

Nucor Steel Texas Herkules Modernization of Dainichi Lathe with Automated Roll Loader





### HerkulesGroup – The Specialists for Large Machine Tools



## Who Are We & What Are We Doing



## **HERKULES USA - Your Partner In North America**



**Automated Roll Loader - Rebuilt Dainichi Lathe** 





## HerkulesGroup – Production, Service & Sales Facilities







## HerkulesGroup – Herkules USA & HCC/KPM



Location: Ford City, PA (USA)

• Employees: 125

• Foundation: 1985

Product portfolio:

- Roll grinders
- Lathes
- Modernizations
- Roll shops







## Herkules USA: Custom Solution for your Complex Problems

**125+** 

Passionate hearts ready for any of your challenges

30+

Years of knowledge and experience in the Remanufacturing Business

**150+** 

Successfully remanufactured and installed machines in North America

4

OEM for four industry known brands





WALDRICHSIEGEN







## Our Mission: Bringing Your Machine back to as NEW Status

#### We not only want to only rebuild...

- We not only disassemble, inspect and repair worn parts...
- Our goal is not only to restore equipment to its functionality...
- Not striving for the quick and less costly repair

#### ...but remanufacture your machine

- ...but restore components to the original specifications or often improve them
- ...but improving performance to even exceed original specifications
- ...but for delivering machine in as-newcondition with state-of-the-art technology





