



XTREME COATING

THE ULTIMATE TECHNOLOGY FOR INDUSTRIAL CNC TOOLS

DLCS is a modified diamond-like carbon coating with enhanced load bearing capacity. A hard, durable metal-based layer (chromium nitride) provides a higher hardness surface and increases the resilience of the superposed, tribologically effective carbon coating. Coating prevents high heats which is detrimental to cutting tool performance and will remain fully effective after use.

<p>Extreme Coating Hardness >HV 2.500</p> <p>Offers impressive hardness on cutting areas of the tool and superb protection against abrasive wear and stress resistance.</p>	<p>Minimal coating thickness µm 2-4</p> <p>The minimal micron coating guaranteed perfect sharpen edges for high cutting quality.</p>	<p>The lowest coefficient of friction 0,1-0,2</p> <p>Very good running-in and low friction losses. Reduction of sticking. Ideal for high speeds in Nesting applications.</p>	<p>High Working Temperature</p> <p>Less overheating! The coating guarantees working temperature up to 400° preserving the cutting edges from wear.</p>
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BENEFITS



3X
LONGER LIFE
THAN UNCOATED

DLCS CHROME COATING
provides 3 times longer life
than uncoated tools!



Test performed in U.S. with 1/2" solid carbide compression spiral bit

MACHINE: Felder Profit H10 Nested Base/Overhead CNC Router

WORKING PARAMETERS: RPM = 18,000 - Feed = 20 mts/minute

MATERIAL: 19mm Melamine Chipboard

APPLICATION: Nesting Full Dimensioning

PERFORMANCE: DLCS coated bit cut 165 melamine panels
Uncoated bit cut 56 melamine panels

Felder Profit H10



DLCS coated bit



Melamine Chipboard



Cut quality after 165 panels

