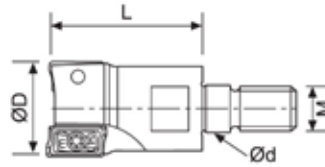
APM-Shoulder/Cutting End Mills APM-直角端銑刀



Ordering code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench
	D	L	d	L1				
APM162-S16-150	16	150	16	28	2	AOMT1236.....	MS2506B	TF9
APM162-S16-200		200						
APM172-S16-150	17	150	16	20	2			
APM172-S16-200		200						
APM182-S20-150	18	150	20	25	2			
APM182-S20-200		200						
APM192-S20-150	19	150	20	25	2			
APM192-S20-200		200						
APM202-S20-150	20	150	20	30	2			
APM202-S20-200		200						
APM212-S20-150	21	150	20	20	2			
APM212-S20-200		200						
APM222-S20-150	22	150	20	30	2			
APM222-S20-200		200						
APM232-S25-150	23	150	25	30	2			
APM232-S25-200		200						
APM243-S25-150	24	150	25	35	3			
APM243-S25-200		200						
APM253-S25-150	25	150	25	35	3			
APM253-S25-200		200						
APM263-S25-150	26	150	25	25	3			
APM263-S25-200		200						
APM324-S32-150	32	150	32	40	2			
APM324-S32-200		200						
APM334-S32-150	33	150	32	32	4			
APM334-S32-200		200						
APM354-S32-150	35	150	32	32	4			
APM354-S32-200		200						

① Mitsubishi inserts recommended.

APM-Shoulder/Cutting End Mills APM-直角端銑刀



Ordering code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench
	D	M	d	L				
APM162-MD14	16	M8	8.5	25	2	AOMT-1236..	MS2506B	TF9
APM172-MD14	17							
APM202-MD18	20	M10	10.5	30	2			
APM212-MD18	21							
APM253-MD23	25	M12	12.5	35	3			
APM263-MD23	26							
APM323-MD29	32	M16	17	43	3			
APM324-MD29					4			
APM333-MD29	33				3			
APM334-MD29					4			
APM353-MD29	35				3			
APM354-MD29					4			

① Mitsubishi inserts recommended.

Inserts For Shoulder / Cutting End Mills 刀片



Ordering code	GRADE 材質 VP15TF	Insert Shape	Dimensions,mm			
			A	B	S	r
AOMT123604PEER-M	•		12	6.6	3.6	4.0

T-SLOT END MILLING CUTTER

T-Slot End Milling Cutter T型銑刀

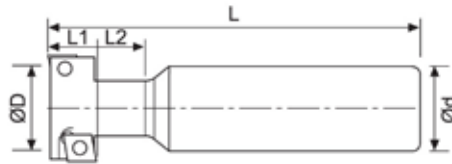
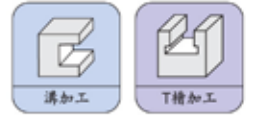


Fig-1 Ordering code	Dimensions,mm						Teeth	Insert	Screw	Wrench
	D	d	d1	L	L1	L2				
CCT11-D25-S20-90	25	20	12.5	90	11	17	4	CCMT060204.	MS2506A	TF9
CCT14-D32-S25-100	32	25	16	100	14	22		CCMT080304.	MS3008A	TF9
CCT18-D40-S25-110	40	25	20	110	18	27		CCMT9T308	MS4011A	TF15
CCT22-D50-S32-120	50	32	26	120	22	34		CCMT120408	MS5011A	TF20

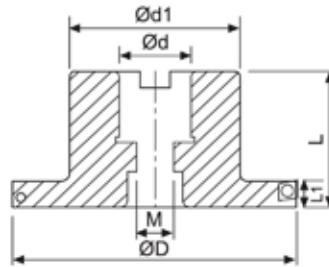


Fig-2 Ordering code	Dimensions,mm						Teeth	Insert	Screw	Wrench
	D	d	d1	L	L1	M				
CCT08-10008-25.4	100	25.4	60	50	8	13	8	CCMT060204.	MS2506A	TF9

