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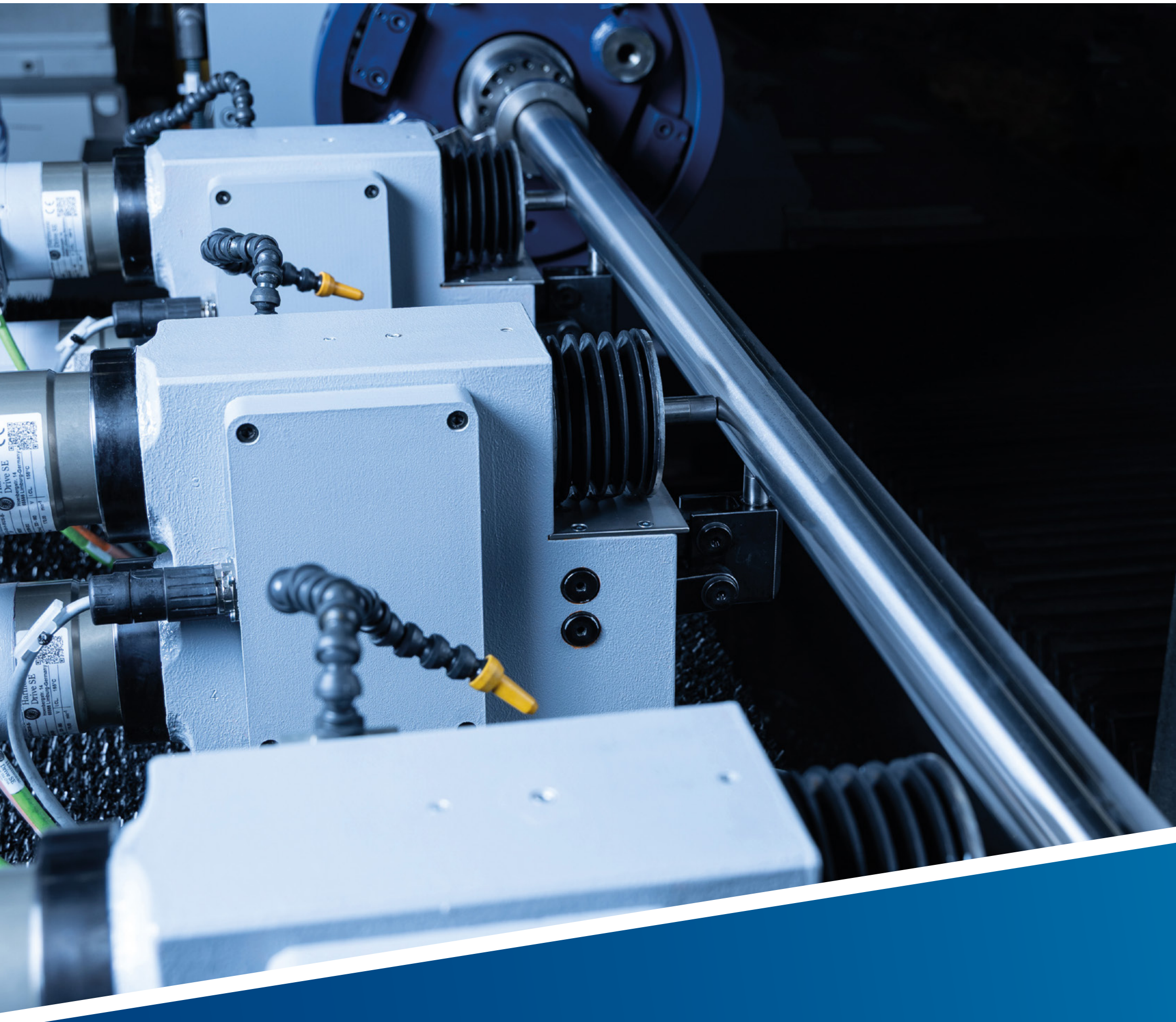


