

CASE STORY

Precision Cutting | Siemens Industrial Turbomachinery

Siemens Industrial Turbomachinery Chose This Combination to Get the Perfect Precision Cut



At Swedish Siemens Industrial Turbomachinery, the company wanted to increase their precision sectioning when preparing turbine components for materialographic analysis. They also needed unlimited options for clamping. They found the perfect precision cutting machine for the purpose.

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Challenge

At Siemens Industrial Turbomachinery, the company wanted to increase their precision sectioning when preparing turbine components for materialographic analysis. They wanted to be faster and more efficient plus have a more efficient clamping solution for oddly shaped and tiny workpieces.

Solution

The [Secotom-60](#) precision cutting machine.

Results

A fast, silent, and easy to operate cutting experience with no limit to clamping options due to the ultra-flexible T-slot table.

Swedish Siemens Industrial Turbomachinery's choice for a new precision cut-off machine for the Siemens lab landed on the Struers Precision cutter, [Secotom-60](#). Not only because of the cutting machine's great accuracy, but also because it is important for Siemens to be supported by a great materialographic knowledge source like Struers.

Fast, Silent, and Straightforward to Operate

"The Secotom is fast, silent, and the methods for the different discs are making the task very efficient. And it is straightforward to operate. Anyone can work with it," says Mikael Berggren, Laboratory Technician at Siemens Industrial Turbomachinery. He further adds:

"The timer on the display is also nice, as it shows the remaining time for the cutting process, which enables me to plan my time in the lab and prepare other samples while I wait."

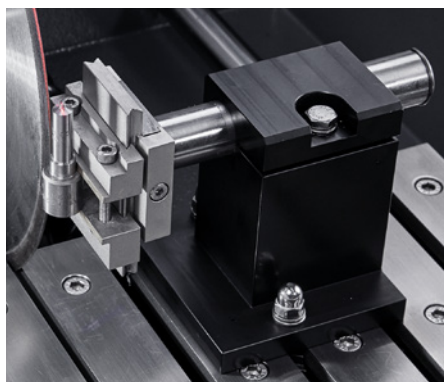
Clamping Options: "Only Your Imagination Can Stop You"

"I like that you can use clamping tools from other [Struers cutting machines](#), and because the Secotom has a small table, it is easy to clamp your workpiece. You are without limits with the Secotom, as the table allows you to clamp all sorts of samples; tiny ones as well. Only your imagination can stop you," Mikael says.

“Time is money. We need to be fast and efficient, and the Secotom fulfills that need.”

Mikael Berggren

Laboratory Technician, Siemens Industrial Turbomachinery



The clamping part is an especially important aspect when it comes to precision cutting. Mikael adds:

“It is the trickiest part for us. Samples are not plane, and often they are tiny. We also often deal with additive manufactured components, which have, in particular, many hidden and tricky textures and forms. This makes it very difficult to section them, which means that we are dependent on many clamping opportunities and creative solutions so that the samples won’t move during the sectioning. With Secotom, we have lots of clamping options, and with help from the Struers product specialist, we always find a solution to our clamping challenges to get the best sectioning results.”

Wanted the Cutting Edge within Materialographic Equipment

“We also chose Struers because it is the one company that is at the cutting edge of development in materialographic equipment, and they have excellent and expert knowledge of the materials I am working with.”

“Time is money. We need to be fast and efficient, and the Secotom fulfills that need, as does Struers equipment generally,” Mikael concludes.



About Siemens Industrial Turbomachinery AB

[Siemens Industrial Turbomachinery AB](#), based in Finspång in northern Östergötland Sweden, supplies complete power plants and produces world-class gas turbines with high efficiency and low emission levels. Siemens Industrial Turbomachinery employs 2,800 employees and has a turnover of approximately SEK ten billion.

Secotom Precision Cutting Machine

[Secotom](#) is an advanced precision cutting machine with a large capacity and application flexibility. The very first Secotom precision cutting machine was launched in 2001 and became an immediate success. Since then, thousands of Secotoms have left Struers production to serve laboratories worldwide. An intuitive user interface means that hardly any training is required. The optional automatic X-movement supersedes time-wasting repositioning, and a movable T-slot table allows for sectioning a range of sizes and shapes. Secotom contains multiple additional features such as laser light, an ExciCut mode for hard materials, and intelligent feed control.

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