



切削刀具

Cutting Tools Vol.2-1

Holding Your Future



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END MILLS 銑刀

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- 17 **ACELX**
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| 54 | BAP |  | BAP  |
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| 57 | UEX |  | |
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- | | | |
|----|------|---|
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|----|------|---|

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- | | | | |
|----|-----|---|---|
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■ SHOULDER / CUTTING END MILLS

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- | | | | |
|----|-----|---|---|
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|----|-----|---|---|

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|----|-----|---|---|
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- | | | | |
|----|----|---|--|
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| 71 | RD |  | RD  |
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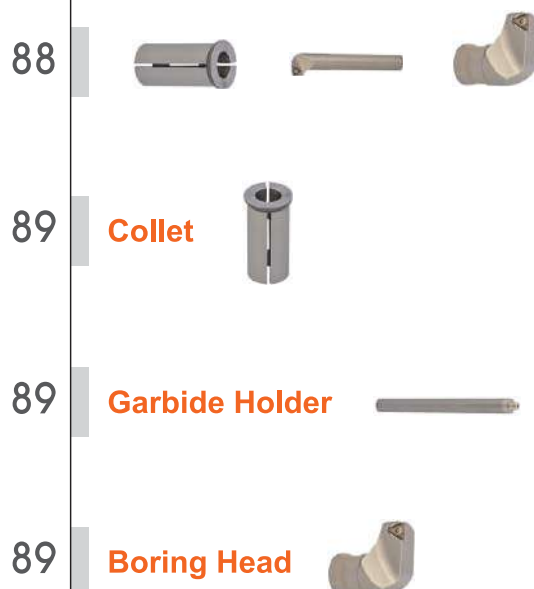
■ Micro Boring Head & Boring Bar

搪孔刀頭&搪孔刀



■ BORING HEAD & PART

搪孔刀頭&配件



■ Micro Boring Head & Boring Bar

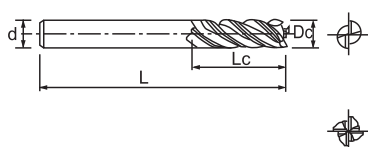
搪孔刀頭&搪孔刀



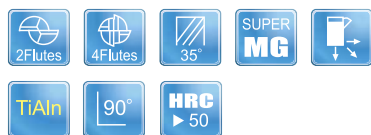


END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



- 尖角型式 Sharp corner type:
尖角部鋒利，但易崩刀。
The sharp cutting edge is very sharp but tends to be broken easily.
- 尖角保護 Cutting edge protection design:
尖角部鋒利度下降，但不易崩刀。
The sharp cutting edge is lesser sharpness but it is not easy to be broken.

AFMK

Extra Micro Carbide End Mill - 2&4 Flutes, Helical Angle 35° 超微粒鎢鋼立銑刀 - 2刃&4刃螺旋角35度

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.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
* Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2 Flutes)

(Unit: mm)

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

規格表DIMENSIONS (4刃/ 4 Flutes)

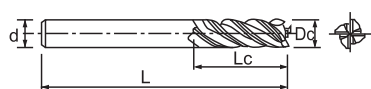
(Unit: mm)

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



END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03

AFEMV

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

超微粒鎢鋼立銑刀 - 4刀螺旋角45度

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.

* 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金

* Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (4刃/ 4Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刀數 Teeth
AFEMV0103-4T	1	3	50	3	4
AFEMV0153-4T	1.5	4			
AFEMV0203-4T	2	6			
AFEMV0253-4T	2.5	8			
AFEMV0303-4T	3	8	50	4	4
AFEMV0104-4T	1	3			
AFEMV0154-4T	1.5	4			
AFEMV0204-4T	2	6			
AFEMV0304-4T	3	8	50	6	4
AFEMV0404-4T	4	12			
AFEMV0106-4T	1	3			
AFEMV0206-4T	2	6			
AFEMV0306-4T	3	8	50	8	4
AFEMV0406-4T	4	12			
AFEMV0506-4T	5	15			
AFEMV0606-4T	6	16			
AFEMV0708-4T	7	16	60	10	4
AFEMV0808-4T	8	20			
AFEMV0910-4T	9	20	75	12	4
AFEMV10010-4T	10	30			
AFEMV12012-4T	12	32	100	16	4
AFEMV14016-4T	14	45			
AFEMV16016-4T	16	45			
AFEMV18020-4T	18	45	100	20	4
AFEMV20020-4T	20	45			



尖角型式 Sharp corner type:

尖角部鋒利，但易崩刀。

The sharp cutting edge is very sharp but tends to be broken easily.



尖角保護 Cutting edge protection design:

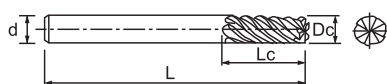
尖角部鋒利度下降，但不易崩刀。

The sharp cutting edge is lesser sharpness but it is not easy to be broken.



END MILLS

銑刀



刀徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
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AFEMV

Extra Micro Carbide End Mill - 6 Flutes, Helical Angle 45° 超微粒鎢鋼立銑刀 - 6刀螺旋角45度

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。

說明：6刀設計，適合高硬度及精修加工應用。

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

Description: 6 flutes design. Ideal for high hardness metals and finishing applications.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表 DIMENSIONS (6刀/ 6 Flutes)

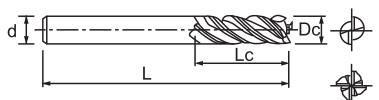
(Unit: mm)

Model No.	刀徑 Dc	刀長 Lc	總長 L	柄徑 d	刀數 Teeth
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	

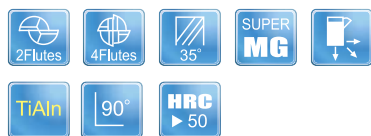


END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
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$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
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AFELK

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

超微粒鎢鋼長刃立銑刀 - 2&4刃螺旋角35度

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.

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- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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	35			
AFELK0910-2T	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刃/ 4Flutes)

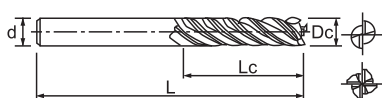
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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	35			
AFELK0910-4T	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

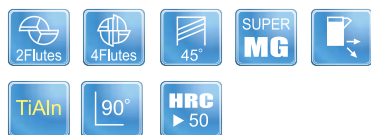


END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



- 尖角型式 Sharp corner type:
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- 尖角保護 Cutting edge protection design:
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The sharp cutting edge is lesser sharpness but it is not easy to be broken.

AFELV

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

超微粒鎢鋼長刃立銑刀 - 2&4刀螺旋角45度

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.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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		6	
AFELV0306-2T	3	15			
AFELV0406-2T	4	20	75	6	2
AFELV0506-2T	5	25			
AFELV0606-2T	6	30			
AFELV0708-2T	7	35	100	8	2
AFELV0808-2T	8				
AFELV0910-2T	9	40	100	10	2
AFELV10010-2T	10	45			
AFELV12012-2T	12	55		12	
AFELV14016-2T	14	60	150	16	2
AFELV16016-2T	16	70			
AFELV18020-2T	18	80	200	20	2
AFELV20020-2T	20	90			

規格表DIMENSIONS (4刃/ 4Flutes)

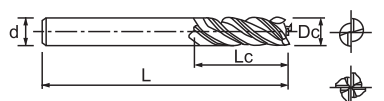
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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		6	
AFELV0206-4T	2	10			
AFELV0306-4T	3	15			
AFELV0406-4T	4	20	75	6	4
AFELV0506-4T	5	25			
AFELV0606-4T	6	30			
AFELV0708-4T	7	35	100	8	4
AFELV0808-4T	8				
AFELV0910-4T	9	40	100	10	4
AFELV10010-4T	10	45		12	
AFELV12012-4T	12	55			
AFELV14016-4T	14	60	150	16	4
AFELV16016-4T	16	70			
AFELV18020-4T	18	80	200	20	4
AFELV20020-4T	20	90			

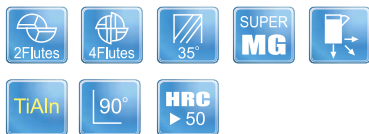


END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



- 尖角型式 Sharp corner type:
尖角部鋒利，但易崩刀。
The sharp cutting edge is very sharp but tends to be broken easily.
- 尖角保護 Cutting edge protection design:
尖角部鋒利度下降，但不易崩刀。
The sharp cutting edge is lesser sharpness but it is not easy to be broken.

AFENK

Extra Micro Carbide End Mill - 2&4Flutes, Long Shank, Helical Angle 35° 超微粒鎢鋼長柄立銑刀 - 2&4刀螺旋角35度

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.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刀數 Teeth		
AFENK0104-2T	1	3	75	4	2		
AFENK0154-2T	1.5	4					
AFENK0204-2T	2	5					
AFENK0304-2T	3	8					
AFENK0404-2T	4	12	75	6	2		
AFENK0306-2T	3	8					
AFENK0406-2T	4	12					
AFENK0506-2T	5	15					
AFENK0606-2T	6	16	100	6	2		
	6	16		8			
AFENK0708-2T	7			20		10	2
AFENK0808-2T	8	20				10	
AFENK0910-2T	9		20	150	10	2	
	9	100					
AFENK10010-2T	10	30	150	12			2
			100				
AFENK12012-2T	12	32	150		16	2	
			100				
AFENK14016-2T	14	45	150	20			2
			200				
AFENK16016-2T	16		150		20	2	
			200				
AFENK18020-2T	18	45	150	20			2
AFENK20020-2T	20		200				
			150				
			200				

規格表DIMENSIONS (4刃/ 4Flutes)

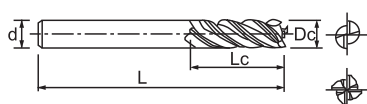
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刀數 Teeth	
AFENK0104-4T	1	3	75	4	4	
AFENK0154-4T	1.5	4				
AFENK0204-4T	2	5				
AFENK0304-4T	3	8				
AFENK0404-4T	4	12	75	6	4	
AFENK0306-4T	3	8				
AFENK0406-4T	4	12				
AFENK0506-4T	5	15				
AFENK0606-4T	6	16	100	6	4	
	6	16		8		
AFENK0708-4T	7			20		10
AFENK0808-4T	8	20				10
AFENK0910-4T	9		20	150	10	4
AFENK10010-4T	9	100				
	10	150				
	100					
AFENK12012-4T	12	32	150	12	4	
AFENK14016-4T	14	45	150	16	4	
	AFENK16016-4T		16			200
150			200			
			200			
AFENK18020-4T	18	45	150	20	4	
AFENK20020-4T	20		200			
	150					
	200					

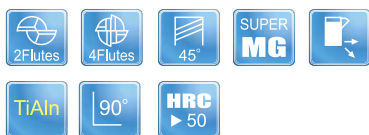


END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



- 尖角型式 Sharp corner type:
尖角部鋒利，但易崩刀。
The sharp cutting edge is very sharp but tends to be broken easily.
- 尖角保護 Cutting edge protection design:
尖角部鋒利度下降，但不易崩刀。
The sharp cutting edge is lesser sharpness but it is not easy to be broken.

AFENV

Extra Micro Carbide End Mill - 2&4Flutes, Long Shank, Helical Angle 45° 超微粒鎢鋼長柄立銑刀 - 2&4刃螺旋角45度

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.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
AFENV0104-2T	1	3	75	4	2
AFENV0154-2T	1.5	4			
AFENV0204-2T	2	5			
AFENV0304-2T	3	8			
AFENV0404-2T	4	12	75	6	2
AFENV0306-2T	3	8			
AFENV0406-2T	4	12			
AFENV0506-2T	5	15			
AFENV0606-2T	6	16	100	6	2
AFENV0708-2T	7	16		8	
AFENV0808-2T	8	20		10	
AFENV0910-2T	9	20		10	
AFENV10010-2T	10	30	150	10	2
			100		
AFENV12012-2T	12	32	150	12	2
			100		
AFENV14016-2T	14	45	150	16	2
			200		
AFENV16016-2T	16		150		
			200		
AFENV18020-2T	18	45	150	20	2
			200		
AFENV20020-2T	20		150		
			200		

規格表DIMENSIONS (4刃/ Flutes)

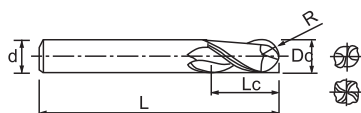
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
AFENV0104-4T	1	3	75	4	4
AFENV0154-4T	1.5	4			
AFENV0204-4T	2	5			
AFENV0304-4T	3	8			
AFENV0404-4T	4	12	75	6	4
AFENV0306-4T	3	8			
AFENV0406-4T	4	12			
AFENV0506-4T	5	15			
AFENV0606-4T	6	16	100	6	4
	6	16		8	
AFENV0708-4T	7	16		10	
AFENV0808-4T	8	20		10	
AFENV0910-4T	9	20	150	10	4
	9	20	100		
AFENV10010-4T	10	30	150	12	4
			100		
AFENV12012-4T	12	32	150	16	4
			150		
AFENV14016-4T	14	45	200		
			150		
AFENV16016-4T	16		200		
			150		
AFENV18020-4T	18	45	200	20	4
			150		
AFENV20020-4T	20		150		
			200		



END MILLS

銑刀



R徑 Radius	TOLERANCE (公差)
R徑	± 0.02



AFBMG

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

超微粒鎢鋼球型銑刀 - 2&4刃螺旋角30度

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.

- * 適用切削材質: 鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
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	50	6	2
AFBMG0106-2T	1	0.5	2			
AFBMG0206-2T	2	1	4			
AFBMG0306-2T	3	1.5	6			
AFBMG0406-2T	4	2	8			
AFBMG0506-2T	5	2.5	10	60	8	2
AFBMG0606-2T	6	3	12			
AFBMG0708-2T	7	3.5	14			
AFBMG0808-2T	8	4	16			
AFBMG10010-2T	10	5	20			
AFBMG12012-2T	12	6	24	75	10	2
AFBMG16016-2T	16	8	32		12	
AFBMG20020-2T	20	10	40	100	16	2
					20	

規格表DIMENSIONS (4刃/ 4Flutes)

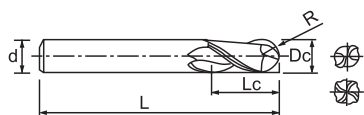
(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
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	50	6	4
AFBMG0106-4T	1	0.5	2			
AFBMG0206-4T	2	1	4			
AFBMG0306-4T	3	1.5	6			
AFBMG0406-4T	4	2	8			
AFBMG0506-4T	5	2.5	10	60	8	4
AFBMG0606-4T	6	3	12			
AFBMG0708-4T	7	3.5	14			
AFBMG0808-4T	8	4	16			
AFBMG10010-4T	10	5	20			
AFBMG12012-4T	12	6	24	75	10	4
AFBMG16016-4T	16	8	32		12	
AFBMG20020-4T	20	10	40	100	16	4
					20	

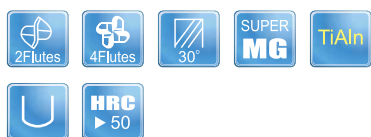


END MILLS

銑刀



R徑 Radius	TOLERANCE (公差)
R徑	± 0.02



AFBLG

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

超微粒鎢鋼長刀球型銑刀 - 2&4刀螺旋角30度

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.

- * 適用切削材質: 鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刀/ 2Flutes)

(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刀數 Teeth		
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	75	8	2		
AFBLG0808-2T	8	4						
AFBLG0910-2T	9	4.5	32	75	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			
					20			

規格表DIMENSIONS (4刀/ 4Flutes)

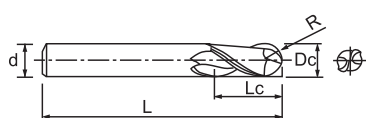
(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刀數 Teeth		
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	75	8	4		
AFBLG0808-4T	8	4						
AFBLG0910-4T	9	4.5	32	75	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			



END MILLS

銑刀



R徑 Radius	TOLERANCE (公差)
R徑	± 0.02

AFBNG

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刀螺旋角30度

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.

- * 適用切削材質: 鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刀/ 2Flutes)

(Unit: mm)

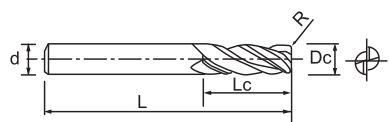
Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刀數 Teeth
AFBNG0106-2T	1	0.5	2	75	6	2
AFBNG0156-2T	1.5	0.75	3			
AFBNG0206-2T	2	1	4	75	6	2
AFBNG0256-2T	2.5	1.25	5			
AFBNG0306-2T	3	1.5	6			
AFBNG0406-2T	4	2	8			
AFBNG0506-2T	5	2.5	10			
AFBNG0606-2T	6	3	12			
AFBNG0708-2T	7	3.5	14	100	8	2
AFBNG0808-2T	8	4	16			
AFBNG0910-2T	9	4.5	18	100	10	2
AFBNG10010-2T	10	5	20		12	
AFBNG12012-2T	12	6	24			
AFBNG14016-2T	14	7	28	150	16	2
AFBNG16016-2T	16	8	32			
AFBNG20020-2T	20	10	40	200	20	2





END MILLS

銑刀



刀徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03

R徑 Radius	TOLERANCE (公差)
R徑	± 0.02



AFRMK

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

說明：選用高品質鎢鋼搭配TiAlN鍍層，圓隅角設計可泛用在各式金屬加工環境
 Description: Adopting high quality carbide with TiAlN coating. Corner radius design is applicable for general purpose applications and profiling.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (2刃/ 2Flutes)

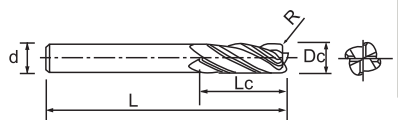
(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
AFRMK0104-2T	1	0.2	3	50	4	2
		0.3				
AFRMK0204-2T	2	0.2	6	50	4	2
		0.3				
		0.5				
AFRMK0304-2T	3	0.2	8	50	4	2
		0.3				
		0.5				
AFRMK0404-2T	4	0.2	11	50	4	2
		0.3				
		0.5				
		1				
AFRMK0506-2T	5	0.3	13	50	6	2
		0.5				
		1				
AFRMK0606-2T	6	0.2	16	50	6	2
		0.3				
		0.5				
		1				
		2				
AFRMK0808-2T	8	0.3	20	60	8	2
		0.5				
		1				
		2				
AFRMK10010-2T	10	0.5	30	75	10	2
		1				
		1.5				
		2				
		3				
AFRMK12012-2T	12	0.5	32	75	12	2
		1				
		1.5				
		2				
		3				



END MILLS

銑刀



刀徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03

R徑 Radius	TOLERANCE (公差)
R徑	± 0.02



AFMRK

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

說明：選用高品質鎢鋼搭配TiAlN鍍層，圓隅角設計可泛用在各式金屬加工環境
Description: Adopting high quality carbide with TiAlN coating. Corner radius design is applicable for general purpose applications and profiling.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表DIMENSIONS (4刃/ 4Flutes)

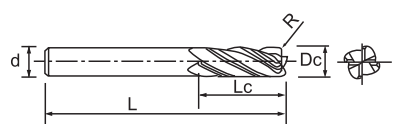
(Unit: mm)

Model No.	刀徑 Dc	R徑 R	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
AFRMK0206-4T	2	0.2	6	50	6	4
		0.3				
		0.5				
AFRMK0306-4T	3	0.2	6	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				
		2.5				
AFRMK10010-4T	10	3	30	75	10	4
		0.3				
		0.5				
		1				
		1.5				
		2				
		2.5				
AFRMK12012-4T	12	3	32	75	12	4
		0.3				
		0.5				
		1				
		1.5				
		2				



END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03

R徑 Radius	TOLERANCE (公差)
R徑	± 0.02



AFR NK

Extra Micro Carbide End 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

說明：選用高品質鎢鋼搭配TiAlN鍍層，圓隅角設計可泛用在各式金屬加工環境
 Description: Adopting high quality carbide with TiAlN coating. Corner radius design is applicable for general purpose applications and profiling.

- * 適用切削材質：鑄鐵、碳素鋼、合金鋼、工具鋼、預硬鋼、不銹鋼、鎳合金、鈦合金
- * Working Material: Cast iron, Carbon steel, Alloy steel, Tool steel, Pre-hardened steel, Stainless steel, Nickel Alloy, Titanium

規格表 DIMENSIONS (4刃/ 4Flutes)

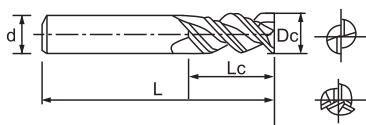
(Unit: mm)

Model No.	刃徑 Dc	R徑 R	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
AFR NK0303-4T	3	0.2	8	75	3	4
		0.3				
		0.5				
		1				
AFR NK0404-4T	4	0.2	11	75	4	4
		0.3				
		0.5				
		1				
AFR NK0206-4T	2	0.2	6	100	6	4
		0.3				
		0.5				
		1				
AFR NK0306-4T	3	0.2	8	100	6	4
		0.3				
		0.5				
		1				
AFR NK0406-4T	4	0.2	11	100	6	4
		0.3				
		0.5				
		1				
AFR NK0506-4T	5	0.2	13	100	6	4
		0.3				
		0.5				
		1				
AFR NK0606-4T	6	0.2	16	100	6	4
		0.3				
		0.5				
		1				
AFR NK0808-4T	8	0.2	20	100	8	4
		0.3				
		0.5				
		1				
AFR NK10010-4T	10	0.2	30	100	10	4
		0.3				
		0.5				
		1				
AFR NK12012-4T	12	0.2	32	100	12	4
		0.3				
		0.5				
		1				



END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



ACENV

Extra Micro Carbide End Mill for Aluminum - 2&3Flutes, Helical Angle 45°

超微粒鎢鋼鋁用立銑刀 - 2&3刃螺旋角45度

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.

* 適用切削材質：鋁合金、銅合金、鎂合金、鋅合金

* Working Material: Aluminum alloy, copper alloy, magnesium alloy, zinc alloy

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
ACENV0104-2T	1	3	50	4	2
ACENV0204-2T	2	5			
ACENV0304-2T	3	8			
ACENV0404-2T	4	12			
ACENV0106-2T	1	3	50	6	2
ACENV0206-2T	2	5			
ACENV0306-2T	3	8			
ACENV0406-2T	4	12			
ACENV0506-2T	5	13			
ACENV0606-2T	6	16			
ACENV0808-2T	8	20	60	8	2
ACENV10010-2T	10	30	75	10	
ACENV12012-2T	12	32		12	
ACENV16016-2T	16	50	100	16	2
ACENV20020-2T	20	50		20	

規格表DIMENSIONS (3刃/ 3Flutes)

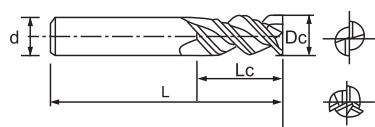
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
ACENV0104-3T	1	3	50	4	3
ACENV0204-3T	2	5			
ACENV0304-3T	3	8			
ACENV0404-3T	4	12			
ACENV0106-3T	1	3	50	6	3
ACENV0206-3T	2	5			
ACENV0306-3T	3	8			
ACENV0406-3T	4	12			
ACENV0506-3T	5	13			
ACENV0606-3T	6	16			
ACENV0808-3T	8	20	60	8	3
ACENV10010-3T	10	30	75	10	
ACENV12012-3T	12	32		12	
ACENV16016-3T	16	50	100	16	3
ACENV20020-3T	20	50		20	



END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



ACEMX

Extra Micro Carbide End Mill for Aluminum - 2&3Flutes, Helical Angle 55°

超微粒鎢鋼鋁用立銑刀 - 2&3刃螺旋角55度

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.

* 適用切削材質：鋁合金、銅合金、鎂合金、鋅合金

* Working Material: Aluminum alloy, copper alloy, magnesium alloy, zinc alloy

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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刃/ 3Flutes)

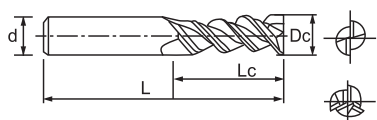
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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	60	8	3
ACEMX0808-3T	8	20			
ACEMX10010-3T	10	30		75	
ACEMX12012-3T	12	32	12		
ACEMX16016-3T	16	50	100	16	3
ACEMX20020-3T	20	50		20	



END MILLS

銑刀



刀徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



ACELV

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

超微粒鎢鋼長刃鋁用立銑刀 - 2&3刃螺旋角45度

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，有良好加工品質及刀具壽命。

Description: Designed for aluminum & copper alloys with extended cutting edge length and with good cutting performance and tool life.

* 適用切削材質：鋁合金、銅合金、鎂合金、鋅合金

* Working Material: Aluminum alloy, copper alloy, magnesium alloy, zinc alloy

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刀徑 Dc	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
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			
ACELV0606-2T	6	30	75	8	2
ACELV0808-2T	8	32	75		
ACELV10010-2T	10	45	100	10	
ACELV12012-2T	12	50		12	
ACELV16016-2T	16	60	150	16	2
ACELV20020-2T	20			20	

規格表DIMENSIONS (3刃/ 3Flutes)

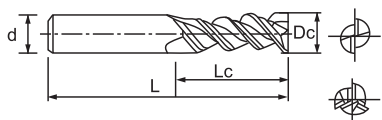
(Unit: mm)

Model No.	刀徑 Dc	刀長 Lc	總長 L	柄徑 d	刃數 Teeth
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			
ACELV0606-3T	6	30	75	8	3
ACELV0808-3T	8	32	75		
ACELV10010-3T	10	45	100	10	
ACELV12012-3T	12	50		12	
ACELV16016-3T	16	60	150	16	3
ACELV20020-3T	20			20	



END MILLS

銑刀



刃徑 Dc	TOLERANCE (公差)
$\varnothing < 1$	-0 ~ -0.015
$1 < \varnothing < 3$	-0 ~ -0.02
$3 < \varnothing < 12$	-0 ~ -0.025
$12 < \varnothing$	-0 ~ -0.03



ACELX

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

超微粒鎢鋼長刃鋁用立銑刀 - 2&3刃螺旋角55度

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，有良好加工品質及刀具壽命。

Description: Designed for aluminum & copper alloys with extended cutting edge length and with good cutting performance and tool life.

* 適用切削材質：鋁合金、銅合金、鎂合金、鋅合金

* Working Material: Aluminum alloy, copper alloy, magnesium alloy, zinc alloy

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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			
ACELX0606-2T	6	30	75	8	2
ACELX0808-2T	8	32	75		
ACELX10010-2T	10	45	100	10	
ACELX12012-2T	12	50		12	
ACELX16016-2T	16	60	150	16	2
ACELX20020-2T	20			20	

規格表DIMENSIONS (3刃/ 3Flutes)

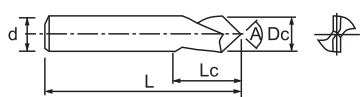
(Unit: mm)

Model No.	刃徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth
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			
ACELX0606-3T	6	30	75	8	3
ACELX0808-3T	8	32	75		
ACELX10010-3T	10	45	100	10	
ACELX12012-3T	12	50		12	
ACELX16016-3T	16	60	150	16	3
ACELX20020-3T	20			20	



SPOT DRILLS

定點鑽



IDH

Extra Micro Carbide Spot Drills - 90° & 120°

超微粒鎢鋼定點鑽 - 90度 & 120度

說明：採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刃/ 2Flutes)

(Unit: mm)

Model No.	刀徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth	鑽頭角度 A
IDH0303	3	12	50	3	2	90° & 120°
IDH0404	4			4		
IDH0505	5			5		
IDH0606	6	20	60	6	2	90° & 120°
IDH0808	8	25		8		
IDH10010	10	25	75	10	2	90° & 120°
IDH12012	12	30		12		
IDH16016	16	35	100	16	2	90° & 120°
IDH20020	20	40		20		

IDHN

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

超微粒鎢鋼長柄定點鑽 - 90度 & 120度

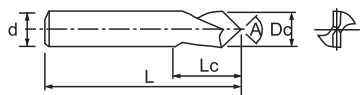
說明：採用高品質鎢鋼及鍍層製作而成，可加工中高硬度金屬。

Description: Adopting high quality carbide and coating (optional). Ideal for machining most steels.