① Suitable:ISO Inserts

Inserts For T-Slot End Milling Cutter 刀片



Ordering code	GRADE 材質		Insert Shap	Dimensions,mm		
	VP15TF	HTI10		A	S	r
CCMT060204	●			6.35	2.38	0.4
CCMT080304	○			7.94	3.18	0.4
CCMT09T308	○			9.525	3.97	0.8
CCMT120408	○			12.7	4.76	0.8

CHAMFER Mills

倒角刀

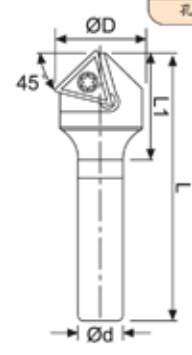
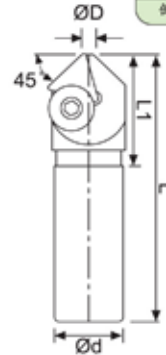
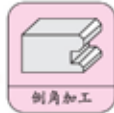
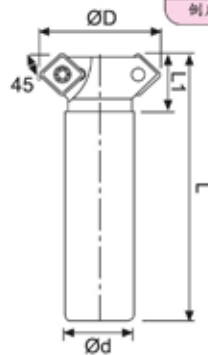


Fig-1 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
C20-VMSP22-120	22	120	20	25	1	SP..0930.....	MS4011A	TF15
C16-VMSP26.5-120	26.5	120	16	17	2			
C20-VMSP35-120	35	120	20	17	2			

Fig-2 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
C20-TPR90-120	4	120	20	35	1	TP..1603.....	MSR63	PL4

Fig-3 Ordering code	Dimensions,mm				Teeth	Insert	Screw	Wrench
	D	L	d	L1				
C12-TCR90-22-120	25	120	12	30	1	TC..16T3.....	MS4011A	TF15

① Suitable:ISO Inserts

Inserts For Chamfer Mills

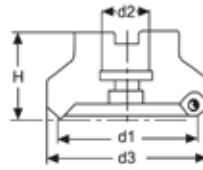
刀片

Ordering code	GRADE 材質			Insert Shape	Dimensions,mm			
	GM25	UT120T	SJN01		lc	S	r	d1
SPMT090304-JE	•				9.525	3.18	0.4	4.4
SPMT090308-JE	•				9.525	3.18	0.8	4.4
TPMN160308		•			9.525	3.18	0.8	--
TCGT16T304SR31			•		9.525	3.97	0.4	4.4


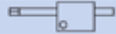
45° SHELL MILL CUTTER



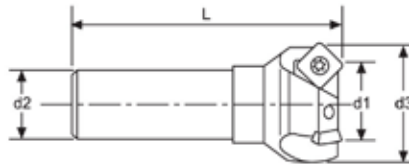
45° Shell Mill Cutter 45°-殼型銑刀盤


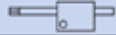


(Unit: mm)

Ordering code	Insert	Dimensions,mm				Teeth	Parts	
		d1	d2	d3	H			
50A-SE4R45-4T		50	22/25.4	60	45	4		
63A-SE4R45-4T		63	22/25.4	73	45	5		
80B-SE4R45-6T		80	25.4/27	90	50	6		
100B-SE4R45-6T	SEHW1204AFN	100	31.75/32	110	50	6	M4.5x0.75	FT-20
125B-SE4R45-7/8/9T		125	38.1/40	135	63	7/8/9		
160C-SE4R45-10T	SEHT1204AFN	160	50.8/40	170	63	10		
200C-SE4R45-12T		200	60/47.625	210	63	12		
250C-SE4R45-14T		250	60/47.625	260	63	14		

45° Shell Milling Cutters(W) Shank 45°-帶柄式殼型銑刀




Ordering code	Insert	Dimensions,mm				Teeth	Parts	
		d1	d2	d3	L			
30D-25SE12-45-3T		30	25	40	115	3	M4.5x0.75	FT-20
40D-32SE12-45-3T	SEHW1204AFN	40	32	50	115	3		
50D-32SE12-45-3T	SEHT1204AFN	50	32	60	120	3		
63D-32SE12-45-3T		63	32	73	120	5		

