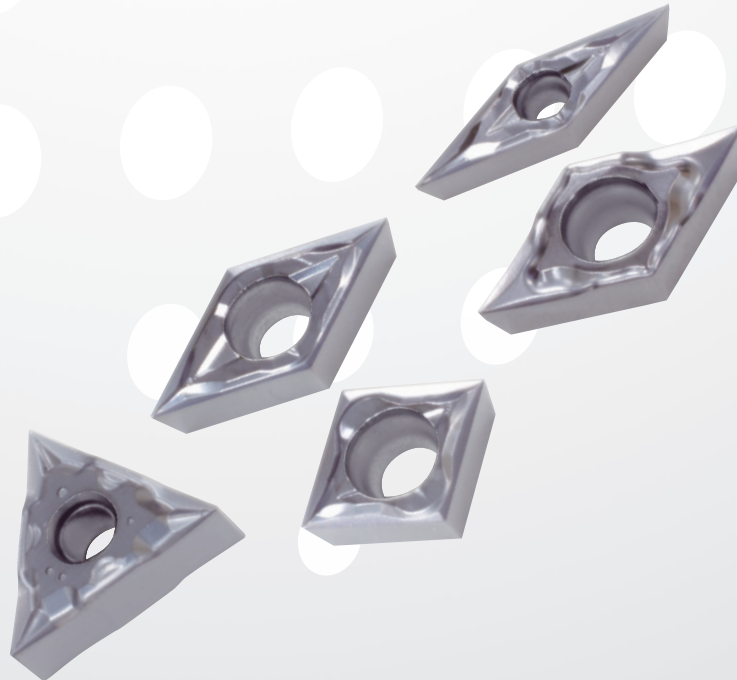


NTK650

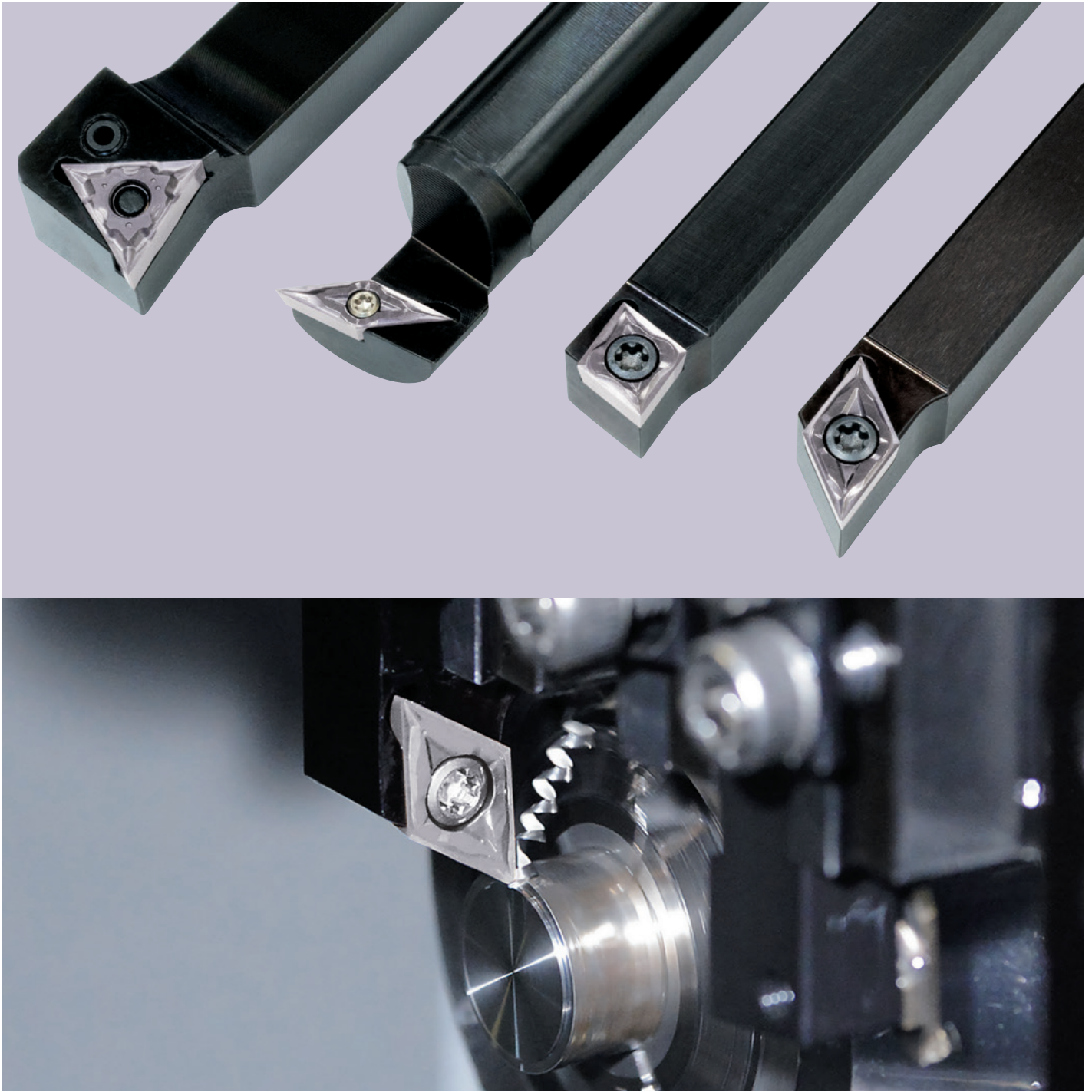
For small diameter parts | Materials for processing Ni-based alloys



Class S "dedicated" material, finally born



Specialized for
Ni base alloys



For more stable machining of small-diameter Ni based components

Common challenges in Ni-based alloy Machining: Edge damage and wear from welding.
Discover stable machining with NTK's Innovative Material, 650.