HQ 5 Roll Hardness Measuring System

Non-destructive hardness measurement – fully automatic and on the fly

Success Stories From all Around the World

Tailor-made solutions for the steel and aluminum industry

Revamping & Modernization

Increase productivity, secure the future

Market Leader in Cold Rolling Mills

Herkules Sets Standards in Efficiency and Technology

Steel products are a key material in modern industrial societies and are used in almost all industrial branches due to their versatility, strength and cost-effectiveness. In particular, surface-finished steel from the cold rolling mill plays a core role, predestining it for demanding applications. Surface-finished cold-rolled steel is therefore used in the automotive industry, construction, mechanical engineering and the household appliance and packaging industries, among others.

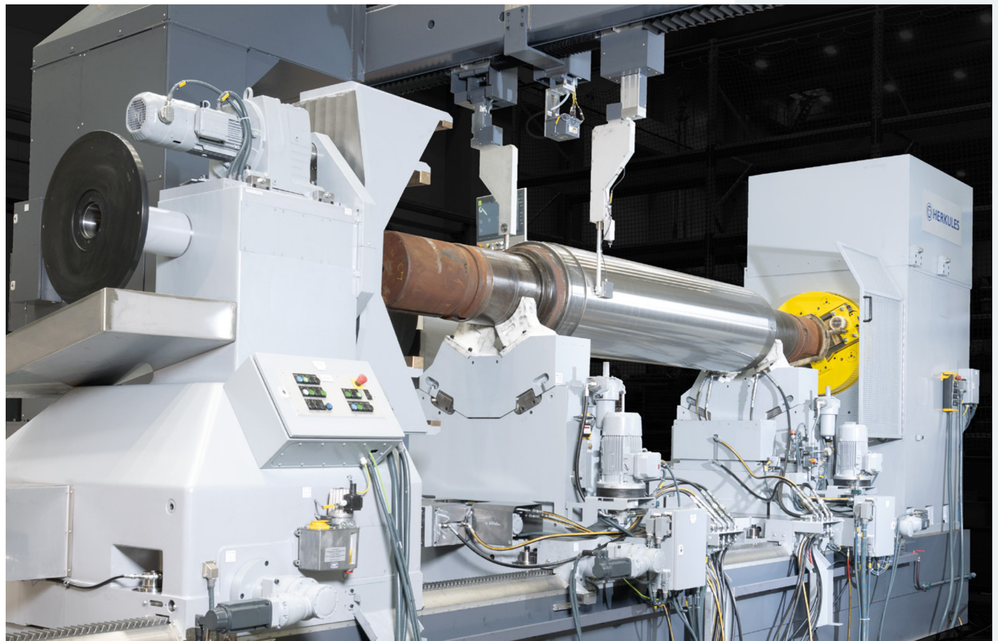
„When processing rolls for cold-rolled steel, consistent process control, precise handling, and the highest surface quality are essential“, says Tobias Wurm, Senior Sales and Project Manager. „Especially in combination with downstream surface finishing, the smallest deviations are crucial for the subsequent product performance.“

This is why the Vietnamese manufacturer DONG A - PHU MY CO, Ltd. decided to purchase a Herkules roll grinding machine.
The WS 450 S x 5,000 CNC Monolith™ is equipped with state-of-the-art measuring and testing technology so that defects can be detected and rectified reliably, quickly and on the fly during the grinding process.
„Our C-frame measuring device provides highly accurate measurements of the roll, ensuring perfect roundness along the entire length of the barrel at all times,“ explains Tobias Wurm. „Our Eddy Current measurement system immediately detects surface cracks and structural changes in the roll.“
In addition to the patented Monolith™ technology, the machine is also equipped with combination steady rests for work and back-up rolls as well as softloaders – two roll types, one solution.

„The combination steady rest can accommodate both roll types,“ says Tobias Wurm. „It optimally compensates for deflections and vibrations and impresses with its high rigidity and precise adjustability. In addition, the changeover times from one roll type to another are simplified and extremely minimized.