規格表DIMENSIONS (2刃/ 2Flutes)

(Unit: mm)

Model No.	刀徑 Dc	刃長 Lc	總長 L	柄徑 d	刃數 Teeth	鑽頭角度 A
IDHN0303	3	12	75	3	2	90° & 120°
IDHN0404	4			4		
IDHN0505	5			5		
IDHN0606	6	20	75	6	2	90° & 120°
IDHN0808	8	25		8		
IDHN10010	10	25	100	10	2	90° & 120°
IDHN12012	12	30		12		
IDHN16016	16	35	150	16	2	90° & 120°
IDHN20020	20	40		20		





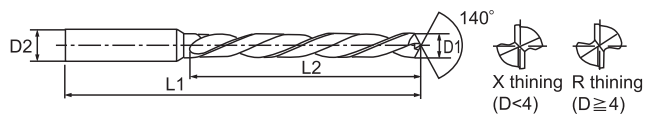
CARBIDE MILLS

鎢鋼鑽頭

VHM-3D

Solid carbide drills-3D

鎢鋼鑽頭 - 3倍



Universal



規格表 DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
503.030.00	3,00	6,00	20	62
503.031.00	3,10	6,00	20	62
503.032.00	3,20	6,00	20	62
503.033.00	3,30	6,00	20	62
503.034.00	3,40	6,00	20	62
503.035.00	3,50	6,00	20	62
503.036.00	3,60	6,00	20	62
503.037.00	3,70	6,00	20	62
503.038.00	3,80	6,00	24	66
503.039.00	3,90	6,00	24	66
503.040.00	4,00	6,00	24	66
503.041.00	4,10	6,00	24	66
503.042.00	4,20	6,00	24	66
503.043.00	4,30	6,00	24	66
503.044.00	4,40	6,00	24	66
503.045.00	4,50	6,00	24	66
503.046.00	4,60	6,00	24	66
503.047.00	4,70	6,00	24	66
503.048.00	4,80	6,00	28	66
503.049.00	4,90	6,00	28	66
503.050.00	5,00	6,00	28	66
503.051.00	5,10	6,00	28	66
503.052.00	5,20	6,00	28	66
503.053.00	5,30	6,00	28	66
503.054.00	5,40	6,00	28	66
503.055.00	5,50	6,00	28	66
503.056.00	5,60	6,00	28	66
503.057.00	5,70	6,00	28	66
503.058.00	5,80	6,00	28	66
503.059.00	5,90	6,00	28	66
503.060.00	6,00	6,00	28	66
503.061.00	6,10	8,00	34	79
503.062.00	6,20	8,00	34	79
503.063.00	6,30	8,00	34	79
503.064.00	6,40	8,00	34	79
503.065.00	6,50	8,00	34	79
503.066.00	6,60	8,00	34	79
503.067.00	6,70	8,00	34	79
503.068.00	6,80	8,00	34	79
503.069.00	6,90	8,00	34	79
503.070.00	7,00	8,00	34	79
503.071.00	7,10	8,00	41	79
503.072.00	7,20	8,00	41	79
503.073.00	7,30	8,00	41	79
503.074.00	7,40	8,00	41	79
503.075.00	7,50	8,00	41	79

* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 703.030.00
Coolant type upon your request. For example: 703.030.00



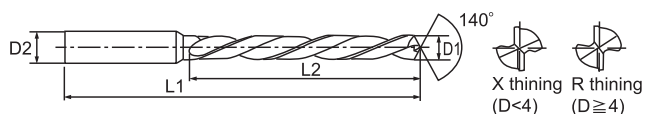
CARBIDE MILLS

鎢鋼鑽頭

VHM-3D

Solid carbide drills-3D

鎢鋼鑽頭 - 3倍



規格表DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
503.076.00	7,60	8,00	41	79
503.077.00	7,70	8,00	41	79
503.078.00	7,80	8,00	41	79
503.079.00	7,90	8,00	41	79
503.080.00	8,00	8,00	41	79
503.081.00	8,10	10,00	47	89
503.082.00	8,20	10,00	47	89
503.083.00	8,30	10,00	47	89
503.084.00	8,40	10,00	47	89
503.085.00	8,50	10,00	47	89
503.086.00	8,60	10,00	47	89
503.087.00	8,70	10,00	47	89
503.088.00	8,80	10,00	47	89
503.089.00	8,90	10,00	47	89
503.090.00	9,00	10,00	47	89
503.091.00	9,10	10,00	47	89
503.092.00	9,20	10,00	47	89
503.093.00	9,30	10,00	47	89
503.094.00	9,40	10,00	47	89
503.095.00	9,50	10,00	47	89
503.096.00	9,60	10,00	47	89
503.097.00	9,70	10,00	47	89
503.098.00	9,80	10,00	47	89
503.099.00	9,90	10,00	47	89
503.100.00	10,00	10,00	47	89
503.101.00	10,10	12,00	55	102
503.102.00	10,20	12,00	55	102
503.103.00	10,30	12,00	55	102
503.104.00	10,40	12,00	55	102
503.105.00	10,50	12,00	55	102
503.106.00	10,60	12,00	55	102
503.107.00	10,70	12,00	55	102
503.108.00	10,80	12,00	55	102
503.109.00	10,90	12,00	55	102
503.110.00	11,00	12,00	55	102
503.111.00	11,10	12,00	55	102
503.112.00	11,20	12,00	55	102
503.113.00	11,30	12,00	55	102
503.114.00	11,40	12,00	55	102
503.115.00	11,50	12,00	55	102
503.116.00	11,60	12,00	55	102
503.117.00	11,70	12,00	55	102
503.118.00	11,80	12,00	55	102
503.119.00	11,90	12,00	55	102
503.120.00	12,00	12,00	55	102

* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 703.030.00
Coolant type upon your request. For example: 703.030.00



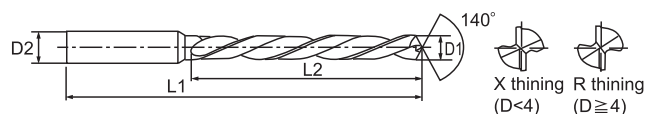
CARBIDE MILLS

鎢鋼鑽頭

VHM-3D

Solid carbide drills-3D

鎢鋼鑽頭 - 3倍



規格表DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
503.123.00	12,30	14,00	60	107
503.125.00	12,50	14,00	60	107
503.128.00	12,80	14,00	60	107
503.130.00	13,00	14,00	60	107
503.135.00	13,50	14,00	60	107
503.138.00	13,80	14,00	60	107
503.140.00	14,00	14,00	60	107
503.142.00	14,20	16,00	65	115
503.145.00	14,50	16,00	65	115
503.148.00	14,80	16,00	65	115
503.150.00	15,00	16,00	65	115
503.155.00	15,50	16,00	65	115
503.158.00	15,80	16,00	65	115
503.160.00	16,00	16,00	65	115
503.165.00	16,50	18,00	73	123
503.168.00	16,80	18,00	73	123
503.170.00	17,00	18,00	73	123
503.175.00	17,50	18,00	73	123
503.178.00	17,80	18,00	73	123
503.180.00	18,00	18,00	73	123
503.185.00	18,50	20,00	79	131
503.190.00	19,00	20,00	79	131
503.195.00	19,50	20,00	79	131
503.198.00	19,80	20,00	79	131
503.200.00	20,00	20,00	79	131

* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 703.030.00
Coolant type upon your request. For example: 703.030.00



Universal





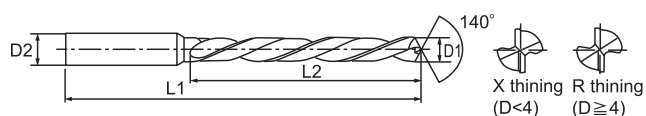
CARBIDE MILLS

鎢鋼鑽頭

VHM-5D

Solid carbide drills-5D

鎢鋼鑽頭 - 5倍



規格表 DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
505.005	0,50	3,00	10	50
505.006	0,60	3,00	10	50
505.007	0,70	3,00	10	50
505.008	0,80	3,00	10	50
505.009	0,90	3,00	10	50
505.010	1,00	3,00	10	55
505.011	1,10	3,00	12	55
505.012	1,20	3,00	12	55
505.013	1,30	3,00	12	55
505.014	1,40	3,00	12	55
505.015	1,50	3,00	12	55
505.016	1,60	3,00	16	55
505.017	1,70	3,00	16	55
505.018	1,80	3,00	16	55
505.019	1,90	3,00	16	55
505.020	2,00	3,00	21	57
505.021	2,10	3,00	21	57
505.022	2,20	3,00	21	57
505.023	2,30	3,00	21	57
505.024	2,40	3,00	21	57
505.025	2,50	3,00	21	57
505.026	2,60	3,00	21	57
505.027	2,70	3,00	21	57
505.028	2,80	3,00	21	57
505.029	2,90	3,00	21	57
505.030	3,00	6,00	28	66
505.031	3,10	6,00	28	66
505.032	3,20	6,00	28	66
505.033	3,30	6,00	28	66
505.034	3,40	6,00	28	66
505.035	3,50	6,00	28	66
505.036	3,60	6,00	28	66
505.037	3,70	6,00	28	66
505.038	3,80	6,00	36	74
505.039	3,90	6,00	36	74
505.040	4,00	6,00	36	74
505.041	4,10	6,00	36	74
505.042	4,20	6,00	36	74
505.043	4,30	6,00	36	74
505.044	4,40	6,00	36	74
505.045	4,50	6,00	36	74
505.046	4,60	6,00	36	74
505.465	4,65	6,00	36	74
505.047	4,70	6,00	36	74
505.048	4,80	6,00	44	82
505.049	4,90	6,00	44	82

* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 705.005
Coolant type upon your request. For example: 705.005



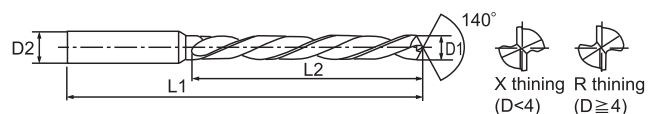
CARBIDE MILLS

鎢鋼鑽頭

VHM-5D

Solid carbide drills-5D

鎢鋼鑽頭 - 5倍



規格表DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
505.050	5,00	6,00	44	82
505.051	5,10	6,00	44	82
505.052	5,20	6,00	44	82
505.053	5,30	6,00	44	82
505.054	5,40	6,00	44	82
505.055	5,55	6,00	44	82
505.056	5,60	6,00	44	82
505.057	5,70	6,00	44	82
505.058	5,80	6,00	44	82
505.059	5,90	6,00	44	82
505.060	6,00	6,00	44	82
505.061	6,10	8,00	53	91
505.062	6,20	8,00	53	91
505.063	6,30	8,00	53	91
505.064	6,40	8,00	53	91
505.065	6,50	8,00	53	91
505.066	6,60	8,00	53	91
505.067	6,70	8,00	53	91
505.068	6,80	8,00	53	91
505.069	6,90	8,00	53	91
505.070	7,00	8,00	53	91
505.071	7,10	8,00	53	91
505.072	7,20	8,00	53	91
505.073	7,30	8,00	53	91
505.074	7,40	8,00	53	91
505.075	7,50	8,00	53	91
505.076	7,60	8,00	53	91
505.077	7,70	8,00	53	91
505.078	7,80	8,00	53	91
505.079	7,90	8,00	53	91
505.080	8,00	8,00	53	91
505.081	8,10	10,00	61	103
505.082	8,20	10,00	61	103
505.083	8,30	10,00	61	103
505.084	8,40	10,00	61	103
505.085	8,50	10,00	61	103
505.086	8,60	10,00	61	103
505.087	8,70	10,00	61	103
505.088	8,80	10,00	61	103
505.089	8,90	10,00	61	103
505.090	9,00	10,00	61	103
505.091	9,10	10,00	61	103
505.092	9,20	10,00	61	103
505.093	9,30	10,00	61	103
505.094	9,40	10,00	61	103
505.095	9,50	10,00	61	103
505.096	9,60	10,00	61	103
505.097	9,70	10,00	61	103

* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 705.005
Coolant type upon your request. For example: 705.005



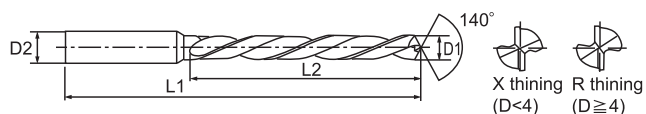
CARBIDE MILLS

鎢鋼鑽頭

VHM-5D

Solid carbide drills-5D

鎢鋼鑽頭 - 5倍



規格表 DIMENSIONS

(Unit: mm)

Model No.	直徑 D1 m7	柄徑 D2 h6	溝長 L2	全長 L1
505.098	9,80	10,00	61	103
505.099	9,90	10,00	61	103
505.100	10,00	10,00	61	103
505.101	10,10	12,00	71	118
505.102	10,20	12,00	71	118
505.103	10,30	12,00	71	118
505.104	10,40	12,00	71	118
505.105	10,50	12,00	71	118
505.106	10,60	12,00	71	118
505.107	10,70	12,00	71	118
505.108	10,80	12,00	71	118
505.109	10,90	12,00	71	118
505.110	11,00	12,00	71	118
505.111	11,10	12,00	71	118
505.112	11,20	12,00	71	118
505.113	11,30	12,00	71	118
505.114	11,40	12,00	71	118
505.115	11,50	12,00	71	118
505.116	11,60	12,00	71	118
505.117	11,70	12,00	71	118
505.118	11,80	12,00	71	118
505.119	11,90	12,00	71	118
505.120	12,00	12,00	71	118
505.122	12,20	14,00	77	124
505.123	12,30	14,00	77	124
505.125	12,50	14,00	77	124
505.128	12,80	14,00	77	124
505.130	13,00	14,00	77	124
505.135	13,50	14,00	77	124
505.138	13,80	14,00	77	124
505.140	14,00	14,00	77	124
505.145	14,50	16,00	83	133
505.148	14,80	16,00	83	133
505.150	15,00	16,00	83	133
505.155	15,50	16,00	83	133
505.158	15,80	16,00	83	133
505.160	16,00	16,00	83	133
505.165	16,50	18,00	93	143
505.168	16,80	18,00	93	143
505.170	17,00	18,00	93	143
505.175	17,50	18,00	93	143
505.178	17,80	18,00	93	143
505.180	18,00	18,00	93	143
505.185	18,50	20,00	101	153
505.190	19,00	20,00	101	153
505.195	19,50	20,00	101	153
505.200	20,00	20,00	101	153

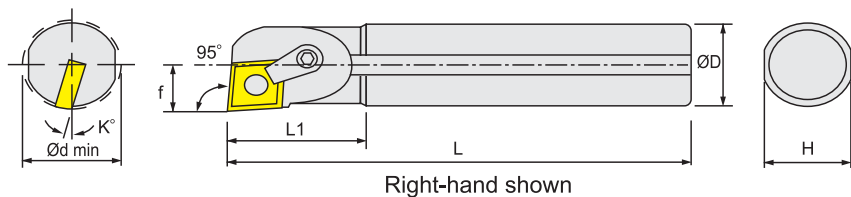
* 另有出水型可供選擇，請於訂購時改品名5為7 例如: 705.005
Coolant type upon your request. For example: 705.005

BORING BARS 內徑車刀

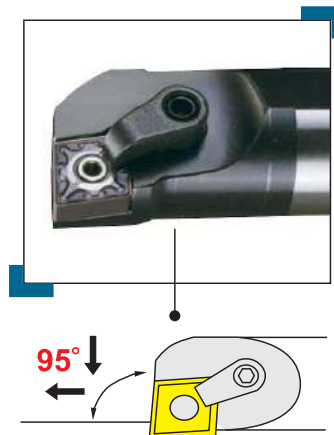
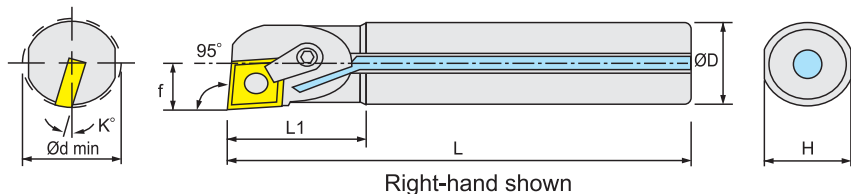


MCLN

S.-MCLNR/L-12 鋼柄 Steel shank



A.-MCLNR/L-12 鋼柄+中心水孔 Steel shank+coolant hole



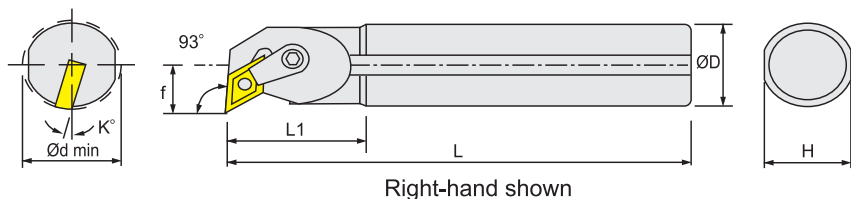
(Unit: mm)

Model No.	Dimensions							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
S20R-MCLNR/L-12	20	200	36	13	18	15	25	CN..1204..	--	MLP44-A	PL25	MC620	MS620	PL30
S25R-MCLNR/L-12	25	200	40	15.5	23	13	30							
S32S-MCLNR/L-12	32	250	48	19.5	30	13	40							
S40T-MCLNR/L-12	40	300	55	25.5	37	12	50		CMS432	MLP46-A	PL25	MC620	MS625	PL30
S50U-MCLNR/L-12	50	350	60	30.5	47	10	60							
S60V-MCLNR/L-12	60	400	60	35.5	57	9	70	CN..1204..	--	MLP44-A	PL25	MC620	MS620	PL30
A20R-MCLNR/L-12	20	200	36	13	18	15	25							
A25R-MCLNR/L-12	25	200	40	15.5	23	13	30							
A32S-MCLNR/L-12	32	250	48	19.5	30	13	40		CMS432	MLP46-A	PL25	MC620	MS625	PL30
A40T-MCLNR/L-12	40	300	55	25.5	37	12	50							

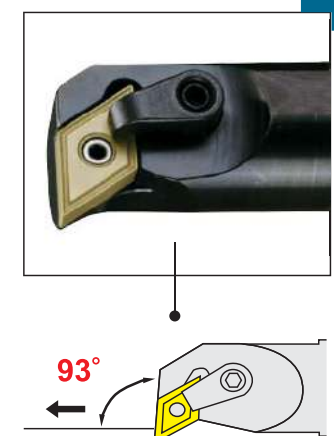
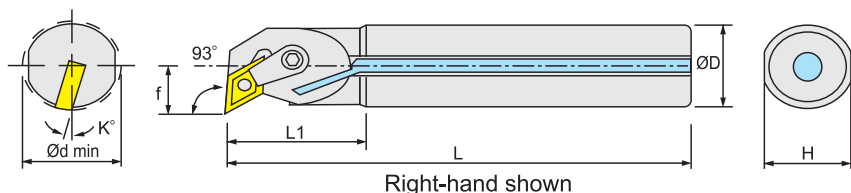
* ISO inserts recommended.

MDUN

S.-MDUNR/L-15 鋼柄 Steel shank



A.-MDUNR/L-15 鋼柄+中心水孔 Steel shank+coolant hole



(Unit: mm)

Model No.	Dimensions							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
S25R-MDUNR/L-15	25	200	45	17	23	13	32	DN..1504..	--	MLP44-A	PL25	MC620	MS620	PL30
S32S-MDUNR/L-15	32	250	50	21	30	13	40		DMS432	MLP46-A	PL25	MC620	MS625	PL30
A25R-MDUNR/L-15	25	200	45	17	23	13	32	DN..1504..	--	MLP44-A	PL25	MC620	MS620	PL30
A32S-MDUNR/L-15	30	250	50	21	30	13	40		DMS432	MLP46-A	PL25	MC620	MS625	PL30

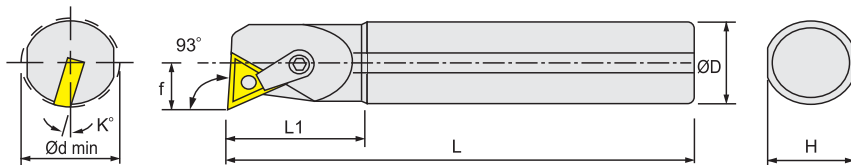
* ISO inserts recommended.

BORING BARS 內徑車刀



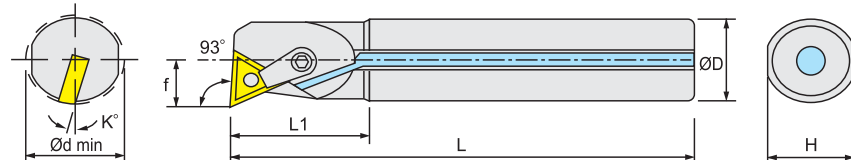
MTUN

S..MTUNR/L-16 鋼柄 Steel shank

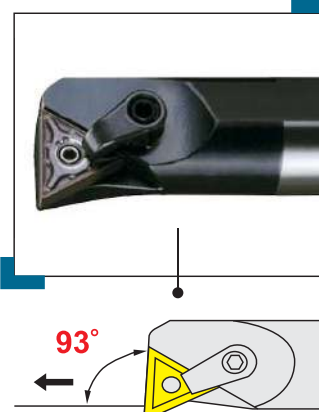


Right-hand shown

A..MTUNR/L-16 鋼柄+中心水孔 Steel shank+coolant hole



Right-hand shown



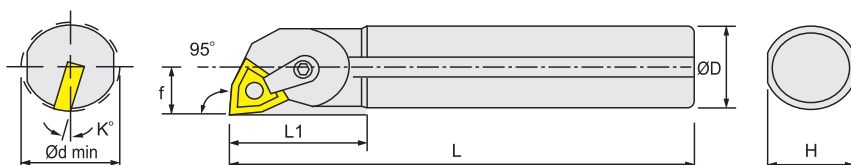
(Unit: mm)

Model No.	Dimensions							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
S20R-MTUNR/L-16	20	200	36	13	18	15	25	TN..1604..	--	MLP33L-A	PL20	MC515	MS520TX	ETL10
S25R-MTUNR/L-16	25	200	40	15.5	23	13	30							
S32S-MTUNR/L-16	32	250	48	19.5	30	13	40	TN..1604..	TMS322	MLP34L-A	PL20	MC620	MS625	PL30
S40T-MTUNR/L-16	40	300	55	25.5	37	10	50							
S50U-MTUNR/L-16	50	350	60	30.5	47	9	60							
S60V-MTUNR/L-16	60	400	60	35.5	57	8	70							
A20R-MTUNR/L-16	20	200	36	13	18	15	25	TN..1604..	--	MLP33L-A	PL20	MC515	MS520TX	ETL10
A25R-MTUNR/L-16	25	200	40	15.5	23	13	30							
A32S-MTUNR/L-16	32	250	48	19.5	30	13	40	TN..1604..	TMS322	MLP34L-A	PL20	MC620	MS625	PL30
A40T-MTUNR/L-16	40	300	55	25.5	37	10	50							

* ISO inserts recommended.

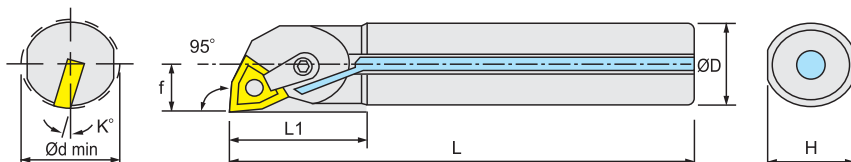
MWLN

S..MWLNR/L-08 鋼柄 Steel shank

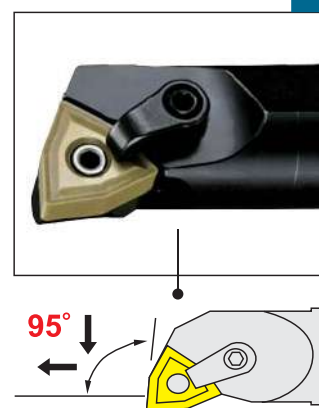


Right-hand shown

A..MWLNR/L-08 鋼柄+中心水孔 Steel shank+coolant hole



Right-hand shown



(Unit: mm)

Model No.	Dimensions							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
S20R-MWLNR/L-08	20	200	36	13	18	15	25	WN..0804..	-	MLP44-A	PL25	MC515	MS520TX	ETL10
S25R-MWLNR/L-08	25	200	40	15	23	13	30							
S32S-MWLNR/L-08	32	250	48	20	30	13	40	WN..0804..	WMS432	MLP46-A	PL25	MC515	MS520TX	ETL10
S40T-MWLNR/L-08	40	300	55	25.5	37	10	50							
S50U-MWLNR/L-08	50	350	60	30.5	47	9	60					MC620	MS625	PL30
S60V-MWLNR/L-08	60	400	60	35.5	57	8	70							
A20R-MWLNR/L-08	20	200	36	13	18	15	25	WN..0804..	-	MLP44-A	PL25	MC515	MS520TX	ETL10
A25R-MWLNR/L-08	25	200	40	15	23	13	30							
A32S-MWLNR/L-08	32	250	48	20	30	13	40							

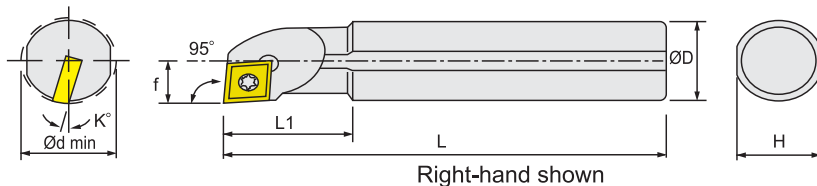
* ISO inserts recommended.

BORING BARS 內徑車刀

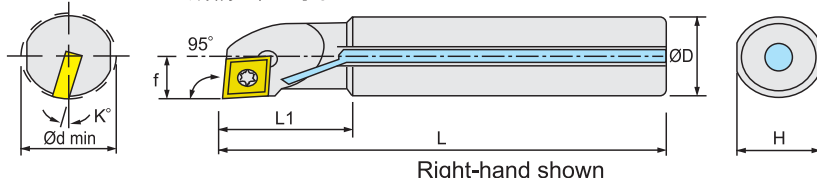


SCLC

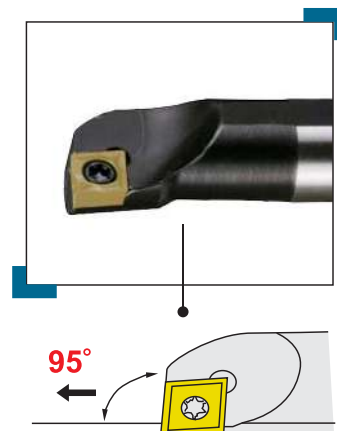
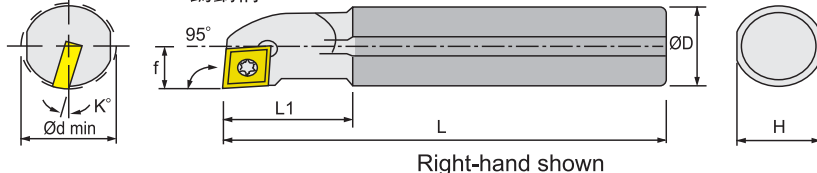
S...SCLCR/L... 鋼柄 Steel shank



A...SCLCR/L... 鋼柄+中心水孔 Steel shank+coolant hole



C...SCLCR/L... 鎢鋼柄 Carbide shank



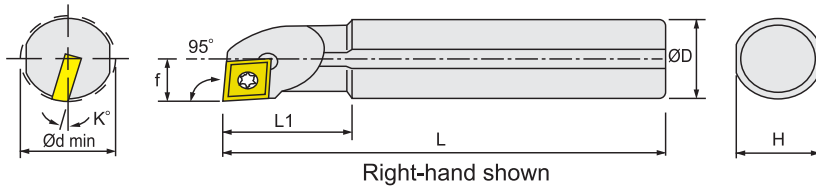
(Unit: mm)

Model No.	Dimensions							Insert	Screw 	Wrench 		
	D	L	L1	f	H	K	dmin					
S08K-SCLCR/L-06	8	125	20	5	7	15	10	CC..0602..	MS2506A	ETF9		
S08K-SCLCR/L-06-D09	8	125	20	4.5	7	15	9					
S10K-SCLCR/L-06	10	125	22	6	9	13	12					
S10K-SCLCR/L-06-D11	10	125	22	5.5	9	13	11					
S12M-SCLCR/L-06	12	150	26	8	11	10	16					
S12M-SCLCR/L-06-D13	12	150	26	6.5	11	10	13					
S14Q-SCLCR/L-06	14	180	26	8	13	10	16					
S16Q-SCLCR/L-06	16	180	32	10	15	7	20					
S12M-SCLCR/L-09	12	150	26	8	11	10	16					
S14Q-SCLCR/L-09	14	180	26	8	13	10	16					
S15Q-SCLCR/L-09	15	180	32	8.5	14	10	17	CC..09T3..	MS4008A	ETF15		
S16Q-SCLCR/L-09	16	180	32	10	15	7	20					
S16Q-SCLCR/L-09-D18	16	180	32	9	15	7	18					
S18Q-SCLCR-09	18	180	32	10	17	7	20					
S20R-SCLCR/L-09	20	200	40	13	18	5	25		MS4009A			
S22R-SCLCR/L-09	22	200	40	12.5	20	5	25					
S25R-SCLCR/L-09	25	200	40	15	23	5	30		CC..09T3..		MS4011A	ETF15
S32S-SCLCR/L-12	32	250	48	20	30	5	38		CC..1204..		MS5011A	ETF20
S40T-SCLCR/L-12	40	300	55	26	37	3	50					
S40V-SCLCR/L-12	40	400	55	26	37	3	50					
A08K-SCLCR/L-06	8	125	20	5	7	15	10					
A08K-SCLCR/L-06-D09	8	125	20	4.5	7	15	9	CC..0602..	MS2506A	ETF9		
A10K-SCLCR/L-06	10	125	22	6	9	13	12					
A10K-SCLCR/L-06-D11	10	125	22	5.5	9	13	11					
A12M-SCLCR/L-06	12	150	26	8	11	10	16					
A12M-SCLCR/L-06-D13	12	150	26	6.5	11	10	13					
A14Q-SCLCR/L-06	14	180	26	8	13	10	16					
A16Q-SCLCR/L-06	16	180	32	10	15	7	20					
A12M-SCLCR/L-09	12	150	26	8	11	10	16					
A16Q-SCLCR/L-09	16	180	32	10	15	7	20					
A16Q-SCLCR/L-09-D18	16	180	32	9	15	7	18				CC..09T3..	MS4008A
A20R-SCLCR/L-09	20	200	40	13	18	5	25	MS4009A				
A25R-SCLCR/L-09	25	200	40	15	23	5	30	CC..09T3..	MS4011A	ETF15		
A32S-SCLCR/L-12	32	250	48	20	30	5	38	CC..1204..	MS5011A	ETF20		
C04H-SCLCR/L-03M	4	100	15	2.5	3.7	15	5	CC..03S1..	MS1603B	ETF6		
C05H-SCLCR/L-03M	5	100	15	3.0	4.7	15	6	CC..03S1..	MS1603B	ETF6		
C06J-SCLCR/L-04K	6	110	15	3.5	5.7	15	7	CC..0401..	MS2004A	ETF6		
C07J-SCLCR/L-06	7	110	18	4	6.7	15	8	CC..0602..	MS2506A	ETF9		
C08K-SCLCR/L-06	8	125	20	5	7.2	15	10	CC..0602..	MS2506A	ETF9		
C08K-SCLCR-06-D09	8	125	20	4.5	7.2	15	9					
C10K-SCLCR/L-06	10	125	22	6	9.2	13	12					
C10K-SCLCR-06-D11	10	125	22	5.5	9.2	13	11					
C12M-SCLCR/L-06	12	150	26	8	11.2	10	16					
C12M-SCLCR-06-D13	12	150	26	6.5	11.2	10	13					
C12M-SCLCR/L-09	12	150	26	8	11.2	10	16					
C16R-SCLCR/L-09	16	200	32	10	15.2	7	20					
C16R-SCLCR/L-09-D18	16	200	32	9	15.2	7	18	CC..09T3..	MS4008A	ETF15		

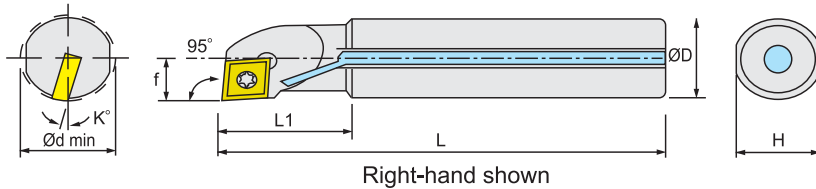
* ISO inserts recommended.

SCLP

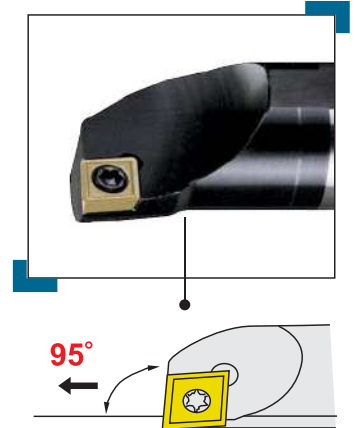
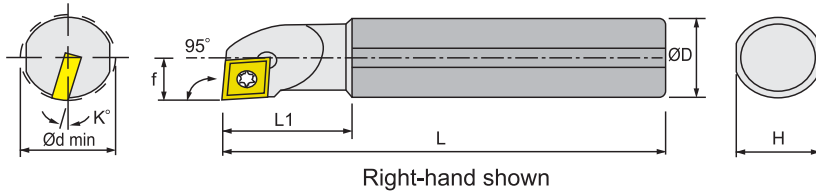
S..SCLPR/L.. 鋼柄 Steel shank



A..SCLPR/L.. 鋼柄+中心水孔 Steel shank+coolant hole



C..SCLPR/L.. 鎢鋼柄 Carbide shank



(Unit: mm)

Model No.	Dimensions							Insert	Screw 	Wrench
	D	L	L1	f	H	K	dmin			
S08K-SCLPR/L-06	8	125	20	5	7	10	10	CP..0602..	MS2506A	ETF9
S10K-SCLPR/L-06	10	125	22	6	9	8	12			
S12M-SCLPR/L-06	12	150	26	8	11	7	16			
S10K-SCLPR/L-08	10	125	22	6	9	8	12	CP..0802..	MS3006A	ETF9
S12M-SCLPR/L-08	12	150	26	8	11	7	16			
S12M-SCLPR/L-08-D13	12	150	26	6.5	11	7	13			
S12M-SCLPR/L-09	12	150	26	8	11	7	16	CP..0903..	MS4008A	ETF15
S16Q-SCLPR/L-09	16	180	32	10	15	7	20			
S16Q-SCLPR/L-09-D18	16	180	32	9	15	7	18			
S20R-SCLPR/L-09	20	200	36	13	18	4	25	CP..0903..	MS4009A	ETF15
S25R-SCLPR/L-09	25	200	40	15	23	0	30			
A08K-SCLPR/L-06	8	125	20	5	7	10	10	CP..0602..	MS2506A	ETF9
A10K-SCLPR/L-06	10	125	22	6	9	8	12			
A10K-SCLPR/L-08	10	125	22	6	9	8	12	CP..0802..	MS3006A	ETF9
A12M-SCLPR/L-08	12	150	26	8	11	7	16			
A12M-SCLPR/L-09	12	150	26	8	11	7	16	CP..0903..	MS4008A	ETF15
A16Q-SCLPR/L-09	16	180	32	10	15	7	20			
A16Q-SCLPR/L-09-D18	16	180	32	10	15	7	18			
A20R-SCLPR/L-09	20	200	40	13	18	4	25	CP..0903..	MS4011A	ETF15
A25R-SCLPR/L-09	25	200	40	15	23	0	30			
C10K-SCLPR-08	10	125	22	6	9.2	8	12	CP..0822..	MS3006A	ETF9
C12M-SCLPR-08	12	150	26	8	11.2	7	16			
C12M-SCLPR-09	12	150	26	8	11.2	7	16			
C16R-SCLPR-09	16	200	32	10	15.2	7	20	CP..0903..	MS4008A	ETF15
C16R-SCLPR-09-D18	16	200	32	10	15.2	7	18			

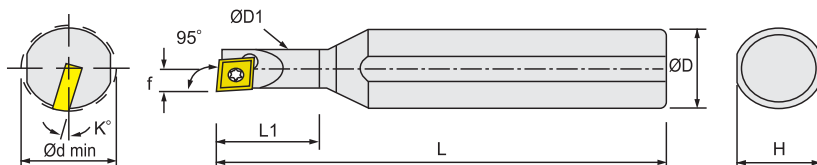
* ISO inserts recommended.

