

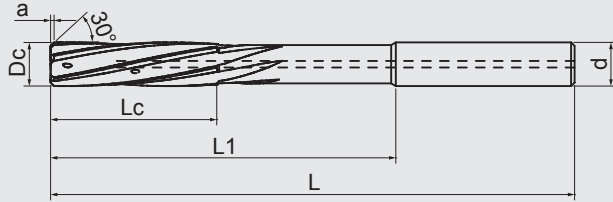
R212TX 超微粒鎢鋼塗層NC機械鉋刀(高硬度·難削材用·內冷孔)

NC Machine Reamers (High Hardness · Difficult To Cut Material · Coolant Hole)



Designed with left helix and right cutting flutes with unequal flute design.
Downward chip evacuation.
Application for reaming different steels below 62HRC, stainless steel, High temp alloys, cast iron, copper...and etc.
Extremely high reaming life with coolant holes for blade cooling.
Nano multilayer coating AlTiSiN with superior wear resistance is suitable for high hardness materials reaming.
Accuracy tolerance: H7 (m5)
0/+0.004mm

左螺旋右切刃設計，不等分割刃設計。
排屑方向往下。
適用切削於62HRC以下各種鋼鐵、不鏽鋼、高溫合金及鑄鐵、銅...等材料鉋孔應用。
具有內冷孔，刃部冷卻極高鉋孔壽命。
搭配AlTiSiN奈米多層膜塗層，具有極佳的耐磨耗性，適合高硬度鉋孔加工用。
刃徑精度公差：H7 (m5)
0/+0.004mm



VHM Carbide **AlTiSiN** **Through Hole** **Blind Hole**



- P**
- H**
- M**
- K**

孔徑配合尺寸容許範圍與鉋刀直徑公差範圍規範

尺寸區分(mm)		鉋刀直徑公差(mm)		孔的公差(mm)		研磨鉋刀直徑公差(mm)		
以上	以下	m5(JIS)	H7(DIN 1420)	H7	H8	下限	中間值	上限
-	3	+0.002/+0.006	+0.004/+0.008	0/+0.010	0/+0.014	+0.004	+0.005	+0.006
3	6	+0.004/+0.009	+0.005/+0.010	0/+0.012	0/+0.018	+0.005	+0.007	+0.009
6	10	+0.006/+0.012	+0.006/+0.012	0/+0.015	0/+0.022	+0.007	+0.009	+0.011
10	18	+0.007/+0.015	+0.008/+0.015	0/+0.018	0/+0.027	+0.009	+0.011	+0.013
18	30	+0.008/+0.017	+0.009/+0.017	0/+0.021	0/+0.033	+0.011	+0.013	+0.015

Standard Length

Code No. R212TX-Dc

Dc mm	Tolerance mm	Lc mm	L1 mm	L mm	a mm	d h5	Z teeth	R212TX AlTiSiN		
2.97	0/+0.004	20	42	80	0.4	4	4	●		
2.98	0/+0.004	20	42	80	0.4	4	4	●		
2.99	0/+0.004	20	42	80	0.4	4	4	●		
3	H7	20	42	80	0.4	4	4	●		
3.01	0/+0.004	20	42	80	0.4	4	4	●		
3.02	0/+0.004	20	42	80	0.4	4	4	●		
3.03	0/+0.004	20	42	80	0.4	4	4	●		
3.1	H7	20	42	80	0.4	4	4	○		
3.2	H7	20	42	80	0.4	4	4	○		
3.3	H7	20	42	80	0.4	4	4	○		
3.4	H7	20	42	80	0.4	4	4	○		
3.5	H7	20	42	80	0.4	4	4	●		
3.6	H7	20	42	80	0.5	4	4	○		
3.7	H7	20	42	80	0.5	4	4	○		
3.8	H7	20	42	80	0.5	4	4	○		
3.9	H7	20	42	80	0.5	4	4	○		
3.97	0/+0.004	20	42	80	0.5	4	4	●		
3.98	0/+0.004	20	42	80	0.5	4	4	●		
3.99	0/+0.004	20	42	80	0.5	4	4	●		
4	H7	20	42	80	0.5	4	4	●		
4.01	0/+0.004	20	42	80	0.5	4	4	●		
4.02	0/+0.004	20	42	80	0.5	4	4	●		
4.03	0/+0.004	20	42	80	0.5	4	4	●		
4.1	H7	20	42	80	0.5	6	4	○		
4.2	H7	20	42	80	0.5	6	4	○		
4.3	H7	20	42	80	0.5	6	4	○		
4.4	H7	20	42	80	0.5	6	4	○		
4.5	H7	20	42	80	0.5	6	4	●		
4.6	H7	20	42	80	0.6	6	4	○		
4.7	H7	20	42	80	0.6	6	4	○		
4.8	H7	20	42	80	0.6	6	4	○		
4.9	H7	20	42	80	0.6	6	4	○		
4.97	0/+0.004	20	42	80	0.6	6	4	●		
4.98	0/+0.004	20	42	80	0.6	6	4	●		

