

INDUSTRIAL TECHNOLOGY

Machines. Technology. Automation

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Wherever gas is used, we are there



Zero manual programming time
and maximum precision: how to optimize
the lifecycle of metal-cutting tools.

BEYOND SHARPENING: NU5A+MX REVOLUTIONIZES TOOL RECONDITIONING

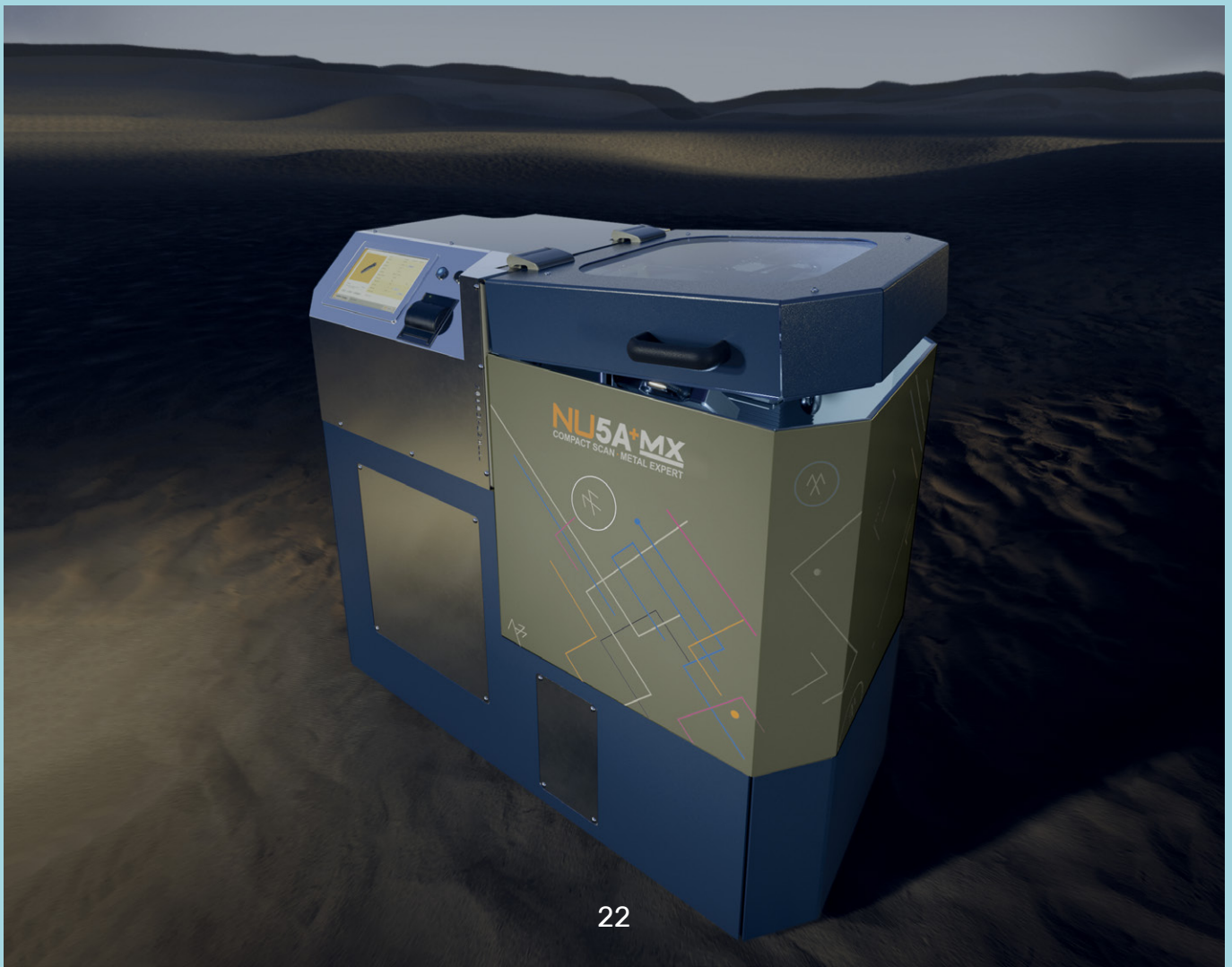
NORDUTENSILI SRL

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Efficiency in CNC machining departments
leaves no room for compromise, and
sharpening now has a new benchmark.

With the launch of the NU5A+MX, the
tool-sharpening industry is witnessing a
genuine technological revolution, where
maximum precision meets complete
automation.

This is not simply a mechanical evolution,
but a unique solution designed to
redefine productivity standards through
advanced laser scanning and predictive
algorithms.





2. Minimal effort, eXtraordinary versatility

The software automatically generates grinding programs based on laser-scanned data, ensuring accurate machining, collision avoidance, and real-time grinding wheel wear compensation.

3. Meets your needs, tailored eXperience

Native support for tools from 3 to 28 mm, up to 7 flutes, fully automatic, with no need for operator-entered specifications and complete traceability of all executed processes.

Materials and dimensions

Tungsten carbide and HSS
Diameter 3–28mm (shank diameter up to 25mm/1")
Cutting length up to 150mm

Geometries

From 1 to 7 flutes
Helix angle up to 45° Differentiated helix angles

The software is able to recognize chipped cutting edges. The sharpening program setup is totally automated. The integrated collision avoidance system prevents any damages.

The NU5A+MX completely eliminates manual programming time: the machine “sees,” identifies, and reconditions the tool fully autonomously, while even compensating for wheel wear in real time.

It represents the perfect link between the flexibility of precision craftsmanship and the power of industrial production.

Choosing the NU5A+MX means standardizing quality, eliminating the risk of human error, and ensuring an unprecedented service life for your

metal-cutting tools. The result is a sharpening department transformed into a key driver of your competitiveness. The future of the workshop is here—and it is unique.

Advanced solution for automated metalworking tools regrinding

Smarter metalworking tools reshaping with the MX upgrade

A strong focus on market needs, combined with a solid R&D department, has led to the MX upgrade, representing the evolution of grinding technology in the metalworking field.

The NU5A+MX has been enhanced in terms of precision and versatility, with improvements to both software and mechanics, while maintaining the compact design and ease of use that have always set it apart.

The 3 key aspects of the NU5A+MX sharpening machine

1. Metalworking tools eXcellence

Delivers high-precision advanced operations, including chamfers and corner radius on the tool end, K-land and variable helix geometries, ensuring top performance for precision metal cutting tools.



The NU5A+MX transforms tool reshaping into a fully automated process, combining precision, flexibility and intelligent process control.

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