

MSC MILLMAX®

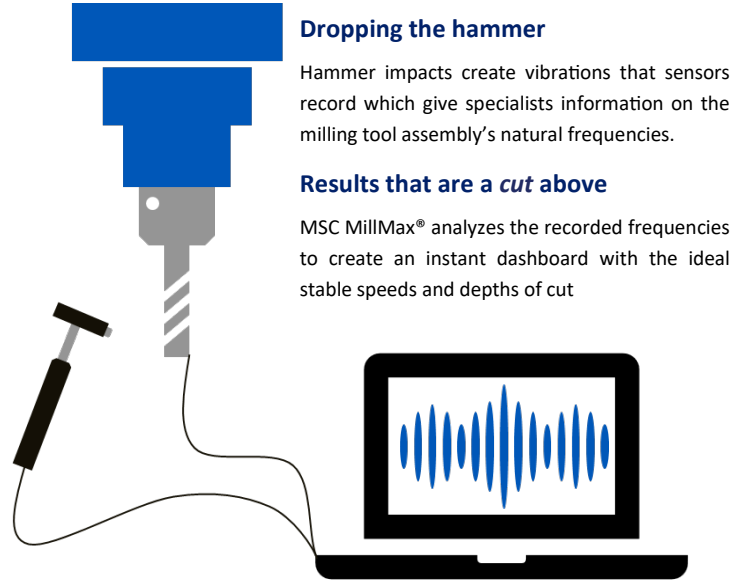
OPTIMIZE YOUR METALWORKING OPERATIONS IN JUST MINUTES

Stability is key for more productive machining

In manufacturing, every machine has a region of stable cutting parameters that operate at the highest quality and productivity. Traditionally, this region has been found by trial and error which is difficult and expensive.

If you can't measure it, you can't improve it

MSC MillMax® takes the guesswork out of optimizing milling applications with a scientifically proven method which delivers proven results. Calibrated impact hammers are used to excite the milling tool-holder-machine assembly structural dynamics and the response is measured with a vibration sensor.



Dropping the hammer

Hammer impacts create vibrations that sensors record which give specialists information on the milling tool assembly's natural frequencies.

Results that are a cut above

MSC MillMax® analyzes the recorded frequencies to create an instant dashboard with the ideal stable speeds and depths of cut

Revolutionizing American Manufacturing

MSC MillMax® uses cutting edge algorithms to identify zones of best spindle speed which leads to maximized productivity.

This innovation is being used to support manufacturers by fundamentally changing the way that U.S. machining companies are operating. By drawing together expertise across manufacturing leadership, customers are going beyond marginal gains to achieve a step change in performance. U.S. manufacturers are experiencing real benefits achieved by optimizing their machining performance, helping companies double their productivity, increase throughput, and create capacity.

Dynamic improvement

On average, customers are gaining an 85% increase in spindle speed and 200% increase in feed rate. As a result, cycle times are being slashed by nearly 40%.

Sustainability

To date, MSC MillMax® tests have resulted in over 44,000 hours of cycle time savings or capacity gained. Going faster saves energy and improving tool life means less waste.

Industrial Impact

Over \$4.5 million of improved profit for US machining businesses since MSC MillMax® was launched, thus enabling greater competitiveness on a global scale.

