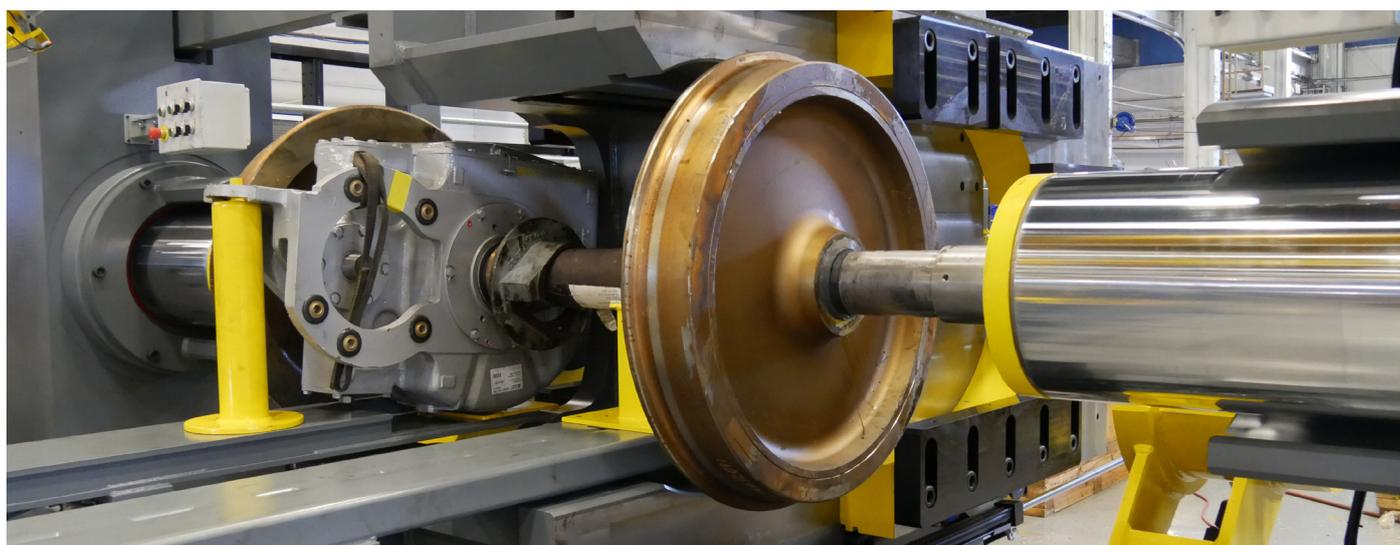


NSH Group

The NSH Group: Commitment to Railway Wheelset Maintenance Advancement



The trains (be they transit or freight) do not stop running – so railway companies need dependable solutions that they can count on for maintenance.

The NSH Group (Niles-Simmons-Hegenscheidt) and its North American subsidiary NSH USA Corporation (Albany, New York and Sterling Heights, Michigan) are partners in that equation. With a complete product line of railway maintenance and production equipment, the NSH Group sets the standard worldwide. The key to the group's prominence is a commitment to continuous improvement of its machines and practices.

The Simmons wheelset and bearing presses are utilised throughout the world to mount and demount wheelset components safely and efficiently. Regardless of the production goals and work piece requirements, the group manufactures a press to meet those expectations. The machines are designed for flat-floor installation, removing the need for a pit or special foundation and speeding up the installation process.

The lightweight tooling is customised for the end-user's work pieces and is easily installed or removed during operation. Automatic and semi-automatic operation is possible through the intuitive controls.

Recent updates to the product line include an integrated measurement system. The contact precision measurement probes allow for high accuracy in an often unforgiving and rugged wheel shop environment. The system automatically measures radial and axial runout as well as wheel set back-to-back inspection.

The presses can also include an overhead positioning system that eliminates the need for manual operator-positioned devices for visual or electronic position feedback to mount components. All of the presses now come standard with an energy efficient and quieter on-demand hydraulic power unit. The design of the presses additionally accommodates a variety of automated or manual loading options.

Railways worldwide depend on Simmons's AAR and APTA-compliant wheelset and bearing presses.

Hegenscheidt MOBITURN®2 Mobile Wheel Lathe

Hegenscheidt-MFD (Erkelenz, Germany) is no stranger to continuous improvement efforts regarding its railway wheelset maintenance equipment. The MOBITURN®2 Mobile Wheel Lathe is a direct result of leveraging the success of service-proven Hegenscheidt wheel lathe technology in a new and unique configuration.

The Hegenscheidt U2000-Series Underfloor Wheel Lathes are the choice of transit railways worldwide for wheelset maintenance, while wheelset production facilities rely on Hegenscheidt's Portal Wheel Lathes. Both product lines require a pit, which can be a challenge for facilities that have space restrictions or are looking for more economical solutions.

The MOBITURN®2 was designed with those customers in mind. The system is the world's first and only wheelset maintenance machine that travels to the rail vehicle. The versatile wheelset machining system reprofiles railway wheels, wheelsets and brake discs on rail vehicles in both the installed and detrucked states. The mobile wheel lathe is transported by rail within the railway maintenance facility or even by truck to other facilities. It is positioned under its own power beneath a lifted rail vehicle or bogie to perform maintenance operations. The mobile design allows the lathe to be stored wherever is convenient in the facility. The system's unique design has led to increased interest throughout North America – and with an eye towards

additional refinements in the future, this system will be maintaining transit rail vehicles throughout the world.

