

NVドリル(ハーフサイズ)

加工穴精度: IT7級

φ1~16あり

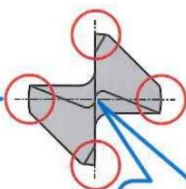
0.01mmトビ
新サイズ追加



特長

- ①下穴・センターモミ不要、一発加工で鏡面仕上げ可能
- ②φ1~φ16まで0.1mmトビの豊富なラインアップ
(φ2~0.01mmトビサイズもあり)

4点ガイドパット
セルフガイド
面粗度・面積度UP



切れ味に優れる



先端部詳細図

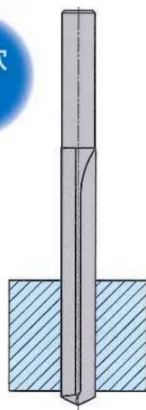
形状概要

ニチアロイ独自刃型NVドリル

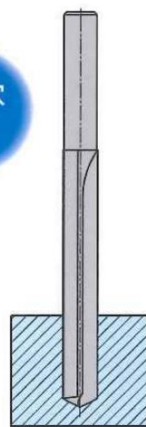
- ①ドリル中心部までシャープな切れ味を有する
- ②リップ部は強度を重点に設計
- ③ガイドパット側のマージン幅が広い設定

加工事例

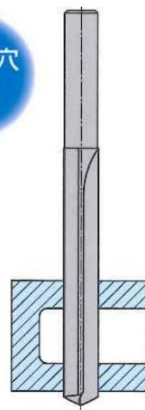
貫通穴加工



止り穴加工



クロス穴加工



S-NVD(従来品)



S-NVDH



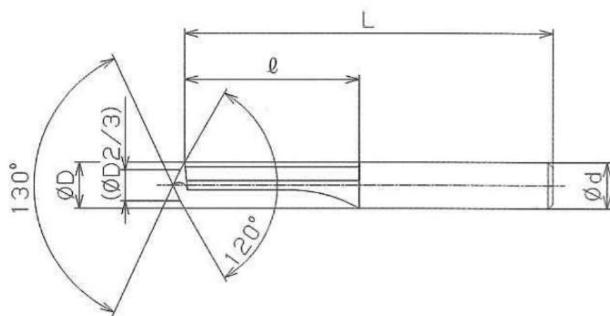
溝長50%短かく設定!
(φ2.5までは20%)

全長30%コンパクトに!