BORING BARS 內徑車刀



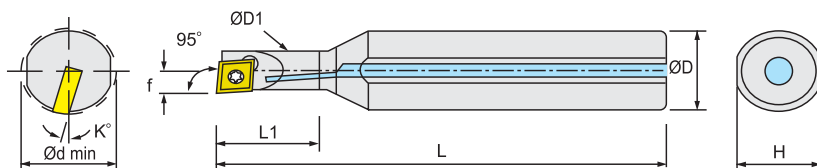
SCLC/P

S...SCLC/PR/L... 鋼柄 Steel shank

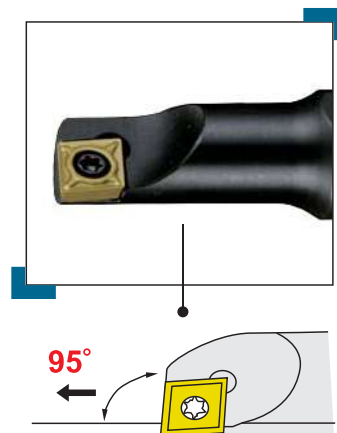


Right-hand shown

A...SCLC/PR/L... 鋼柄+中心水孔 Steel shank+coolant hole



Right-hand shown



(Unit: mm)

Model No.	Dimensions								Insert	Screw	Wrench
	D	D1	L	L1	f	H	K	dmin			
S1004K-SCLCR/L-03M	10	4	125	12	2.5	9	15	5	CC..03S1..	MS1603B	ETF6
S1204H-SCLCR/L-03E-L08	12	4	100	8	2.5	11	15	5	CC..0301..	MS1603B	ETF6
S1206K-SCLCR/L-04K	12	6	125	14	3.5	11	13	7	CC..0401..	MS2004A	ETF6
S1607K-SCLCR/L-06-L20	16	7	125	20	4	15	13	8	CC..0602..	MS2506A	ETF9
S1608K-SCLCR/L-06-L20	16	8	125	20	4.5	15	11	9			
S1608K-SCLCR/L-06-L25	16	8	125	25	4.5	15	11	9			
S1609K-SCLCR/L-06-L25	16	9	125	25	5	15	11	10	CP..0802..	MS3008A	ETF9
S1612M-SCLCR/L-08	16	12	150	30	7	15	7	14			
S2014M-SCLCR/L-08	20	14	150	30	7.5	18	7	15			
S2016Q-SCLCR/L-09	20	16	180	20	10.5	18	7	21	CP..0903..	MS4008A	ETF15
A1004K-SCLCR/L-03M	10	4	125	12	2.5	9	15	5	CC..03S1..	MS1603B	ETF6
A1204H-SCLCR/L-03E-L08	12	4	100	8	2.5	11	15	5	CC..0301..	MS1603B	ETF6
A1206K-SCLCR/L-04K	12	6	125	14	3.5	11	13	7	CC..0401..	MS2004A	ETF6
A1607K-SCLCR/L-06-L20	16	7	125	20	4	15	13	8	CC..0602..	MS2506A	ETF9
A1608K-SCLCR/L-06-L20	16	8	125	20	4.5	15	11	9			
A1608K-SCLCR/L-06-L25	16	8	125	25	4.5	15	11	9			
A1609K-SCLCR/L-06-L25	16	9	125	25	5	15	11	10			
A1612M-SCLCR-08	16	12	150	30	7	15	7	14	CP..0802..	MS3008A	ETF9

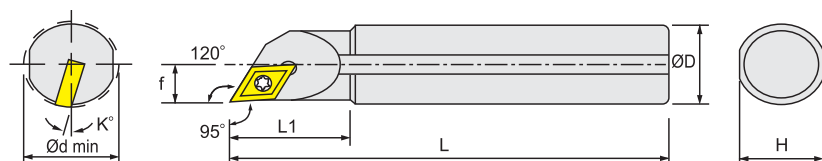
* ISO inserts recommended.

BORING BARS 內徑車刀



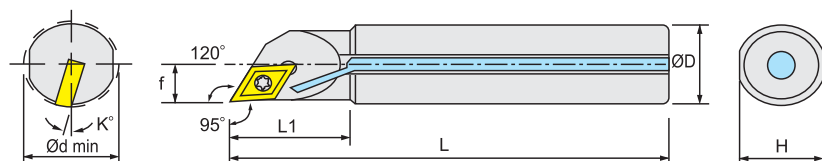
SDJC

■ S..-SDJCR/L-.. 鋼柄 Steel shank

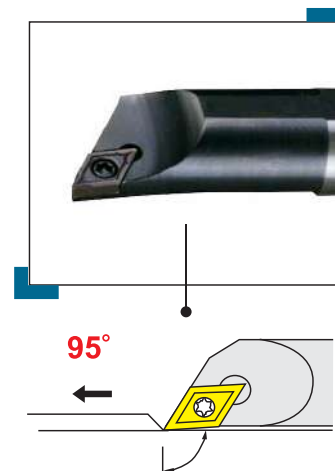


Right-hand shown

■ A..-SDJCR/L-.. 鋼柄+中心水孔 Steel shank+coolant hole



Right-hand shown



(Unit: mm)

Model No.	Dimensions							Insert	Screw	Wrench
	D	L	L1	f	H	K	dmin			
S08K-SDJCR/L-07	8	125	22	5	7	15	10	DC..0702..	MS2506A	ETF9
S10K-SDJCR/L-07	10	125	25	6	9	13	12			
S12M-SDJCR/L-07	12	150	30	7	11	10	14			
S16Q-SDJCR/L-07	16	180	38	9.5	15	7	19			
S16Q-SDJCR/L-11	16	180	38	9.5	15	7	19	DC..11T3..	MS4009A	ETF15
S20R-SDJCR/L-11	20	200	42	11.5	18	7	23			
S25R-SDJCR/L-11	25	200	45	14	23	5	28	DC..11T3..	MS4009A	ETF15
S32S-SDJCR/L-11	32	250	48	17.5	30	5	35			
A08K-SDJCR/L-07	8	125	22	5	7	15	10	DC..0702..	MS2506A	ETF9
A10K-SDJCR/L-07	10	125	25	6	9	13	12			
A12M-SDJCR/L-07	12	150	30	7	11	10	14			
A16Q-SDJCR/L-07	16	180	38	9.5	15	7	19			
A16Q-SDJCR/L-11	16	180	38	9.5	15	7	19	DC..11T3..	MS4009A	ETF15
A20R-SDJCR/L-11	20	200	42	11.5	18	7	23			
A25R-SDJCR/L-11	25	200	45	14	23	5	28			

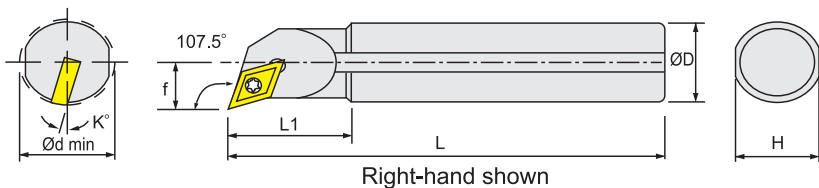
* ISO inserts recommended.

BORING BARS 內徑車刀

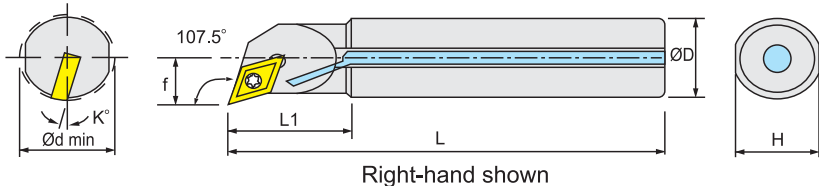


SDQC

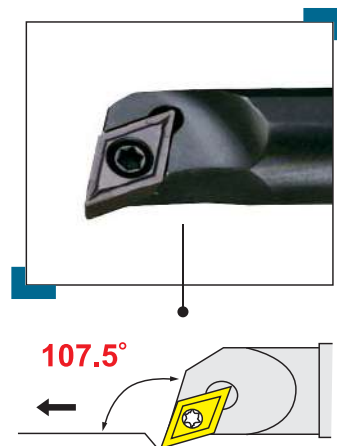
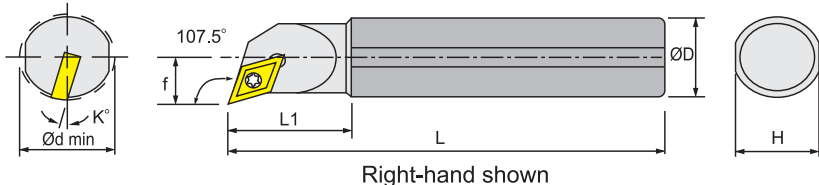
S...SDQCR/L... 鋼柄 Steel shank



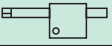
A...SDQCR/L... 鋼柄+中心水孔 Steel shank+coolant hole



C...SDQCR/L... 鎢鋼柄 Carbide shank



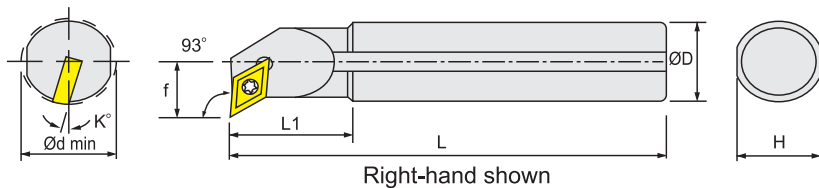
(Unit: mm)

Model No.	Dimensions							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
S10K-SDQCR/L-07	10	125	22	6.5	9	13	13	DC..0702..	MS2506A	ETF9
S12M-SDQCR/L-07	12	150	30	8	11	10	16			
S16Q-SDQCR/L-07	16	180	35	10.25	15	7	20			
S20R-SDQCR/L-07	20	200	40	12.5	18	7	25			
S16Q-SDQCR/L-11	16	180	35	10.5	15	7	20	DC..11T3..	MS4009A	ETF15
S20R-SDQCR/L-11	20	200	40	13	18	7	25			
S25R-SDQCR/L-11	25	200	45	15.5	23	5	32			
S32S-SDQCR/L-11	32	250	48	19.5	30	5	40			
S40T-SDQCR/L-11	40	300	55	25	37	3	50			
S50U-SDQCR/L-11	50	350	60	30	47	2	60			
A10K-SDQCR/L-07	10	125	22	6.5	9	13	13	DC..0702..	MS2506A	ETF9
A12M-SDQCR/L-07	12	150	30	8	11	10	16			
A16Q-SDQCR/L-07	16	180	35	10.25	15	7	20			
A16Q-SDQCR/L-11	16	180	35	10.5	15	7	20	DC..11T3..	MS4009A	ETF15
A20R-SDQCR/L-11	20	200	40	13	18	7	25			
A25R-SDQCR/L-11	25	200	45	15.5	23	5	32			
A32S-SDQCR/L-11	32	250	48	19.5	30	5	40			
A40T-SDQCR/L-11	40	300	55	25	37	3	50			
A50U-SDQCR/L-11	50	350	60	30	47	2	60			
C10M-SDQCR-07	10	150	22	6	9.2	13	13	DC..0702..	MS2506A	ETF9
C12Q-SDQCR-07	12	180	30	8	11.2	10	16			
C16R-SDQCR/L-07	16	200	35	10.25	15.2	7	20			

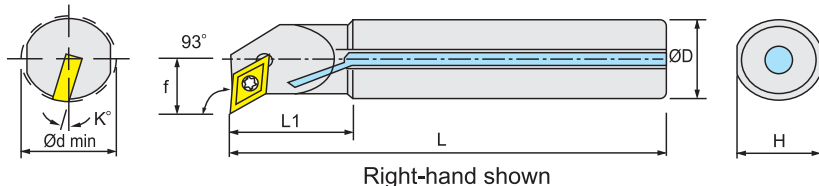
* ISO inserts recommended.

SDUC

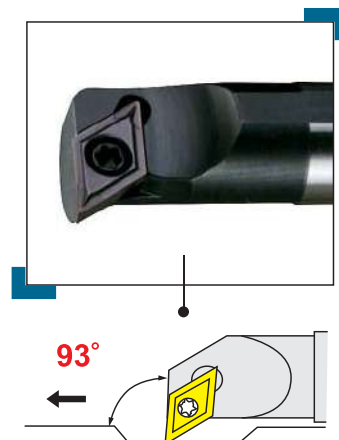
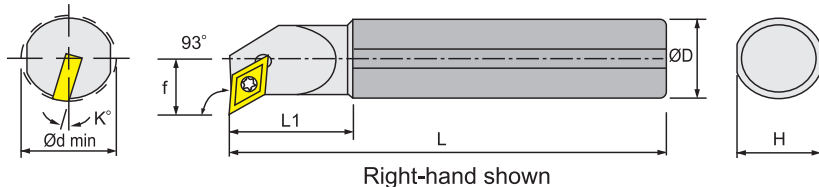
S...SDUCR/L... 鋼柄 Steel shank



A...SDUCR/L... 鋼柄+中心水孔 Steel shank+coolant hole



C...SDUCR/L... 鎢鋼柄 Carbide shank



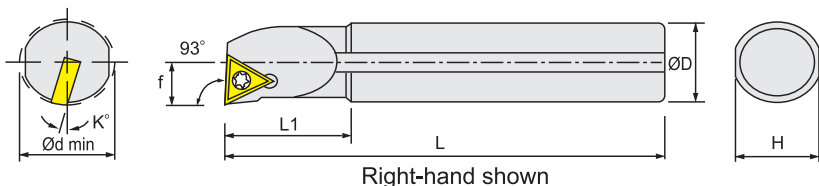
(Unit: mm)

Model No.	Dimensions							Insert	Screw 	Wrench
	D	L	L1	f	H	K	dmin			
S10K-SDUCR/L-07	10	125	25	7	9	13	13	DC..0702..	MS2506A	ETF9
S12M-SDUCR/L-07	12	150	30	8.5	11	10	16			
S16Q-SDUCR/L-07	16	180	30	11	15	7	20			
S20R-SDUCR/L-07	20	200	40	12.5	18	7	25			
S16Q-SDUCR/L-11	16	180	30	11	15	7	20	DC..11T3..	MS4009A	ETF15
S20R-SDUCR/L-11	20	200	40	13	18	7	25			
S25R-SDUCR/L-11	25	200	45	16	23	5	32			
S32S-SDUCR/L-11	32	250	48	20	30	5	40			
S40T-SDUCR/L-11	40	300	55	26	37	3	50	DC..0702..	MS2506A	ETF9
A10K-SDUCR/L-07	10	125	25	7	9	13	13			
A12M-SDUCR/L-07	12	150	30	8.5	11	10	16			
A16Q-SDUCR/L-07	16	180	30	11	15	7	20			
A16Q-SDUCR/L-11	16	180	30	11	15	7	20	DC..11T3..	MS4009A	ETF15
A20R-SDUCR/L-11	20	200	40	13	18	7	25			
A25R-SDUCR/L-11	25	200	45	16	23	5	32			
A32S-SDUCR/L-11	32	250	48	20	30	5	40			
A40T-SDUCR/L-11	40	300	55	26	37	3	50	DC..0702..	MS2506A	ETF9
C10M-SDUCR-07	10	150	25	7	9.2	13	13			
C12Q-SDUCR-07	12	180	30	8.5	11.2	10	16			
C16R-SDUCR-11	16	200	30	11	15.2	7	20	DC..11T3..	MS4009A	ETF15

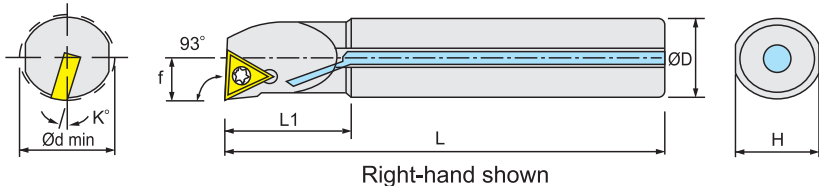
* ISO inserts recommended.

STUB/C

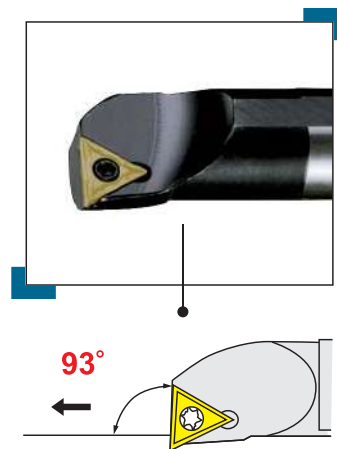
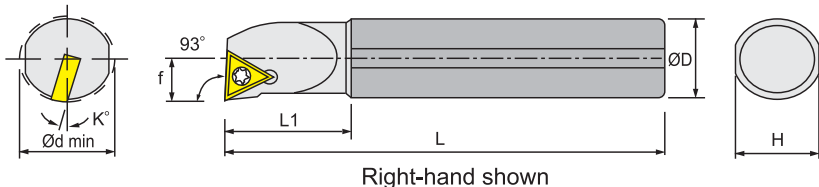
■ S..-STUB/CR/L... 鋼柄 Steel shank



■ A..-STUB/CR/L... 鋼柄+中心水孔 Steel shank+coolant hole



■ C..-STUB/CR/L... 鎢鋼柄 Carbide shank



(Unit: mm)

Model No.	Dimensions							Insert	Screw 	Wrench
	D	L	L1	f	H	K	dmin			
S06H-STUBR/L-06	6	100	15	3.5	5	15	7	TB..0601..	MS2004A	ETF6
S08K-STUBR/L-06-D9	8	125	20	4.5	7	15	9	TC..0902..	MS2205A	ETF7
S08K-STUCR/L-09	8	125	20	5.5	7	15	10		MS2206A	
S10K-STUCR/L-09	10	125	22	6	9	13	12			
S10K-STUCR/L-09-D11	10	125	22	5.5	9	13	11			
S12M-STUCR-09	12	150	26	8	11	10	16			
S14M-STUCR-09	14	150	26	8	13	10	16	TC..1102..	MS2506A	ETF9
S10K-STUCR/L-11	10	125	22	6	9	13	12			
S12M-STUCR/L-11	12	150	26	8	11	10	16			
S12M-STUCR/L-11-D13	12	150	26	6.5	11	10	13			
S16Q-STUCR/L-11	16	180	32	10	15	7	20			
S16Q-STUCR/L-11-D18	16	180	32	9	15	7	18	TC..16T3..	MS4011A	ETF15
S20R-STUCR/L-16	20	200	40	13	18	7	25			
S25R-STUCR/L-16	25	200	40	15	23	5	30			
S32S-STUCR/L-16	32	250	48	20	30	5	38			
S32T-STUCR/L-16	32	300	48	20	30	5	38			
A08K-STUCR/L-09	8	125	20	5.5	7	15	10	TC..0902..	MS2205A	ETF7
A10K-STUCR/L-09	10	125	22	6	9	13	12		MS2206A	
A10K-STUCR/L-11	10	125	22	6	9	13	12	TC..1102..	MS2506A	ETF9
A12M-STUCR/L-11	12	150	26	8	11	10	16			
A16Q-STUCR/L-11	16	180	32	10	15	7	20	TC..16T3..	MS4011A	ETF15
A20R-STUCR/L-16	20	200	40	13	18	7	25			
A25R-STUCR/L-16	25	200	40	15	23	5	30			
A32S-STUCR/L-16	32	250	48	20	30	5	38			
A32T-STUCR/L-16	32	300	48	20	30	5	38			
C06J-STUBR-06	6	110	15	3.5	5.7	15	7	TB..0601..	MS2004A	ETF6
C08K-STUBR/L-06-D09	8	125	20	4.5	7.2	15	9	TC..0902..	MS2205A	ETF7
C08K-STUCR/L-09	8	125	20	5.5	7.2	15	10		MS2206A	
C10K-STUCR-09	10	125	22	6	9.2	13	12	TC..1102..	MS2506A	ETF9
C10K-STUCR-11	10	125	22	6	9.2	13	12			
C12M-STUCR/L-11	12	150	26	8	11.2	10	16			
C16R-STUCR-11	16	200	32	10	15.2	7	20			
C16R-STUCR-11-D18	16	200	32	9	15.2	7	18			

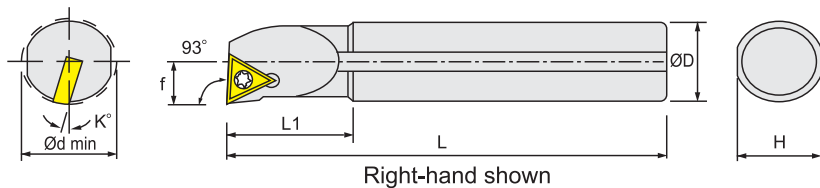
* ISO inserts recommended.

BORING BARS 內徑車刀

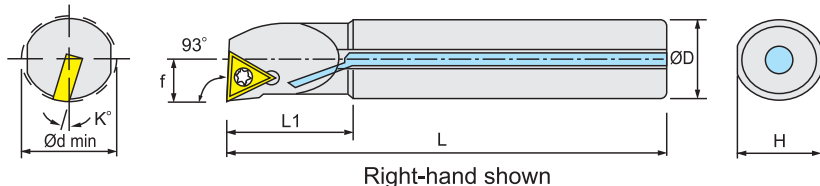


STUP

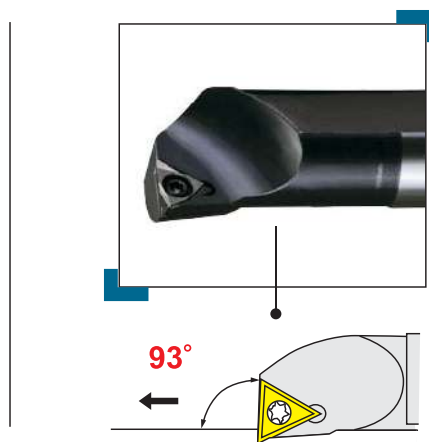
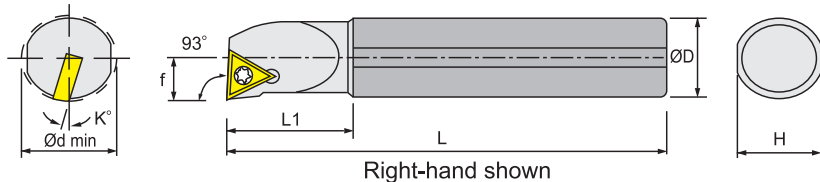
S...STUPR/L... 鋼柄 Steel shank



A...STUPR/L... 鋼柄+中心水孔 Steel shank+coolant hole



C...STUPR/L... 鎢鋼柄 Carbide shank



(Unit: mm)

Model No.	Dimensions							Insert	Screw	Wrench
	D	L	L1	f	H	K	dmin			
S08K-STUPR/L-08	8	125	20	5.5	7	10	10	TP..0802..	MS2205A	ETF7
S08K-STUPR/L-08-D09	8	125	20	4.5	7	10	9			
S10K-STUPR/L-08	10	125	22	6	9	8	12			
S10K-STUPR/L-08-D11	10	125	22	5.5	9	8	11		MS2206A	
S12M-STUPR/L-08	12	150	26	8	11	8	16	TP..0902..		ETF9
S16Q-STUPR/L-08-D18	16	180	32	9	15	7	18			
S08K-STUPR/L-09	8	125	20	5.5	7	10	10		MS2506A	
S10K-STUPR/L-09	10	125	22	6	9	8	12			
S10K-STUPR/L-09-D11	10	125	22	5.5	9	8	11	TP..1103..	MS3008A	ETF9
S10K-STUPR/L-11	10	125	22	6	9	8	12			
S12M-STUPR/L-11	12	150	26	8	11	8	16			
S12M-STUPR/L-11-D13	12	150	26	6.5	11	8	13			
S14Q-STUPR/L-11	14	180	26	8	13	7	16			
S15Q-STUPR/L-11	15	180	32	8.5	14	7	17			
S16Q-STUPR/L-11	16	180	32	10	15	7	20			
S16Q-STUPR/L-11-D18	16	180	32	9	15	7	18			
S18Q-STUPR/L-11	18	180	32	10	17	7	20			
S20R-STUPR/L-11	20	200	40	13	18	7	25			
S22R-STUPR-11	22	200	40	13	20	5	25			
S23R-STUPR-11	23	200	40	13	21	5	26			
S25R-STUPR/L-11	25	200	40	15	23	0	30			
S20R-STUPR/L-1603	20	200	40	13	18	4	25	TP..1603..	MS4011A	ETF15
S25R-STUPR/L-1603	25	200	40	16	23	0	30			
S32S-STUPR/L-1603	32	250	48	20	30	0	38			
S20R-STUPR/L-16T3	20	200	40	13	18	4	25	TP..16T3..	MS4011A	ETF15
S25R-STUPR/L-16T3	25	200	40	16	23	0	30			
S32S-STUPR/L-16T3	32	250	48	20	30	0	38			
S20R-STUPR/L-1604	20	200	40	13	18	4	25	TP..1604..	MS4011A	ETF15
S25R-STUPR/L-1604	25	200	40	16	23	0	30			
S32S-STUPR/L-1604	32	250	48	20	30	0	38			
A08K-STUPR/L-08	8	125	20	5.5	7	10	10	TP..0802..	MS2205A	ETF7
A08K-STUPR/L-08-D09	8	125	20	4.5	7	10	9			
A10K-STUPR/L-08	10	125	22	6	9	8	12			
A10K-STUPR/L-08-D11	10	125	22	5.5	9	8	11		MS2206A	
A08K-STUPR/L-09	8	125	20	5.5	7	10	10	TP..0902..	MS2506A	ETF9
A10K-STUPR/L-09	10	125	22	6	9	8	12			
A10K-STUPR/L-09-D11	10	125	22	5.5	9	8	11			

* ISO inserts recommended.

STUP

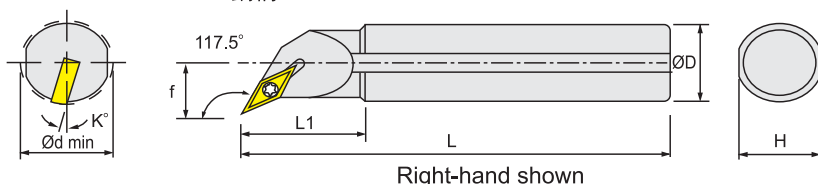
(Unit: mm)

Model No.	Dimensions							Insert	Screw	Wrench
	D	L	L1	f	H	K	dmin			
A10K-STUPR/L-11	10	125	22	6	9	8	12	TP..1103..	MS3008A	ETF9
A12M-STUPR/L-11	12	150	26	8	11	8	16			
A12M-STUPR/L-11-D13	12	150	26	6.5	11	8	13			
A16Q-STUPR/L-11	16	180	32	10	15	7	20			
A16Q-STUPR/L-11-D18	16	180	32	9	15	7	18			
A20R-STUPR/L-11	20	200	40	13	18	7	25	TP..1603..	MS4011A	ETF15
A25R-STUPR/L-11	25	200	40	15	23	0	30			
A20R-STUPR/L-1603	20	200	40	13	18	4	25			
A25R-STUPR/L-1603	25	200	40	16	23	0	30			
A32S-STUPR/L-1603	32	250	48	20	30	0	38			
A20R-STUPR/L-16T3	20	200	40	13	18	4	25	TP..16T3..	MS4011A	ETF15
A25R-STUPR/L-16T3	25	200	40	16	23	0	30			
A32S-STUPR/L-16T3	32	250	48	20	30	0	38			
A20R-STUPR/L-1604	20	200	40	13	18	4	25	TP..1604...	MS4011A	ETF15
A25R-STUPR/L-1604	25	200	40	16	23	0	30			
A32S-STUPR/L-1604	32	250	48	20	30	0	38			
C08K-STUPR/L-08	8	125	20	5.5	7.2	10	10	TP..0802..	MS2205A	ETF7
C08K-STUPR/L-09	8	125	20	5.5	7.2	10	10	TP..0902..	MS2506A	ETF9
C10K-STUPR/L-09	10	125	22	6	9.2	8	12			
C10K-STUPR/L-11	10	125	22	6	9.2	8	12	TP..1103..	MS3008A	ETF9
C12M-STUPR/L-11	12	150	26	8	11.2	8	16			
C12M-STUPR/L-11-D13	12	150	26	6.5	11.2	10	13			
C16R-STUPR/L-11	16	200	32	10	15.2	7	20			
C16R-STUPR/L-11-D18	16	200	32	9	15.2	7	18			

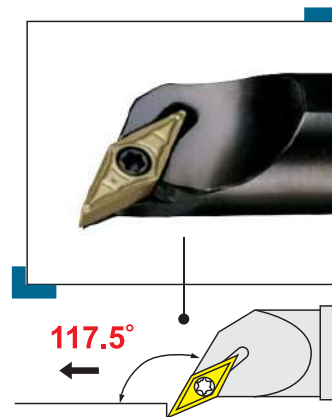
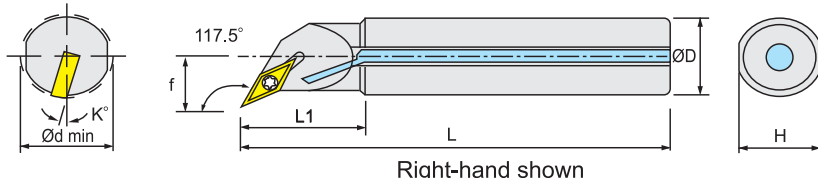
* ISO inserts recommended.

SVQB/C

■ S...SVQB/CR/L... 鋼柄 Steel shank



■ A...SVQB/CR/L... 鋼柄+中心水孔 Steel shank+coolant hole



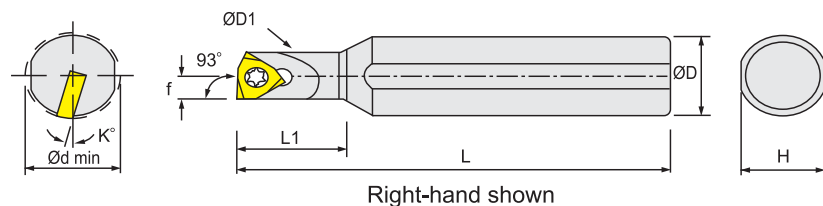
(Unit: mm)

Model No.	Dimensions							Insert	Shim	Screw	Wrench	Screw	Wrench
	D	L	L1	f	H	K	dmin						
S12M-SVQBR/L-11	12	150	28	9	11	10	16	VB..1103..	--	--	--	MS2506A	ETF9
S16Q-SVQBR/L-11	16	180	35	11	15	7	20		--	--	--	MS3509B	ETF15
S20R-SVQBR/L-11	20	200	40	13	18	7	25		--	--	--	MS3512B	ETF15
S25R-SVQBR/L-16	25	200	45	16	23	5	32	VB..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
S32S-SVQBR/L-16	32	250	48	20	30	5	40		--	--	--	MS2506A	ETF9
S40T-SVQBR/L-16	40	300	60	25.5	37	5	50		--	--	--	MS3509B	ETF15
S12M-SVQCR/L-11	12	150	28	9	11	10	16	VC..1103..	--	--	--	MS2506A	ETF9
S16Q-SVQCR/L-11	16	180	35	11	15	7	20		--	--	--	MS3509B	ETF15
S20R-SVQCR/L-11	20	200	40	13	18	7	25		--	--	--	MS3512B	ETF15
S25R-SVQCR/L-16	25	200	45	16	23	5	32	VC..1064..	VSS322	MDS05035T	PL35	MS3512B	ETF15
S32S-SVQCR/L-16	32	250	48	20	30	5	40		--	--	--	MS2506A	ETF9
S40T-SVQCR/L-16	40	300	60	25.5	37	5	50		--	--	--	MS3509B	ETF15
A16Q-SVQBR/L-11	16	180	35	11	15	7	20	VB..1103..	--	--	--	MS2506A	ETF9
A20R-SVQBR/L-11	20	200	40	13	18	7	25	VB..1604..	--	--	--	MS3509B	ETF15
A25R-SVQBR/L-16	25	200	45	16	23	5	32	VB..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
A32S-SVQBR/L-16	32	250	48	20	30	5	40	VC..1103..	--	--	--	MS2506A	ETF9
A16Q-SVQCR/L-11	16	180	35	11	15	7	20	VC..1604..	--	--	--	MS3509B	ETF15
A20R-SVQCR/L-11	20	200	40	13	18	7	25	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
A25R-SVQCR/L-16	25	200	45	16	23	5	32	VC..1604..	--	--	--	MS2506A	ETF9
A32S-SVQCR/L-16	32	250	48	20	30	5	40	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15

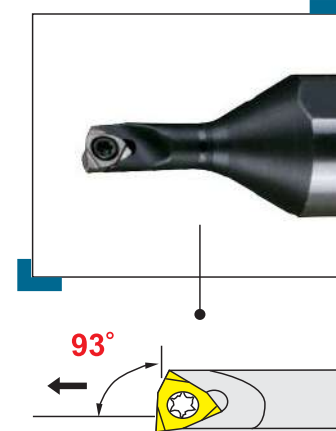
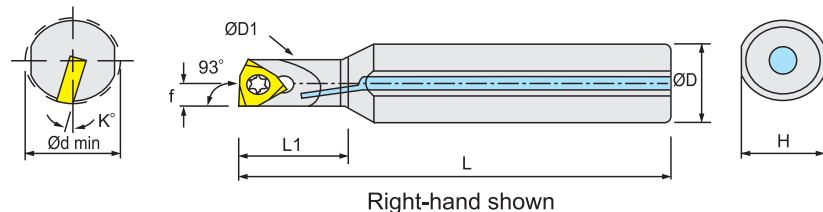
* ISO inserts recommended.