## Typical Types of Remanufacturing Approaches – Everything is Possible



#### Full Remanufacturing

- Electrical & Mechanical
- Control Upgrade
- Measuring Devices



#### Electrical Remanufacturing

- Electrical Components
- Control Upgrade
- Measuring Devices



#### Partial Remanufacturing

- Partial Mechanical Rebuild
- Electrical & Control Upgrade
- Measuring Devices



#### "Creative" Remanufacturing

- Partial New Build
- Any Combination Possible
- Measuring Devices





## State of the art Machine Shop













## State of the art Machine Shop











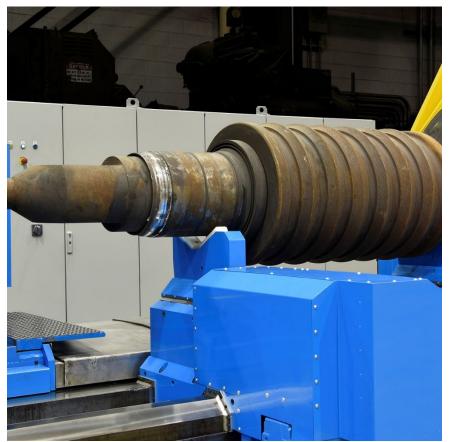






## Automated Roll Loader designed with the help of Nucor Steel Texas

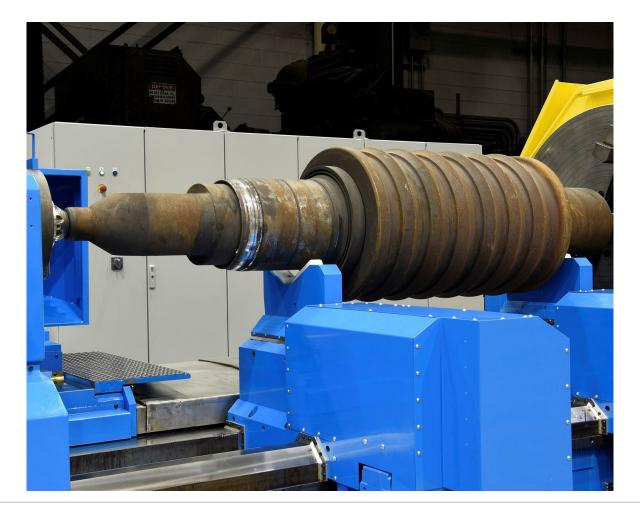








## **Automated Soft Loaders**

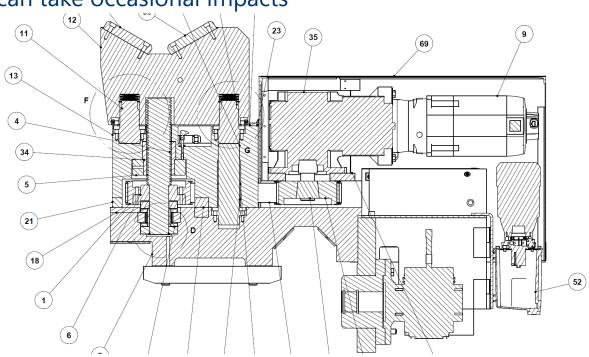






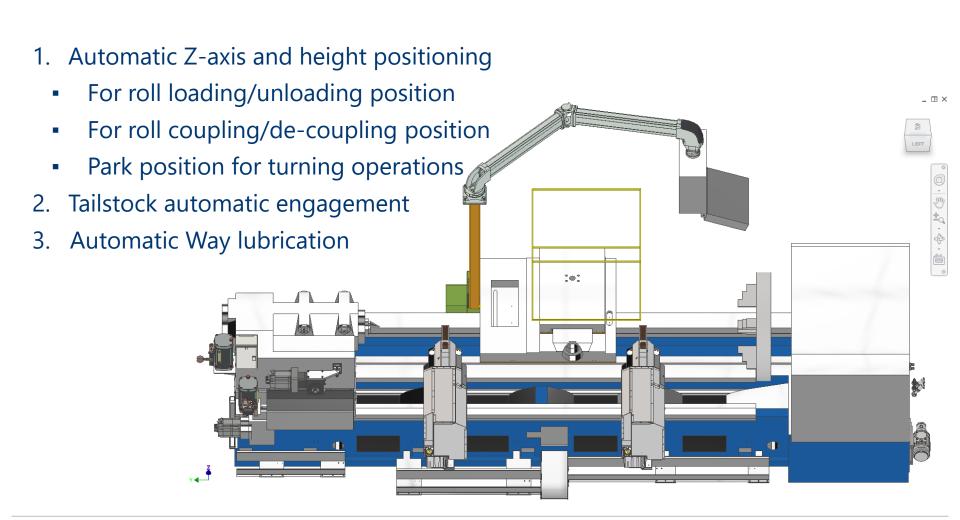
## Key Mechanical Design Features

- 1. Low profile, designed with ease of loading in mind in a "No Touch" environment
- 2. Design Simplicity:
  - Robust construction that can take occasional impacts
  - Ease of maintenance
  - Minimizing spare parts
  - No messy hydraulics
  - Self contained systems
- 3. Design adaptability to various machine profiles