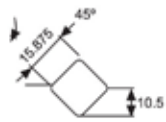
① Suitable:ISO Inserts

Inserts For Shell Milling Cutter 刀片

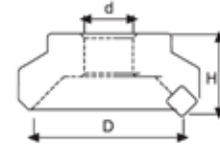


Ordering code	Insert Shape	Dimensions,mm			
		d	i	s	r
SEHW1204AFN					
SEHT1204AFN		12.7	12.7	4.76	-

45° Face Milling Cutter SE545-45°-平面銑刀



For indexable inserts SE 1504

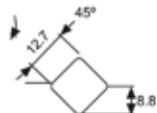


(Unit: mm)

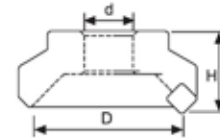
Model No.	D	H	d(mm)	d(inch)	Teeth
SE545R0304	80	50	27	25.4(1")	4
SE545R0405	100	55	32	31.75(1-1/4")	5
SE545R0506	125	55	40	38.1(1-1/2")	6
SE545R0608	160	60	40	50.8(2")	8
SE545R0810	200	60	60	47.625(1-7/8")	10
SE545R1012	250	65	60	47.625(1-7/8")	12
SE545R1214	315	65	60	47.625(1-7/8")	14
SE545R1416	360	65	60	47.625(1-7/8")	16
SE545R0407	100	55	32	31.75(1-1/4")	7
SE545R0509	125	55	40	38.1(1-1/2")	9
SE545R0611	160	60	40	50.8(2")	11
SE545R0814	200	60	60	47.625(1-7/8")	14
SE545R1018	250	65	60	47.625(1-7/8")	18
SE545R1222	315	65	60	47.625(1-7/8")	22
SE545R1426	360	65	60	47.625(1-7/8")	26

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
SEL60-10	CP50-7	CS70-1	CS70-2S	CS70-3	TW040

45° Face Milling Cutter SE445-45°-平面銑刀



For indexable inserts SE 1203



(Unit: mm)

Model No.	D	H	d(mm)	d(inch)	Teeth
SE445R/L5004S	50	40	22	-	4
SE445R/L6304	63	50	27	25.4(1")	4
SE445R/L0304	80	50	27	25.4(1")	4
SE445R/L0405	100	55	32	31.75(1-1/4")	5
SE445R/L0506	125	55	40	38.1(1-1/2")	6
SE445R/L0608	160	60	40	50.8(2")	8
SE445R/L0810	200	60	60	47.625(1-7/8")	10
SE445R/L1012	250	63	60	47.625(1-7/8")	12
SE445R/L1214	305	63	60	47.625(1-7/8")	14
SE445R/L1416	356	63	60	47.625(1-7/8")	16
SE445R/L0306	80	50	27	25.4(1")	6
SE445R/L0407	100	55	32	31.75(1-1/4")	7
SE445R/L0509	125	55	40	38.1(1-1/2")	9
SE445R/L0611	160	60	40	50.8(2")	11
SE445R/L0814	200	60	60	47.625(1-7/8")	14
SE445R/L1018	250	63	60	47.625(1-7/8")	18
SE445R/L1222	305	63	60	47.625(1-7/8")	22
SE445R/L1426	356	63	60	47.625(1-7/8")	26

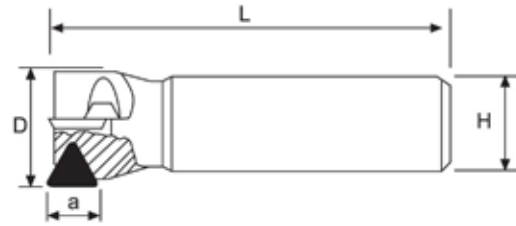
Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench	FOR: SE445R/L 5004S	
SEL60-11 (R)	CP50-7 (R)	CS70-1	CS70-2S	CS70-3	TW040	Shim	Shim Screw
SEL60-11L (L)	CP50-7L (L)	CS70-1	CS70-2S	CS70-3	TW040	SMS-42	CS-F4009

