

# Machining and Cutting Tools

## Coating Portfolio



PVD Coating	Composition	Coating Architecture			Application						Properties				
		Single Layer	Multilayer	Gradient	Alloy Steels	Stainless Steels	Cast and Ductile Iron	Non-Ferrous Alloys	High-Temp. and Nickel-Based Alloys	Hardened Steels	Thickness, $\mu\text{m}$	Hardness HV $\pm 200$	Thermostability $^{\circ}\text{C}$	Coefficient of Friction (dry over steel)	Colour
<b>PERFORMANCE COATINGS</b>		<i>“Coating Thickness capability from 0.5 to 25 <math>\mu\text{m}</math> available upon request”</i>													
TiN	TiN	*			*						2-5	2,200	600	0.3	Gold
TiCN	TiCN		*		*						2-5	3,400	400	0.2	Grey
CRN	CrN	*					*				2-5	2,000	800	0.3	Silver
ZRN	ZrN	*					*				2-5	2,500	600	0.5	Yellow
TiAlN	TiAlN	*			*						2-5	3,000	900	0.5	Grey
<b>ADVANCE HIGH-PERFORMANCE COATINGS</b>		<i>“Coating Thickness capability from 0.5 to 25 <math>\mu\text{m}</math> available upon request”</i>													
CRALON	AlCrN	*			*		*		*		2-5	3,300	1,100	0.5	Grey
CRALON-S	TiSiN Based		*		*	*	*	*	*		2-5	3,500	1,100	0.2	Bronze
CUTTEX SM	TiAlN Based		*		*	*	*	*	*		2-5	3,800	1,100	0.4	Grey
CUTTEX NOVA	AlTiN Based		*		*	*	*	*	*		2-5	3,600	1000	0.2	Grey
CUTTEX NOVA-PRO	AlTiN Based		*	*	*	*	*	*	*		2-5	3,600	1,100	0.2	Champaign
D-ARC	DLC, ta-C		*	*			*				1-3	4,000	500	0.1	Gunmetal

# Machining with Cralon and Cuttex Family

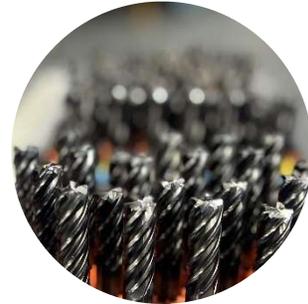
Optimized solutions for cutting tools

**Sputtek**  
ADVANCED METALLURGICAL COATINGS



## *Applications:*

- Carbide End Mills & Drills
- Turning Inserts & Lathe Tools
- Taps, Reamers & Threading Tools
- Milling & Form Tools
- Saw Blades & Cutting Knives



## *Features:*

- Extreme Hardness & Wear Resistance
- Superior Edge Retention
- Low Friction & Heat Reduction
- Thin, Precision Coating
- Oxidation & Corrosion Resistance



## *Benefits:*

- Extended Tool Life
- Reduced Built Up Edge
- Reduced Lubrication Needs
- Enhanced Part Quality
- Lower Maintenance & Downtime



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