When inserting the rolls, the softloader supports the barrel with a defined, „soft“ force to prevent damage to the rolls and the steady rests.“

In this way, the customer can significantly enhance overall performance while ensuring that all end product requirements are consistently met. “Our machine plays a key role within the customer’s machinery fleet. The level of performance and precision it delivers would otherwise be almost impossible to achieve,” says Tobias Wurm. “Our state-of-the-art technology also minimizes roll wear and reduces grinding wheel consumption, significantly extending roll service life and lowering operating costs.“



Proven Quality. Proven Expertise.

Herkules Delivers Shear Blade Grinder to American Steel Manufacturer

The customer, Motion Industries, is a U.S.-based wholesaler, supplier, and service partner for industrial components and spare parts used in steel industry equipment, including slitting lines, cross-cutting systems, trimming shears, and long knives for cutting rolled strip. To ensure high precision in knife regrinding, the customer decided to invest in a shear knife grinder, type MS 2500, for the maintenance and resharpening of its cutting tools, thereby achieving the required quality in terms of smooth cutting edges.

„Optimal grinding of long knives and trimming shears, which are continuously used in the production of steel strips, is essential, as the grinding condition directly affects cutting quality, tool life, process stability, and safety,” explains Senior Sales Manager Robert Klingensmith. “The cutting edges must be consistently sharpened at the correct angle at all times – a task our machine handles effortlessly, even with knives up to 2,500 mm in length, circular knives with diameters of up to 250 mm, and weights of up to 250 kg.“

In the future, the machine will enable inhouse regrinding of knives at the end customer, USS Mon Valley – eliminating costly waiting times and reducing downtime.

„Inhouse grinding is particularly beneficial when quality, availability, and process reliability are key – as is the case for our customer.

Faster response times, consistent quality, less downtime and lower overall costs – all these factors led the customer to purchase their own machine, relying on the quality and reliability of Herkules,“ concludes Robert Klingensmith.

Nucor Buys Largest Monolith™ Roll Grinding Machine in the World

In heavy plate mills, roll grinding machines play a central role in ensuring the quality of the final product. They are used to restore rolls to their original shape after use by regrinding their surfaces. Abrasion, pressure, and high temperatures deform the roll surfaces – without precise regrinding, the rolls would run unevenly, leading to streaks, grooves, and other surface defects in the steel.

„Nucor Tuscaloosa primarily produces heavy plate and specialized hot-rolled steel strip for a wide range of applications, including shipbuilding, heavy-duty equipment, construction, energy, and infrastructure. As part of the modernization of its plant in Tuscaloosa, Alabama, the company therefore decided to invest in a roll grinding machine from market leader Herkules in order to further increase both capacity and product quality,” explains Tobias Wurm, Senior Sales and Project Manager. “When grinding rolls for heavy plate mills, we are sometimes dealing with the largest work and back-up rolls in the world. The machine must operate flawlessly around the clock. To meet these demanding requirements in terms of accuracy and surface quality, the customer opted for a WS 1100 × 7000 CNC Monolith™ equipped with a C-frame measuring device, Eddy Current testing, and Ultrasonic testing including the creeping wave method.“

Thanks to the inhouse developed measurement and testing technologies, the required accuracy and consistently homogeneous surface quality can be reliably achieved. “In addition, the customer benefits from reduced roll consumption when using Herkules technology. The high mechanical stability and robustness of the machine components allow the use of harder grinding wheels, which reduces abrasion and minimizes grinding wheel consumption. This significantly extends the service life of the rolls. At the same time, the machine’s solid design ensures high availability and enables short processing times.“

Thanks to the fast service and high spare parts availability from our Herkules site in Ford City, PA, USA, our customer is well supported at all times – even in the event of an emergency.