SWUB

■ S..-SWUBR/L-.. 鋼柄 Steel shank



■ A..-SWUBR/L-.. 鋼柄+中心水孔 Steel shank+coolant hole



(Unit: mm)

Model No.	Dimensions								Insert	Screw 	Wrench 
	D	D1	L	L1	f	H	K	dmin			
S1005K-SWUBR/L-06-L15	10	5	125	15	3.0	9	12	6	WB..0601..	MS2003A	ETF6
S1205K-SWUBR/L-06-L15	12	5	125	15	3.0	11	12	6			
S1605K-SWUBR/L-06-L15	16	5	125	15	3.0	15	12	6			
S1006K-SWUBR/L-06-L18	10	6	125	18	3.5	9	12	7			
S1007K-SWUBR/L-06-L20	10	7	125	20	4.0	9	12	8			
A1005K-SWUBR/L-06-L15	10	5	125	15	3.0	9	12	6	WB..0601..	MS2003A	ETF6
A1205K-SWUBR/L-06-L15	12	5	125	15	3.0	11	12	6			
A1605K-SWUBR/L-06-L15	16	5	125	15	3.0	15	12	6			
A1006K-SWUBR/L-06-L18	10	6	125	18	3.5	9	12	7			
A1007K-SWUBR/L-06-L20	10	7	125	20	4.0	9	12	8			

* ISO inserts recommended.

SLEEVE FOR BORING BARS 內徑車刀套筒



■ NC

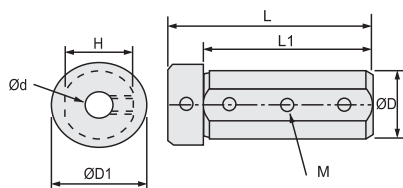


FIG.1

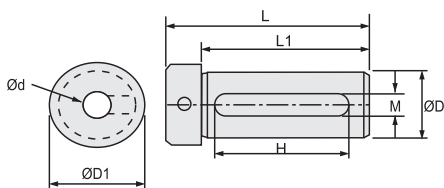


FIG.2

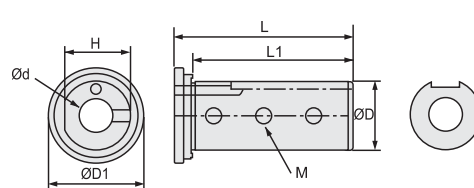


FIG.3

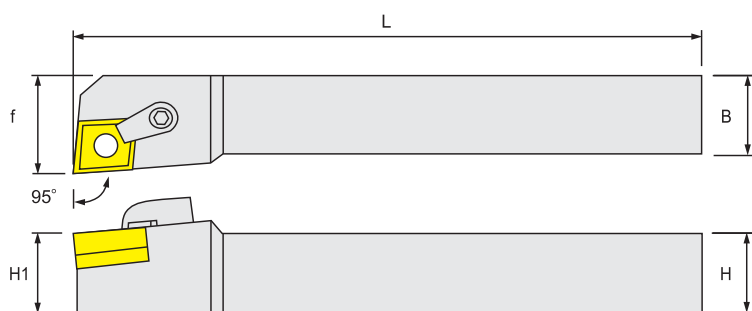
(Unit: mm)

Model No.	Dimensions							SHAPE	
	d	D	L	L1	D1	H	M		
NC16-03	3	16	62	55	20	14.5	M4	FIG.1	
NC16-04	4								
NC16-06	6								
NC16-08	8								
NC16-10	10	16	62	55	19	50	11	FIG.2	
NC16-12	12								
NC20-06	6	20	67	60	27	17.5	M6	FIG.1	
NC20-07	7								
NC20-08	8								
NC20-10	10								
NC20-12	12								
NC20-14	14	20	67	60	27	55	13	FIG.2	
NC20-15	15								
NC20-16	16								
NC20S-06	6	20	51	45	27	17.5	M6	FIG.1	
NC20S-08	8								
NC20S-10	10								
NC20S-12	12								
NC20S-16	16	20	51	45	27	40	11	FIG.2	
NC25-06A	6	25	64	58	35	23.5	M6	FIG.3	
NC25-07A	7								
NC25-08A	8								
NC25-10A	10								
NC25-12A	12	25	64	58	35	51	12	FIG.2	
NC25-14	14								
NC25-15	15								
NC25-16	16								
NC25-18	18								
NC25-20	20								
NC25-22	22	32	80	65	38	29.5	M5	FIG.1	
NC32-04	4						M6		
NC32-05	5								
NC32-06	6		85	70	38	29.5	M8	FIG.1	
NC32-07	7								
NC32-08	8	32	100	85					38
NC32-10	10								
NC32-12	12								
NC32-14	14								
NC32-15	15								
NC32-16	16								
NC32-18	18	32	100	85	38	77	14	FIG.2	
NC32-20	20								
NC32-22	22								
NC32-25	25								
NC40-06	6	40	100	85	46	38	M6	FIG.1	
NC40-07	7						M8		
NC40-08	8								
NC40-10	10								
NC40-12	12								
NC40-14	14								
NC40-16	16								
NC40-18	18								
NC40-20	20	40	100	85	46	77	14	FIG.2	
NC40-22	22								
NC40-25	25								
NC40-32	32								
NC50-08	8	50	100	85	58	48	M8	FIG.1	
NC50-10	10								
NC50-12	12								
NC50-16	16								
NC50-20	20								
NC50-25	25								
NC50-32	32	50	100	85	58	77	14	FIG.2	
NC50-40	40								

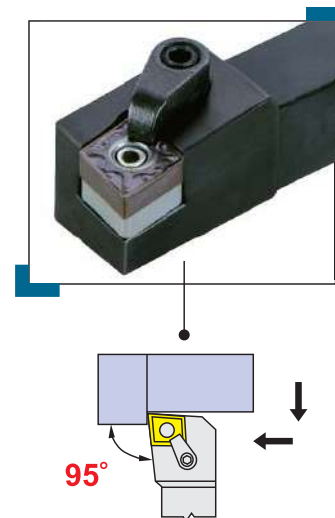
TOOL HOLDER 外徑車刀



MCLN



Right-hand shown

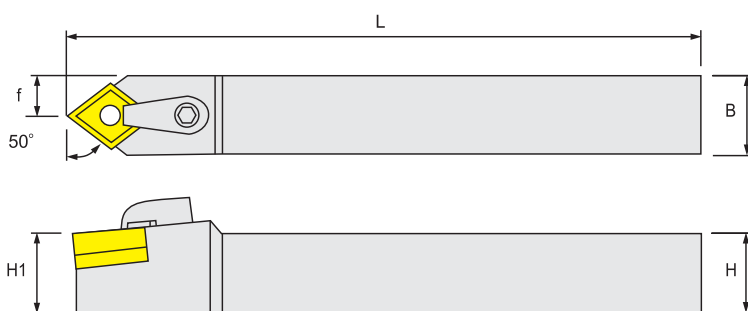


(Unit: mm)

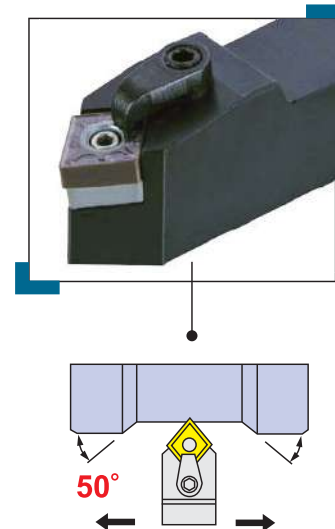
Model No.	Dimensions					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
MCLNR/L-1616K-12	16	16	125	16	20	CN..1204..	MLP46-A	CMS432	PL25	MS625	MC620	PL30
MCLNR/L-2020K-12	20	20	125	20	25					MS630		
MCLNR/L-2525M-12	25	25	150	25	32							
MCLNR/L-3232P-12	32	32	170	32	40							

* ISO inserts recommended.

MCNN



Right-hand shown

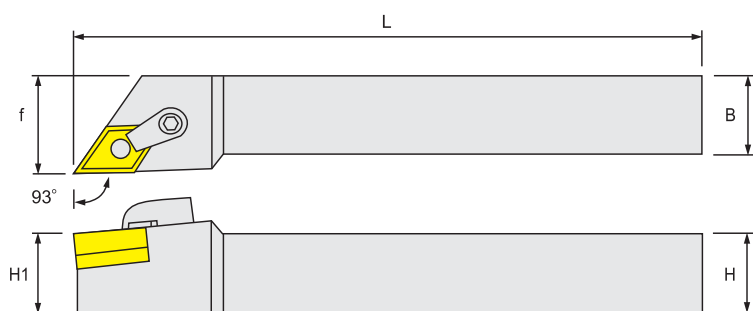


(Unit: mm)

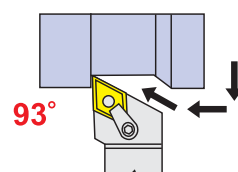
Model No.	Dimensions					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
MCNNN-1616K-12	16	16	125	16	8	CN..1204..	MLP46-A	CMS432	PL25	MS625	MC620	PL30
MCNNN-2020K-12	20	20	125	20	10					MS630		
MCNNN-2525M-12	25	25	150	25	12.5							
MCNNN-3232P-12	32	32	170	32	16							

* ISO inserts recommended.

MDJN



Right-hand shown

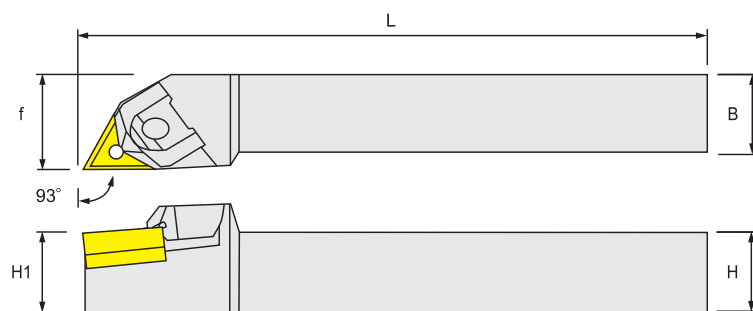


(Unit: mm)

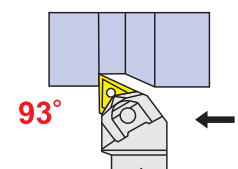
Model No.	Dimensions					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
MDJNR/L-2020K-1504	20	20	125	20	25	DN..1504..	MLP46L-A	DMS442	PL25	MS625	MC622	PL30
MDJNR/L-2525M-1504	25	25	150	25	32					MS630		
MDJNR/L-2020K-1506	20	20	125	20	25	DN..1506..	MLP46L-A	DMS432	PL25	MS625	MC622	PL30
MDJNR/L-2525M-1506	25	25	150	25	32					MS630		

* ISO inserts recommended.

MTJN



Right-hand shown



(Unit: mm)

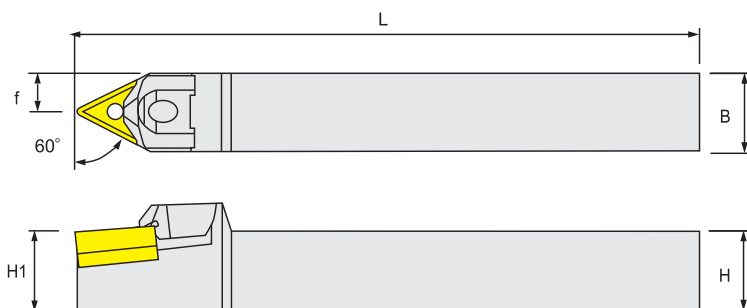
Model No.	Dimensions					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
MTJNR/L-1216K-16	12	16	125	12	21	TN..1604..	MCP3	MCS3S-11	PL30	TWS322	MCW3-P40	PL40
MTJNR/L-1616K-16	16	16	125	16	21							
MTJNR/L-2020K-16	20	20	125	20	25							
MTJNR/L-2525M-16	25	25	150	25	32							
MTJNR/L-3232P-16	32	32	170	32	40							

* ISO inserts recommended.

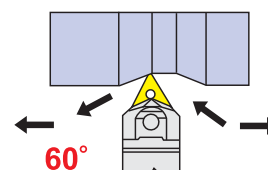
TOOL HOLDER 外徑車刀



MTEN



Right-hand shown

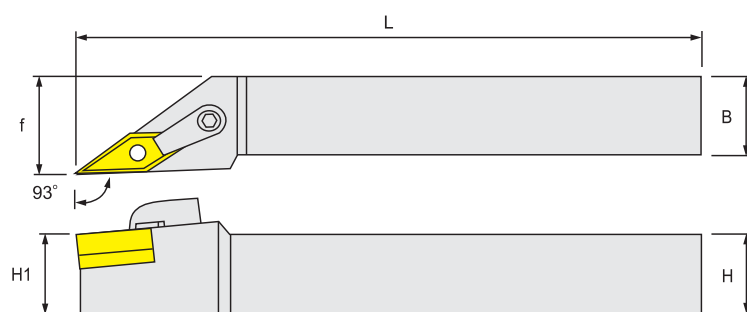


(Unit: mm)

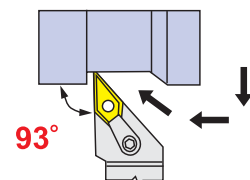
Model No.	Dimensions					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
MTENN-1216K-16	12	16	125	12	8	TN..1604..	MCP3	MCS3S-09	PL30	TWS322	MCW3-P40	PL40
MTENN-1616K-16	16	16	125	16	8							
MTENN-2020K-16	20	20	125	20	10							
MTENN-2525M-16	25	25	150	25	12.5							

* ISO inserts recommended.

MVJN



Right-hand shown

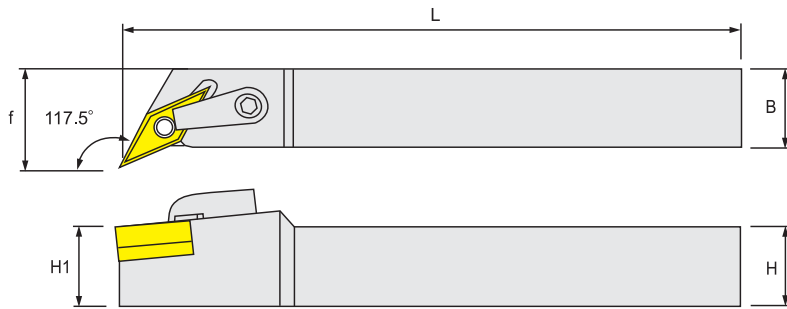


(Unit: mm)

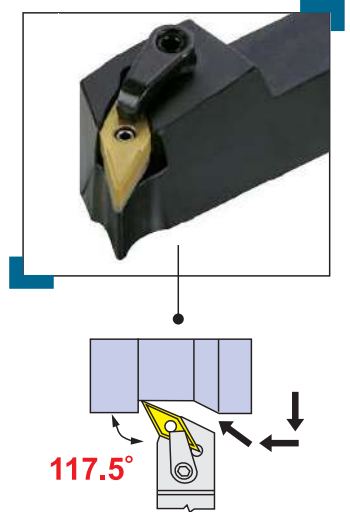
Model No.	Dimensions					Insert						
	H	B	L	H1	f							
MVJNR/L-1616K-16	16	16	125	16	22	VN..1604..	MLP34L-A	VMS322	PL20	MS625	MC622	PL30
MVJNR/L-2020K-16	20	20	125	20	25					MS630		
MVJNR/L-2525M-16	25	25	150	25	32							

* ISO inserts recommended.

■ MVQN



Right-hand shown

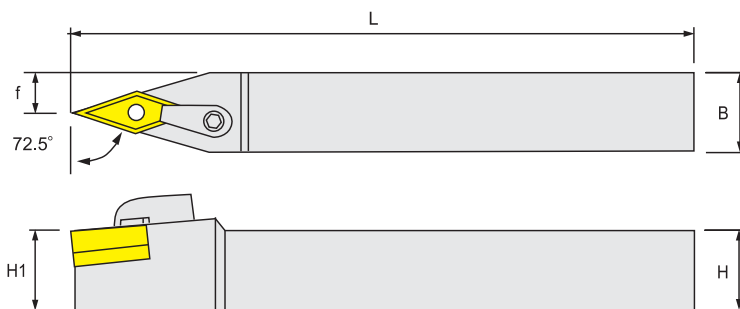


(Unit: mm)

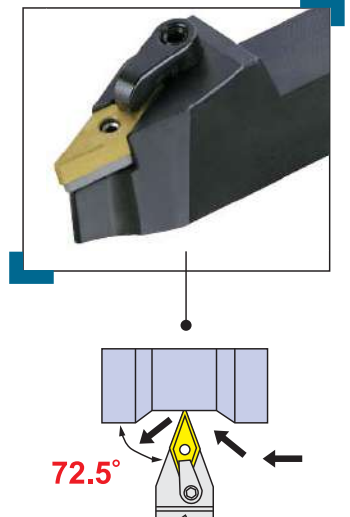
Model No.	Dimensions					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
MVQNR/L-2020K-16	20	20	125	20	25	VN..1604..	MLP34L-A	VMS322	PL20	MS625	MC622	PL30
MVQNR/L-2525M-16	25	25	150	25	32					MS630		

* ISO inserts recommended.

■ MVVN



Right-hand shown



(Unit: mm)

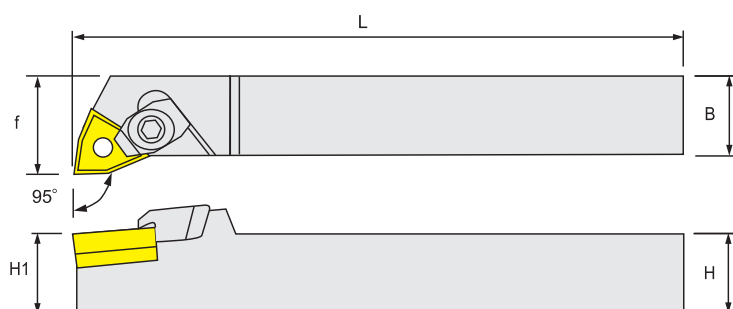
Model No.	Dimensions					Insert						
	H	B	L	H1	f							
MVVNN-1616K-16	16	16	125	16	8	VN..1604..	MLP34L-A	VMS322	PL20	MS625	MC622	PL30
MVVNN-2020K-16	20	20	125	20	10					MS630		
MVVNN-2525M-16	25	25	150	25	12.5							

* ISO inserts recommended.

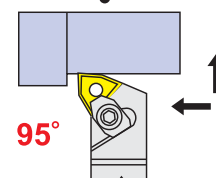
TOOL HOLDER 外徑車刀



WWLN



Right-hand shown

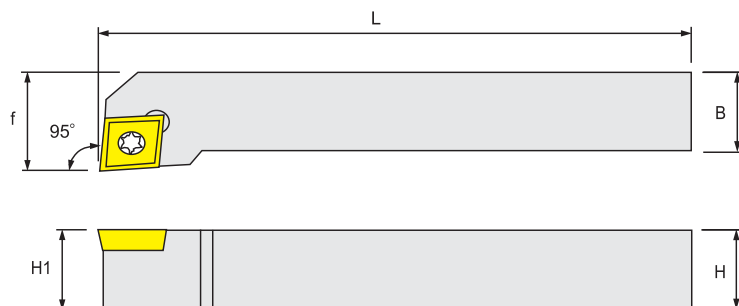


(Unit: mm)

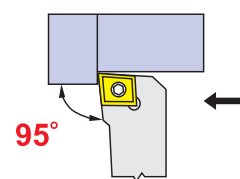
Model No.	Dimensions					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
WWLNR/L-2020K-08	20	20	125	20	25	WN..0804..	MCP4	MCS3S-09	PL30	WMS432	WCW6-P4	PL40
WWLNR/L-2525M-08	25	25	150	25	32							

* ISO inserts recommended.

SCLC



Right-hand shown



(Unit: mm)

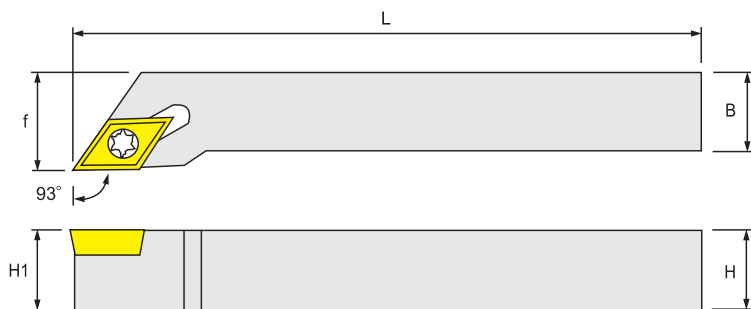
Model No.	Dimensions					Insert	Screw	Wrench
	H	B	L	H1	f			
SCLCR/L-1010H-06	10	10	100	10	12	CC..0602..	MS2506A	ETF9
SCLCR/L-1010K-06	10	10	125	10	12			
SCLCR/L-1212H-09	12	12	100	12	16			
SCLCR/L-1212K-09	12	12	125	12	16	CC..09T3..	MS4011A	ETF15
SCLCR/L-1616K-09	16	16	125	16	20			
SCLCR/L-2020K-09	20	20	125	20	25			
SCLCR/L-2525M-09	25	25	150	25	32	CC..1204..	MS5011A	ETF20
SCLCR/L-2020K-12	20	20	125	20	25			
SCLCR/L-2525M-12	25	25	150	25	32			

* ISO inserts recommended.

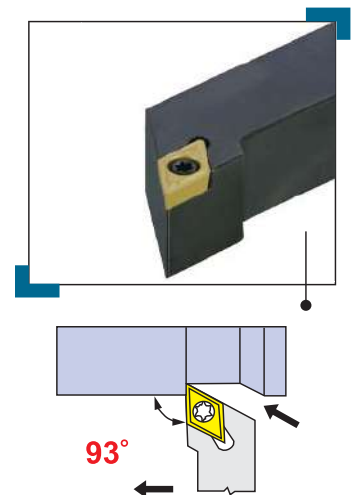
TOOL HOLDER 外徑車刀



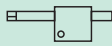
SDJC



Right-hand shown

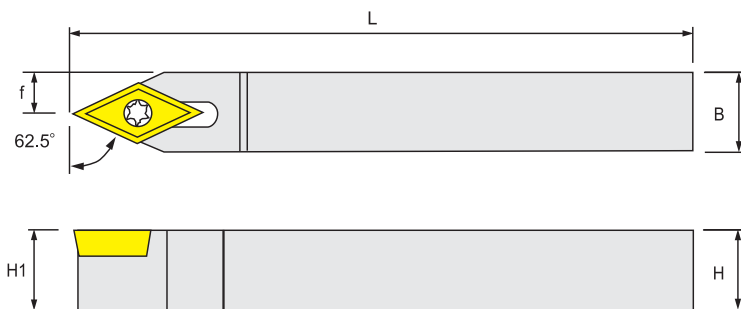


(Unit: mm)

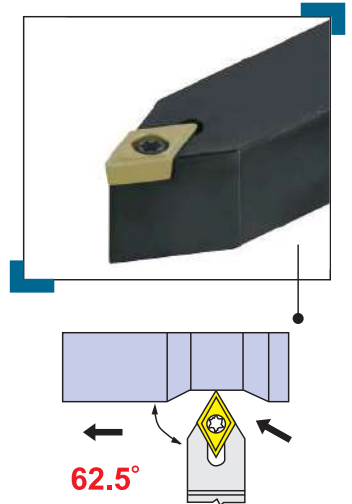
Model No.	Dimensions					Insert	Screw 	Wrench 
	H	B	L	H1	f			
SDJCR/L-1010H-07	10	10	100	10	12	DC..0702..	MS2506A	ETF9
SDJCR/L-1212H-07	12	12	100	12	16			
SDJCR/L-1212K-07	12	12	125	12	16			
SDJCR/L-1616K-07	16	16	125	16	20			
SDJCR/L-2020K-07	20	20	125	20	25			
SDJCR/L-1212H-11	12	12	100	12	16	DC..11T3..	MS4011A	ETF15
SDJCR/L-1212K-11	12	12	125	12	16			
SDJCR/L-1616K-11	16	16	125	16	20			
SDJCR/L-2020K-11	20	20	125	20	25			
SDJCR/L-2525M-11	25	25	150	25	32			

* ISO inserts recommended.

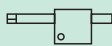
SDNC



Right-hand shown



(Unit: mm)

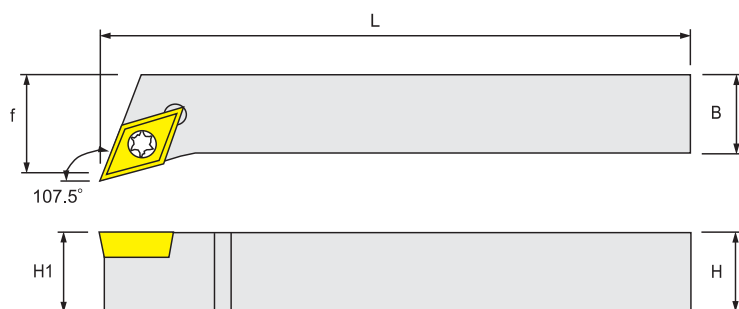
Model No.	Dimensions					Insert	Screw 	Wrench 
	H	B	L	H1	f			
SDNCN-1010H-07	10	10	100	10	5	DC..0702..	MS2506A	ETF9
SDNCN-1212H-07	12	12	100	12	6			
SDNCN-1616K-07	16	16	125	16	8			
SDNCN-1212H-11	12	12	100	12	6			
SDNCN-1212K-11	12	12	125	12	6			
SDNCN-1616K-11	16	16	125	16	8	DC..11T3..	MS4011A	ETF15
SDNCN-2020K-11	20	20	125	20	10			
SDNCN-2525M-11	25	25	150	25	12.5			

* ISO inserts recommended.

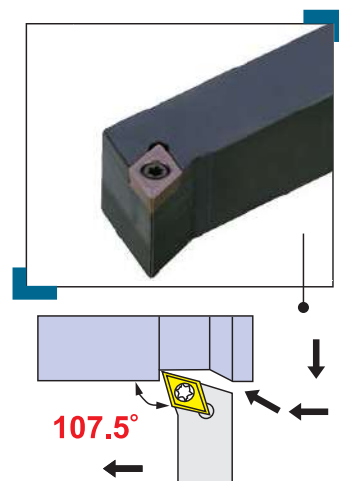
TOOL HOLDER 外徑車刀



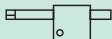
SDQC



Right-hand shown

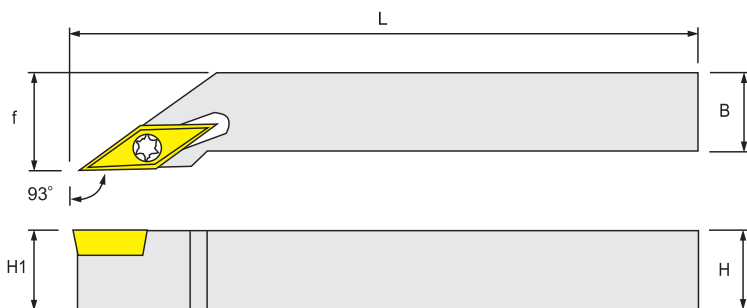


(Unit: mm)

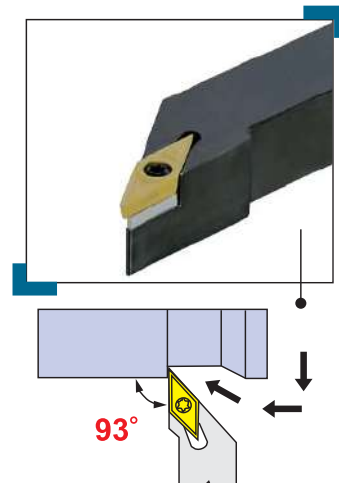
Model No.	Dimensions					Insert	Screw 	Wrench 
	H	B	L	H1	f			
SDQCR/L-1212H-11	12	12	100	12	16	DC..11T3..	MS4011A	ETF15
SDQCR/L-1616K-11	16	16	125	16	20			
SDQCR/L-2020K-11	20	20	125	20	25			
SDQCR/L-2525M-11	25	25	150	25	32			

* ISO inserts recommended.

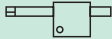
SVJB/C



Right-hand shown



(Unit: mm)

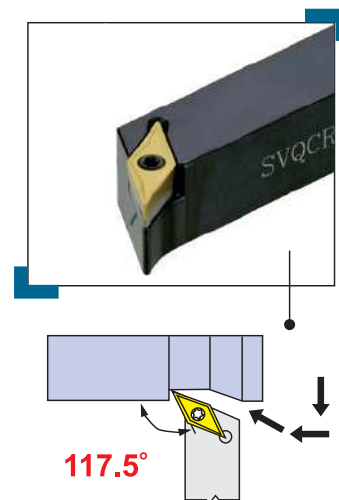
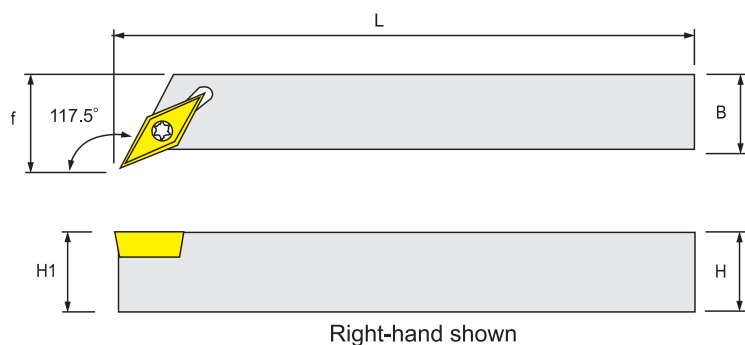
Model No.	Dimensions					Insert	Shim 	Screw 	Wrench 	Screw 	Wrench 
	H	B	L	H1	f						
SVJBR/L-1010H-11	10	10	100	10	12	VB..1103..	--	--	--	MS2506A	ETF9
SVJBR/L-1212K-11	12	12	125	12	16						
SVJBR/L-1616K-11	16	16	125	16	20						
SVJBR/L-2020K-11	20	20	125	20	25						
SVJBR/L-2525M-11	25	25	150	25	32	VB..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVJBR/L-1616K-16	16	16	125	16	20						
SVJBR/L-2020K-16	20	20	125	20	25						
SVJBR/L-2525M-16	25	25	150	25	32						
SVJCR/L-1010H-11	10	10	100	10	12	VC..1103..	--	--	--	MS2506A	ETF9
SVJCR/L-1212K-11	12	12	125	12	16						
SVJCR/L-1616K-11	16	16	125	16	20						
SVJCR/L-2020K-11	20	20	125	20	25						
SVJCR/L-2525M-11	25	25	150	25	32	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVJCR/L-1616K-16	16	16	125	16	20						
SVJCR/L-2020K-16	20	20	125	20	25						
SVJCR/L-2525M-16	25	25	150	25	32						

* ISO inserts recommended.

