

## End Mills Designed for Cutting Hard Metals



Emuge Corp., a leading manufacturer of an extensive line of taps, thread mills, end mills, holders, and attachments, offers TiNox-Cut, a new series of end mills specifically developed to provide exceptional tool life when machining challenging materials. TiNox-Cut End Mills offer a dependable cutting solution for nickel alloys, like Inconel and Stellite, all grades of titanium, and tough stainless steels like Super Duplex—materials used extensively in the medical industry, among others.

The TiNox-Cut End Mills feature a high heat-resistant, lubricious coating and an optimized cutting edge design. This provides long tool life by minimizing friction and efficiently evacuating chips, which is especially important in tough, long-chipping materials. In addition, the tools are made from an extra-tough carbide grade to maximize wear resistance.

For maximum effective cutting lengths, TiNox-Cut End Mills feature reduced neck diameters. Offering superior machining repeatability and safety, the end mills combine a tight, h5 shank tolerance with a specially roughened surface finish to maximize tool holder clamping potential.

The TiNox-Cut End Mills are well suited for both roughing and finishing operations. The tools consist of three designs: two four-flute variations for both roughing and finishing, and a five-flute extra long finishing tool.

TiNox-Cut roughing/finishing end mills are available with flat ends or with a selection of corner radii. For even more efficient chip evacuation, TiNox four-flute end mills are available with internal coolant/lubricant capability. The roughing/finishing versions are available with a serrated profile for effective chip breaking during roughing operations.

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The five-flute TiNox-Cut finishing end mills are also available with various corner radii, and feature length-to-cutting diameter ratios of three times D and four times D. The five-flute design offers added stability and minimal deflection in long reach applications.

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