ISO Inserts



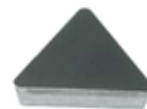
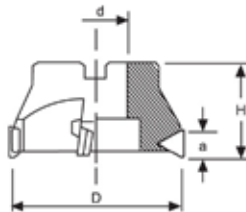
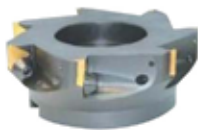
Ordering code	Insert Shape	Dimensions,mm	
		d	s
SEEN1504		15.875	4.76
SEEN1203		12.7	3.2

90° TPR SHOULDER END MILL



Model No.	D	d	L	Teeth	Insert	Screw	Wrench
TPR-1616x110	16	16	110	1	TPMN110308	SCR-W3/16	WRN-M3L
TPR-2020x110	20	20	110	2			
TPR-2525x110	25	25	110	2			
TPR-3025x130	30	25	130	2	TPMN160308	SCR-W1/4	WRN-M4L
TPR-3232x150	32	25	150	2			
TPR-3525x130	35	25	130	2			
TPR-3532x150	35	32	150	2			
TPR-4025x130	40	25	150	3			
TPR-4032x150	40	32	150	3			
TPR-4525x130	45	25	130	3			
TPR-4532x150	45	32	150	3			
TPR-5025x130	50	25	130	3			
TPR-5032x150	50	32	150	3			
TPR-6332x150	63	32	150	4	TPMN2204 TPKN2204PPR	SCR-W5/16	WRE-M5L
TPR22-5032x150	50	32	150	3			
TPR22-5042x150	50	42	150	3			
TPR22-6332x150	63	32	150	3			
TPR22-6342x150	63	42	150	3			

TPR90°-平面銑刀盤



(Unit: mm)

Model No.	D	d	H	刀片數	刀片長度
TPR-63x22	63	22	50	3	22
TPR-63x25.4	63	25.4	50	3	
TPR-63+△x22	63	22	50	3	
TPR-63+△x25.4	63	25.4	50	3	
TPR-03	80	25.4	55	4	
TPR-04	100	31.75	60	5	
TPR-05	125	38.1	60	6	
TPR-06	160	50.8	60	7	
TPR-08	200	47.625	65	8	
TPR-10	250	47.625	65	9	

Replacement Parts 替換零件

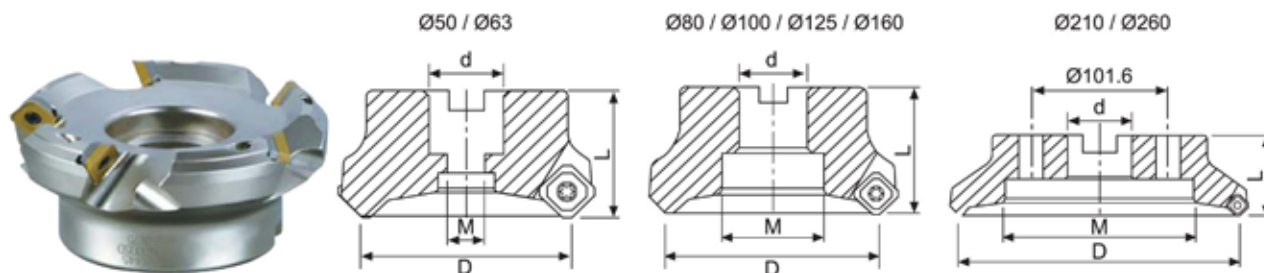
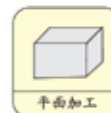
Y-TPR5	Y-TPR1	Y-TPR2	YA-L5