The system incorporates the robust precision machining capabilities that are the hallmarks of Hegenscheidt's wheel lathes. Integrated precision measurement, CNC control and powerful safety features extend wheelset component livelihood while safely and efficiently reprofiling wheel profile and brake discs.

The variety of installation configurations for Hegenscheidt's wheel lathes means there is a maintenance solution to fit the space, budget, and production requirements for all railway wheel set maintenance facilities.

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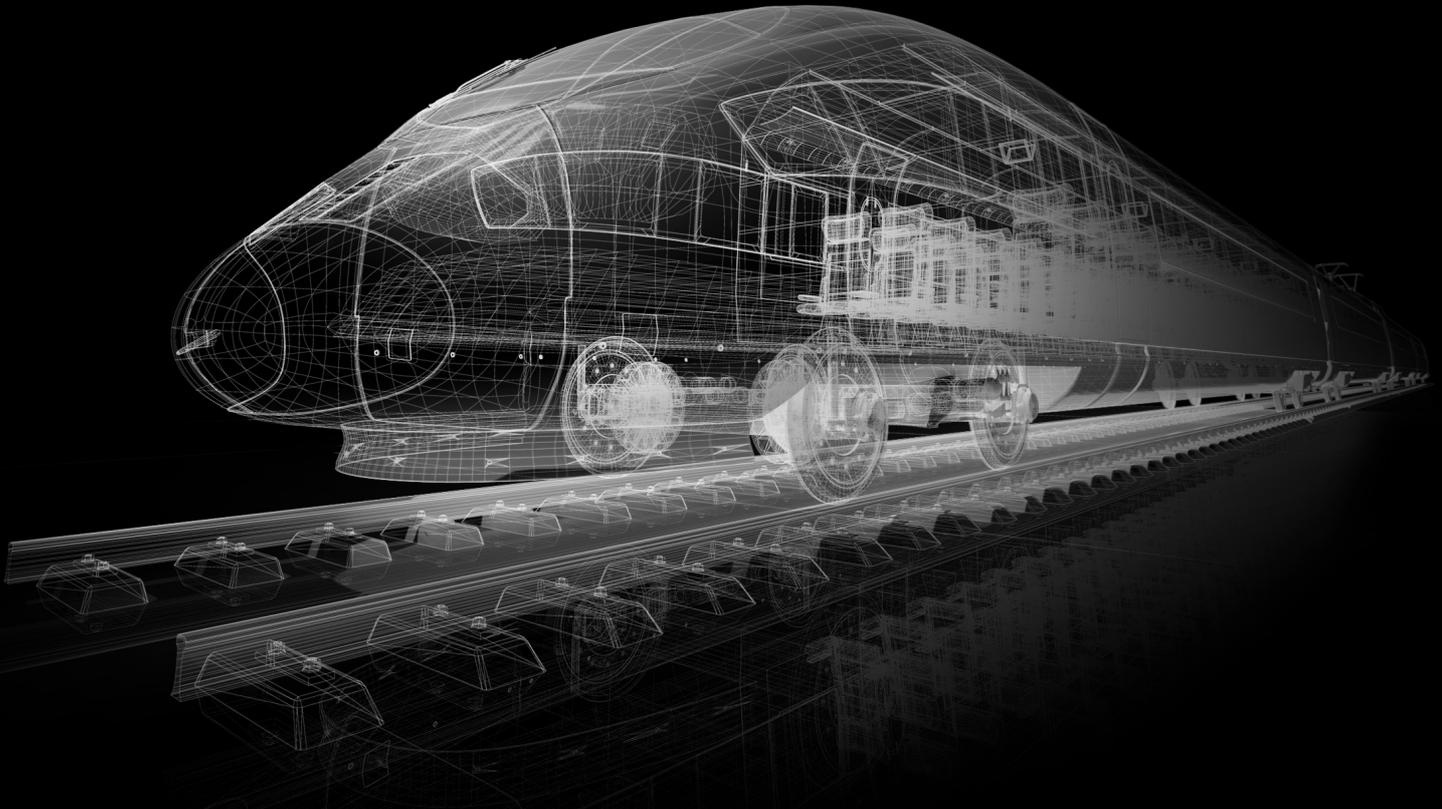
THE NSH GROUP





NILES-SIMMONS-HEGENSCHEIDT

MACHINE TOOL MANUFACTURING



Industry Leaders in Wheel Set Production, Maintenance & Automation



Simmons Wheel Presses

- full line of railway wheel set and bearing presses
- customized to process your wheel set components safely and efficiently
- APTA and AAR-compliant equipment



HEGENSCHEIDT-MFD Mobiturn®

- first and only mobile wheel set machining system in the world which comes to the rail vehicle
- reprofiling of all current wheel sets in installed and dismantled condition
- Relaunch in 2024