„The machine is completely built and assembled by our specialists in Ford City. Short distances, clear standards and fast response – this ensures quality and reliability on site and once again proves our pioneering and global market leadership in this industry.“

Revamping and Modernization of Roll Grinding Machines

Extend Service Life, Increase Productivity, Secure the Future

Roll grinding machines are the backbone of production across many industrial sectors – from steel processing to mechanical engineering and automotive supply. However, even the most robust machines reach their limits over time: spare parts become scarce, control systems become obsolete, and energy efficiency declines, while production demands continue to increase.

This is where revamping plays a key role – the comprehensive modernization and optimization of existing large-scale plants. During the design phase, our experts take into account not only our customers' requirements and expectations, but also the machine's actual performance data – ensuring an energy-efficient, low-maintenance, and service-friendly lifecycle.

From a holistic life cycle management perspective, modernization can be a compelling alternative to investing in a new machine. In such cases, core mechanical components, such as the machine bed and cast elements, are retained and upgraded with the latest technical and mechanical enhancements. The result is a machine that preserves its proven design while achieving the performance of a new system. Against this backdrop, our American customer SDI Butler, the third-largest sheet steel producer in the United States and a specialist in surface finishing, decided to modernize a total of seven WS 450 and WS 600 CNC Monolith™ roll grinders from Herkules at its steel mill in Columbus, Mississippi.
„Following SDI's acquisition of the mill, the existing machines for grinding work and back-up rolls were retained rather than replaced, as they continue to deliver outstanding performance and end-product quality on a solid and robust base frame – ideal conditions for upgrading them to the latest technological standard through revamping," explains Senior Sales Manager Tim Hiller.

„Revamping involves the complete technical modernization of an existing system without altering its fundamental design. This approach reduces costs, avoids long lead times for new equipment, and ensures the steel mill remains technologically future-proof."

The plan is to carry out the electrical modernization first, followed by the mechanical upgrade. "While the delivery time for a new machine is often several months, a revamping project can typically be completed within just a few weeks or months. Careful planning, pre-assembly of components, and parallel operations significantly reduce downtime. At a time when production flexibility and efficiency are critical, revamping is becoming one of the most important strategies for preparing systems for the decades ahead," explains Tim Hiller.

Maximum Efficiency Through Targeted Modernization

Revamping and modernization offer a unique combination of cost savings, increased performance and sustainability.

Your Benefits:

- Significantly increased productivity
- Extended service life of the machine
- Improved quality and process stability
- Reduced downtime and maintenance costs
- High availability and high investment protection

Find out more about the comprehensive range of services from Herkules:
herkules-machinetools.com/services/

Reliable Machines for Strong Steel Production

American Steel Manufacturer Relies on Consistent Quality and Proven Herkules Technology

For its new cold rolling mill for the production of Non-Grain-Oriented electrical steel (NGO), one of our long-standing U.S. customers deliberately chose to fully equip its roll shop with roll grinding machines, control systems, and measuring technology from Herkules.
The electrical steel produced there must meet the highest standards. This high-tech material is used wherever energy needs to be converted efficiently and reliably – in transformers, electric motors, and generators. Its unique properties result from a precisely coordinated production process in which every detail matters.

"Grinding Sendzimir rolls places particularly high demands on precision, process reliability, and reproducibility. Due to the very small roll diameters, even the slightest deviations in shape or dimensions have a direct impact on strip thickness and surface quality. At the same time, extremely tight tolerances and defined roughness values must be maintained, while grinding burn and surface defects must be avoided at all costs," explains Jared Jörgens, Business Development Manager NAFTA.

"The use of RFID technology in the grinding of Sendzimir rolls makes it easy to meet these stringent quality requirements. Each roll is uniquely identified by an RFID tag. When the roll is loaded into the machine, all relevant information – such as type, geometry, grinding history, and permissible material removal – is automatically retrieved. Based on this data, the machine selects the appropriate grinding program and sets all process parameters accordingly. This virtually eliminates operator errors and further mix-ups."

