

Tap Testing Hub

Enabling Productive Machines
Optimization against Chatter

Tap testing is a technique to determine the natural frequencies of each individual machine setting. The result of a tap test is called the Frequency Response Function (FRF).

Our software collects the results of the tap test (FRFs) in a structured library for future access and uses them as input to our optimizers to determine the stable regions free of chatter vibrations prior to manufacturing.

Milling Optimization Software for every Machine Shop

Best part. Faster. First time.



Productive
Machines

PRODUCTIVE MACHINES

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End the waste

Productive
Machines

The SenseNC Suite

Autonomous **optimization for milling processes** for every machine shop

SenseNC Finesse

(Tap Testing Required)

Get optimal Feeds and Speeds within your CAM environment automatically

Make the most of your CNC machines; increase your productivity, reduce tooling costs and lead times by eliminating chatter vibrations. Apply optimal spindle speeds and feed rates across the whole toolpath, customised to your unique machine setup.

Available for
Siemens NX CAM and Mastercam users



SenseNC Feeds

(No Tap Testing Required)

Get optimal Feeds within your CAM environment automatically

Increase material removal rate and reduce cycle time. This easy-to-use feed scheduler avoids tool breakage and spikes in cutting forces by balancing the loads on the cutting tools.



AML's Success

with Productive Machines

Innovation is part of AML's DNA, we are constantly looking at innovative ways to improve our manufacturing processes and reduce the carbon footprint.

21%
Reduced Cycle Time

Productive Machines ticked all the boxes and helped us become more competitive.

Dr Gareth Morgan, Managing Director of AML



The SenseNC Suite brings huge savings!

- Maximise productivity
- Be more sustainable
- Increase Material Removal Rate
- Extend tool life
- Improve sustainability
- Reduce spikes and vibrations

TapStarter

(Independent of CAM)

Machine setting **optimization for simple cuts**

TapStarter finds the best spindle speed and depth of cut combinations for single cuts in simple milling operations. We optimize feed rates based on torque/power capacities of machines and cutting force constraints.

Productive
—■ Machines