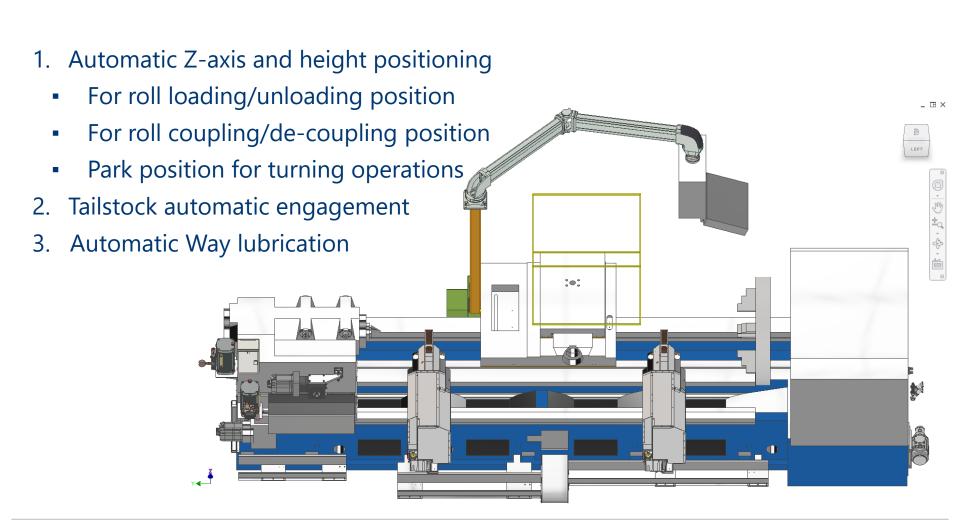






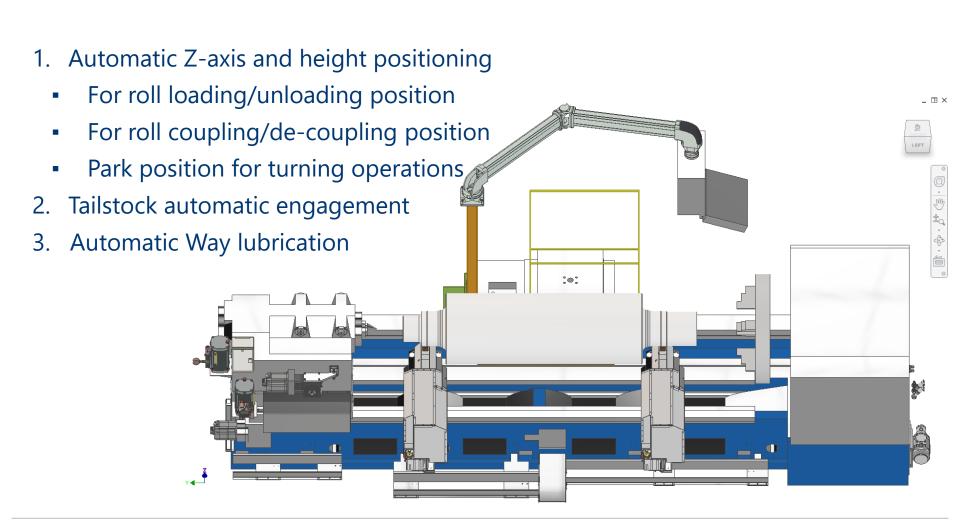






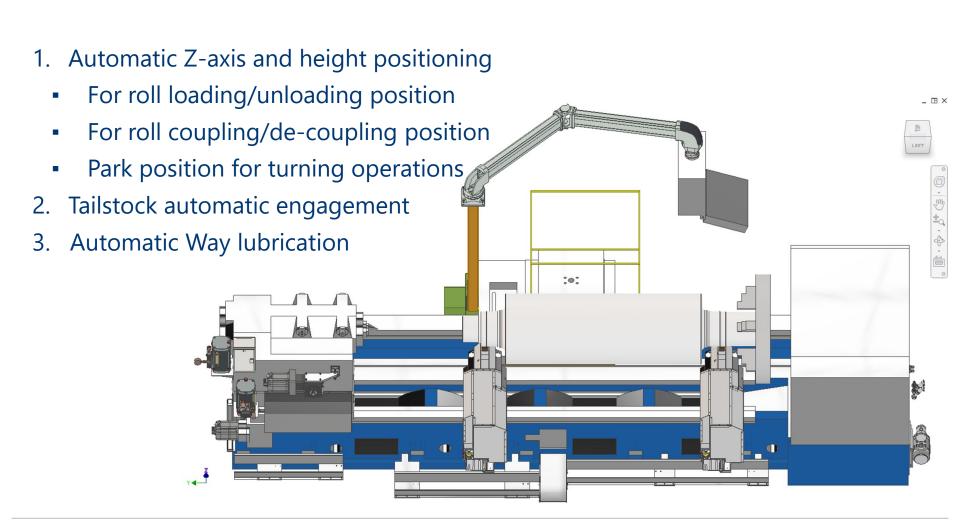
















#### **Control Features**

- 1. Simple roll setup process
  - Jog to location and teach position in the control
  - 1 time setup for each roll
- 2. Step by Step control programing
  - Allows for various levels of automation
  - Verification checks by operator for each movement



# Questions?