The roll shop will be equipped with a total of three roll grinding machines – two of the WS 250 Monolith™ type and one WS 450 Monolith™ combination machine. "The shop is controlled via our inhouse developed Modular Roll Shop System (MRS), which records and manages all processes," explains Jared Jörgens. "To ensure consistently high surface quality, the machines are also equipped with our C-frame measuring system, which captures measurement data and applies corrections in real time." Both WS 250 grinding machines are additionally equipped with Eddy Current testing and an automatic loader with a palletizing system. The WS 450 Monolith™ is further equipped with Ultrasonic testing, enabling optimal results and the immediate detection of defects and cracks not only on the surface, but also directly beneath it," adds Jared Jörgens.

„The WS 250 Monolith™ grinders were also equipped with a fully automatic steady rest. It supports the very slender work rolls with constant pressure during the grinding process, ensuring precise guidance. This is particularly important for stabilizing the rolls and preventing vibrations or oscillations that could affect machining quality."

All machines are designed and built directly at our production site in Ford City, PA, USA, and installed at the customer's site by our assembly specialists.

Technological Excellence for a Strong Position in Global Competition

The aluminum industry is one of the most important basic industries in the modern economy. The material impresses with its low weight, high corrosion resistance, good formability and virtually unlimited recyclability. These properties make it indispensable for numerous areas of application, including construction, automotive and mechanical engineering, the packaging industry and aerospace.

The unique combination of high-quality, durable machine components and state-of-the-art measuring technology makes Herkules roll grinding machines the ideal choice for the production of high-quality, high-precision aluminum products. This ensures efficient, resource-saving, and sustainable manufacturing – an expertise Herkules has perfected as an industry leader over decades.

Four Roll Grinding Machines for Saudi Arabian Customer

Maximum Precision. Superior Surface Quality. Outstanding Process Reliability.

Tahweel Metal Industry Saudi Limited Liability Company (TMIC) is a Saudi Arabian industrial company specializing in the production and processing of aluminum and metal products. To meet the high requirements for geometry and surface quality, as well as to ensure precise, reproducible, and cost-efficient grinding results, the customer relies on the experience, expertise, and quality of Herkules. As part of this, the new plant will be equipped with a total of four WS 450 Monolith™ roll grinding machines for grinding work, intermediate, and back-up rolls.
“Roll grinding machines used in aluminum and foil rolling mills are among the most precise and sophisticated machine tools available,” says Senior Sales and Project Manager Tobias Wurm. “What makes them unique is that they not only influence the quality of the rolls, but also play a decisive role in determining the quality of the end product. Even deviations in the micrometer or sub-micrometer range have a direct impact on the customer’s product.”

The machines are equipped with state-of-the-art measuring and inspection technology to meet the high requirements in terms of accuracy and homogeneous surfaces. „They record all relevant data such as roundness, profile and surface roughness, run on the fly during the grinding process and ensure perfect results that can be repeated and retrieved at any time using our advanced and intuitive control technology,“ explains Tobias Wurm.

„The robust machine design in combination with our patented Monolith™ sandwich construction reduces vibrations, ensures optimum thermal stability and guarantees homogeneous roll surfaces.“

Herkules is proud to contribute to this demanding project.

Maximum Precision and Homogeneous Surfaces

Major Czech Aluminum Manufacturer Relies on Herkules Roll Grinding Technology

Our long-standing customer AL INVEST Břidličná, a.s., one of the largest Czech aluminum producers and suppliers of sheet metal, packaging materials, and foils, has trusted in the expertise of our specialists and the quality and durability of our machines for decades – and has once again invested in a roll grinding machine.
The WS 450 S x 5,000 CNC Monolith™ will reliably and precisely grind the work and back-up rolls in the customer‘s mill with diameters of up to 1,100 mm and roll lengths of up to 5,000 mm. „Thanks to the patented Monolith™ technology, any vibrations that occur are optimally damped so that the high requirements for surface homogeneity and roughness of 0.1 to 1.6 µm are achieved,“ explains Senior Sales and Project Manager Tobias Wurm.