TOOL HOLDER 外徑車刀



SVQB/C

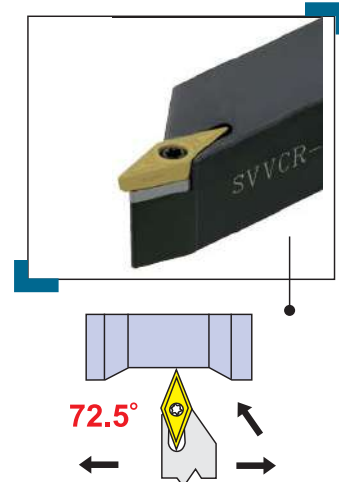
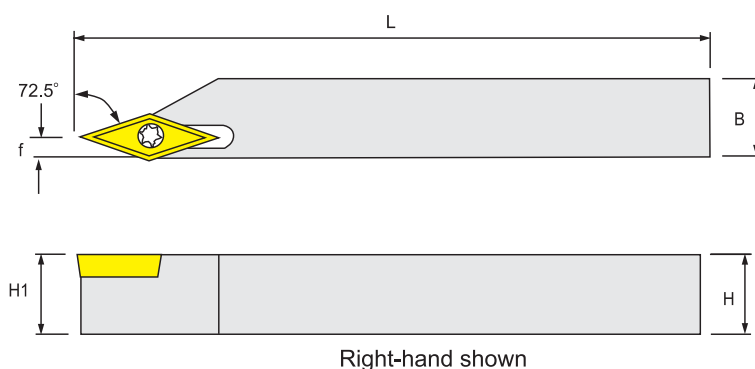


(Unit: mm)

Model No.	Dimensions					Insert	Shim	Screw	Wrench	Screw	Wrench
	H	B	L	H1	f						
SVQBR/L-1212H-11	12	12	100	12	16.5	VB..1103..	--	--	--	MS2506A	ETF9
SVQBR/L-1616K-11	16	16	125	16	20.5						
SVQBR/L-2020K-11	20	20	125	20	25						
SVQBR/L-2020K-16	20	20	125	20	25	VB..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVQBR/L-2525M-16	25	25	150	25	32						
SVQCR/L-1212H-11	12	12	100	12	16.5						
SVQCR/L-1616K-11	16	16	125	16	20.5	VC..1103..	--	--	--	MS2506A	ETF9
SVQCR/L-2020K-11	20	20	125	20	25						
SVQCR/L-2020K-16	20	20	125	20	25						
SVQCR/L-2525M-16	25	25	150	25	32	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15

* ISO inserts recommended.

SVVC



(Unit: mm)

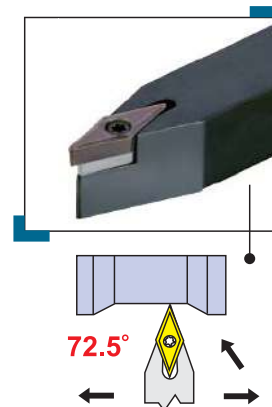
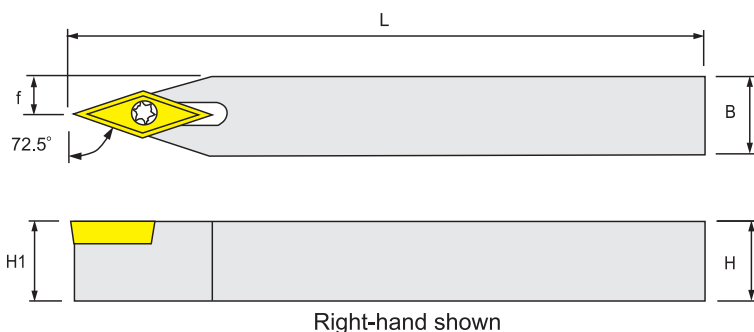
Model No.	Dimensions					Insert	Shim	Screw	Wrench	Screw	Wrench
	H	B	L	H1	f						
SVVCR-1616K-16	16	16	125	16	5	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVVCR-2020K-16	20	20	125	20	5						
SVVCR-2525M-16	25	25	150	25	5						

* ISO inserts recommended.

TOOL HOLDER 外徑車刀



SVVB/C



(Unit: mm)

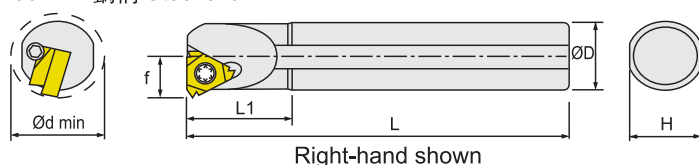
Model No.	Dimensions					Insert	Shim	Screw	Wrench	Screw	Wrench
	H	B	L	H1	f						
SVVBN-1010H-11	10	10	100	10	5	VB..1103..	--	--	--	MS2506A	ETF9
SVVBN-1212K-11	12	12	125	12	6						
SVVBN-1616K-11	16	16	125	16	8						
SVVBN-2020K-11	20	20	125	20	10						
SVVBN-2525M-11	25	25	150	25	12.5						
SVVBN-1616K-16	16	16	125	16	8	VB..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVVBN-2020K-16	20	20	125	20	10						
SVVBN-2525M-16	25	25	150	25	12.5						
SVVCN-1010H-11	10	10	100	10	5	VC..1103..	--	--	--	MS2506A	ETF9
SVVCN-1212H-11	12	12	100	12	6						
SVVCN-1616K-11	16	16	125	16	8						
SVVCN-2020K-11	20	20	125	20	10						
SVVCN-2525M-11	25	25	150	25	12.5						
SVVCN-1616K-16	16	16	125	16	8	VC..1604..	VSS322	MDS05035T	PL35	MS3512B	ETF15
SVVCN-2020K-16	20	20	125	20	10						
SVVCN-2525M-16	25	25	150	25	12.5						

* ISO inserts recommended.

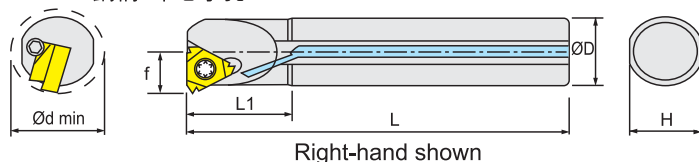
INTERNAL THREADING BORING BAR 內徑牙刀

SNR/L

■ SNR/L-00...-.. 鋼柄 Steel shank



■ SNR/L-00...-.. 鋼柄+中心水孔 Steel shank+coolant hole



(Unit: mm)

Model No.	Dimensions					Insert	Screw	Wrench	Shim	Screw	Wrench
	D	L	L1	f	dmin						
SNR/L-0008K-08-S08	8	125	20	5.5	11	08NR/L..	MS2206F	ETF7	--	--	--
SNR/L-0010K-11S10	10	125	22	6.5	13	11NR/L..	MS2507G	ETF8			
SNR/L-0012M-11-S12	12	150	26	8.0	16	16NR/L..	MS3509A	ETF15			
SNR/L-0016Q-16	16	180	36	10	19		MS3512A	ETF15			
SNR/L-0020R-16	20	200	40	12	24		MS4511A	ETF20			
SNR/L-0025R-16	25	200	45	14.5	29	22NR/L..	MS4516A	ETF20	GXN/E16	HTM309	PL25
SNR/L-0032S-16	32	250	45	18.5	36		MS4511A	ETF20			
SNR/L-0020R-22	20	200	40	14	28		MS4516A	ETF20			
SNR/L-0025R-22	25	200	45	16.5	32		MS4511A	ETF20			
SNR/L-0025S-22	25	250	45	16.5	32	22NR/L..	MS4516A	ETF20	GXN/E22	HTM412	PL30
SNR/L-0032S-22	32	250	45	20	40		MS4516A	ETF20			

* ISO inserts recommended.

INTERNAL THREADING BORING BAR 內徑牙刀



SNR/L

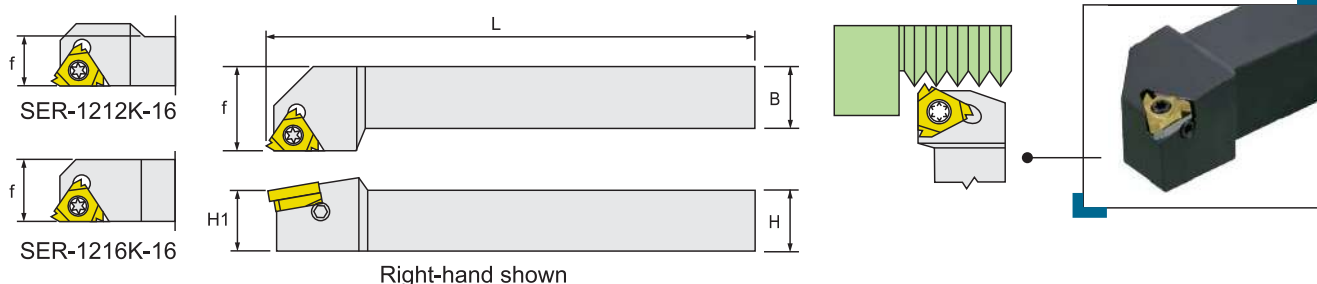
(Unit: mm)

Model No.	Dimensions					Insert	Screw 	Wrench 	Shim 	Screw 	Wrench 
	D	L	L1	f	dmin						
SNR/L-0005H-06	12	100	12	3.6	7	06NR/L..	MS2004A	ETF6	—	—	—
SNR/L-0006H-06	12	100	15	4.1	8						
SNR/L-0007K-08	16	125	18	4.5	9	08NR/L..	MS2206F	ETF7			
SNR/L-0008K-08	16	125	21	5.5	11						
SNR/L-0010K-11	16	125	25	6.5	13	11NR/L..	MS2507G	ETF8			
SNR/L-0013M-11	16	150	32	8.0	16						
SNR/L-0013M-16	16	150	32	8.5	17	16NR/L..	MS3509A	ETF15			
SNR/L-0016Q-16-S20	20	180	36	10	19						

* ISO inserts recommended.

EXTERNAL THREADING TOOL HOLDER 外徑牙刀

SER/L



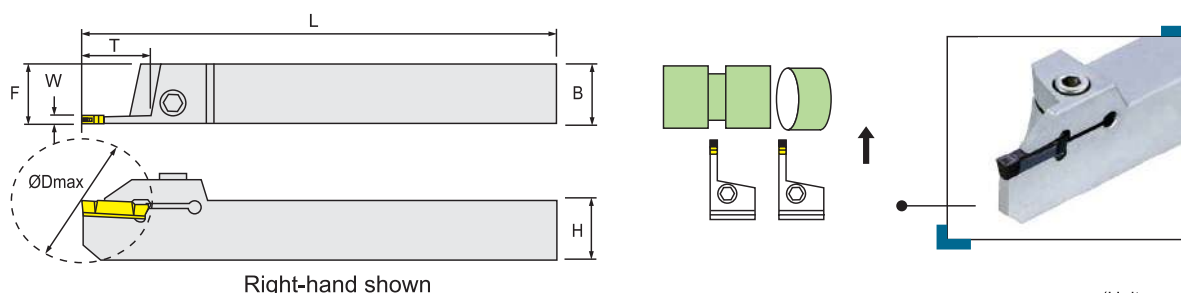
(Unit: mm)

Model No.	Dimensions					Insert	Screw	Wrench	Shim	Screw	Wrench
	H	B	L	H1	f						
SER/L-1212K-16	12	12	125	12	12	16ER/L...	MS3509A	ETF15	—	--	--
SER/L-1216K-16	12	16	125	12	16						
SER/L-1616K-16	16	16	125	16	20						
SER/L-2020K-16	20	20	125	20	25						
SER/L-2525M-16	25	25	150	25	32						

* ISO inserts recommended.

EXTERNAL GROOVING TOOL HOLDER 外徑切槽刀

DGH



(Unit: mm)

Model No.	Dimensions					Width W(mm)	Insert	Screw	Wrench
	H	B	L	F	T				
DGHR/L-1616K-2-20L	16	16	125	16.3	20	2.0	DGM20CE	HTM520	PL40
DGHR/L-2020K-2-20L	20	20	125	20.3				HTM525	PL40
DGHR/L-1616K-3-16L	16	16	125	16.3				HTM520	PL40
DGHR/L-2020K-3-16L	20	20	125	20.3	16	3.0	DGM30CT	HTM525	PL40
DGHR/L-2525M-3-16L	25	25	150	25.3				HTM525	PL40
DGHR/L-1616K-3-20L	16	16	125	16.3				HTM520	PL40
DGHR/L-2020K-3-20L	20	20	125	20.3	20	3.0	DGM30CT	HTM525	PL40
DGHR/L-2525M-3-20L	25	25	150	25.3				HTM525	PL40
DGHR/L-1616K-3-25L	16	16	125	16.3				HTM520	PL40
DGHR/L-2020K-3-25L	20	20	125	20.3	25	3.0	DGM30CE	HTM525	PL40
DGHR/L-2525M-3-25L	25	25	150	25.3				HTM525	PL40
DGHR-3232P-3-25L	32	32	170	32.3				HTM525	PL40

* ISO inserts recommended.

EXTERNAL GROOVING TOOL HOLDER 外徑切槽刀



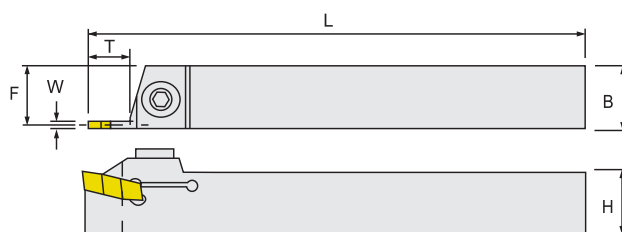
■ DGH

(Unit: mm)

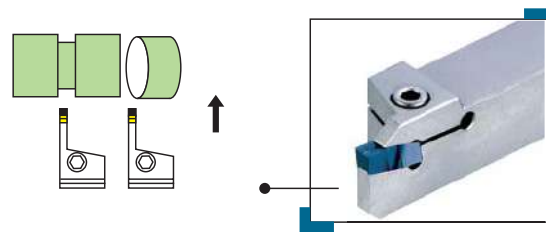
Model No.	Dimensions					Width W(mm)	Insert	Screw 	Wrench 
	H	B	L	F	T				
DGHR/L-1616K-4-20L	16	16	125	16.3	20	4.0	DGM40CT	HTM520	PL40
DGHR/L-2020K-4-20L	20	20	125	20.3				HTM525	PL40
DGHR/L-2525M-4-20L	25	25	150	25.3					
DGHR/L-1616K-4-25L	16	16	125	16.3	25	4.0	DGJ40CE	HTM520	PL40
DGHR/L-2020K-4-25L	20	20	125	20.3				HTM525	PL40
DGHR/L-2525M-4-25L	25	25	150	25.3					
DGHR-3232P-4-25L	32	32	170	32.3	25	5.0	DGM50CT	HTM520	PL40
DGHR/L-1616K-5-25L	16	16	125	16.3				HTM525	PL40
DGHR/L-2020K-5-25L	20	20	125	20.3					
DGHR/L-2525M-5-25L	25	25	150	25.3					

* ISO inserts recommended.

■ GHD



Right-hand shown

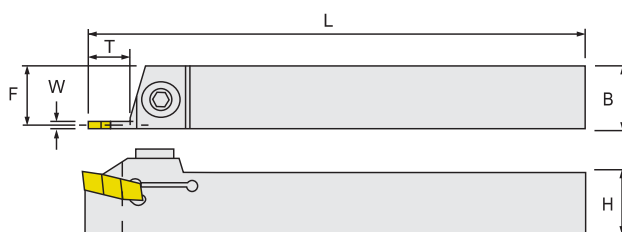


(Unit: mm)

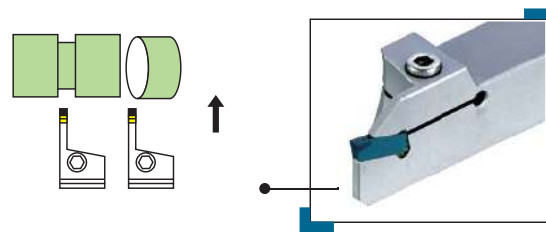
Model No.	Dimensions					Width W(mm)	Insert		
	H	B	L	F	T				
GHDR-2020K-3-10L	20	20	125	18.8	10	2.8-4	GIP.. GIF.. GIMF.. GIMY..	HTM525	PL40
GHDR-2525M-3-10L	25	25	150	23.8	10				
GHDR-2020K-4-10L	20	20	125	18.4	10	4-5			
GHDR-2525M-4-10L	25	25	150	23.4	10				
GHDR-2020K-5-12L	20	20	125	17.9	12	5-6.4			
GHDR-2525M-5-12L	25	25	150	22.9	12				

* ISO inserts recommended.

■ GHG



Right-hand shown



(Unit: mm)

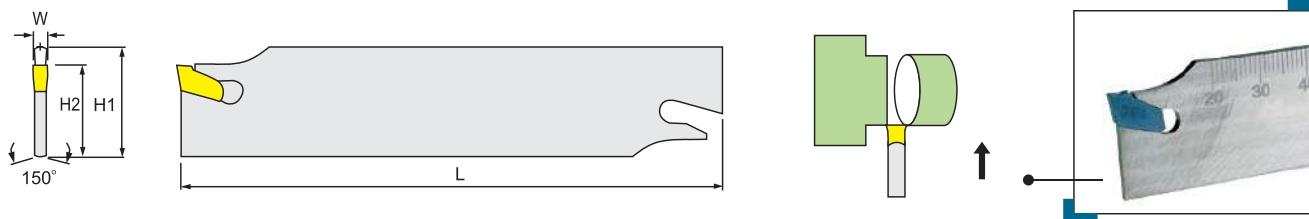
Model No.	Dimensions					Width W(mm)	Insert	Screw 	Wrench 
	H	B	L	F	T				
GHGR-2020K-2-20L	20	20	125	19.2	20	2.8-4	GIP.. GIF.. GIMF.. GIMY..	HTM525	PL40
GHGR-2525M-2-20L	25	25	150	24.2	20				
GHGR-2020K-3-20L	20	20	125	18.7	20	4-5			
GHGR-2525M-3-20L	25	25	150	23.7	20				
GHGR-2020K-4-20L	20	20	125	18.2	20	5-6.4			
GHGR-2525M-4-20L	25	25	150	23.2	20				
GHGR-2020K-4-25L	20	20	125	18.2	25				
GHGR-2525M-4-25L	25	25	150	23.2					

* ISO inserts recommended.

PARTING & GROOVING TOOL HOLDER 切斷切槽刀



■ SGFH

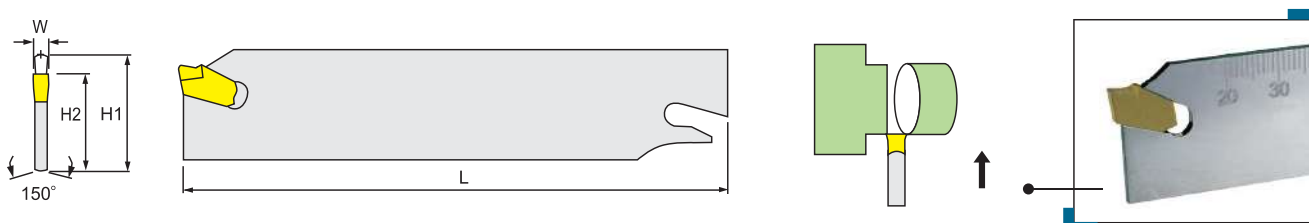


(Unit: mm)

Model No.	Dimensions				Insert	TOOLBLOCK	Wrench 
	H1	H2	L	W			
SGFH26-2	26	21.4	110	2.2/2.4	GFN2/2.4	SGTBU...-26	ESG-1
SGFH26-3				3.0	GFN3	SGTBV 25-26	
SGFH32-2	32	25	150	2.2/2.4	GFN2/2.4	SGTBU...-32	
SGFH32-3				3.0	GFN3		

* ISO inserts recommended.

■ SGIH



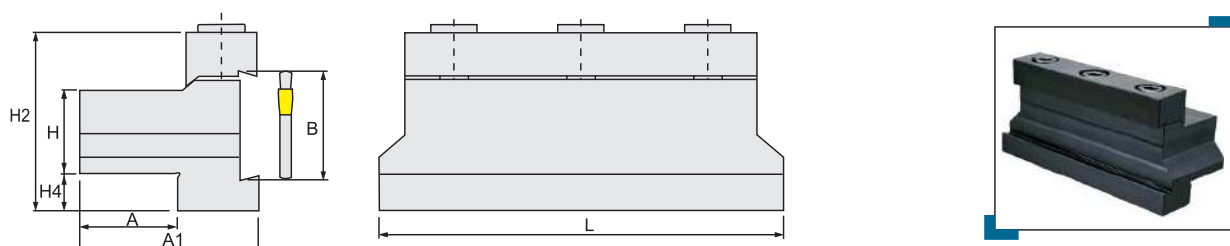
(Unit: mm)

Model No.	Dimensions				Insert	TOOLBLOCK	Wrench 
	H1	H2	L	W			
SGIH26-2	26	21.4	110	2.2/2.4	GTN2/2.4	SGTBU...-26 SGTBV 25-26	ESG-1
SGIH26-3				3.1	GTN3		
SGIH26-4				4.1	GTN4		
SGIH32-2	32	25	150	2.2/2.4	GTN2/2.4	SGTBU...-32	
SGIH32-3				3.1	GTN3		
SGIH32-4				4.1	GTN4		

* ISO inserts recommended.

TOOL BLOCK 切斷板座

■ SGTBU



(Unit: mm)

Model No.	Dimensions							Screw	Wrench	BLADE
	H	B	A	A1	L	H2	H4			
SGTBU20-26	20	26	21	38	86	43	9	HTM630	PL50	SGIH26/32... XLCFN26/32... SGFH26/30... STFH26/32... KTKB26/32... NF151.2-26/32...
SGTBU25-26	25	26	23	40	86	43	4			
SGTBU20-32	20	32	21	40	110	50	13			
SGTBU25-32	25	32	23	42	110	50	8			

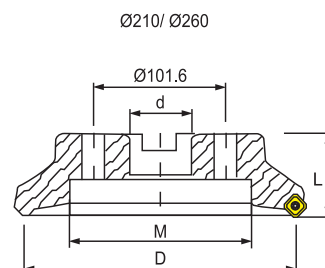
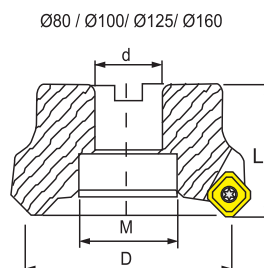
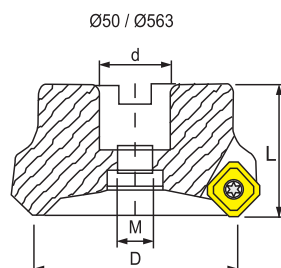
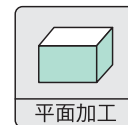
* ISO inserts recommended.

45° FACE MILLING CUTTERS



面銑刀

ASX



(Unit: mm)

Model No.		Dimensions				Teeth		Insert
Right hand	Left hand	D	d	L	M			
ASX445 -050A03R-22.0	ASX445 -050A03L-22.0	50	22.0	40	11	3	疏齒 Coarse	SE..13T3.. WE..13T3..
-063A04R-22.0	-063A04L-22.0	63	22.0	40	11	4		
R05003C-25.4	L05003C-25.4	50	25.4	50	13	3		
R06304C-25.4	L06304C-25.4	63	25.4	50	13	4		
R08004C-25.4	L08004C-25.4	80	25.4	50	38	4		
R10005D-31.75	L10005D-31.75	100	31.75	50	45	5		
R12506E-38.1	L12506E-38.1	125	38.1	63	60	6		
R16007F-50.8	L16007F-50.8	160	50.8	63	80	7		
R21008K-47.625	L21008K-47.625	210	47.625	63	140	8		
R26010K-47.625	L26010K-47.625	260	47.625	63	180	10		
ASX445 -050A04R-22.0	ASX445 -050A04L-22.0	50	22.0	40	11	4	密齒 Normal	SE..13T3.. WE..13T3..
-063A05R-22.0	-063A05L-22.0	63	22.0	40	11	5		
R05004C-25.4	L05004C-25.4	50	25.4	50	13	4		
R06305C-25.4	L06305C-25.4	63	25.4	50	13	5		
R08006C-25.4	L08006C-25.4	80	25.4	50	38	6		
R10007D-31.75	L10007D-31.75	100	31.75	50	45	7		
R12508E-38.1	L12508E-38.1	125	38.1	63	60	8		
R16010F-50.8	L16010F-50.8	160	50.8	63	80	10		
R21012K-47.625	L21012K-47.625	210	47.625	63	140	12		
R26014K-47.625	L26014K-47.625	260	47.625	63	180	14		
ASX445 -050A05R-22.0	ASX445 -050A05L-22.0	50	22.0	40	11	5	超密齒 Close	SE..13T3.. WE..13T3..
-063A06R-22.0	-063A06L-22.0	63	22.0	40	11	6		
R05005C-25.4	L05005C-25.4	50	25.4	50	13	5		
R06306C-25.4	L06306C-25.4	63	25.4	50	13	6		
R08008C-25.4	L08008C-25.4	80	25.4	50	38	8		
R10010D-31.75	L10010D-31.75	100	31.75	50	45	10		
R12512E-38.1	L12512E-38.1	125	38.1	63	60	12		
R16016F-50.8	L16016F-50.8	160	50.8	63	80	16		

* MITSUBISHI inserts recommended.

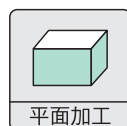
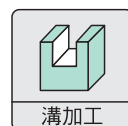
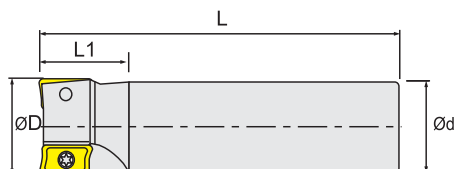
Shim	Screw	Wrench	Screw	Wrench
SSS445N	MDS05035S	PL35	MS3512B	ETF15

SHOULDER / CUTTING END MILLS

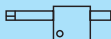


直角端銑刀

APM



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
APM162-S16-150	16	16	150	28	2	AOMT1236..	MS2506B	ETF9
APM162-S16-200			200					
APM172-S16-150	17	16	150	20	2			
APM172-S16-200			200					
APM182-S20-150	18	20	150	25	2			
APM182-S20-200			200					
APM192-S20-150	19	20	150	25	2			
APM192-S20-200			200					
APM202-S20-150	20	20	150	30	2			
APM202-S20-200			200					
APM203-S20-150	20	20	150	30	3			
APM203-S20-200			200					
APM212-S20-150	21	20	150	20	2			
APM212-S20-200			200					
APM213-S20-150	21	20	150	20	3			
APM213-S20-200			200					
APM222-S20-150	22	20	150	30	2			
APM222-S20-200			200					
APM232-S25-150	23	25	150	30	2			
APM232-S25-200			200					
APM243-S25-150	24	25	150	35	3			
APM243-S25-200			200					
APM253-S25-150	25	25	150	35	3			
APM253-S25-200			200					
APM254-S25-150	25	25	150	35	4			
APM263-S25-150	26	25	150	25	3			
APM263-S25-200			200					
APM264-S25-150	26	25	150	25	4			
APM264-S25-200			200					
APM323-S32-150	32	32	150	40	3			
APM323-S32-200			200					
APM324-S32-150	32	32	150	40	4			
APM324-S32-200			200					
APM333-S32-150	33	32	150	32	3			
APM333-S32-200			200					
APM334-S32-150	33	32	150	32	4			
APM334-S32-200			200					
APM353-S32-150	35	32	150	32	3			
APM353-S32-200			200					
APM354-S32-150	35	32	150	32	4			
APM354-S32-200			200					

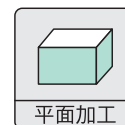
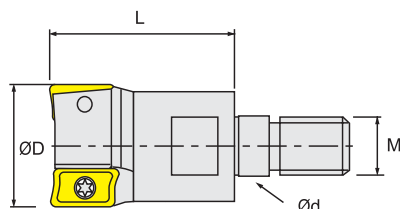
* MITSUBISHI inserts recommended.

SHOULDER / CUTTING END MILLS



直角端銑刀

APM

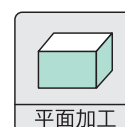
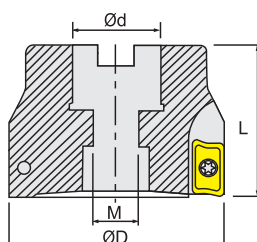


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
APM162-MD14	16	8.5	26	M8	2	AOMT1236..	MS2506B	ETF9
APM172-MD14	17							
APM202-MD18	20				2			
APM203-MD18	20				3			
APM212-MD18	21	10.5	30	M10	2			
APM253-MD23	25				3			
APM254-MD23	25				4			
APM263-MD23	26				3			
APM264-MD23	26	12.5	35	M12	4			
APM323-MD29	32				3			
APM324-MD29	32				4			
APM333-MD29	33				3			
APM334-MD29	33	17	43	M16	4			
APM353-MD29	35				3			
APM354-MD29	35				4			

* MITSUBISHI inserts recommended.

APM | 直角端銑刀盤



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
APM 05007-25.4	50	25.4	50	13	7	AOMT1236..	MS2506B	ETF9
APM 06308-25.4	63				8			
APM 08009-25.4	80				9			

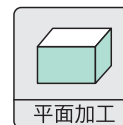
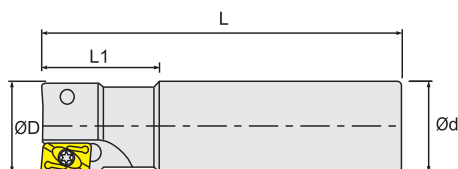
* MITSUBISHI inserts recommended.

SHOULDER / CUTTING END MILLS

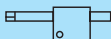


直角端銑刀

BAP



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 	
	D	d	L	L1					
BAP3-15.5-S16-100	15.5	16	100	25	2	APMT1135..	MS2506E	ETF8	
BAP3-162-S16-100	16	16	100	28	2				
BAP3-162-S16-150			150						
BAP3-172-S16-150	17	16	150	20	2				
BAP3-172-S16-200			200						
BAP3-182-S20-100	18	20	100	28	2				
BAP3-182-S20-150			150						
BAP3-202-S20-110	20	20	110	28	2				
BAP3-202-S20-150			150						
BAP3-202-S20-200			200	25	3				
BAP3-203-S20-150			150						
BAP3-203-S20-200			200						
BAP3-212-S20-150	21	20	150	25	2				
BAP3-212-S20-200			200		3				
BAP3-213-S20-150			150						
BAP3-213-S20-200			200						
BAP3-243-S25-125	24	25	125	35	3				
BAP3-253-S25-150	25	25	150	35	3				
BAP3-253-S25-200			200		4				
BAP3-254-S25-150			150						
BAP3-254-S25-200			200						
BAP3-263-S25-150	26	25	150	35	3				
BAP3-263-S25-200			200		4				
BAP3-264-S25-150			150						
BAP3-264-S25-200			200						
BAP3-324-S32-150	32	32	150	35	4				
BAP3-324-S32-200			200						
BAP4-252-S25-125	25	25	125	40	2	APMT1604..	MS4009A	ETF15	
BAP4-252-S25-150			150						
BAP4-252-S25-200			200						
BAP4-322-S32-150	32	32	150	45	2		MS4011A		
BAP4-322-S32-200			200						
BAP4-323-S32-150		32	150	45	3				
BAP4-323-S32-200			200						

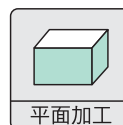
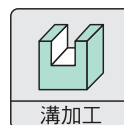
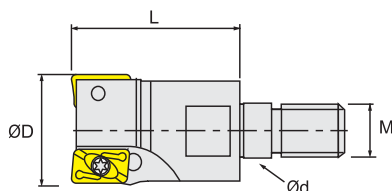
* MITSUBISHI inserts recommended.

SHOULDER / CUTTING END MILLS



直角端銑刀

BAP



(Unit: mm)

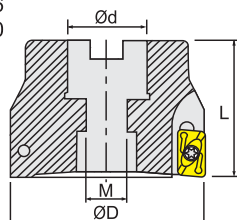
Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
BAP3-162-MD14	16	8.5	25	M8	2	APMT1135..	MS2506E	ETF8
BAP3-172-MD14	17							
BAP3-202-MD18	20	10.5	30	M10	2			
BAP3-203-MD18					3			
BAP3-212-MD18	21				2			
BAP3-213-MD18					3			
BAP3-253-MD23	25	12.5	35	M12	3			
BAP3-254-MD23					4			
BAP3-263-MD23	26				3			
BAP3-264-MD23					4			
BAP3-324-MD29	32	17	43	M16	4			
BAP3-325-MD29					5			
BAP3-334-MD29	33				4			
BAP3-335-MD29					5			

* MITSUBISHI inserts recommended.