Suitable Insert 使用刀片規格

TPM110308		d	s
TPM160308		-	-
TPMN2204...or		16.5	3.18
TPKN2204.. PPR		22.0	4.76

Ⓢ Suitable:ISO Inserts

ASX45°-面銑刀

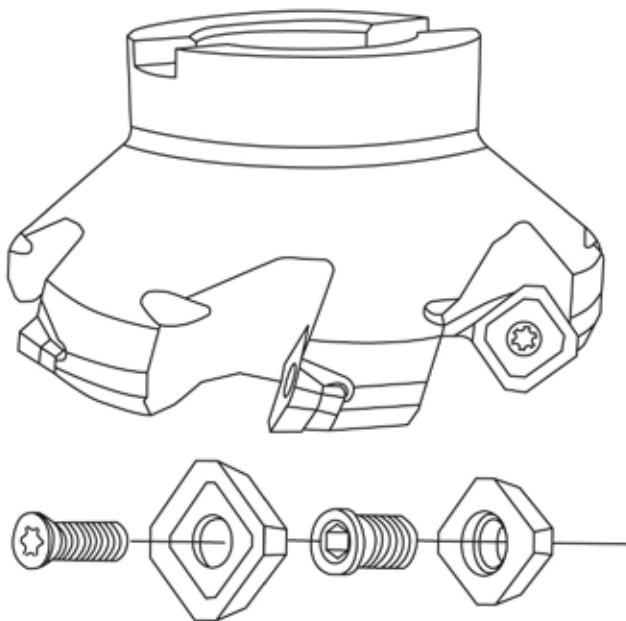


Ordering code		Dimensions,mm				Teeth	Insert
Right hand	Left hand	D	d	L	M		
ASX445-050A03R-22.0	ASX445-050A03L-22.0	50	22.0	40	11	3	SE..13T3.. WE..13T3..
-063A04R-22.0	-063A04L-22.0	63	22.0	40	11		
R05003C-25.4	L05003C-25.4	50	25.4	50	13		
R06304C-25.4	L06304C-25.4	63	25.4	50	13		
R08004C-25.4	L08004C-25.4	80	25.4	50	38		
R10005D-31.75	L10005D-31.75	100	31.75	50	45		
R12506E-38.1	L12506E-38.1	125	38.1	63	60		
R16007F-50.8	L16007F-50.8	160	50.8	63	80		
R21008K-47.625	L21008K-47.625	210	47.625	63	140		
R26010K-47.625	L26010K-47.625	260	47.625	63	180		
ASX445-050A04R-22.0	ASX445-050A04L-22.0	50	22.0	40	11	4	SE..13T3.. WE..13T3..
-063A05R-22.0	-063A05L-22.0	63	22.0	40	11		
R05004C-25.4	L05004C-25.4	50	25.4	50	13		
R06305C-25.4	L06305C-25.4	63	25.4	50	13		
R08006C-25.4	L08006C-25.4	80	25.4	50	38		
R10007D-31.75	L10007D-31.75	100	31.75	50	45		
R12508E-38.1	L12508E-38.1	125	38.1	63	60		
R16010F-50.8	L16010F-50.8	160	50.8	63	80		
R21012K-47.625	L21012K-47.625	210	47.625	63	140		
R26014K-47.625	L26014K-47.625	260	47.625	63	180		
ASX445-050A05R-22.0	ASX445-050A05L-22.0	50	22.0	40	11	5	SE..13T3.. WE..13T3..
-063A06R-22.0	-063A06L-22.0	63	22.0	40	11		
R05005C-25.4	L05005C-25.4	50	25.4	50	13		
R06306C-25.4	L06306C-25.4	63	25.4	50	13		
R08008C-25.4	L08008C-25.4	80	25.4	50	38		
R10010D-31.75	L10010D-31.75	100	31.75	50	45		
R12512E-38.1	L12512E-38.1	125	38.1	63	60		
R16016F-50.8	L16016F-50.8	160	50.8	63	80		

① Mitsubishi Inserts Recommended.