工具突出し量低減

たわみ量低減

工具破損の低減
真直性の向上



炭素鋼・合金鋼		アルミニウム合金	◎	銅合金	△
鋳鉄	◎	樹脂		真鍮	△
ダクタイル鋳鉄	○	ステンレス			

推奨条件

被削材	切削速度 V (m/min)	送り f (mm/rev)
アルミ	50 ~ 150	0.05 ~ 0.15
鋳鉄	20 ~ 70	0.05 ~ 0.1

●：在庫品 ★：特定代理店在庫品 ○：受注生産品

単位：mm

在庫	φ D		ℓ	L	φ d	
●	1 ~ 1.9 (0.1 トビ)	+0.003 0	8	30	シャンク同径 (φ D= φ d)	+0.003 0
★	1.95 ~ 1.99(0.01 トビ)		8	30		
●	2		10	40		
★	2.01 ~ 2.09(0.01 トビ)		10	40		
●	2.1		10	40		
★	2.11 ~ 2.19 (0.01 トビ)		10	40		
●	2.2		10	40		
★	2.21 ~ 2.29 (0.01 トビ)		10	40		
●	2.3		10	40		
★	2.31 ~ 2.39 (0.01 トビ)		10	40		
●	2.4		10	40		
★	2.41 ~ 2.49 (0.01 トビ)		10	40		
●	2.5		10	40		
★	2.51 ~ 2.59 (0.01 トビ)		10	40		
●	2.6		10	50		
★	2.61 ~ 2.69 (0.01 トビ)		10	50		
●	2.7		10	50		
★	2.71 ~ 2.79 (0.01 トビ)		10	50		
●	2.8		10	50		
★	2.81 ~ 2.89 (0.01 トビ)		10	50		
●	2.9		10	50		
★	2.91 ~ 2.98 (0.01 トビ)	25	55			
★	2.99	+0.007/+0.003	25	55	3	0 -0.010
●	3 ~ 3.05 (0.01 トビ)	+0.007/+0.003	25	55	3	
★	3.06 ~ 3.09 (0.01 トビ)	+0.005/0	25	55	3	
●	3.1	+0.007/+0.003	25	55	3	
★	3.11 ~ 3.19 (0.01 トビ)	+0.005/0	25	55	3	
●	3.2	+0.007/+0.003	25	55	3	
★	3.21 ~ 3.29 (0.01 トビ)	+0.005/0	25	55	3	
●	3.3	+0.007/+0.003	25	55	3	
★	3.31 ~ 3.39 (0.01 トビ)	+0.005/0	25	55	3	
●	3.4	+0.007/+0.003	25	55	3	
★	3.41 ~ 3.49 (0.01 トビ)	+0.005/0	25	55	3	
●	3.5	+0.007/+0.003	25	55	3	
★	3.51 ~ 3.59 (0.01 トビ)	+0.005/0	25	55	3	
●	3.6	+0.007/+0.003	25	55	4	0 -0.012
★	3.61 ~ 3.69 (0.01 トビ)	+0.005/0	25	55	4	
●	3.7	+0.007/+0.003	25	55	4	
★	3.71 ~ 3.79 (0.01 トビ)	+0.005/0	25	55	4	
●	3.8	+0.007/+0.003	25	55	4	
★	3.81 ~ 3.89 (0.01 トビ)	+0.005/0	25	55	4	
●	3.9	+0.007/+0.003	25	55	4	
★	3.91 ~ 3.94 (0.01 トビ)	+0.005/0	25	55	4	
★	3.95 ~ 3.99 (0.01 トビ)	+0.007/+0.003	25	55	4	
●	4 ~ 4.05 (0.01 トビ)	+0.007/+0.003	25	55	4	
★	4.06 ~ 4.09 (0.01 トビ)	+0.005/0	25	55	4	
●	4.1	+0.008/+0.004	25	55	4	
★	4.11 ~ 4.19 (0.01 トビ)	+0.005/0	25	55	4	
●	4.2	+0.008/+0.004	25	55	4	
★	4.21 ~ 4.29 (0.01 トビ)	+0.005/0	25	55	4	
●	4.3	+0.008/+0.004	25	55	4	
★	4.31 ~ 4.39 (0.01 トビ)	+0.005/0	25	55	4	
●	4.4	+0.008/+0.004	25	55	4	
★	4.41 ~ 4.49 (0.01 トビ)	+0.005/0	25	55	4	