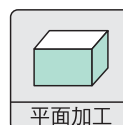
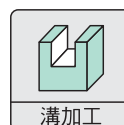
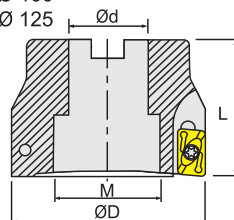
BAP | 直角端銑刀盤



Ø 50
Ø 63
Ø 66
Ø 80



Ø 100
Ø 125



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
BAP3-507-22.0	50	22.0	40	11	7	APMT1135..	MS2506E	ETF8
BAP4-504-22.0	50	22.0	50	11	4	APMT1604..	MS4011A	ETF15
BAP4-504-25.4		25.4	50	13				
BAP4-635-25.4	63	25.4	50	13	5			
BAP4-665-25.4	66				5			
BAP4-806-25.4	80				6			
BAP4-1008-31.75	100	31.75	50	45	8			
BAP4-1259-38.1	125	38.1	50	60	9			

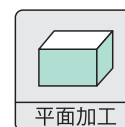
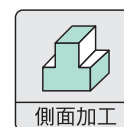
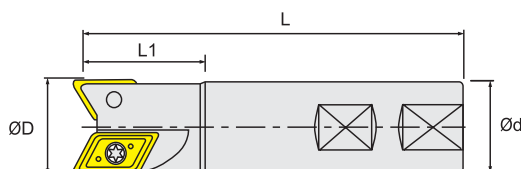
* MITSUBISHI inserts recommended.

SHOULDER / CUTTING END MILLS

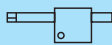


直角端銑刀

BXD

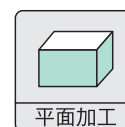
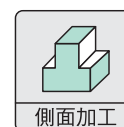
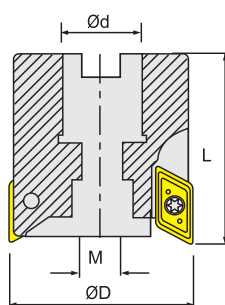


(Unit: mm)

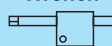
Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	M				
BXD15-252-S25-125	25	25	125	50	2	XDGT1550PD..	MS4008A	ETF15
BXD15-252-S25-160			160					
BXD15-252-S25-200			200					
BXD15-322-S32-150	32	32	150	50	2	XDGT1550PD..	MS4009A	ETF15
BXD15-322-S32-200			200					
BXD15-322-S32-250			250					

* MITSUBISHI inserts recommended.

BXD | 直角端銑刀盤



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	M				
BXD15-504A-22.0	50	22.0	50	11	4	XDGT1550PD..	MS40011A	ETF15
BXD15-504A-25.4		25.4		13				
BXD15-635A-22.0	63	22.0		11	5			
BXD15-635A-25.4	63	25.4		13				
BXD15-805A-25.4	80	25		13				

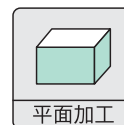
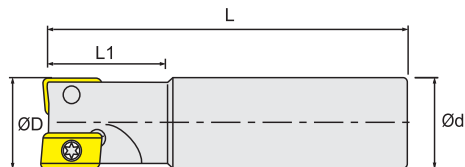
* MITSUBISHI inserts recommended.

SHOULDER / CUTTING END MILLS

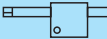


直角端銑刀

■ UEX



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
C12-SS121-150	12	12	150	25	1	APET120204	MS3506A	ETF15
C12-SS131-150	13	12	150	20	1		MS3506A	
C16-SS161-150	16	16	150	30	1			
C16-SS161-200			200					
C16-SS171-150	17	16	150	30	1			
C16-SS171-200			200					
C20-SS202-150	20	20	150	30	2			
C20-SS202-200			200					
C20-SS212-150	21	20	150	30	2			
C20-SS212-200			200					
C25-SS252-150	25	25	150	40	2	ADET160308	MS4009A	ETF15
C25-SS252-200			200					
C25-SS252-250			250					
C25-SS262-150	26	25	150	30	2			
C25-SS262-200			200					
C25-SS262-250			250					
C32-SS322-150	32	32	150	45	2			
C32-SS322-200			200					
C32-SS322-250			250					
C32-SS323-150	32	32	150	45	3			
C32-SS323-200			200					
C32-SS323-250			250					
C32-SS323-300			300					
C32-SS332-200	33	32	200	35	2			
C32-SS332-250			250					
C32-SS332-300			300					
C32-SS333-200	33	32	200	35	3			
C32-SS333-250			250					
C32-SS333-300			300					

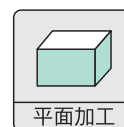
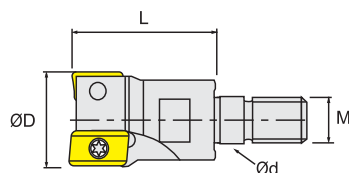
* HITACHI inserts recommended.

SHOULDER / CUTTING END MILLS



直角端銑刀

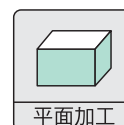
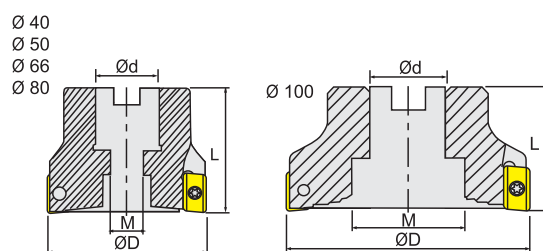
UEX



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	M				
UEX161-MD14	16	8.5	28	M8	1	APET120204	MS3507A	ETF15
UEX171-MD14	17	8.5	28	M8	1			
UEX172-MD14	17	8.5	28	M8	2			
UEX202-MD18	20	10.5	30	M10	2			
UEX212-MD18	21							
UEX253S-MD23	25	12.5	35	M12	3			
UEX263S-MD23	26							
UEX324S-MD29	32	17	43	M16	4			
UEX334S-MD29	33							
UEX252-MD23	25	12.5	35	M12	2	ADET160308	MS4009A	ETF15
UEX262-MD23	26							
UEX323-MD29	32	17	43	M16	3			
UEX333-MD29	33							

* HITACHI inserts recommended.



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
UEX403-22.0	40	22	40	11	3	ADET160308	MS4011A	ETF15
UEX504-22.0	50	22	50	11	4			
UEX504-25.4	50	25.4	50	13	4			
UEX665-25.4	66				5			
UEX806-25.4	80				6			
UEX1007-31.75	100	31.75	50	45	7			

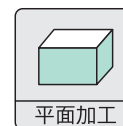
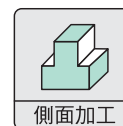
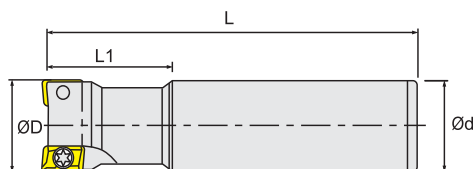
* HITACHI inserts recommended.

SHOULDER / CUTTING END MILLS



直角端銑刀

WEX

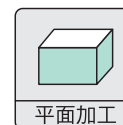
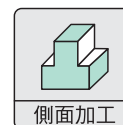
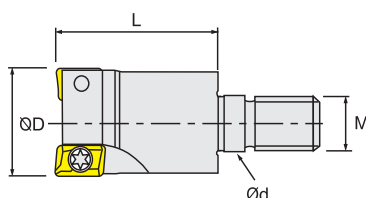


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
WEX12-162-S16-100	16	16	100	25	2	AXMT1235..	MS3006A	ETF9
WEX12-162-S16-150			150					
WEX12-162-S16-200			200					
WEX12-172-S16-100	17		100					
WEX12-172-S16-150			150					
WEX12-172-S16-200			200					
WEX12-203-S20-150	20	20	150	30	3			
WEX12-203-S20-200	200							
WEX12-213-S20-150	21		150					
WEX12-213-S20-200		200						
WEX12-254-S25-150	25	25	150	35	4			
WEX12-254-S25-200	26		200		3			
WEX12-263-S25-150			150					
WEX12-263-S25-200			200					
WEX12-263-S25-250			250	4				
WEX12-264-S25-150			150					
WEX12-264-S25-200			200					
WEX12-325-S32-150	32	32	150	40	5			
WEX12-325-S32-200	33		200					
WEX12-335-S32-150			150					

* SUMITOMO inserts recommended.

WEX



(Unit: mm)

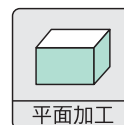
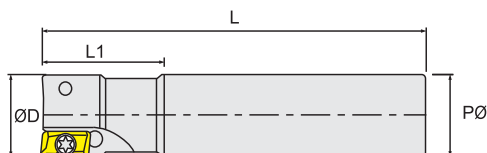
Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	M				
WEX12-162-MD14	16	8.5	23	M8	2	AXMT1235..	MS3006A	ETF9
WEX12-172-MD14	17							
WEX12-203-MD18	20	10.5	30	M10	3			
WEX12-213-MD18	21							
WEX12-254-MD23	25	12.5	35	M12	4			
WEX12-264-MD23	26							
WEX12-325-MD29	32	17	43	M16	5			
WEX12-335-MD29	33							

* SUMITOMO inserts recommended.

SHOULDER / CUTTING END MILLS

直角端銑刀

CAP

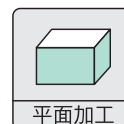
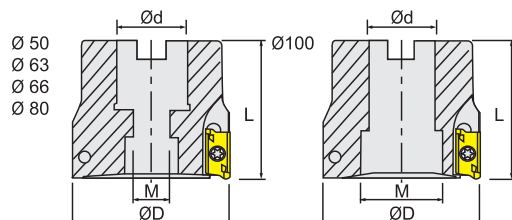


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
CAP3-162-S16-100	16	16	100	28	2	APKT1003..	MS2506B	ETF9
CAP3-162-S16-150			150					
CAP3-162-S16-200			200					
CAP3-172-S16-150	17		150	26	2			
CAP3-172-S16-200			200					
CAP3-182-S20-150	18		20	150	30			
CAP3-182-S20-200		200						
CAP3-202-S20-100	20	20	100	30	2			
CAP3-202-S20-150			150		3			
CAP3-203-S20-150			150					
CAP3-203-S20-200			200					
CAP3-212-S20-150	21	20	150	30	2			
CAP3-212-S20-200			200		3			
CAP3-213-S20-150	21	20	150	30				
CAP3-253-S25-150			25		25			
CAP3-263-S25-150	26	25	150	30	3			
CAP3-263-S25-200			200					
CAP3-264-S25-150	26	25	150	30	4			
CAP3-264-S25-200			200					
CAP3-324-S32-150	32	32	150	40	4			
CAP3-324-S32-200			200					
CAP4-252-S25-125	25	25	125	40	2			
CAP4-252-S25-150			150					
CAP4-262-S25-150	26	25	150	30	2			
CAP4-262-S25-200			200					
CAP4-323-S32-150	32	32	150	45	3			
CAP4-323-S32-200			200					
CAP4-333-S32-150	33	32	150	35	3			
CAP4-333-S32-200			200					
CAP4-353-S32-150	35	32	150	35	3			

*ISO inserts recommended.

CAP



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
CAP4-403-25.4	40	25.4	50	13	3	APKT1604..	MS4011A	ETF15
CAP4-504-22.0	50	22.0	50	11	4			
CAP4-504-25.4	50	25.4	50	13	4			
CAP4-635-22.0	63	22.0	50	11	5			
CAP4-635-25.4	63	25.4	50	13	5			
CAP4-665-25.4	66	25.4	50	13	5			
CAP4-806-25.4	80	25.4	50	13	6			
CAP4-806-27.0	80	27.0	50	13	6			
CAP4-1008-31.75	100	31.75	50	45	8			

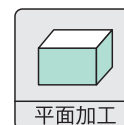
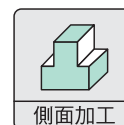
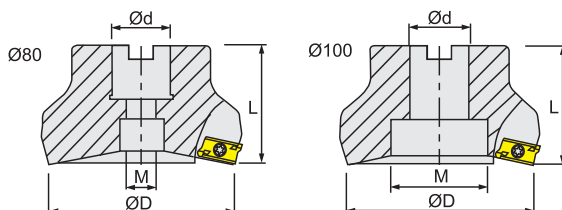
*ISO inserts recommended.

MILLING CUTTER



銑刀盤

CAPW



(Unit: mm)

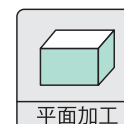
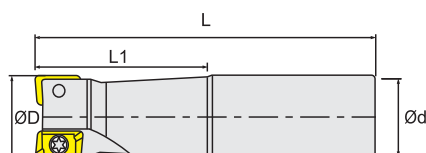
Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
CAPW4-806-25.4	80	25.4	50	13	6	APKT1604..	MS4011A	ETF15
CAPW4-1007-31.75	100	31.75	50	45	7			

*ISO inserts recommended.

SHOULDER / CUTTING END MILLS

直角端銑刀

AKS



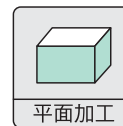
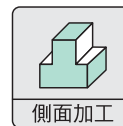
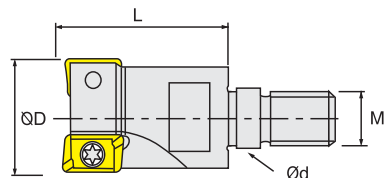
Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
AKS06-102-S10-120	10	10	120	20	2	XOMX0602..	MS1804B	ETF6
AKS06-112-S10-110	11	10	110	16	2			
AKS06-122-S12-100	12	12	100	25	2			
AKS06-122-S12-130			130		2			
AKS06-123-S12-100			100		3			
AKS06-123-S12-130	12	12	130	25	3			
AKS06-132-S12-130			130		2			
AKS06-133-S12-130			130		3			
AKS06-164-S16-150	16	16	150	28	4			
AKS06-164-S16-200			200		4			
AKS09-162-S16-150	16	16	150	28	2	XOMX0903..	MS2506E	ETF8
AKS09-162-S16-200			200		2			
AKS09-172-S16-150	17	16	150	20	2			
AKS09-172-S16-200			200		2			
AKS09-202-S20-150			150	30	2			
AKS09-202-S20-200	20	20	200		2			
AKS09-203-S20-150			150		3			
AKS09-203-S20-200			200	30	3			
AKS09-212-S20-150	21	20	150		2			
AKS09-212-S20-200			200		2			
AKS09-213-S20-150			150	30	3			
AKS09-213-S20-200	25	25	200		3			
AKS09-253-S25-150			150		3			
AKS09-253-S25-200			200	35	3			
AKS09-263-S25-150	26	26	150		3			
AKS09-263-S25-200			200	30	3			

* SECO inserts recommended.

SHOULDER / CUTTING END MILLS

直角端銑刀

AKS

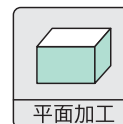
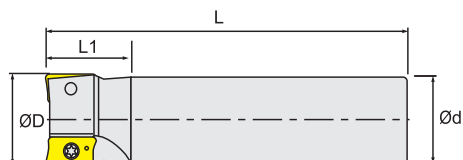


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
AKS06-102-MD10	10	5.5	16	M5	2	XOMX0602..	MS1804B	ETF6
AKS06-112-MD10	11				2			
AKS06-122-MD11	12				3			
AKS06-123-MD11	12	6.5	18	M6	2			
AKS06-132-MD11	13				3			
AKS06-133-MD11	13				3			
AKS06-164-MD14	16	8.5	20	M8	4	XOMX0903..	MS2506E	ETF8
AKS09-172-MD14	17	8.5	25	M8	2			
AKS09-202-MD18	20	10.5	30	M10	2			
AKS09-203-MD18	20				3			
AKS09-212-MD18	21				2			
AKS09-213-MD18	21				3			
AKS09-253-MD23	25	12.5	35	M12	3			
AKS09-263-MD23	26				3			
AKS09-264-MD23	26				4			
AKS09-324-MD29	32	17	43	M16	4			
AKS09-325-MD29	32				5			
AKS09-334-MD29	33				4			
AKS09-335-MD29	33				5			

* SECO inserts recommended.

VAX



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
VAX11-162-S16-150	16	16	150	28	2	R39011T3..	MS2506B	ETF9
VAX11-162-S16-200			200		2			
VAX11-172-S16-150	17	16	150	20	2			
VAX11-172-S16-200			200		2			
VAX11-202-S20-150	20	20	150	30	2			
VAX11-202-S20-200			200		2			
VAX11-203-S20-150	20	20	150	30	3			
VAX11-203-S20-200			200		3			
VAX11-212-S20-150	21	20	150	20	2			
VAX11-212-S20-200			200		2			
VAX11-213-S20-150	21	20	150	20	3			
VAX11-213-S20-200			200		3			
VAX11-253-S25-150	25	25	150	35	3			
VAX11-253-S25-200			200		3			
VAX11-254-S25-150	25	25	150	35	4			
VAX11-254-S25-200			200		4			
VAX11-263-S25-150	26	25	150	25	3			
VAX11-263-S25-200			200		3			
VAX11-264-S25-150	26	25	150	25	4			
VAX11-264-S25-200			200		4			
VAX11-324-S32-150	32	32	150	40	4			
VAX11-324-S32-200			200		4			
VAX11-324-S32-250			250		4			
VAX11-334-S32-150	33	32	150	32	4			
VAX11-334-S32-200			200		4			
VAX11-334-S32-250			250		4			
VAX11-354-S32-150	35	32	150	32	4			
VAX11-354-S32-200			200		4			
VAX11-354-S32-250			250		4			

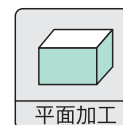
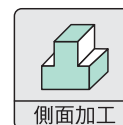
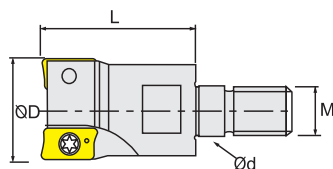
* SANDVIK inserts recommended.

SHOULDER / CUTTING END MILLS



直角端銑刀

VAX

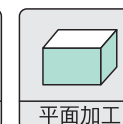
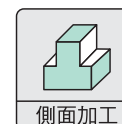
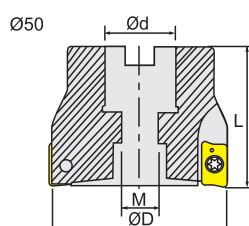


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
VAX11-162-MD14	16	8.5	26	M8	2	R39011T3..	MS2506B	ETF9
VAX11-172-MD14	17				2			
VAX11-202-MD18	20	10.5	30	M10	3			
VAX11-203-MD18					2			
VAX11-212-MD18	21	10.5	30	M10	3			
VAX11-213-MD18					3			
VAX11-253-MD23	25	12.5	35	M12	4			
VAX11-254-MD23					3			
VAX11-263-MD23	26	12.5	35	M12	4			
VAX11-324-MD29					5			
VAX11-325-MD29	32	17	43	M16	4			
VAX11-334-MD29					5			
VAX11-335-MD29	33	17	43	M16	4			
VAX11-354-MD29					5			
VAX11-355-MD29	35	17	43	M16	4			

* SANDVIK inserts recommended.

VAX



(Unit: mm)

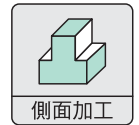
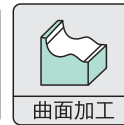
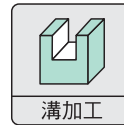
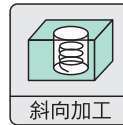
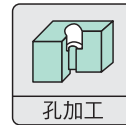
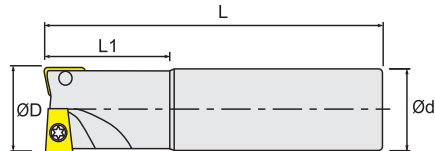
Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
VAX11-05005-22.0	50	22.0	40	11	5	R39011T3..	MS2508B	ETF9
VAX11-05007-22.0					7			
VAX11-05005-25.4	50	25.4	50	13	5			
VAX11-05007-25.4					7			

* SANDVIK inserts recommended.

BORING & MILLING CUTTER

鑽銑刀

AQX

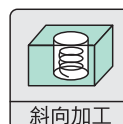
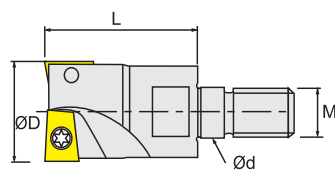


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
AQXR162-S16-150	16	16	150	30	2	QOG/MT0830R-G1/M2	MS2205A	ETF7
AQXR162-S16-200			200					
AQXR172-S16-150	17	16	150	25	2	QOG/MT1035R-G1/M2	MS2506A	ETF9
AQXR172-S16-200			200					
AQXR202-S20-150	20	20	150	35	2	QOG/MT1035R-G1/M2	MS2506A	ETF9
AQXR202-S20-200			200					
AQXR212-S20-150	21	20	150	32	2	QOG/MT1035R-G1/M2	MS2506A	ETF9
AQXR212-S20-200			200					
AQXR252-S25-150	25	25	150	40	2	QOG/MT1342R-G1/M2	MS3008A	ETF9
AQXR252-S25-200			200					
AQXR262-S25-150	26	25	150	30	2	QOG/MT1342R-G1/M2	MS3008A	ETF9
AQXR262-S25-200			200					
AQXR322-S32-150	32	32	150	45	2	QOG/MT1651R-G1/M2	MS4009A	ETF15
AQXR322-S32-200			200					
AQXR332-S32-150	33	32	150	38	2	QOG/MT1651R-G1/M2	MS4009A	ETF15
AQXR332-S32-200			200					
AQXR332-S32-250			250					
AQXR332-S32-300			300					

* MITSUBISHI inserts recommended.

AQX



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
AQXR162-MD14	16	8.5	25	M8	2	QOG/MT0830R-G1/M2	MS2205A	ETF7
AQXR172-MD14	17							
AQXR202-MD18	20	10.5	32	M10	2	QOG/MT1035R-G1/M2	MS2506A	ETF9
AQXR212-MD18	21							
AQXR252-MD23	25	12.5	35	M12	2	QOG/MT1342R-G1/M2	MS3008A	ETF9
AQXR262-MD23	26							
AQXR322-MD29	32	17	43	M16	2	QOG/MT1651R-G1/M2	MS4009A	ETF15
AQXR332-MD29	33							

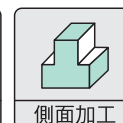
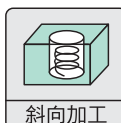
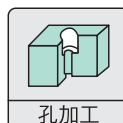
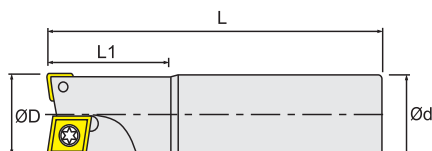
* MITSUBISHI inserts recommended.

BORING & MILLING CUTTER



鑽銑刀

AJU

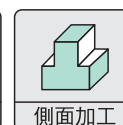
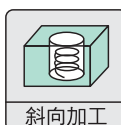
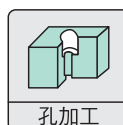
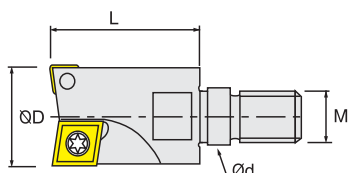


(Unit: mm)

Model No.	Dimensions				Teeth	Insert		Screw		Wrench	
	D	d	L	M							
C10-DM10-130	10	10	130	25	1	CCMT060204	--	MS2506C	--	ETF7	--
C10-DM11-130	11	10	130	16	1						
C12-DM12-150	12	12	150	30	1	CPMT080204Z	--	MS2506C	--	ETF7	--
C12-DM13-150	13	12	150	20	1						
C16-DM16-150	16	16	150	30	2	CPMT080204Z	CCMT060204	MS2506C	MS2506C	ETF7	--
C16-DM16-200			200								
C16-DM17-150			150	25	2						
C16-DM17-200	17	16	200			CPMT090204Z	CCMT060204	MS3507A	MS2506C	ETF15	ETF7
C20-DM20-150	20	20	150	30	2						
C20-DM20-200			200								
C20-DM21-150	21	20	150	25	2						
C20-DM21-200			200								
C25-DM25-150	25	25	150	40	2	CPMT120308Z	CPMT090308	MS4009A	MS4009A	ETF15	--
C25-DM25-200			200								
C25-DM25-250			250								
C25-DM26-150	26	25	150	30	2						
C25-DM26-200			200								
C25-DM26-250			250								
C32-DM32-150	32	32	150	40	2	CPMT160408Z	CPMT120408	MS5011A	MS5011A	ETF20	--
C32-DM32-200			200								
C32-DM32-250			250								
C32-DM32-300	33	32	300								
C32-DM33-150			150	30	2						
C32-DM33-200			200								
C32-DM33-250			250								
C32-DM33-300			300								

* HITACHI inserts recommended.

AJU



(Unit: mm)

Model No.	Dimensions				Teeth	Insert		Screw 		Wrench 	
	D	d	L	M							
AJU16-MD14	16	8.5	28	M8	2	CPMT080204Z	CCMT060204	MS2506C	MS2506C	ETF7	
AJU17-MD14	17										
AJU20-MD18	20	10.5	32	M10	2	CPMT090204Z	CCMT060204	MS3507A	MS2506C	ETF15	ETF7
AJU21-MD18	21										
AJU25-MD23	25	12.5	38	M12	2	CPMT120308Z	CPMT090308	MS4009A	MS4009A	ETF15	
AJU26-MD23	26										
AJU32-MD29	32	17	43	M16	2	CPMT160408Z	CPMT120408	MS5011A	MS5011A	ETF20	
AJU33-MD29	33										

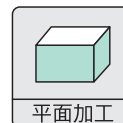
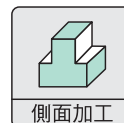
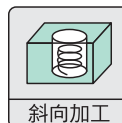
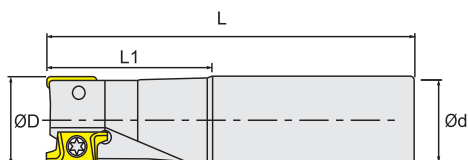
* HITACHI inserts recommended.

SHOULDER/ CUTTING END MILLS

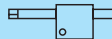


直角端銑刀

■ RT



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
RT07-D061-S10-100	6	10	100	20	1	RT0702..	MS2004A	ETF6
RT07-D081-S10-100	8	10	100	20	1			
RT07-D102-S10-150	10	10	150	25	2			
RT07-D112-S10-150	11	10	150	20	2			
RT07-D122-S12-150	12	12	150	25	2			
RT07-D132-S12-150	13	12	150	20	2			
RT07-D163-S16-150	16	16	150	30	3			
RT07-D163-S16-200			200					
RT07-D173-S16-150	17	16	150	25	3			
RT07-D173-S16-200			200					
RT07-D204-S20-150	20	20	150	35	4			
RT07-D204-S20-200			200					
RT10-D162-S16-150	16	16	150	30	2	RT1003 ..	MS2506B	ETF9
RT10-D162-S16-200			200					
RT10-D172-S16-150	17	16	150	25	2			
RT10-D172-S16-200			200					
RT10-D202-S20-150	20	20	150	35	2			
RT10-D202-S20-200			200					
RT10-D203-S20-150		20	150	35	3			
RT10-D203-S20-200			200					
RT10-D212-S20-150	21	20	150	30	2			
RT10-D212-S20-200			200					
RT10-D213-S20-150		20	150	30	3			
RT10-D213-S20-200			200					
RT10-D252-S25-150	25	25	150	40	2			
RT10-D252-S25-200			200					
RT10-D253-S25-150		25	150	40	3			
RT10-D253-S25-200			200					
RT10-D262-S25-150	26	25	150	30	2			
RT10-D262-S25-200			200					
RT10-D263-S25-150		25	150	30	3			
RT10-D263-S25-200			200					
RT10-D324-S32-150	32	32	150	40	4			
RT10-D324-S32-200			200					
RT10-D325-S32-150		32	150	40	5			
RT10-D325-S32-200			200					
RT10-D334-S32-150	33	32	150	35	4			
RT10-D334-S32-200			200					
RT10-D335-S32-150		32	150	35	5			
RT10-D335-S32-200			200					
RT10-D354-S32-150	35	32	150	35	4			
RT10-D354-S32-200			200					
RT10-D355-S32-150		32	150	35	5			
RT10-D355-S32-200			200					

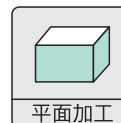
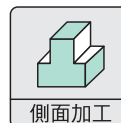
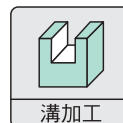
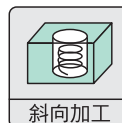
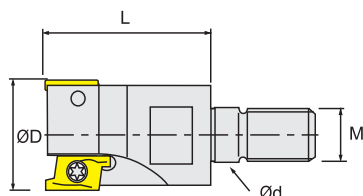
* SAFETY inserts recommended.

SHOULDER/CUTTING END MILLS



直角端銑刀

■ RT

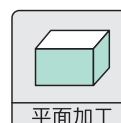
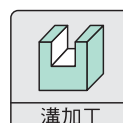
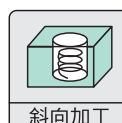
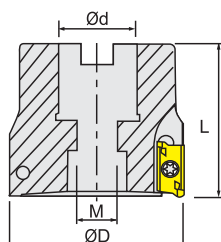


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench	
	D	d	L	M					
RT07-D102-MD10	10	5.5	18	M5	2	RT0702..	MS2004A	ETF6	
RT07-D112-MD10	11								
RT07-D122-MD11	12								
RT07-D132-MD11	13	6.5	20	M6	2				
RT07-D163-MD14	16								
RT07-D173-MD14	17								
RT07-D204-MD18	20	10.5	30	M10	4				
RT07-D214-MD18	21								
RT10-D162-MD14	16			8.5		30	M8	2	
RT10-D172-MD14	17								
RT10-D202-MD18	20	10.5	30		M10		2		
RT10-D203-MD18				3					
RT10-D212-MD18				2					
RT10-D213-MD18	21	10.5	30	M10	3				
RT10-D253-MD23				25		12.5	35	M12	3
RT10-D263-MD23				26					
RT10-D324-MD29	32	17	43	M16	4				
RT10-D325-MD29				5					
RT10-D334-MD29				4					
RT10-D335-MD29	33	17	43	M16	5				
RT10-D354-MD29				4					
RT10-D355-MD29				5					

* SAFETY inserts recommended.

■ RT



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
RT10-D504-22.0	50	22.0	50	11	4	RT1003 ..	MS2506B	ETF9
RT10-D506-22.0					6			
RT10-D634-25.4	63	25.4	50	13	4			
RT10-D636-25.4					6			
RT10-D664-25.4	66	25.4	50	13	4			
RT10-D666-25.4					6			

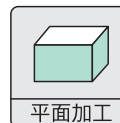
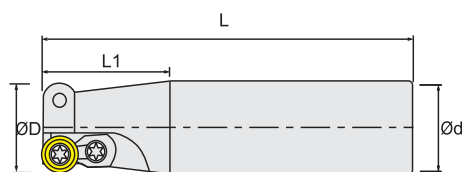
* SAFETY inserts recommended.

CORNER ROUNDING END MILLS



圓刃銑刀

BRP

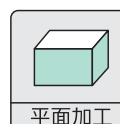
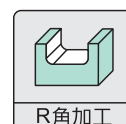
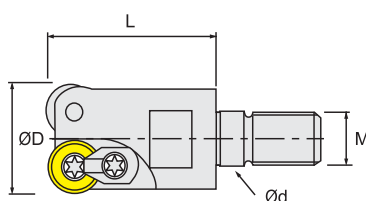


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 	Screw 	Clamp 	Wrench 
	D	d	L	L1							
BRP08-202-S20-150	20	20	150	35	2	RP ..08T2	MS2506A	ETF9	MS3509A	MC35-143	ETF15
BRP08-202-S20-200			200								
BRP10-252-S25-150	25	25	150	40	2	RP ..10T3	MS3509A	ETF15	MS3509A	MC35-143	ETF15
BRP10-252-S25-200			200								
BRP12-252-S25-150	25	25	150	45	2	RP ..1204	MS4009A	ETF15	MS3509A	MC35-143	ETF15
BRP12-252-S25-200			200								
BRP12-252-S25-250			250								
BRP12-262-S25-150	26	25	150	35	2		MS4011A				
BRP12-262-S25-200			200								
BRP12-262-S25-250			250								
BRP12-322-S32-150	32	32	150	45	2						
BRP12-322-S32-200			200								
BRP12-323-S32-150	32	32	150	45	3						
BRP12-323-S32-200			200								
BRP12-323-S32-250			250								
RP103-252-S25-150	25	25	150	40	2	RP..1003	MS4009A	ETF15	MS3509A	MC35-143	ETF15
RP103-252-S25-200			200								

* MITSUBISHI inserts recommended.