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鑽頭

鉋刀

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Dc mm	Tolerance mm	Lc mm	L1 mm	L mm	a mm	d h5	Z teeth	R212TX AlTiSiN		
4.99	0/+0.004	20	42	80	0.6	6	4	●		
5	H7	20	42	80	0.6	6	4	●		
5.01	0/+0.004	20	42	80	0.6	6	4	●		
5.02	0/+0.004	20	42	80	0.6	6	4	●		
5.03	0/+0.004	20	42	80	0.6	6	4	●		
5.1	H7	25	52	100	0.6	6	6	○		
5.2	H7	25	52	100	0.6	6	6	○		
5.3	H7	25	52	100	0.6	6	6	○		
5.4	H7	25	52	100	0.6	6	6	○		
5.5	H7	25	52	100	0.6	6	6	●		
5.6	H7	25	52	100	0.6	6	6	○		
5.7	H7	25	52	100	0.6	6	6	○		
5.8	H7	25	52	100	0.6	6	6	○		
5.9	H7	25	52	100	0.6	6	6	○		
5.97	0/+0.004	25	52	100	0.6	6	6	●		
5.98	0/+0.004	25	52	100	0.6	6	6	●		
5.99	0/+0.004	25	52	100	0.6	6	6	●		
6	H7	25	52	100	0.6	6	6	●		
6.01	0/+0.004	25	52	100	0.6	6	6	●		
6.02	0/+0.004	25	52	100	0.6	6	6	●		
6.03	0/+0.004	25	52	100	0.6	6	6	●		
6.1	H7	25	52	100	0.8	8	6	○		
6.2	H7	25	52	100	0.8	8	6	○		
6.3	H7	25	52	100	0.8	8	6	○		
6.4	H7	25	52	100	0.8	8	6	○		
6.5	H7	25	52	100	0.8	8	6	●		
6.6	H7	25	52	100	0.8	8	6	○		
6.7	H7	25	52	100	0.8	8	6	○		
6.8	H7	25	52	100	0.8	8	6	○		
6.9	H7	25	52	100	0.8	8	6	○		
7	H7	25	52	100	0.8	8	6	●		
7.1	H7	25	52	100	0.8	8	6	○		
7.2	H7	25	52	100	0.8	8	6	○		
7.3	H7	25	52	100	0.8	8	6	○		
7.4	H7	25	52	100	0.8	8	6	○		
7.5	H7	25	52	100	0.8	8	6	●		
7.6	H7	25	52	100	0.8	8	6	○		
7.7	H7	25	52	100	0.8	8	6	○		
7.8	H7	25	52	100	0.8	8	6	○		
7.9	H7	25	52	100	0.8	8	6	○		
7.97	0/+0.004	25	52	100	0.8	8	6	●		
7.98	0/+0.004	25	52	100	0.8	8	6	●		
7.99	0/+0.004	25	52	100	0.8	8	6	●		
8	H7	25	52	100	0.8	8	6	●		
8.01	0/+0.004	25	52	100	0.8	8	6	●		
8.02	0/+0.004	25	52	100	0.8	8	6	●		
8.03	0/+0.004	25	52	100	0.8	8	6	●		
8.1	H7	30	62	120	1	10	6	○		
8.2	H7	30	62	120	1	10	6	○		
8.3	H7	30	62	120	1	10	6	○		
8.4	H7	30	62	120	1	10	6	○		
8.5	H7	30	62	120	1	10	6	●		
8.6	H7	30	62	120	1	10	6	○		
8.7	H7	30	62	120	1	10	6	○		
8.8	H7	30	62	120	1	10	6	○		
8.9	H7	30	62	120	1	10	6	○		
9	H7	30	62	120	1	10	6	●		
9.1	H7	30	62	120	1	10	6	○		
9.2	H7	30	62	120	1	10	6	○		
9.3	H7	30	62	120	1	10	6	○		
9.4	H7	30	62	120	1	10	6	○		
9.5	H7	30	62	120	1	10	6	●		
9.6	H7	30	62	120	1	10	6	○		
9.7	H7	30	62	120	1	10	6	○		

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9.8	H7	30	62	120	1	10	6	○		
9.9	H7	30	62	120	1	10	6	○		
9.97	0/+0.004	30	62	120	1	10	6	●		
9.98	0/+0.004	30	62	120	1	10	6	●		
9.99	0/+0.004	30	62	120	1	10	6	●		
10	H7	30	62	120	1	10	6	●		
10.01	0/+0.004	30	62	120	1	10	6	●		
10.02	0/+0.004	30	62	120	1	10	6	●		
10.03	0/+0.004	30	62	120	1	10	6	●		
10.1	H7	35	72	140	1.2	12	6	○		
10.2	H7	35	72	140	1.2	12	6	○		
10.3	H7	35	72	140	1.2	12	6	○		
10.4	H7	35	72	140	1.2	12	6	○		
10.5	H7	35	72	140	1.2	12	6	○		
10.6	H7	35	72	140	1.2	12	6	○		
10.7	H7	35	72	140	1.2	12	6	○		
10.8	H7	35	72	140	1.2	12	6	○		
10.9	H7	35	72	140	1.2	12	6	○		
11	H7	35	72	140	1.2	12	6	●		
11.1	H7	35	72	140	1.2	12	6	○		
11.2	H7	35	72	140	1.2	12	6	○		
11.3	H7	35	72	140	1.2	12	6	○		
11.4	H7	35	72	140	1.2	12	6	○		
11.5	H7	35	72	140	1.2	12	6	○		
11.6	H7	35	72	140	1.2	12	6	○		
11.7	H7	35	72	140	1.2	12	6	○		
11.8	H7	35	72	140	1.2	12	6	○		
11.9	H7	35	72	140	1.2	12	6	○		
11.97	0/+0.004	35	72	140	1.2	12	6	●		
11.98	0/+0.004	35	72	140	1.2	12	6	●		
11.99	0/+0.004	35	72	140	1.2	12	6	●		
12	H7	35	72	140	1.2	12	6	●		
12.01	0/+0.004	35	72	140	1.2	12	6	●		
12.02	0/+0.004	35	72	140	1.2	12	6	●		
12.03	0/+0.004	35	72	140	1.2	12	6	●		

○ 非庫存品 單一尺寸10支以上可訂購
 切削條件參考表請參照P31頁

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鑽頭

鉸刀

技術資料