„The additional support of the workpieces via our combination steady rests reduces vibrations and deflections - for consistent dimensional accuracy, excellent surface quality and reproducible grinding results, even with long processing times and high stock removal rates.“

The state-of-the-art Herkules control and measuring technology enables results that are perfectly tailored to the customer‘s requirements and optimally adapted to the material and production conditions. „The machine will be equipped with our C-Frame measuring system for high-precision measurement of the roll as well as Eddy Current and Ultrasonic, detecting all changes in the structure and fatigue defects inside the roll on the fly. The data is then recorded, read out and saved via our user-friendly, intuitive KP 10 machine control system,“ Tobias Wurm continues.

The assembly of the machine on site is accompanied and monitored by our experienced experts. „This ensures that the installation is carried out professionally and that all technical specifications and quality standards are met,“ concludes Tobias Wurm.

Quality in Perfection

Precision and Excellence for Superior Battery Foil Production

China is playing an increasingly important role in the production of aluminum foil for battery manufacturing, especially for lithium-ion batteries in electric vehicles and energy storage systems. Due to the strong expansion of battery production and electromobility, the demand for high-precision aluminum foil production is rapidly growing.

Rolling battery foil requires flawless surfaces. Even the slightest scratches or imperfections in the carrier foil can lead to serious defects in the finished cell – and consequently to costly rejects. “In battery foil production, roll surfaces must meet a wide range of demanding requirements without compromise. These depend on various factors, such as the material type, coating, and desired properties of the foil,” explains Senior Sales Manager Ralf Klews. “To ensure a reliable bond between the carrier foil and the electrode material without delamination, a highly homogeneous surface is required across the entire width. This applies to surface topography, including roughness, structure, elasticity, and temperature resistance. In addition, the roll surface must withstand various chemical influences and therefore provide a certain level of corrosion resistance, depending on the coating processes used. The final coated film should be as thin as possible.”
To meet these highly demanding quality standards, our Chinese customer Henan Fujin New Materials Co. has once again chosen a Herkules roll grinding machine, type WS 450 L × 4500 CNC Monolith™, for grinding its work rolls. The machine is capable of processing rolls with diameters of up to 430 mm and a maximum weight of 3 t.

State-of-the-Art Roll Grinding Technology for the Highest Demands

Precise grinding forces are essential in the production of high-quality aluminum foil to ensure a uniform thickness. Continuous quality control is equally important to prevent surface defects and maintain the required mechanical properties of the foil.
„Precise and flawless surfaces are a must for our customers so that the end product can be optimally processed,“ explains Senior Sales Manager Ralf Klews. In order to achieve the tight tolerances required and produce the homogeneous surfaces, Chinalco Aluminium Foil (Yunnan) Co., Ltd. has once again opted for the market leader, as they did in 2008, and is purchasing a total of three roll grinding machines, two WS 450 L x 4500 CNC Monolith™ and one WS 450 KL x 5000 CNC Monolith™, for its foil rolling mill in Yunnan. The machines will grind work and intermediate rolls with diameters from 230 mm to 750 mm and weights between one and ten tons.

Herkules Innovation – Setting Standards in Precision and Technology

The HQ 5 Roll Hardness Measuring System

The hardness profile of a roll is a key characteristic, playing a decisive role in both the quality of the end product and the service life of the roll itself.

If the hardness is insufficient, particularly in the center of the roll, handling damage such as star cracking and out-of-roundness may occur. Conversely, if the roll is too hard, sagging and chipping can result. It is therefore essential to determine the optimum average hardness in order to prevent damage to the roll material.

In an interview with our expert from HCC/KPM – the HerkulesGroup specialist team when it comes to state-of-the-art measuring and testing systems - Graduate Engineer Harald Kraft, Senior Director Electronics at Maschinenfabrik Herkules, presents the innovative, fully automatic, non-contact and therefore non-destructive HQ 5 hardness measuring system.