BRP



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench	Screw	Clamp	Wrench
	D	d	L	M							
BRP12-252-MD23	25	12.5	35	M12	2	RP ..1204	MS4009A	ETF15	MS3509A	MC35-143	ETF15
BRP12-262-MD23	26						MS4011A				
BRP103-202-MD18	20	10.5	30	M10	2	RP ..1003	MS4009A	ETF15	-	-	-
BRP103-212-MD18	21										
BRP103-252-MD23	25	12.5	35	M12	2	RP ..1003	MS4009A	ETF15	MS3509A	MC35-143	ETF15
BRP103-262-MD23	26										
BRP103-303-MD23	30	17	43	M16	3	RP ..1003	MS4009A	ETF15	MS3509A	MC35-143	ETF15
BRP103-353-MD29	35										

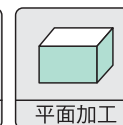
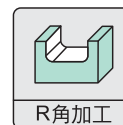
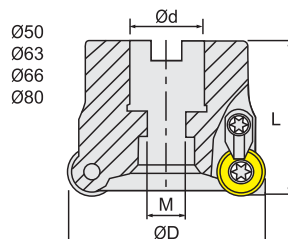
* MITSUBISHI inserts recommended.

CORNER ROUNDING END MILLS



圓刃銑刀

RPM

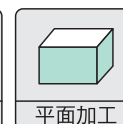
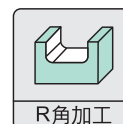
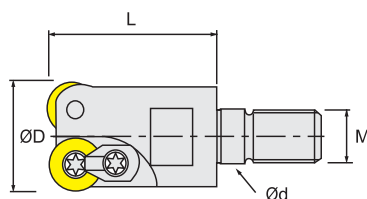


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench	Screw	Clamp	Wrench
	D	d	L	M							
RPM-6R504-22.0	50	22.0	50	11	4	RP..1204	MS4011A	ETF15	MS3509A	MC35-143	ETF15
RPM-6R504-25.4	50	25.4	50	13	4						
RPM-6R635-25.4	63	25.4	50	13	5						
RPM-6R665-25.4	66	25.4	50	13	5						
RPM-6R806-25.4	80	25.4	55	13	6						

* MITSUBISHI inserts recommended.

HAR



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench	Screw	Clamp	Wrench
	D	d	L	M							
HAR08-162-MD14	16	8.5	23	M8	2	RD..0802	MS3006B	ETF9	--	--	--
HAR08-172-MD14	17						MS3008B		--	--	--
HAR08-202-MD18	20	10.5	30	M10	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15
HAR08-212-MD18	21								--	--	--
HAR10-252-MD23	25	12.5	35	M12	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15
HAR10-253-MD23					3				--	--	--
HAR10-262-MD23	26	12.5	35	M12	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15
HAR10-263-MD23					3				--	--	--
HAR10-302-MD29	30	17	43	M16	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15
HAR10-323-MD29	32	17	43	M16	3						
HAR10-353-MD29	35				3						

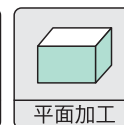
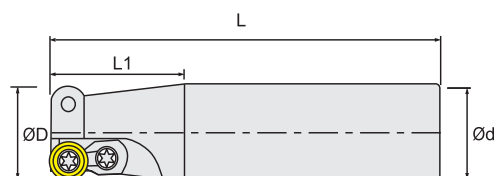
* HITACHI inserts recommended.

CORNER ROUNDING END MILLS



圓刃銑刀

HAR



(Unit: mm)

Model No.	Dimensions				Teeth	Insert											
	D	d	L	L1													
C12-4R121-130	12	12	130	30	1	RD..0802	MS3006B	ETF9	MS3509A	MC35-143	ETF15						
C16-4R161-150	16	16	150	35	1												
C16-4R161-200			200														
C16-4R172-150	17	16	150	25	2	RD..0802	MS3006B	ETF9	--	--	--						
C20-4R202-150	20	20	150	40	2	RD..0802	MS3008B	ETF9	MS3509A	MC35-143	ETF15						
C20-4R202-200			200														
C20-4R212-150	21	20	150	25	2												
C20-4R212-200			200														
C25-5R252-150	25	25	150	45	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15						
C25-5R252-200			200														
C25-5R252-250			250														
C25-5R262-150	26	25	150	30	2	RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15						
C25-5R262-200			200														
C25-5R262-250			250														
C25-5R302-150	30	25	150	30	2												
C25-5R302-200			200														
C25-5R302-250			250														
C25-5R303-150	30	25	150	30	3												
C25-5R303-200			200														
C25-5R303-250			250														
C32-5R323-150	32	32	150	45	3							RD..10T3	MS4009B	ETF15	MS3509A	MC35-143	ETF15
C32-5R323-200			200														
C32-5R323-250			250														
C32-5R323-300			300														
C32-5R353-150	35	32	150	35	3												
C32-5R353-200			200														
C32-5R353-250			250														
C32-5R353-300			300														
C32-5R403-150	40	32	150	35	3												
C32-5R403-200			200														
C32-5R403-250			250														
C32-5R403-300			300														

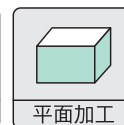
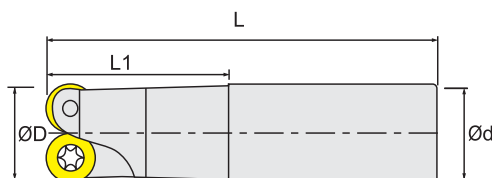
* HITACHI inserts recommended.

CORNER ROUNDING END MILLS

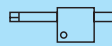


圓刃銑刀

RD



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
RD051-D092-S08-100	9	8	100	12	2	RD ..0501..	MS2004A	ETF6
RD051-D102-S10-100	10	10	100	18	2			
RD051-D112-S10-100	11	10	100	15	2			
RD051-D122-S12-100	12	12	100	22	2			
RD051-D123-S12-100					3			
RD051-D132-S12-100	13	12	100	18	2			
RD051-D133-S12-100					3			
RD051-D164-S16-150	16	16	150	30	4			
RD051-D164-S16-200			200					
RD051-D174-S16-150	17	16	150	20	4			
RD051-D174-S16-200			200					
RD07T-D122-S12-120	12	12	120	35	2	RD..07T1..	MS2206C	ETF7
RD07T-D122-S16-120		16	120	35	2			
RD072-D162-S16-150	16	16	150	25	2	RD..0702..	MS2506E	ETF8
RD072-D162-S16-200			200					
RD072-D172-S16-150	17	16	150	20	2			
RD072-D172-S16-200			200					
RD072-D203-S20-150	20	20	150	35	3			
RD072-D203-S20-200			200					
RD072-D213-S20-150	21	20	150	25	3			
RD072-D213-S20-200			200					
RD072-D254-S25-150	25	25	150	40	4			
RD072-D254-S25-200			200					
RD072-D254-S25-250			250					
RD072-D255-S25-150	25	25	150	40	5	RD..0702..	MS2505E	ETF8
RD072-D255-S25-200			200					
RD072-D255-S25-250			250					
RD072-D264-S25-150	26	25	150	25	4	RD..0702..	MS2506E	ETF8
RD072-D264-S25-200			200					
RD072-D264-S25-250			250					
RD072-D265-S25-150	26	25	150	25	5			
RD072-D265-S25-200			200					
RD072-D265-S25-250			250					
RD072-D355-S32-150	35	32	150	30	5			
RD072-D355-S32-200			200					
RD072-D355-S32-250			250					
RD072-D355-S32-300			300					
RD072-D356-S32-150	35	32	150	30	6			
RD072-D356-S32-200			200					
RD072-D356-S32-250			250					

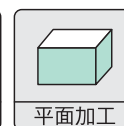
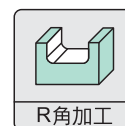
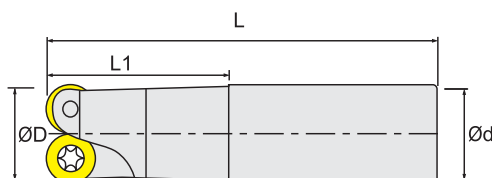
* SAFETY inserts recommended.

CORNER ROUNDING END MILLS



圓刃銑刀

RD

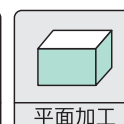
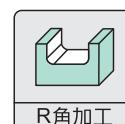
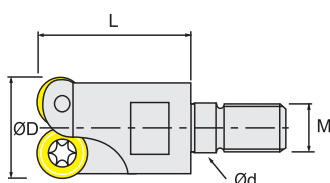


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Clamp 	Screw 	Wrench 
	D	d	L	L1						
RD103-D202-S20-150	20	20	150	40	2	RD..1003..	MS3507A	--	--	ETF15
RD103-D202-S20-200			200							
RD103-D212-S20-150	21	20	150	25	2					
RD103-D212-S20-200			200							
RD103-D253-S25-150	25	25	150	40	3					
RD103-D253-S25-200			200							
RD103-D253-S25-250			250							
RD103-D263-S25-150	26	25	150	25	3					
RD103-D263-S25-200			200							
RD103-D263-S25-250			250							
RD103-D303-S25-150	30	25	150	25	3	RD..1003..	MS3509A	--	--	ETF15
RD103-D303-S25-200			200							
RD103-D303-S25-250			250							
RD103-D323-S32-150	32	32	150	40	3	RD..1003..	MS3509A	MC35-143	MS3509A	ETF15
RD103-D323-S32-200			200							
RD103-D323-S32-250			250							
RD103-D323-S32-300			300							
RD103-D353-S32-150	35	32	150	35	3	RD..1003..	MS3509A	MC35-143	MS3509A	ETF15
RD103-D353-S32-200			200							
RD103-D353-S32-250			250							
RD103-D353-S32-300			300							
RD103-D354-S32-150	35	32	150	35	4	RD..1003..	MS3509A	MC35-143	MS3509A	ETF15
RD103-D354-S32-200			200							
RD103-D354-S32-250			250							
RD103-D354-S32-300			300							

* SAFETY inserts recommended.

RD



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Clamp	Screw	Wrench
	D	d	L	L1						
RD051-D092-MD08	9	4.5	15	M4	2	RD..0501..	MS2003A	--	--	ETF6
RD051-D102-MD10	10	5.5	16	M5	2		MS2004A			
RD051-D112-MD10	11	5.5	18	M5	2					

* SAFETY inserts recommended.

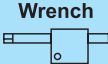
CORNER ROUNDING END MILLS



圓刃銑刀

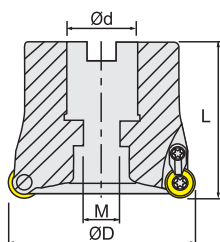
RD

(Unit: mm)

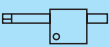
Model No.	Dimensions				Teeth	Insert				
	D	d	L	L1						
RD051-D122-MD11	12	6.5	18	M6	2	RD..0501..		--	--	ETF6
RD051-D123-MD11					3					
RD051-D132-MD11	13	6.5	18	M6	2					
RD051-D133-MD11					3					
RD051-D164-MD14	16	8.5	23	M8	4					
RD051-D174-MD14	17	8.5	23	M8	4					
RD07T-D122-MD14	12	8.5	23	M8	2	RD..07T1..		--	--	ETF7
RD072-D162-MD14	16	8.5	23	M8	2	RD..0702..	MS2506E	--	--	ETF8
RD072-D163-MD14					3					
RD072-D172-MD14	17	8.5	23	M8	2					
RD072-D173-MD14					3					
RD072-D203-MD18	20	10.5	30	M10	3					
RD072-D212-MD18	21	10.5	30	M10	2					
RD072-D213-MD18					3					
RD072-D254-MD23	25	12.5	35	M12	4					
RD072-D255-MD23					5					
RD072-D264-MD23	26	12.5	35	M12	4					
RD072-D265-MD23					5					
RD072-D355-MD29	35	17	43	M16	5					
RD072-D356-MD29					6					
RD103-D202-MD18	20	10.5	30	M10	2	RD..1003..	MS3507A	--	--	ETF15
RD103-D212-MD18	21									
RD103-D253-MD23	25	12.5	35	M12	3					
RD103-D263-MD23	26									
RD103-D303-MD23	30	12.5	35	M12	3		MS3509A			
RD103-D323-MD29	32	17	43	M16	3	RD..1003..	MS3509A	MC35-143	MS3509A	ETF15
RD103-D353-MD29	35	17	43	M16	3					
RD103-D354-MD29					4					

* SAFETY inserts recommended.

RD



(Unit: mm)

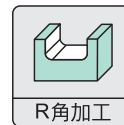
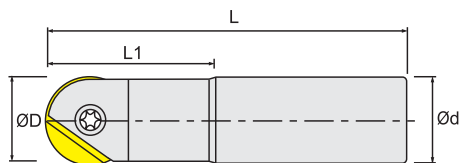
Model No.	Dimensions				Teeth	Insert	Screw 	Clamp 	Screw 	Wrench 
	D	d	L	M						
RD103-D504-22.0	50	22.0	40	11	4	RD..1003..	MS3509A	MC35-143	MS3509A	ETF15
RD103-D505-22.0	50				5					
RD103-D504-25.4	50	25.4	50	13	4					
RD103-D505-25.4					5					
RD103-D635-25.4	63	25.4	50	13	5					
RD103-D636-25.4	63				6					

* SAFETY inserts recommended.

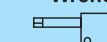
BALL PRECISION CUTTERS

球型精銑刀

PPH

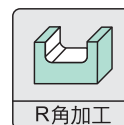
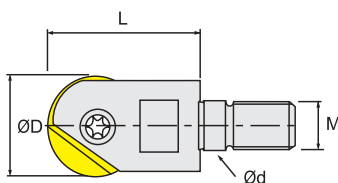


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
PPH08-S08-100	8	8	100	20	1	PPH-0800-...	DVF6240	ETF7
PPH08-S10-100		10	100	35				
PPH10-S10-100	10	10	100	25	1	PPH-1000-...	DVF6241	ETF8
PPH10-S12-100		12	100	36				
PPH12-S12-150	12	12	150	32	1	PPH-1200-...	DVF6242	ETF10
PPH12-S16-200		16	200	58				
PPH16-S16-150	16	16	150	36	1	PPH-1600-...	DVF6244	ETL15
PPH16-S16-200			200					
PPH16-S20-200		20	200	65				
PPH20-S20-150	20	20	150	45	1	PPH-2000-...	DVF6246	ETL20
PPH20-S20-200			200					
PPH20-S25-200		25	200	76				
PPH20-S25-250			250					
PPH25-S25-200	25	25	200	45	1	PPH-2500-...	DVF6247	ETL30
PPH25-S25-250			250					
PPH25-S32-200		32	200	98				
PPH25-S32-250			250					

* DIJET inserts recommended.

PPH



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
PPH08-MD08	8	4.5	16	M4	1	PPH-0800-...	DVF6240	ETF7
PPH10-MD10	10	5.5	20	M5	1	PPH-1000-...	DVF6241	ETF8
PPH12-MD11	12	6.5	22	M6	1	PPH-1200-...	DVF6242	ETF10
PPH16-MD14	16	8.5	28	M8	1	PPH-1600-...	DVF6244	ETL15
PPH20-MD18	20	10.5	30	M10	1	PPH-2000-...	DVF6246	ETL20
PPH25-MD23	25	12.5	40	M12	1	PPH-2500-...	DVF6247	ETL30

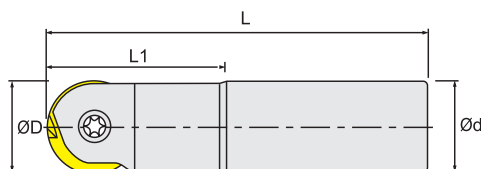
* DIJET inserts recommended.

BALL PRECISION CUTTERS



球型精銑刀

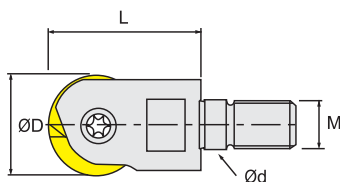
WGR



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw 	Wrench 
	D	d	L	L1				
WGR08-S08-100	8	8	100	20	1	WGRMT-D08	MGR3008	ETF8
WGR08-S10-100		10	100	35				
WGR10-S10-100	10	10	100	25	1	WGRMT-D10	MGR4010	ETL15
WGR10-S12-150		12	150	36				
WGR12-S12-150	12	12	150	32	1	WGRMT-D12	MGR5012	ETL20
WGR12-S16-200		16	200	58				
WGR16-S16-150	16	16	150	36	1	WGRMT-D16	MGR5016	ETL20
WGR16-S16-200			200					
WGR16-S20-200		20	200	65				
WGR20-S20-150	20	20	150	45	1	WGRMT-D20	MGR5020	ETL20
WGR20-S20-200			200					
WGR20-S25-200		25	200	76				
WGR20-S25-250			250					
WGR25-S25-200	25	25	200	45	1	WGRMT-D25	MGR6025	ETL30
WGR25-S25-250			250					
WGR25-S32-200		32	200	98				
WGR25-S32-250			250					
WGR25-S32-300			300					
WGR30-S32-200	30	32	200	50	1	WGRMT-D30	MGR8030	ETL30
WGR30-S32-250			250					
WGR30-S32-300			300					

WGR

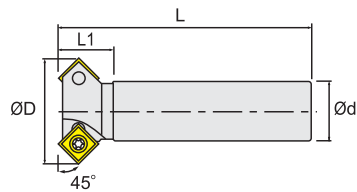


(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	M				
WGR08-MD08	8	4.5	16	M4	1	WGRMT-D08	MGR3008	ETF8
WGR10-MD10	10	5.5	20	M5	1	WGRMT-D10	MGR4010	ETL15
WGR12-MD11	12	6.5	22	M6	1	WGRMT-D12	MGR5012	ETL20
WGR12-MD14		8.5	30	M8	1			
WGR16-MD14	16	8.5	28	M8	1	WGRMT-D16	MGR5016	ETL20
WGR20-MD18	20	10.5	30	M10	1	WGRMT-D20	MGR5020	ETL20
WGR25-MD23	25	12.5	40	M12	1	WGRMT-D25	MGR6025	ETL30
WGR30-MD29	30	17.0	43	M16	1	WGRMT-D30	MGR8030	ETL30

CHAMFER MILLS

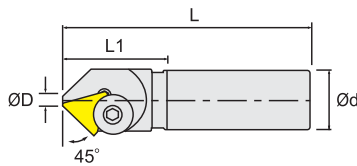
倒角刀



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
C20-VMSP22-120	22	20	120	25	1	SP..0903..	MS4009A	ETF15
C16-VMSP26.5-120	26.5	16	120	17	2			
C20-VMSP35-120	35	20	120	17	2		MS4011A	

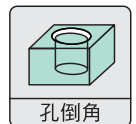
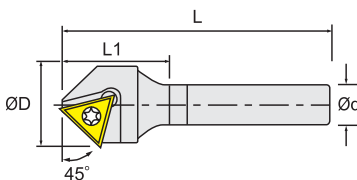
* ISO inserts recommended.



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
C20-TPR90-120	4	20	120	35	1	TP..1603..	MSR63	PL4

* ISO inserts recommended.



(Unit: mm)

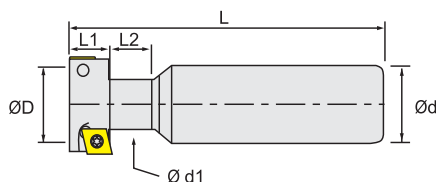
Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
C12-TCR90-22-120	25	12	120	30	1	TC..16T3..	MS4011A	ETF15
C20-TCR90-22-120	25	20	120	35				

* ISO inserts recommended.

T-SLOT END MILLING CUTTER



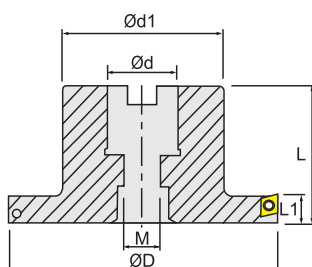
T型鉄刀



(Unit: mm)

Model No.	Dimensions						Teeth	Insert	Screw	Wrench
	D	d	d1	L	L1	L2				
CCT11-D25-S20-090	25	20	12.5	90	11	17	4	CCMT060204	MS2506A	ETF9
CCT14-D32-S25-100	32	25	16	100	14	22		CCMT080304	MS3008A	ETF9
CCT18-D40-S25-110	40	25	20	110	18	27		CCMT09T308	MS4011A	ETF15
CCT22-D50-S32-140	50	32	26	140	22	34		CCMT120408	MS5011A	ETF20

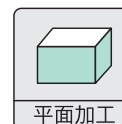
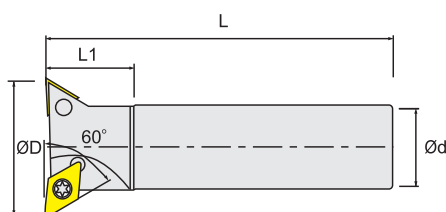
* ISO inserts recommended.



(Unit: mm)

Model No.	Dimensions						Teeth	Insert	Screw	Wrench
	D	d	d1	L	L1	M				
CCT08-10008-25.4	100	25.4	60	50	8	13	8	CCMT060204	MS2506A	ETF9

* ISO inserts recommended.



(Unit: mm)

Model No.	Dimensions				Teeth	Insert	Screw	Wrench
	D	d	L	L1				
DCWR60-25-S20-120	25	20	120	25	3	DCMT0702..	MS2506A	ETF9
DCWR60-30-S20-120	30	20	120	25	3			
DCWR60-40-S25-150	40	25	150	25	3			
DCWR60-50-S32-150	50	32	150	30	3	DCMT11T3..	MS4011A	ETF15
DCWR60-60-S32-150	60	32	150	30	4			

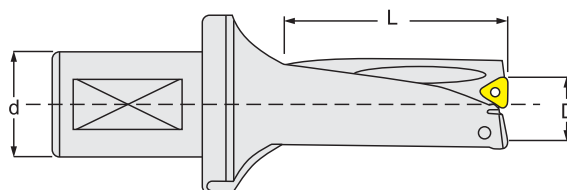
* ISO inserts recommended.

RAPID DRILLS THROW-AWAY INSERTS



捨棄式快速鑽頭

■ Dx2 WCMX



(Unit: mm)

- When ordering
14WCMX ~ 24WCMX, please
specify the shank size (d).

- 訂購 14WCMX ~ 24WCMX時，
請確認柄徑 (d)規格

Model No.	Insert	d	D	L (Dx2)	Screw	Wrench
14WCMX 15WCMX 16WCMX 17WCMX 18WCMX 19WCMX	WCMX030208	25	14 15 16 17 18 19	28 30 32 34 36 38	M2.5x0.45	T8
20WCMX 21WCMX 22WCMX 23WCMX 24WCMX	WCMX040208		20 21 22 23 24	40 42 44 46 48		
14WCMX 15WCMX 16WCMX 17WCMX 18WCMX 19WCMX	WCMX030208	32	14 15 16 17 18 19	28 30 32 34 36 38	M2.5x0.45	T8
20WCMX 21WCMX 22WCMX 23WCMX 24WCMX	WCMX040208		20 21 22 23 24	40 42 44 46 48		
25WCMX 26WCMX 27WCMX 28WCMX 29WCMX 30WCMX	WCMT050308		25 26 27 28 29 30	50 52 54 56 58 60	M3.0x0.5	T10
31WCMX 32WCMX 33WCMX 34WCMX 35WCMX 36WCMX 37WCMX	WCMT06T308		31 32 33 34 35 36 37	62 64 66 68 70 72 74	M3.5x0.6	T15
38WCMX 39WCMX 40WCMX 41WCMX 42WCMX	WCMT06T308	40	38 39 40 41 42	76 78 80 82 84	M3.5x0.6	T15
43WCMX 44WCMX 45WCMX 46WCMX 47WCMX 48WCMX 49WCMX 50WCMX 51WCMX 52WCMX 53WCMX 54WCMX	WCMT080412		43 44 45 46 47 48 49 50 51 52 53 54	86 88 90 92 94 96 98 100 102 104 106 108	M4.0x0.7	
55WCMX 56WCMX 57WCMX 58WCMX 59WCMX 60WCMX 61WCMX 62WCMX 63WCMX 64WCMX	WCMT06T308		55 56 57 58 59 60 61 62 63 64	110 112 114 116 118 120 122 124 126 128	M3.5x0.6	

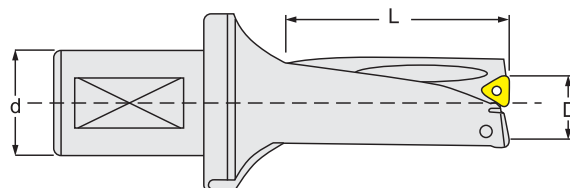
* SUMITOMO inserts recommended.

RAPID DRILLS THROW-AWAY INSERTS



捨棄式快速鑽頭

Dx3 WCMX



(Unit: mm)

Model No.	Insert	d	D	L (Dx3)	Screw	Wrench
14WCMX 15WCMX 16WCMX 17WCMX 18WCMX 19WCMX	WCMX030208	25	14 15 16 17 18 19	42 45 48 51 54 57	M2.5x0.45	T8
20WCMX 21WCMX 22WCMX 23WCMX 24WCMX	WCMX040208		20 21 22 23 24	60 63 66 69 72		
14WCMX 15WCMX 16WCMX 17WCMX 18WCMX 19WCMX	WCMX030208	32	14 15 16 17 18 19	42 45 48 51 54 57	M2.5x0.45	T8
20WCMX 21WCMX 22WCMX 23WCMX 24WCMX	WCMX040208		20 21 22 23 24	60 63 66 69 72		
25WCMX 26WCMX 27WCMX 28WCMX 29WCMX 30WCMX	WCMT050308		25 26 27 28 29 30	75 78 81 84 87 90	M3.0x0.5	T10
31WCMX 32WCMX 33WCMX 34WCMX 35WCMX 36WCMX 37WCMX	WCMT06T308		31 32 33 34 35 36 37	93 96 99 102 105 108 111	M3.5x0.6	T15
38WCMX 39WCMX 40WCMX 41WCMX 42WCMX	WCMT06T308	40	38 39 40 41 42	114 117 120 123 126	M3.5x0.6	T15
43WCMX 44WCMX 45WCMX 46WCMX 47WCMX 48WCMX 49WCMX 50WCMX 51WCMX 52WCMX 53WCMX 54WCMX	WCMT080412		43 44 45 46 47 48 49 50 51 52 53 54	129 132 135 138 141 144 147 150 153 156 159 162	M4.0x0.7	
55WCMX 56WCMX 57WCMX 58WCMX 59WCMX 60WCMX 61WCMX 62WCMX 63WCMX 64WCMX	WCMT06T308		55 56 57 58 59 60 61 62 63 64	165 168 171 174 177 180 183 186 189 192	M3.5x0.6	

• When ordering
14WCMX ~ 24WCMX, please
specify the shank size (d).

• 訂購 14WCMX ~ 24WCMX時，
請確認柄徑 (d)規格

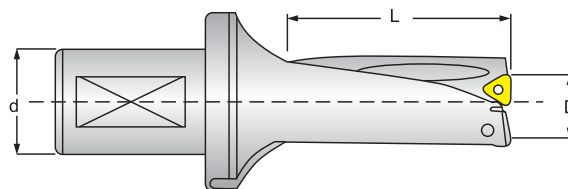
* SUMITOMO inserts recommended.

RAPID DRILLS THROW-AWAY INSERTS



捨棄式快速鑽頭

■ Dx4 WCMX



(Unit: mm)

Model No.	Insert	d	D	L (Dx4)	Screw	Wrench
14WCMX 16WCMX 19WCMX	WCMX030208	32	14 16 19	56 64 76	M2.5x0.45	T8
20WCMX 21WCMX 22WCMX 23WCMX 24WCMX	WCMX040208		20 21 22 23 24	80 84 88 92 96		
25WCMX 26WCMX 27WCMX 28WCMX 29WCMX	WCMT050308		25 26 27 28 29	100 104 108 112 116	M3.0x0.5	T10
34WCMX	WCMT06T308		34	136	M3.5x0.6	T15
39WCMX 41WCMX	WCMT06T308	40	39 41	156 164	M3.5x0.6	T15
43WCMX 44WCMX 47WCMX 50WCMX 54WCMX	WCMT080412		43 44 47 50 54	172 176 188 200 216	M4.0x0.7	
59WCMX	WCMT06T308		59	236	M3.5x0.6	

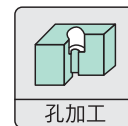
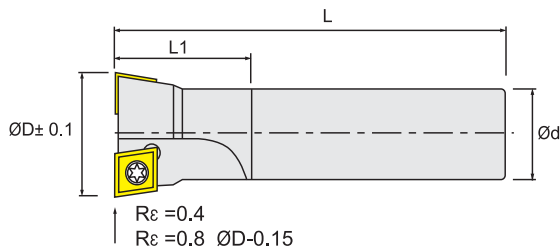
* SUMITOMO inserts recommended.

FIXED ROUGH BORING BARS



固定式粗搪刀

TB



(Unit: mm)

Model No.	L	Model No.	L	Model No.	L	Model No.	L	Dimensions			Insert	Teeth
								D Rε=0.4	d	L1		
TB12-S16-120	120	TB12-S16-160	160	TB12-S16-200	200			11.8	16	30	CC..060204	1
TB13-S16-120		TB13-S16-160		TB13-S16-200				12.8				
TB14-S16-120		TB14-S16-160		TB14-S16-200				13.8				
TB15-S16-120		TB15-S16-160		TB15-S16-200				14.8				
TB16-S16-120	120	TB16-S16-160	160	TB16-S16-200	200			15.8	16	30	CC..060204	2
TB17-S16-120		TB17-S16-160		TB17-S16-200				16.8				
TB18-S16-120		TB18-S16-160		TB18-S16-200				17.8				
TB19-S16-120		TB19-S16-160		TB19-S16-200		TB18-S16-250	250	18.8				
TB20-S16-120		TB20-S16-160		TB20-S16-200		TB19-S16-250	250	19.8				
TB21-S16-120	120	TB21-S16-160	160	TB21-S16-200	200	TB20-S16-250	250	20.8	16	30	CC..060204	2
TB22-S16-120		TB22-S16-160		TB22-S16-200		TB21-S16-250	250	21.8				
TB23-S20-130	130	TB23-S20-160	160	TB23-S20-200	200	TB22-S16-250	250	22.8	20	30	CC..060204	2
TB24-S20-130		TB24-S20-160		TB24-S20-200		TB23-S20-250	250	23.8				
TB25-S20-130		TB25-S20-160		TB25-S20-200		TB24-S20-250	250	24.8				
TB26-S20-130	130	TB26-S20-160	160	TB26-S20-200	200	TB25-S20-250	250	25.8	20	30	CC..09T304	2
TB27-S20-130		TB27-S20-160		TB27-S20-200		TB26-S20-250	250	26.8				
TB28-S20-130		TB28-S20-160		TB28-S20-200		TB27-S20-250	250	27.8				
TB29-S20-130		TB29-S20-160		TB29-S20-200		TB28-S20-250	250	28.8				
TB30-S25-160	160	TB30-S25-200	200	TB30-S25-250	250	TB29-S20-250	250	29.8	25	40	CC..09T304	2
TB31-S25-160	160	TB31-S25-200	200	TB31-S25-250	250	TB30-S25-300	300	30.8	25	40	CC..09T304	2
TB32-S25-160		TB32-S25-200		TB32-S25-250		TB31-S25-300	300	31.8				
TB33-S25-160		TB33-S25-200		TB33-S25-250		TB32-S25-300	300	32.8				
TB34-S25-160		TB34-S25-200		TB34-S25-250		TB33-S25-300	300	33.8				
TB35-S25-160		TB35-S25-200		TB35-S25-250		TB34-S25-300	300	34.8				
TB36-S25-160	160	TB36-S25-200	200	TB36-S25-250	250	TB35-S25-300	300	35.8	25	40	CC..09T304	2
TB37-S25-160		TB37-S25-200		TB37-S25-250		TB36-S25-300	300	36.8				
TB38-S25-160		TB38-S25-200		TB38-S25-250		TB37-S25-300	300	37.8				
TB39-S25-160		TB39-S25-200		TB39-S25-250		TB38-S25-300	300	38.8				
TB40-S25-160	200	TB40-S25-200	250	TB40-S25-250	300	TB39-S25-300	300	39.8	32	45	CC..09T304	2
TB41-S32-200		TB41-S32-250		TB41-S32-300		TB40-S25-300	300	40.8				
TB42-S32-200		TB42-S32-250		TB42-S32-300		TB41-S32-350	350	41.8				
TB43-S32-200		TB43-S32-250		TB43-S32-300			350	42.8				
TB44-S32-200		TB44-S32-250		TB44-S32-300			350	43.8				
TB45-S32-200	200	TB45-S32-250	250	TB45-S32-300	300		350	44.8				
TB46-S32-200		TB46-S32-250		TB46-S32-300			350	45.8				
TB47-S32-200		TB47-S32-250		TB47-S32-300			350	46.8				
TB48-S32-200		TB48-S32-250		TB48-S32-300			350	47.8				
TB49-S32-200		TB49-S32-250		TB49-S32-300			350	48.8				
TB50-S32-200	200	TB50-S32-250	250	TB50-S32-300	300		350	49.8				
TB51-S32-200		TB51-S32-250		TB51-S32-300			350	50.8				
TB52-S32-200		TB52-S32-250		TB52-S32-300			350	51.8				
TB53-S32-200		TB53-S32-250		TB53-S32-300			350	52.8				
TB54-S32-200		TB54-S32-250		TB54-S32-300			350	53.8				
TB55-S32-200	200	TB55-S32-250	250	TB55-S32-300	300		350	54.8				
TB56-S32-200		TB56-S32-250		TB56-S32-300			350	55.8				
TB57-S32-200		TB57-S32-250		TB57-S32-300			350	56.8				

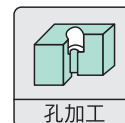
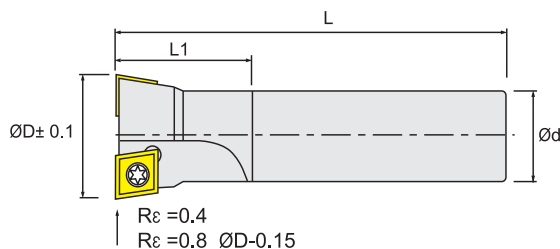
* ISO inserts recommended.