New HiPIMS PVD grade

NTK650

For small diameter parts | Materials for processing Ni-based alloys

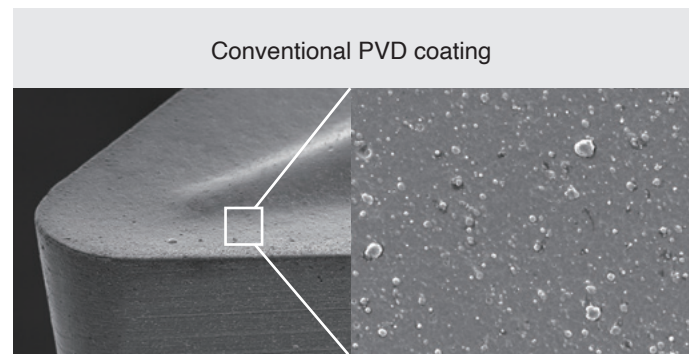
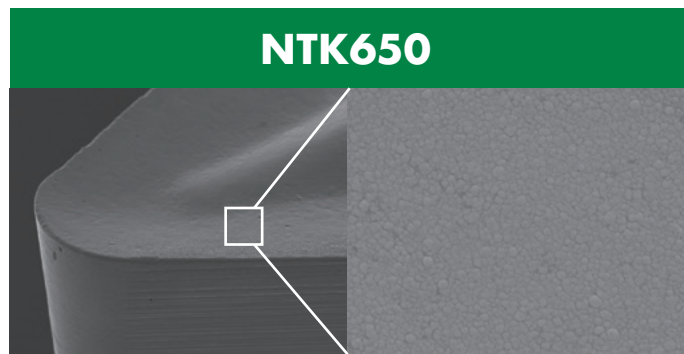
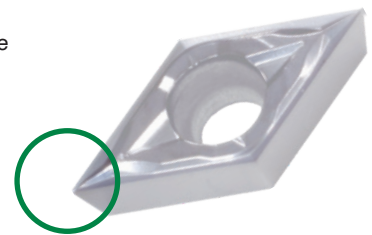
Stable machining of [Ni base alloys × small diameter parts] for all users

Features

- **Adoption of new HiPIMS coating. Improvement of surface-smoothness and suppression of imperfections in film**
Improves welding performance, which is critical to Ni base alloys. Provides stable machining
- **TiAlN system with excellent hardness and heat resistance achieves long life**
Excellent wear resistance even in difficult-to-machine material processing with high cutting edge temperature

Applicable Applications

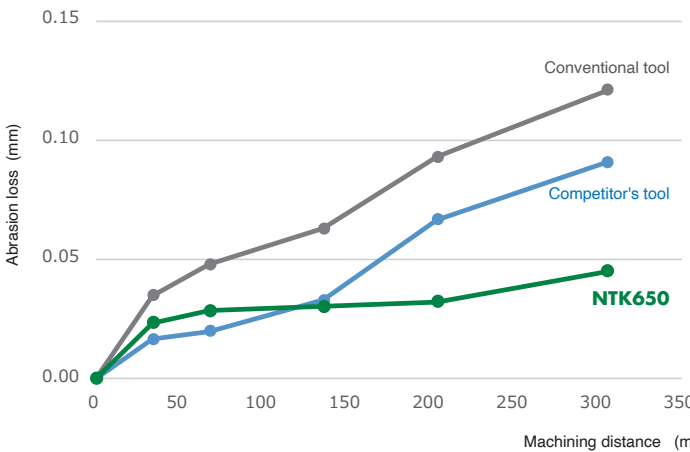
- Small diameter of Ni base alloys. (Approx. Φ20) for best performance on workpieces
- Introducing three new types of NTK's best-selling chipbreakers