ASX 45° FACE MILLING CUTTERS

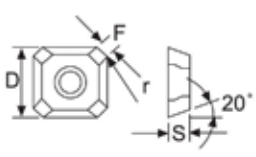



ASX45°-面銑刀



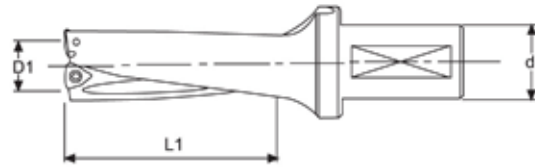
Shim	Screw	Wrench	Screw	Wrench
SSS445N	MDS5035	PL35	MS3512B	TF15

Inserts For 45° Face Milling Cutter



刀片

Ordering code	Grade					Insert Shape	Dimensions,mm			
	NX2525	VP15TF	F5020	HTi10	HTi05T		D	S	F	r
SEMT13T3AGSN-JM		●					13.4	3.97	1.9	1.5
SEMT13T3AGSN-JH		●	●				13.4	3.97	2.2	..
SEGT13T3AGFN-JP				●			13.4	3.97	2.2	..
WEEW13T3AGER8C					●		16.6	3.97	8.2	1.5
WEEW13T3AGTR8C	●								8.1	

捨棄式快速鑽頭-Dx2



(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 2)	d		
14WCMX	WCMX030208	14	28	25	M2.5x0.45	T8
15WCMX		15	30			
16WCMX		16	32			
17WCMX		17	34			
18WCMX		18	36			
19WCMX		19	38			
20WCMX	WCMX040208	20	40	32	M2.5x0.45	T8
21WCMX		21	42			
22WCMX		22	44			
23WCMX		23	46			
24WCMX	WCMX030208	24	48	32	M2.5x0.45	T8
14WCMX		14	28			
15WCMX		15	30			
16WCMX		16	32			
17WCMX		17	34			
18WCMX		18	36			
19WCMX		19	38			
20WCMX		20	40			
21WCMX		21	42			
22WCMX		22	44			
23WCMX	WCMX040208	23	46	32	M2.5x0.45	T8
24WCMX		24	48			
25WCMX	WCMT050308	25	50	32	M3.5x0.6	T10
26WCMX		26	52			
27WCMX		27	54			
28WCMX		28	56			
29WCMX		29	58			
30WCMX		30	60			
31WCMX	WCMT06T308	31	62	40	M3.5x0.6	T15
32WCMX		32	64			
33WCMX		33	66			
34WCMX		34	68			
35WCMX		35	70			
36WCMX		36	72			
37WCMX		37	74			
38WCMX	WCMT06T308	38	76	40	M3.5x0.6	T15
39WCMX		39	78			
40WCMX		40	80			
41WCMX		41	82			
42WCMX		42	84			
43WCMX	WCMT080408	43	86	40	M4x0.7	T15
44WCMX		44	88			
45WCMX		45	90			
46WCMX		46	92			
47WCMX		47	94			
48WCMX		48	96			
49WCMX		49	98			
50WCMX		50	100			
51WCMX		51	102			
52WCMX		52	104			
53WCMX		53	106			
54WCMX		54	108			
55WCMX	WCMT06T308 4片刀片 (W)for inserts	55	110	40	M3.5x0.6	T15
56WCMX		56	112			
57WCMX		57	114			
58WCMX		58	116			
59WCMX		59	118			
60WCMX		60	120			
61WCMX		61	122			
62WCMX		62	124			
63WCMX		63	126			
64WCMX		64	128			

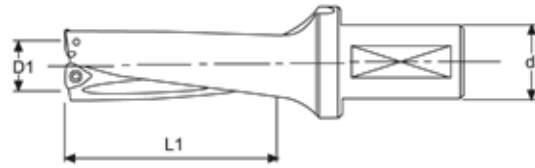
- Please advice the shank size of d for 14WCMX-24WCMX. Inserts must be buy separately.