●：在庫品 ★：特定代理店在庫品 ○：受注生産品

単位：mm

在庫	φD		ℓ	L	φd	
●	4.5	+0.008/+0.004	25	55	4	0 -0.012
★	4.51 ~ 4.59 (0.01 トビ)	+0.005/0	25	55	4	
●	4.6	+0.008/+0.004	25	55	5	
★	4.61 ~ 4.69 (0.01 トビ)	+0.005/0	25	55	5	
●	4.7	+0.008/+0.004	25	55	5	
★	4.71 ~ 4.79 (0.01 トビ)	+0.005/0	25	55	5	
●	4.8	+0.008/+0.004	25	55	5	
★	4.81 ~ 4.89 (0.01 トビ)	+0.005/0	25	55	5	
●	4.9	+0.008/+0.004	25	55	5	
★	4.91 ~ 4.94 (0.01 トビ)	+0.005/0	25	55	5	
★	4.95 ~ 4.99 (0.01 トビ)	+0.008/+0.004	25	55	5	
●	5 ~ 5.05 (0.01 トビ)	+0.008/+0.004	25	55	5	
★	5.06 ~ 5.09 (0.01 トビ)	+0.005/0	25	55	5	
●	5.1	+0.008/+0.004	25	55	5	
★	5.11 ~ 5.19 (0.01 トビ)	+0.005/0	25	55	5	
●	5.2	+0.008/+0.004	25	55	5	
★	5.21 ~ 5.29 (0.01 トビ)	+0.005/0	25	55	5	
●	5.3	+0.008/+0.004	25	55	5	
★	5.31 ~ 5.39 (0.01 トビ)	+0.005/0	25	55	5	
●	5.4	+0.008/+0.004	25	55	5	
★	5.41 ~ 5.49 (0.01 トビ)	+0.005/0	25	55	5	
●	5.5	+0.008/+0.004	25	55	5	
★	5.51 ~ 5.59 (0.01 トビ)	+0.005/0	25	55	5	
●	5.6	+0.008/+0.004	30	70	6	
★	5.61 ~ 5.69 (0.01 トビ)	+0.005/0	30	70	6	
●	5.7	+0.008/+0.004	30	70	6	
★	5.71 ~ 5.79 (0.01 トビ)	+0.005/0	30	70	6	
●	5.8	+0.008/+0.004	30	70	6	
★	5.81 ~ 5.89 (0.01 トビ)	+0.005/0	30	70	6	
●	5.9	+0.008/+0.004	30	70	6	
★	5.91 ~ 5.94 (0.01 トビ)	+0.005/0	30	70	6	
★	5.95 ~ 5.99 (0.01 トビ)	+0.008/+0.004	30	70	6	
●	6 ~ 6.05 (0.01 トビ)	+0.008/+0.004	30	70	6	
★	6.06 ~ 6.09 (0.01 トビ)	+0.005/0	30	70	6	
●	6.1	+0.010/+0.005	30	70	6	
★	6.11 ~ 6.19 (0.01 トビ)	+0.005/0	30	70	6	
●	6.2	+0.010/+0.005	30	70	6	
★	6.21 ~ 6.29 (0.01 トビ)	+0.005/0	30	70	6	
●	6.3	+0.010/+0.005	30	70	6	
★	6.31 ~ 6.39 (0.01 トビ)	+0.005/0	30	70	6	
●	6.4	+0.010/+0.005	30	70	6	
★	6.41 ~ 6.49 (0.01 トビ)	+0.005/0	30	70	6	
●	6.5	+0.010/+0.005	30	70	6	0 -0.015
★	6.51 ~ 6.59 (0.01 トビ)	+0.005/0	30	70	6	
●	6.6	+0.010/+0.005	30	70	7	
★	6.61 ~ 6.69 (0.01 トビ)	+0.005/0	30	70	7	
●	6.7	+0.010/+0.005	30	70	7	
★	6.71 ~ 6.79 (0.01 トビ)	+0.005/0	30	70	7	
●	6.8	+0.010/+0.005	30	70	7	
★	6.81 ~ 6.89 (0.01 トビ)	+0.005/0	30	70	7	
●	6.9	+0.010/+0.005	30	70	7	
★	6.91 ~ 6.94 (0.01 トビ)	+0.005/0	30	70	7	
★	6.95 ~ 6.99 (0.01 トビ)	+0.010/+0.005	30	70	7	
●	7 ~ 7.05 (0.01 トビ)	+0.010/+0.005	30	70	7	
★	7.06 ~ 7.09 (0.01 トビ)	+0.005/0	30	70	7	
●	7.1	+0.010/+0.005	30	70	7	
★	7.11 ~ 7.19 (0.01 トビ)	+0.005/0	30	70	7	
●	7.2	+0.010/+0.005	30	70	7	
★	7.21 ~ 7.29 (0.01 トビ)	+0.005/0	30	70	7	
●	7.3	+0.010/+0.005	30	70	7	
★	7.31 ~ 7.39 (0.01 トビ)	+0.005/0	30	70	7	
●	7.4	+0.010/+0.005	30	70	7	
★	7.41 ~ 7.49 (0.01 トビ)	+0.005/0	30	70	7	
●	7.5	+0.010/+0.005	30	70	7	
★	7.51 ~ 7.59 (0.01 トビ)	+0.005/0	30	70	7	
●	7.6	+0.010/+0.005	30	70	8	
★	7.61 ~ 7.69 (0.01 トビ)	+0.005/0	30	70	8	
●	7.7	+0.010/+0.005	30	70	8	