FIXED ROUGH BORING BARS



固定式粗搪刀

TB



(Unit: mm)

Model No.	L	Model No.	L	Model No.	L	Dimensions			Insert	Teeth
						D R _a =0.4	d	L1		
TB12E-S16-120 TB13E-S16-120 TB14E-S16-120 TB15E-S16-120	120	TB12E-S16-160 TB13E-S16-160 TB14E-S16-160 TB15E-S16-160	160	TB12E-S16-200 TB13E-S16-200 TB14E-S16-200 TB15E-S16-200	200	12.0 13.0 14.0 15.0	16	30	CC..060204	1
TB16E-S16-120 TB17E-S16-120 TB18E-S16-120 TB19E-S16-120 TB20E-S16-120	120	TB16E-S16-160 TB17E-S16-160 TB18E-S16-160 TB19E-S16-160 TB20E-S16-160	160	TB16E-S16-200 TB17E-S16-200 TB18E-S16-200 TB19E-S16-200 TB20E-S16-200	200	16.0 17.0 18.0 19.0 20.0	16	30	CC..060204	2
TB21E-S16-120 TB22E-S16-120	120	TB21E-S16-160 TB22E-S16-160	160	TB21E-S16-200 TB22E-S16-200	200	21.0 22.0	16	30		2
TB23E-S20-130 TB24E-S20-130 TB25E-S20-130	130	TB23E-S20-160 TB24E-S20-160 TB25E-S20-160	160	TB23E-S20-200 TB24E-S20-200 TB25E-S20-200	200	23.0 24.0 25.0	20	30	CC..060204	2
TB26E-S20-130 TB27E-S20-130 TB28E-S20-130 TB29E-S20-130	130	TB26E-S20-160 TB27E-S20-160 TB28E-S20-160 TB29E-S20-160	160	TB26E-S20-200 TB27E-S20-200 TB28E-S20-200 TB29E-S20-200	200	26.0 27.0 28.0 29.0	20	30	CC..09T304	2
TB30E-S25-160	160	TB30E-S25-200	200	TB30E-S25-250	250	30.0	25	40	CC..09T304	2
TB31E-S25-160 TB32E-S25-160 TB33E-S25-160 TB34E-S25-160 TB35E-S25-160	160	TB31E-S25-200 TB32E-S25-200 TB33E-S25-200 TB34E-S25-200 TB35E-S25-200	200	TB31E-S25-250 TB32E-S25-250 TB33E-S25-250 TB34E-S25-250 TB35E-S25-250	250	31.0 32.0 33.0 34.0 35.0	25	40	CC..09T304	2
TB36E-S25-160 TB37E-S25-160 TB38E-S25-160 TB39E-S25-160 TB40E-S25-160	160	TB36E-S25-200 TB37E-S25-200 TB38E-S25-200 TB39E-S25-200 TB40E-S25-200	200	TB36E-S25-250 TB37E-S25-250 TB38E-S25-250 TB39E-S25-250 TB40E-S25-250	250	36.0 37.0 38.0 39.0 40.0	25	40		2
TB41E-S32-200 TB42E-S32-200 TB43E-S32-200 TB44E-S32-200 TB45E-S32-200	200	TB41E-S32-250 TB42E-S32-250 TB43E-S32-250 TB44E-S32-250 TB45E-S32-250	250	TB41E-S32-300 TB42E-S32-300 TB43E-S32-300 TB44E-S32-300 TB45E-S32-300	300	41.0 42.0 43.0 44.0 45.0	32	45	CC..09T304	2
TB46E-S32-200 TB47E-S32-200 TB48E-S32-200 TB49E-S32-200 TB50E-S32-200	200	TB46E-S32-250 TB47E-S32-250 TB48E-S32-250 TB49E-S32-250 TB50E-S32-250	250	TB46E-S32-300 TB47E-S32-300 TB48E-S32-300 TB49E-S32-300 TB50E-S32-300	300	46.0 47.0 48.0 49.0 50.0	32	45		2
TB51E-S32-200 TB52E-S32-200 TB53E-S32-200 TB54E-S32-200 TB55E-S32-200	200	TB51E-S32-250 TB52E-S32-250 TB53E-S32-250 TB54E-S32-250 TB55E-S32-250	250	TB51E-S32-300 TB52E-S32-300 TB53E-S32-300 TB54E-S32-300 TB55E-S32-300	300	51.0 52.0 53.0 54.0 55.0	32	45		2
TB56E-S32-200 TB57E-S32-200	200	TB56E-S32-250 TB57E-S32-250	250	TB56E-S32-300 TB57E-S32-300	300	56.0 57.0	32	45		2

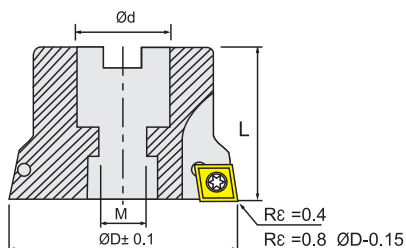
* ISO inserts recommended.

FIXED ROUGH BORING BARS



固定式粗搪刀

■ TB



(Unit: mm)

Model No. d = 22.0	Model No. d = 25.4	Insert 	Model No. (d = 22.0, 25.4)	Insert 	D R ϵ =0.4	Teeth
TB45-22.0-CC09 TB46-22.0-CC09 TB47-22.0-CC09 TB48-22.0-CC09 TB49-22.0-CC09 TB50-22.0-CC09	TB50-25.4-CC09	CC..09T304		CC..120404	44.8 45.8 46.8 47.8 48.8 49.8	2
TB51-22.0-CC09 TB52-22.0-CC09 TB53-22.0-CC09 TB54-22.0-CC09 TB55-22.0-CC09	TB51-25.4-CC09 TB52-25.4-CC09 TB53-25.4-CC09 TB54-25.4-CC09 TB55-25.4-CC09	CC..09T304	TB55-22.0-CC12	CC..120404	50.8 51.8 52.8 53.8 54.8	2
TB56-22.0-CC09 TB57-22.0-CC09 TB58-22.0-CC09 TB59-22.0-CC09 TB60-22.0-CC09	TB56-25.4-CC09 TB57-25.4-CC09 TB58-25.4-CC09 TB59-25.4-CC09 TB60-25.4-CC09	CC..09T304	TB56-22.0-CC12 TB57-22.0-CC12 TB58-22.0-CC12 TB59-22.0-CC12 TB60-22.0-CC12	CC..120404	55.8 56.8 57.8 58.8 59.8	2
TB61-22.0-CC09 TB62-22.0-CC09 TB63-22.0-CC09 TB64-22.0-CC09 TB65-22.0-CC09	TB61-25.4-CC09 TB62-25.4-CC09 TB63-25.4-CC09 TB64-25.4-CC09 TB65-25.4-CC09	CC..09T304	TB61-25.4-CC12 TB62-25.4-CC12 TB63-25.4-CC12 TB64-25.4-CC12 TB65-25.4-CC12	CC..120404	60.8 61.8 62.8 63.8 64.8	2
TB66-22.0-CC09 TB67-22.0-CC09 TB68-22.0-CC09 TB69-22.0-CC09 TB70-22.0-CC09	TB66-25.4-CC09 TB67-25.4-CC09 TB68-25.4-CC09 TB69-25.4-CC09 TB70-25.4-CC09	CC..09T304	TB66-25.4-CC12 TB67-25.4-CC12 TB68-25.4-CC12 TB69-25.4-CC12 TB70-25.4-CC12	CC..120404	65.8 66.8 67.8 68.8 69.8	2
TB71-22.0-CC09 TB72-22.0-CC09 TB75-22.0-CC09	TB71-25.4-CC09 TB72-25.4-CC09 TB73-25.4-CC09 TB74-25.4-CC09 TB75-25.4-CC09	CC..09T304	TB71-25.4-CC12 TB72-25.4-CC12 TB73-25.4-CC12 TB74-25.4-CC12 TB75-25.4-CC12	CC..120404	70.8 71.8 72.8 73.8 74.8	2
	TB76-25.4-CC09 TB77-25.4-CC09 TB78-25.4-CC09 TB79-25.4-CC09 TB80-25.4-CC09	CC..09T304	TB76-25.4-CC12 TB77-25.4-CC12 TB78-25.4-CC12 TB79-25.4-CC12 TB80-25.4-CC12	CC..120404	75.8 76.8 77.8 78.8 79.8	2

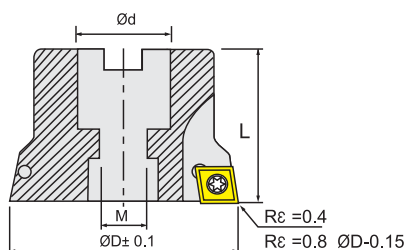
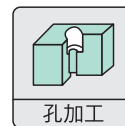
* ISO inserts recommended.

FIXED ROUGH BORING BARS



固定式粗搪刀

■ TB



(Unit: mm)

Model No. d = 25.4	Insert 	Model No. (d = 25.4)	Model No. (d = 31.75)	Insert 	D R ϵ =0.4	Teeth
TB81-25.4-CC09 TB82-25.4-CC09	CC..09T304	TB81-25.4-CC12 TB82-25.4-CC12 TB83-25.4-CC12 TB84-25.4-CC12 TB85-25.4-CC12 TB86-25.4-CC12		CC..120404	80.8 81.8 82.8 83.8 84.8 85.8	2
TB84-25.4-CC09 TB85-25.4-CC09 TB86-25.4-CC09						
TB88-25.4-CC09		TB87-25.4-CC12 TB88-25.4-CC12 TB89-25.4-CC12 TB90-25.4-CC12 TB91-25.4-CC12		CC..120404	86.8 87.8 88.8 89.8 90.8	2
TB90-25.4-CC09						
TB92-25.4-CC09		TB92-25.4-CC12 TB93-25.4-CC12 TB94-25.4-CC12 TB95-25.4-CC12 TB96-25.4-CC12		CC..120404	91.8 92.8 93.8 94.8 95.8	2
TB94-25.4-CC09 TB95-25.4-CC09 TB96-25.4-CC09	CC..09T304					
TB98-25.4-CC09		TB97-25.4-CC12 TB98-25.4-CC12 TB99-25.4-CC12 TB100-25.4-CC12	TB100-31.75-CC12	CC..120404	96.8 97.8 98.8 99.8	2
TB100-25.4-CC09						
TB104-25.4-CC09 TB105-25.4-CC09		TB101-25.4-CC12 TB102-25.4-CC12 TB105-25.4-CC12	TB101-31.75-CC12 TB102-31.75-CC12 TB103-31.75-CC12 TB104-31.75-CC12 TB105-31.75-CC12	CC..120404	100.8 101.8 102.8 103.8 104.8	2
	CC..09T304		TB106-31.75-CC12 TB107-31.75-CC12 TB108-31.75-CC12 TB109-31.75-CC12 TB110-31.75-CC12	CC..120404	105.8 106.8 107.8 108.8 109.8	2
TB112-25.4-CC09			TB111-31.75-CC12 TB112-31.75-CC12 TB113-31.75-CC12 TB114-31.75-CC12 TB115-31.75-CC12	CC..120404	110.8 111.8 112.8 113.8 114.8	2
TB115-25.4-CC09						
			TB116-31.75-CC12 TB117-31.75-CC12 TB118-31.75-CC12 TB119-31.75-CC12 TB120-31.75-CC12	CC..120404	115.8 116.8 117.8 118.8 119.8	2
TB120-25.4-CC09						

* ISO inserts recommended.

FIXED ROUGH BORING BARS



固定式粗搪刀

TB

(Unit: mm)

Model No. d = 25.4	Insert 	Model No. (d = 31.75)	Insert 	D R _e =0.4	Teeth
TB122-25.4-CC09	CC..09T304	TB121-31.75-CC12 TB122-31.75-CC12 TB123-31.75-CC12 TB124-31.75-CC12 TB125-31.75-CC12	CC..120404	120.8 121.8 122.8 123.8 124.8	2
		TB126-31.75-CC12 TB127-31.75-CC12 TB128-31.75-CC12 TB129-31.75-CC12 TB130-31.75-CC12	CC..120404	125.8 126.8 127.8 128.8 129.8	2
		TB131-31.75-CC12 TB132-31.75-CC12 TB133-31.75-CC12 TB134-31.75-CC12 TB135-31.75-CC12	CC..120404	130.8 131.8 132.8 133.8 134.8	2
		TB136-31.75-CC12 TB137-31.75-CC12 TB138-31.75-CC12 TB139-31.75-CC12 TB140-31.75-CC12	CC..120404	135.8 136.8 137.8 138.8 139.8	2
		TB141-31.75-CC12 TB142-31.75-CC12 TB143-31.75-CC12 TB144-31.75-CC12 TB145-31.75-CC12	CC..120404	140.8 141.8 142.8 143.8 144.8	2
		TB146-31.75-CC12 TB147-31.75-CC12 TB148-31.75-CC12 TB149-31.75-CC12 TB150-31.75-CC12	CC..120404	145.8 146.8 147.8 148.8 149.8	2
		TB151-31.75-CC12 TB155-31.75-CC12 TB156-31.75-CC12 TB160-31.75-CC12	CC..120404	150.8 154.8 155.8 159.8	2
		TB161-31.75-CC12 TB165-31.75-CC12 TB170-31.75-CC12	CC..120404	160.8 164.8 169.8	2
		TB175-31.75-CC12 TB180-31.75-CC12	CC..120404	174.8 179.8	2
		TB185-31.75-CC12 TB187-31.75-CC12 TB190-31.75-CC12	CC..120404	184.8 186.8 189.8	2
		TB195-31.75-CC12 TB200-31.75-CC12 TB201-31.75-CC12	CC..120404	194.8 199.8 200.8	2

* ISO inserts recommended.

(Unit: mm)

Insert	Screw 	Wrench 
CC..060204	MS2506A	ETF9
CC..09T304	MS4011A	ETF15
CC..120404	MS5011A	ETF20

* ISO inserts recommended.

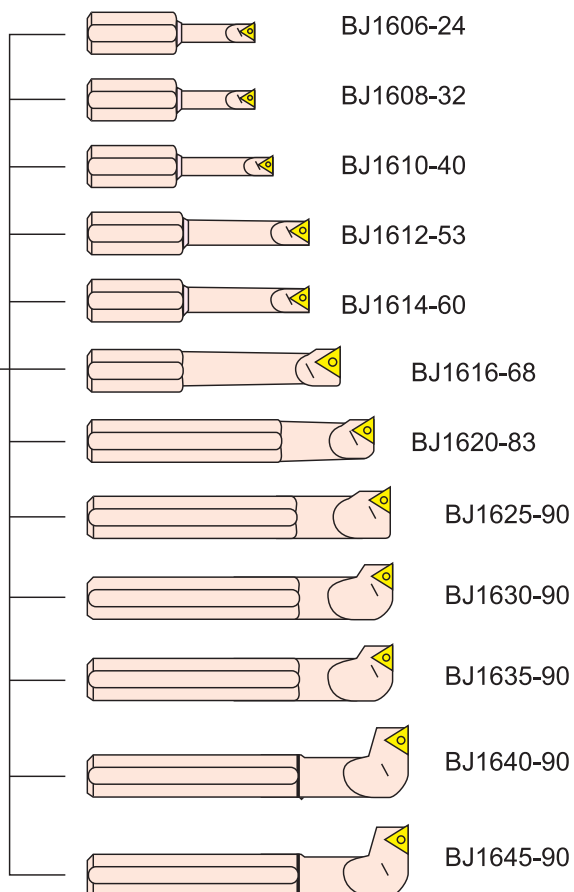
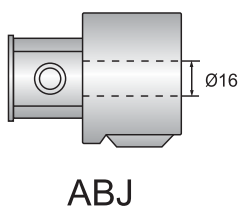
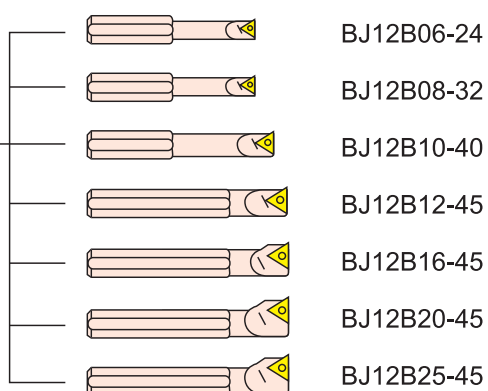
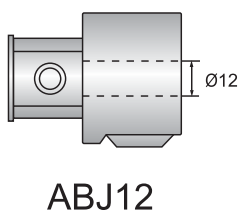
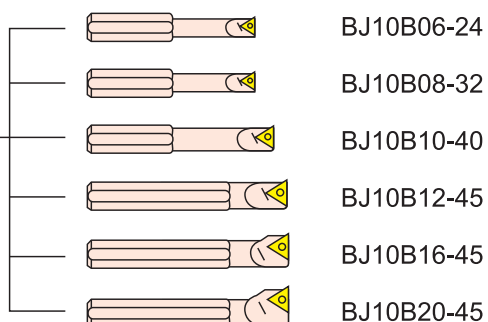
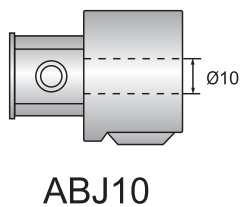
Dimensions	d	M	L
TB...-22.0-...	22.0	11	50
TB...-25.4-...	25.4	13	50
TB...-31.75-...	31.75	13	50

Micro Boring Head & Boring Bar



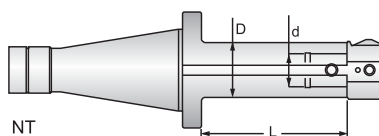
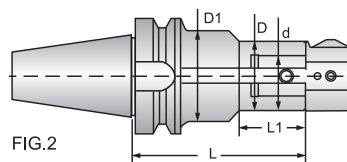
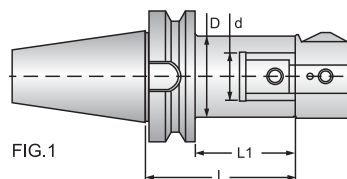
搪孔刀頭&搪孔刀

ABJ



ABJ

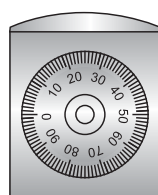
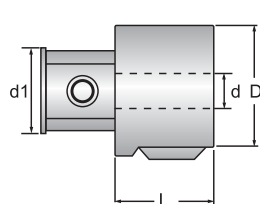
Model No.	FIG.	D	d	L	L1	Weight (kg)
BT40 ACK4-080/100	1	39	22	80/100	55/75	1.40/1.60
-125	1	39	22	125	100	1.80
-145/195	2	39	22	145/195	56	1.90/2.10
ACK4-080/100	1	50	28	80/100	55/75	1.60/2.00
-135	1	50	28	135	110	2.50
ACK4-055	1	64	36	55	30	1.40
BT50 ACK4-115/175	1	39	22	115/175	90/140	4.40/5.00
-195/235	2	39	22	195/235	80	5.20/5.60
ACK5-090/135	1	50	28	90/135	55/80	4.20/5.20
-195	1	50	28	195	160	6.10
ACK6-110/170	1	64	36	110/170	75/135	4.90/6.10
-215/255	1	64	36	215/255	180/220	7.50/9.00
-300/350	1	64	36	300/350	265/315	9.60/11.50



Model No.	D	d	L	L1	Weight (kg)
NT40 ACK4-080/100	39	22	80/100	5/8"-11 M16x2.0P	1.50/1.70
-125	39	22	125		1.90
ACK5-080/100	50	28	80/100		2.00/2.40
-135	50	28	135		2.80
ACK6-055	64	36	55		1.60
NT40 ACK4-115/175	39	22	115/175	1"-8 M24x3.0P	3.60/4.20
ACK5-090/135	50	28	90/135		3.90/4.50
-195	50	28	195		5.40
ACK6-110/170	64	36	110/170		4.40/5.70
-215/255	64	36	215/255		7.20/7.60

小徑微調塘孔頭

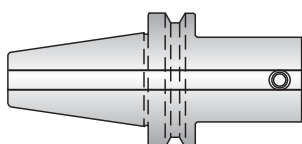
ABJ



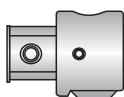
刻度盤
Adjust graduation

 Ø0.01mm

Model No.	Boring Range	d	d1	D	L	Holder / AdapterType	Weight (kg)
ABJ10	6~25	10	22	39	29	ACK4	0.4
ABJ12	6~32	12	28	50	36	ACK5	0.6
ABJ16	6~50	16	36	64	45	ACK6	1.2



ACK Holder



ABJ Boring Head



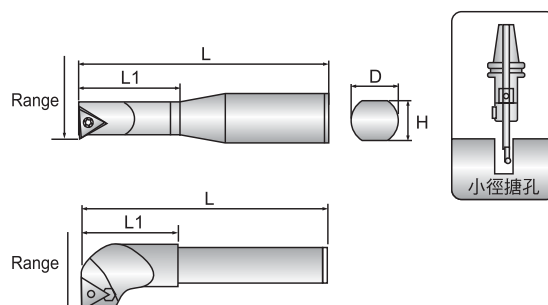
Boring Bar

- ABJ modular micro boring system includes
3 types boring range: 1. ABJ10:6 ~ 25mm
2. ABJ12:6 ~ 32mm 3. ABJ16:6 ~ 50mm
- ABJ could use 3 types boring bar: BJ10B,
BJ12B and BJ16
- ABJ boring bar must be ordered separately.
- ABJ微調搪孔範圍可分為三種 1. ABJ10:6 ~ 25mm
2. ABJ12:6 ~ 32mm 3. ABJ16:6 ~50mm
- ABJ搪刀分為三種規格： BJ10B，BJ12B以及BJ16.
- ABJ搪刀為另購品

Boring Bar / Boring Bar Set

搪刀 / 搪刀組

10B/ 12B /16



(Unit: mm)

Model No.	Dimensions							
	D	Range	L	L1	H			
BJ10B06-24	10	6~8	64	24	9	WBG0601..L	MS2003A	ETF6
BJ10B08-32		8~10	64	32		TBGT0601..L	MS2004A	
BJ10B10-40		10~12	72	40			MS2005A	
BJ10B12-45		12~16	77	22		TPGH0902..L	MS2506A	ETF9
BJ10B16-45		16~20	77	22				
BJ10B20-45		20~25	77	25				
BJ10B-6 PCS/SET	BJ10B06-24,BJ10B08-32,BJ10B10-40,BJ10B12-45,BJ10B16-45,BJ10B20-45							

(Unit: mm)

Model No.	Dimensions							
	D	Range	L	L1	H			
BJ12B06-24	12	6~8	64	24	11	WBG0601..L	MS2003A	ETF6
BJ12B08-32		8~10	64	32		TBGT0601..L	MS2004A	
BJ12B10-40		10~12	72	40			MS2505A	
BJ12B12-45		12~16	77	45		TPGH0902..L	MS2506A	ETF9
BJ12B16-45		16~20	77	22				
BJ12B20-45		20~25	77	25				
BJ12B25-45		25~32	77	25		TPGH1103..L	MS3008A	ETF9
BJ12B-7 PCS/SET		BJ12B06-24, BJ12B08-32, BJ12B10-40, BJ12B12-45, BJ12B16-45, BJ12B20-45, BJ12B25-45						

(Unit: mm)

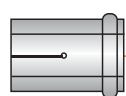
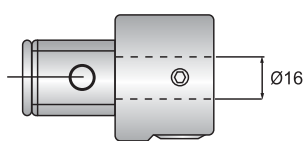
Model No.	Dimensions							
	D	Range	L	L1	H			
BJ1606-24	16	6~8	68	24	15	WBG0601..L	MS2003A	ETF6
BJ1608-32		8~10	74	32		TBGT0601..L	MS2004A	ETF6
BJ1610-40		10~12	75	40			MS2005A	
BJ1612-53		12~16	85	53		TPGH0902..L	MS2506A	ETF9
BJ1614-60		14~16	103	60				
BJ1616-68		16~20	100	68				
BJ1620-83		20~25	115	35		TPGH1103..L	MS3008A	ETF9
BJ1625-90		25~30	122	35				
BJ1630-90		30~40	122	40				
BJ1635-90		35~40	122	40				
BJ1640-90		40~50	122	40				
BJ1645-90		45~50	122	40				
BJ16-8 PCS/SET		BJ1608-32.BJ1610-40.BJ1612-53.BJ1616-68.BJ1620-83.BJ1625-90.BJ1630-90.BJ1640-90						

- The insert must be ordered separately.
- The boring bar that could be contact with the other size boring head, collet and carbide holder.
- 刀片為另購品
- 搪孔刀桿可另外選購搪孔頭、套筒及鎢鋼柄搪刀桿使用

BORING HEAD & PART



搪孔刀頭&配件



EC1608

SC08-M5-115



BE09A, Ø9-Ø10.5



BE10.5A, Ø10.5-Ø12



BE18A, Ø18-Ø20



BE20A, Ø20-Ø22



BE22A, Ø22-Ø24



BE24A, Ø24-Ø26



BE26A, Ø26-Ø28



BE28A, Ø28-Ø30



BE30A, Ø30-Ø32



BE32A, Ø32-Ø34



BE34A, Ø34-Ø36



BE36A, Ø36-Ø38



BE38A, Ø38-Ø40



BE40A, Ø40-Ø42



BE42A, Ø42-Ø44



BE44A, Ø44-Ø46



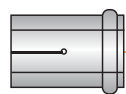
BE46A, Ø46-Ø48



BE48A, Ø48-Ø50



BE50A, Ø50-Ø52



EC1610

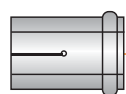
SC10-M6-115

SC10-M6-135

SC10-M6-160



BE12A, Ø12-Ø14



EC1612

SC12-M6-135

SC12-M6-165



BE14A, Ø14-Ø16



BE16A, Ø16-Ø18



SC16-M10-105

SC16-M10-140

SC16-M10-180

BORING HEAD & PART

搪孔刀頭&配件

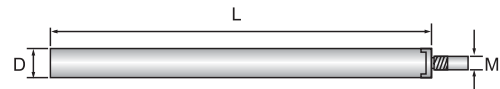
Collet

(Unit: mm)

Model No.	Dimensions		Carbide Holder
	d	D	
EC1608	8	16	SC08-M05...
EC1610	10	16	SC10-M06...
EC1612	12	16	SC12-M06...



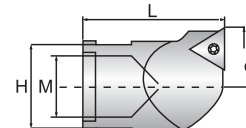
Garbide Holder



(Unit: mm)

Model No.	Dimensions			Boring Head	Carbide
	D	L	M		
SC08-M05-115	8	115	M05	BE09A, BE10.5A	EC1608
SC10-M06-115	10	115	M06	BE12A	EC1610
SC10-M06-135		135			
SC10-M06-160		160			
SC12-M06-135	12	135	M06	BE14A, BE16A	EC1612
SC12-M06-165		165			
SC16-M10-105	16	105	M10	BE18A~BE50A	-
SC16-M10-140		140			
SC16-M10-180		180			

Boring Head



(Unit: mm)

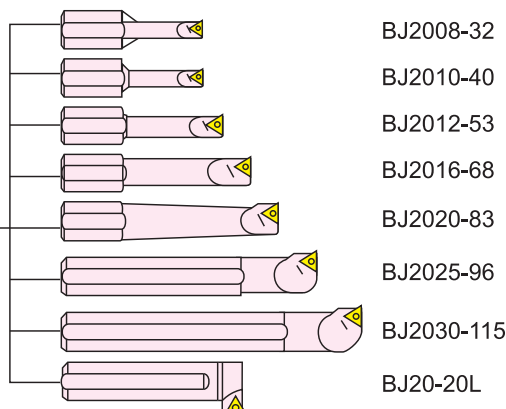
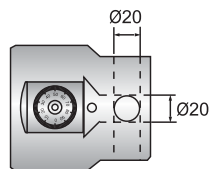
Model No.	Dimensions					Insert	Screw	Wrench
	d	L	H	M	Range			
BE09A	9	18	7	M05	9~10.5	TP..0802..	MS2205A	
BE10.5A	10.5				10.5~12			
BE12A	12	23	8	M06	12~14	TP..0802..	MS2206A	ETF7
BE14A	14	23	10	M06	14~16			
BE16A	16		10		16~18			
BE18A	18	27	14	M10	18~20			
BR20A	20				20~22			
BE22A	22				22~24			
BE24A	24				24~26			
BE26A	26				26~28			
BE28A	28				28~30			
BE30A	30				30~32			
BE32A	32				32~34			
BE34A	34				34~36			
BE36A	36				36~38			
BE38A	38				38~40			
BE40A	40				40~42			
BE42A	42				42~44			
BE44A	44				44~46			
BE46A	46				46~48			
BE48A	48				48~50			
BE50A	50				50~52			

Micro Boring Head & Boring Bar



搪孔刀頭&搪孔刀

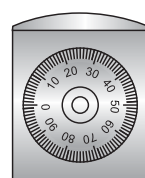
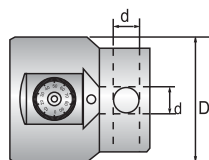
NBH2084



Micro Boring Head

微調搪孔頭

NBH2084



刻度盤
Adjust graduation

0.01mm

(Unit: mm)

Model No.	Boring Range	d	D
NBH2084	8~280	20	84

- NBH2084 micro boring system which boring range is from 8 ~ 280mm.
- NBH2084 微調搪孔系統：搪孔範圍8 ~280mm

Boring Bar Set

搪刀組

BJ20



(Unit: mm)

Model No.	Boring Range (Min. ~ Max.)	Dimension	Insert	Screw	Wrench
BJ2008-32	8~11	32	TBGT0601..L	MS2004A	ETF6
BJ2010-40	10~13	40		MS2005A	
BJ2012-53	12~17	53	TPGH0902..L	MS2506A	ETF9
BJ2016-68	16~21	68			
BJ2020-83	20~130	83	TPGH1103..L	MS3008A	ETF9
BJ2025-96	25~135	96			
BJ2030-115	30~140	115			
BJ20-20L	120~280	83 + BT L			

- Insert must be ordered separately.
- 刀片為另購品



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