Performance

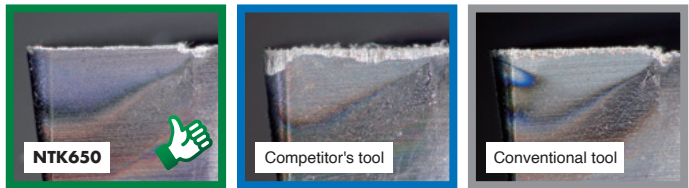
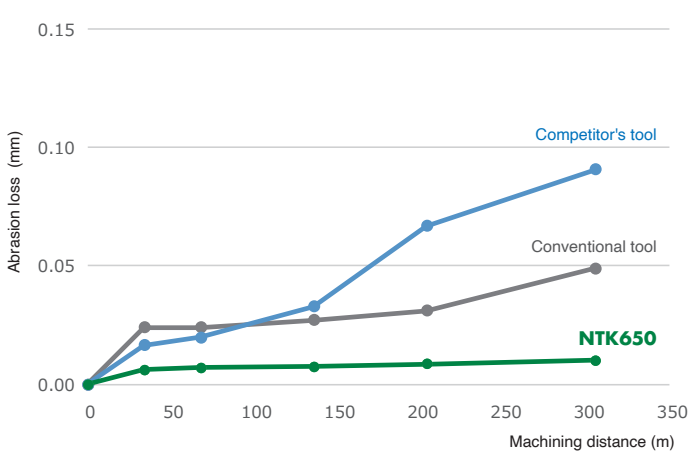
Material: Inconel 718

$V_c=50\text{m/min}$ $f=0.05\text{mm/rev}$ $a_p=1.0\text{mm}$ WET , DCGT11T302



Material: Hastelloy C22

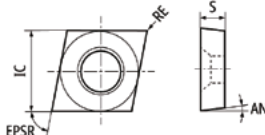
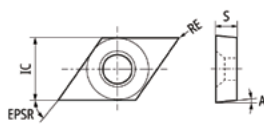
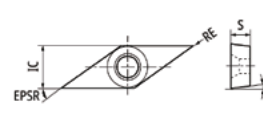
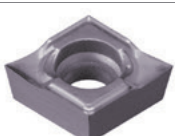

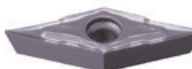
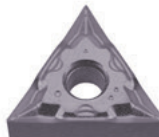
$V_c=80\text{m/min}$ $f=0.05\text{mm/rev}$ $a_p=1.0\text{mm}$ WET , DCGT11T302





Cutting conditions

Grade	Work material	Cutting parameters		
		Cutting Speed (m/min)	Feed (mm/rev)	Depth of cut (mm)
NTK650	Inconel	30 - 60	0.03 - 0.07	0.5 - 1.5
	Hastelloy	50 - 100	0.03 - 0.07	0.5 - 1.5

Lineup

Type	No.1	No.2	No.3	No.4						
										
Shape	Type	Product Number (Metric)	CECC	EPSR °	IC mm	S mm	AN °	RE mm	BS mm	Carbide PVD 650
	1	CCGT09T301MYL	Sharp edges	80	9.525	3.97	7	0.08	–	●
	1	CCGT09T302MYL	Sharp edges	80	9.525	3.97	7	0.18	–	●
	1	CCGT09T304MYL	Sharp edges	80	9.525	3.97	7	0.38	–	●
	1	CCGT09T301MCL	Sharp edges	80	9.525	3.97	7	0.08	–	●
	1	CCGT09T302MCL	Sharp edges	80	9.525	3.97	7	0.18	–	●
	1	CCGT09T304MCL	Sharp edges	80	9.525	3.97	7	0.38	–	●
	2	DCGT11T301MYL	Sharp edges	55	9.525	3.97	7	0.08	–	●
	2	DCGT11T302MYL	Sharp edges	55	9.525	3.97	7	0.18	–	●
	2	DCGT11T304MYL	Sharp edges	55	9.525	3.97	7	0.38	–	●
	2	DCGT11T301MCL	Sharp edges	55	9.525	3.97	7	0.08	–	●
	2	DCGT11T302MCL	Sharp edges	55	9.525	3.97	7	0.18	–	●
	2	DCGT11T304MCL	Sharp edges	55	9.525	3.97	7	0.38	–	●
	3	VCGT110301MYL	Sharp edges	35	6.35	3.18	7	0.08	–	●
	3	VCGT110302MYL	Sharp edges	35	6.35	3.18	7	0.18	–	●
	3	VCGT110304MYL	Sharp edges	35	6.35	3.18	7	0.38	–	●
	3	VCGT110301MCL	Sharp edges	35	6.35	3.18	7	0.08	–	●
	3	VCGT110302MCL	Sharp edges	35	6.35	3.18	7	0.18	–	●
	4	TNGG160401MFNUL	Sharp edges	60	9.525	4.76	–	0.08	–	●
	4	TNGG160402MFNUL	Sharp edges	60	9.525	4.76	–	0.18	–	●
	4	TNGG160404MFNUL	Sharp edges	60	9.525	4.76	–	0.38	–	●

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INDUSTRY 4.0


● : First recommendation

○ : Second recommendation

Steel	○
Stainless steel	○
Cast Iron	
Nonferrous metals	
Heat-resistant alloy	●
High hardness material	
Others (non-metallic)	

Tungaloy-NTK Cutting Tool (Thailand) Co., Ltd.


1858/5-7, 4th Fl., Debaratna Road, Khwaeng Bangna Tai, Khet Bangna, Bangkok 10260, Thailand




CONTACT

www.ntkcuttingtools.com/th/contact/

Sample request





YouTube Channel

www.youtube.com/NTKCUTTINGTOOLS

