

Stable and consistent performance when machining tough materials

Low tool life and poor chip evacuation are two factors preventing stable machining of stainless steels and steels.

ST4 - A New PVD coated carbide grade solves the issues related to machining these materials.



Higher hardness and oxidation resistance

NTK's unique coating technology creates a high-aluminum coated composition, CrAIN. - Extends tool life and allows efficient machining of stainless steels and other hard to cut materials.

Stable machining, Excellent surface finish ⇒ Extended tool life

NTK's new PVD coating technology for ST4 has improved the bonding force and surface smoothness. It prevents BUE trouble from stainless steel machining, and achieves stable cutting.

NTK's ST4 grade combined with a unique chipbreaker is a solution for your demanding machining applications.













Grooving / Side Turning GTMH32-GX Series

Typical Grooving Problems • Chips remain at the bottom of groove • Bird's nest of chips





Center concavity improves chip control

Helps chip curl & gives control. Excellent surface finish when grooving.



- Improved chip control when side turning. Chip control performance improved when side turning
- Polished outer periphery offers excellent surface finish
 Sharpness equal to ground chipbreaker

Cut-off CTP/CTPA-TH Series

-TH- achieves superior fracture resistance Long tool life on stainless steel cut-off operations



Case study	CTP-TH	Competitor's tool
Material: SUS304 <i>ф</i> .433" Cutting condition: 260 SFM .001 IPR Tools: Insert: CTP-TH (.079 width) Holder: CTPR12		Fracture
	200pcs. machined	100pcs. machined

Cut-off CTP/CTPA-CX Series

Folds chip strongly from both ends and achieves superior machined surface finish





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Molded Chipbreaker

Ground Chipbreaker



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