- 請於訂購時確認14WCMX-24WCMX柄徑規格。刀片為另購品。

① Suitable:ISO Inserts

RAPID DRILLS THROW-AWAY INSERTS

捨棄式快速鑽頭-Dx3



(Unit: mm)

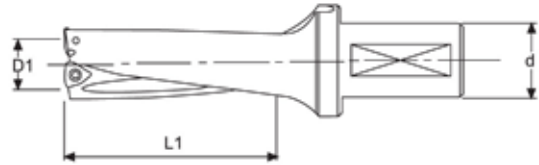
Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 3)	d		
14WCMX	WCMX030208	14	42	25	M2.5x0.45	T8
15WCMX		15	45			
16WCMX		16	48			
17WCMX		17	51			
18WCMX		18	54			
19WCMX		19	57			
20WCMX	WCMX040208	20	60	32	M2.5x0.45	T8
21WCMX		21	63			
22WCMX		22	66			
23WCMX		23	69			
24WCMX	24	72				
25WCMX	WCMT050308	25	75			
26WCMX		26	78			
27WCMX		27	81			
28WCMX		28	84			
29WCMX		29	87			
30WCMX		30	90			
31WCMX	WCMT06T308	31	93		M3.5x0.6	T15
32WCMX		32	96			
33WCMX		33	99			
34WCMX		34	102			
35WCMX		35	105			
36WCMX		36	108			
37WCMX		37	111			
38WCMX	WCMT06T308	38	114	M3.5x0.6	T15	
39WCMX		39	117			
40WCMX		40	120			
41WCMX	WCMT06T308	41	123	M4x0.7	T15	
42WCMX		42	126			
43WCMX	WCMT080412	43	129	40		M4x0.7
44WCMX		44	132			
45WCMX		45	135			
46WCMX		46	138			
47WCMX		47	141			
48WCMX		48	144			
49WCMX		49	147			
50WCMX		50	150			
51WCMX		51	153			
52WCMX		52	156			
53WCMX		53	159			
54WCMX		54	162			

- Please advice the shank size of d for 14WCMX-24WCMX. Inserts must be buy separately.

- 請於訂購時確認14WCMX-24WCMX柄徑規格。刀片為另購品。

① Suitable:ISO Inserts

捨棄式快速鑽頭-Dx3

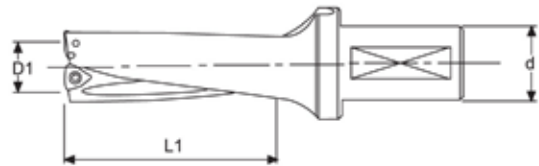


(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 3)	d		
55WCMX	WCMT06T308 4片刀片 (W)for inserts	55	165	40		
56WCMX		56	168			
57WCMX		57	171			
58WCMX		58	174			
59WCMX		59	177			
60WCMX		60	180			
61WCMX		61	183			
62WCMX		62	186			
63WCMX		63	189			
64WCMX		64	192			

- Inserts must be buy separately.
- 刀片為另購品。

捨棄式快速鑽頭-Dx4



(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 4)	d		
14WCMX	WCMX030208	14	56	32		
16WCMX		16	64			
19WCMX		19	76			
20WCMX		20	80			
21WCMX	WCMX040208	21	84			
22WCMX		22	88			
23WCMX		23	92			
24WCMX	WCMT050308	24	96			
25WCMX		25	100			
26WCMX		26	104			
27WCMX		27	108			
28WCMX		28	112			
29WCMX		29	120			
34WCMX	WCMT06T308	34	136	40		
39WCMX		39	156			
41WCMX		41	164			
43WCMX	WCMT080412	43	172			
44WCMX		44	176			
47WCMX		47	188			
50WCMX		50	200			
54WCMX		54	216			
59WCMX		59	236			

- Inserts must be buy separately.
- 刀片為另購品。

① Suitable:ISO Inserts



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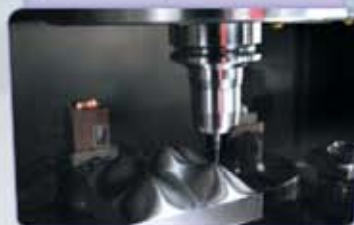
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