●：在庫品 ★：特定代理店在庫品 ○：受注生産品

単位：mm

在庫	φD		φ	L	φd
★	7.71 ~ 7.79 (0.01 トビ)	+0.005/0	30	70	8
●	7.8	+0.010/+0.005	30	70	8
★	7.81 ~ 7.89 (0.01 トビ)	+0.005/0	30	70	8
●	7.9	+0.010/+0.005	30	70	8
★	7.91 ~ 7.94 (0.01 トビ)	+0.005/0	30	70	8
★	7.95 ~ 7.99 (0.01 トビ)	+0.010/+0.005	30	70	8
●	8 ~ 8.05 (0.01 トビ)	+0.010/+0.005	30	70	8
★	8.06 ~ 8.09 (0.01 トビ)	+0.005/0	30	70	8
●	8.1	+0.010/+0.005	30	80	8
★	8.11 ~ 8.19 (0.01 トビ)	+0.005/0	30	80	8
●	8.2	+0.010/+0.005	30	80	8
★	8.21 ~ 8.29 (0.01 トビ)	+0.005/0	30	80	8
●	8.3	+0.010/+0.005	30	80	8
★	8.31 ~ 8.39 (0.01 トビ)	+0.005/0	30	80	8
●	8.4	+0.010/+0.005	30	80	8
★	8.41 ~ 8.49 (0.01 トビ)	+0.005/0	30	80	8
●	8.5	+0.010/+0.005	30	80	8
★	8.51 ~ 8.59 (0.01 トビ)	+0.005/0	30	80	8
●	8.6	+0.010/+0.005	38	80	9
★	8.61 ~ 8.69 (0.01 トビ)	+0.005/0	38	80	9
●	8.7	+0.010/+0.005	38	80	9
★	8.71 ~ 8.79 (0.01 トビ)	+0.005/0	38	80	9
●	8.8	+0.010/+0.005	38	80	9
★	8.81 ~ 8.89 (0.01 トビ)	+0.005/0	38	80	9
●	8.9	+0.010/+0.005	38	80	9
★	8.91 ~ 8.94 (0.01 トビ)	+0.005/0	38	80	9
★	8.95 ~ 8.99 (0.01 トビ)	+0.010/+0.005	38	80	9
●	9 ~ 9.05 (0.01 トビ)	+0.010/+0.005	38	80	9
●	9.1 ~ 9.5 (0.1 トビ)	+0.010/+0.005	38	80	9
●	9.6 ~ 9.9 (0.1 トビ)	+0.010/+0.005	38	80	10
★	9.95 ~ 9.99 (0.01 トビ)	+0.010/+0.005	38	80	10
●	10 ~ 10.05 (0.01 トビ)	+0.010/+0.005	38	80	10
●	10.1 ~ 10.5 (0.1 トビ)		38	80	10
●	10.6 ~ 10.9 (0.1 トビ)		38	80	11
★	10.95 ~ 10.99 (0.01 トビ)		38	80	11
●	11		38	80	11
★	11.01 ~ 11.05 (0.01 トビ)		38	80	11
●	11.1 ~ 11.5 (0.1 トビ)		38	80	11
●	11.6 ~ 11.9 (0.1 トビ)		45	95	12
★	11.95 ~ 11.99 (0.01 トビ)		45	95	12
●	12		45	95	12
★	12.01 ~ 12.05 (0.01 トビ)		45	95	12
●	12.1 ~ 12.5 (0.1 トビ)		45	95	12
●	12.6 ~ 13 (0.1 トビ)	+0.012	45	95	13
★	13.1 ~ 13.4 (0.1 トビ)	+0.006	45	100	13
●	13.5		45	100	14
★	13.6 ~ 13.9 (0.1 トビ)		45	100	14
●	14		45	100	14
★	14.1 ~ 14.4 (0.1 トビ)		45	100	16
●	14.5		45	100	16
★	14.6 ~ 14.9 (0.1 トビ)		45	100	16
●	15		45	100	16
★	15.1 ~ 15.4 (0.1 トビ)		45	100	16
●	15.5		45	100	16
★	15.6 ~ 15.9 (0.1 トビ)		45	100	16
●	16		45	100	16

0
-0.015

0
-0.018



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