



TURBO

**NOW PRE-HARDENED AND SURFACE COATED FOR ADDED
PROTECTION, ACCURACY AND WEAR RESISTANCE**

SECO 



TURBO SQUARE SHOULDER AND HELICAL MILLING

For square shoulder milling applications spanning the range of sizes and operations, all you need is the Turbo family.

Our positive cutting rake design not only reduces power consumption, it also leads to longer tool life and the possibility for increased cutting data.

Productivity, capability and versatility are all part of the package for every Turbo we make.

And we make quite a few, offering you solutions from the most simple to the very complex, depending on your needs. Steel, stainless steel, cast iron, hardened materials and high-temperature alloys can be machined with excellent results.

This new release of Turbo cutters features surface coated and pre-hardened cutter bodies.


With a surface hardness approaching HV700 the cutter bodies now offer longer tool life, better tolerances and a more durable surface,

All this translates to increased reliability, higher precision component machining and resistance to chips welding to the cutter body under difficult operating conditions.




TURBO CUTTERS

NANO TURBO – SMALL DIAMETER CHAMP

 The smallest of the Turbo family, in fact among the smallest in the industry, Nano still delivers big on performance.

Available in cutter body diameters from 10 mm to 40 mm, Nano is the perfect alternative to both HSS and solid carbide, winning on performance and economy every time.


MICRO TURBO – LIGHT CUT PRODUCTIVITY

 For light duty, high precision applications, Micro Turbo is the answer.

The free cutting, low power consumption design makes it ideal for smaller machines and setups that lack stability.


Micro is available in 12 mm to 100 mm diameters, and, like all Turbos, constructed of hardened and coated steel cutter bodies for strength and rigidity.

SUPER TURBO – EASY CHOICE

 Super is super. Without a doubt, it is the number one first choice for general-purpose square shoulder milling applications.

Cutter bodies from 20 mm to 250 mm, and 12 mm highly-positive inserts allow Super Turbo to make short work of a wide range of materials and applications.

POWER TURBO – HEAVY-DUTY

 Power puts the “heavy” in heavy duty, providing maximum metal-removal, but with free cutting inserts to make efficient use of machine power, even in demanding applications and difficult materials.

Available in diameters from 32 mm to 250 mm, with a large 18 mm insert, Power is there when the going gets rough.



TURBO INSERTS



It may not be apparent to the naked eye, but upon closer inspection of Turbo's unique insert you will find an optimised edge, advanced helix angle, large wiper flat and a strong, highly-positive rake angle.

This is true for every Turbo insert, from the 6 mm Nano to the 18 mm Power, and makes it possible to achieve the highest level of square-shoulder milling productivity.

And, you will also have the versatility to slot, ramp, contour, plunge, pocket mill and perform both circular and helical interpolation.



INSERT GRADES AND GEOMETRIES

PVD, CVD and uncoated grades provide a complete range for machining all types of material.

Including the first choice F40M grade for small depths of cut and the Duratomic® range for the added toughness and heat resistance needed in larger depths of cut.

For geometries Seco offers -E, -ME, -M, -MD and -D for the range of easy to difficult machining conditions.



TURBO HELICAL CUTTERS

Seco helical cutters open the door to new levels of productivity.

Imagine the free cutting performance of Turbo with dramatically increased depth of cut capability, four or five times that of the standard configuration!

FOR THE SMALLEST TO THE BIGGEST OPERATIONS

For smaller applications, we have engineered both Nano and Micro to be highly-productive and economical alternatives to what has traditionally been an HSS and solid carbide endmill market.

For applications that are medium to large, Seco offers helical cutters in both Super and Power versions – up to 100 mm diameter.

We use strong, thick inserts held securely in the pocket with TorxPlus™ screws, rigid cutter bodies, and a super-positive, free-cutting geometry to make maximum use of available power.

Latest additions to the Super Turbo family is a range of Combimaster chamfering tools, for 30°, 45°, 60° and 75° setting angles, together with helical versions in Seco-Capto system and arbor type backends.



BETTER SURFACE FINISH AND ECONOMY



Available for both Super and Power Turbo, Seco's adjustable cassettes and wiper inserts offer even better surface finish capability, something that can be hard to achieve when using larger diameter cutters (up to 250 mm) on big workpieces.

To make large components profitably requires that you machine fast, and to do so, you need a cutter that makes the best use of available power – Turbo!

Seco's cassette cutters also provide economy for situations where machining conditions place the cutter at risk. If damaged, only the cassette would need replacing.

QUICK CHANGE WITH SECO-CAPTO™ AND COMBIMASTER



Time is money, so changing a tool quickly and selecting the tool length easily to get the machine running again is critical. Seco offers two key solutions to this challenge.

Seco-Capto and Combimaster not only offer the benefits of quick tool change but they also solve the problem of tool length choice with an impressive range of modular combinations.

Increasing numbers of Multitask machines are now using Seco-Capto type tooling interface systems; Seco supports this trend with a wide range of direct fit Seco-Capto milling cutters.

Seco-Capto as a modular system for larger cutters such as Micro, Super and Power; and Combimaster interchangeable heads for the whole Turbo range (16 mm to 40 mm) except Nano Helical (14 mm) which also feature through coolant holes for delivery right to the cutting edge.

Normal pitch cutters are available for the Seco-Capto versions, while Combimaster adds both close and coarse pitch versions as well.



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