> The benefits for our customers are clear: wear is reduced and a consistently homogeneous surface is achieved. This also translates into a direct cost advantage, as roll service life is significantly extended and process reliability is ensured.
>
> Graduate Engineer Harald Kraft,
> Senior Director Electronics at Maschinenfabrik Herkules

Mr. Kraft, which hardness measurement methods are typically used for roll barrels?

Measuring devices based on the Leeb method are most frequently used in mills and shops. The functional principle is as follows: An impact body strikes the roll surface with a defined energy. The ratio of impact speed to rebound speed is then measured. The resulting energy loss is used to calculate the hardness of the roll. The problem with this measuring method is that small indentations always occur on the roll, meaning that the surface is damaged at the points where the impact body strikes. Our measuring process, on the other hand, is non-contact and therefore completely non-destructive and is integrated into our KP 10 control system and takes place during the grinding process – we are therefore talking about an absolute innovation in the field of hardness measurement.

How does our process differ from that of the competition?

In our measuring method, we use Barkhausen noise. This is a magnetic noise that is used to non-destructively assess the material properties of ferromagnetic materials. This highly sensitive method for testing the quality and condition of rolls is an absolute novelty on the market, as it increases operational reliability and reduces costs over the entire life cycle of the roll.

How does the measuring principle work?

We use a core that is wrapped in a coil. This U-shaped iron generates an alternating magnetic field, which orients the micromagnets in the roll surface in a common direction. This is how Barkhausen noise is generated. The greater the noise, the softer the material. The raw values determined by our system are converted into absolute hardness values by means of calibration.

Why did we choose QASS as our partner?

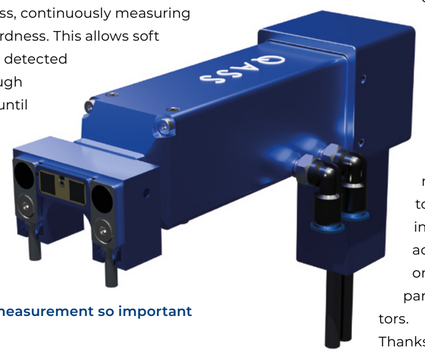
It was a long and thorough research to find a partner that not only offers this measuring method, but can also implement it with us in such a way that it meets the requirements of Industry 4.0 with regard to intelligent networking of machines and sensors. We are now mapping this special measurement process for our customers in a data-based and transparent way.

Were there any technical challenges during development – and how were they solved?

A key factor is the design of the measuring head. We tested several designs on different test rolls at our production site in Ford City, USA. Measurements were then carried out on our test stand to check where modifications needed to be made. We discovered that the amplifier that induces the signal into the roll must be significantly stronger than we had previously assumed. Accordingly, the measuring head and amplifier were revised and optimized so that a flawless and carefully calibrated signal is transmitted to deliver reliable results.

Is the HQ 5 hardness measurement system a separately running system or does it run on the fly?

The measurement process runs in parallel with the grinding process, continuously measuring and monitoring hardness. This allows soft or hard spots to be detected and removed through targeted grinding until the deviations are eliminated and a uniformly ground surface with consistent hardness is achieved.



Why is hardness measurement so important for rolls?

Rolls are the most important tool in the mill as they directly determine the forming parameters, quality and process stability. The hardness directly influences the wear behavior, service life and product quality of the roll. Hardness measurement is therefore a crucial process.
Insufficient hardness leads to increased wear and shape deviations, while excessive or inhomogeneous hardness increases the risk of cracks, chipping, and surface damage. Until now, operators have largely had to rely on assumptions regarding sufficient hardness or make do with isolated, manual measurements – without access to precise data or reliable insights. As a result, the actual hardness remains one of the last unresolved parameters for mill operators.
Thanks to our optimized HQ 5 hardness testing system, developed in collaboration with QASS, our customers can now access all relevant roll parameters – providing greater transparency, deeper insights, and comprehensive data.

How does our system document the measurement results so that they are traceable and auditable?

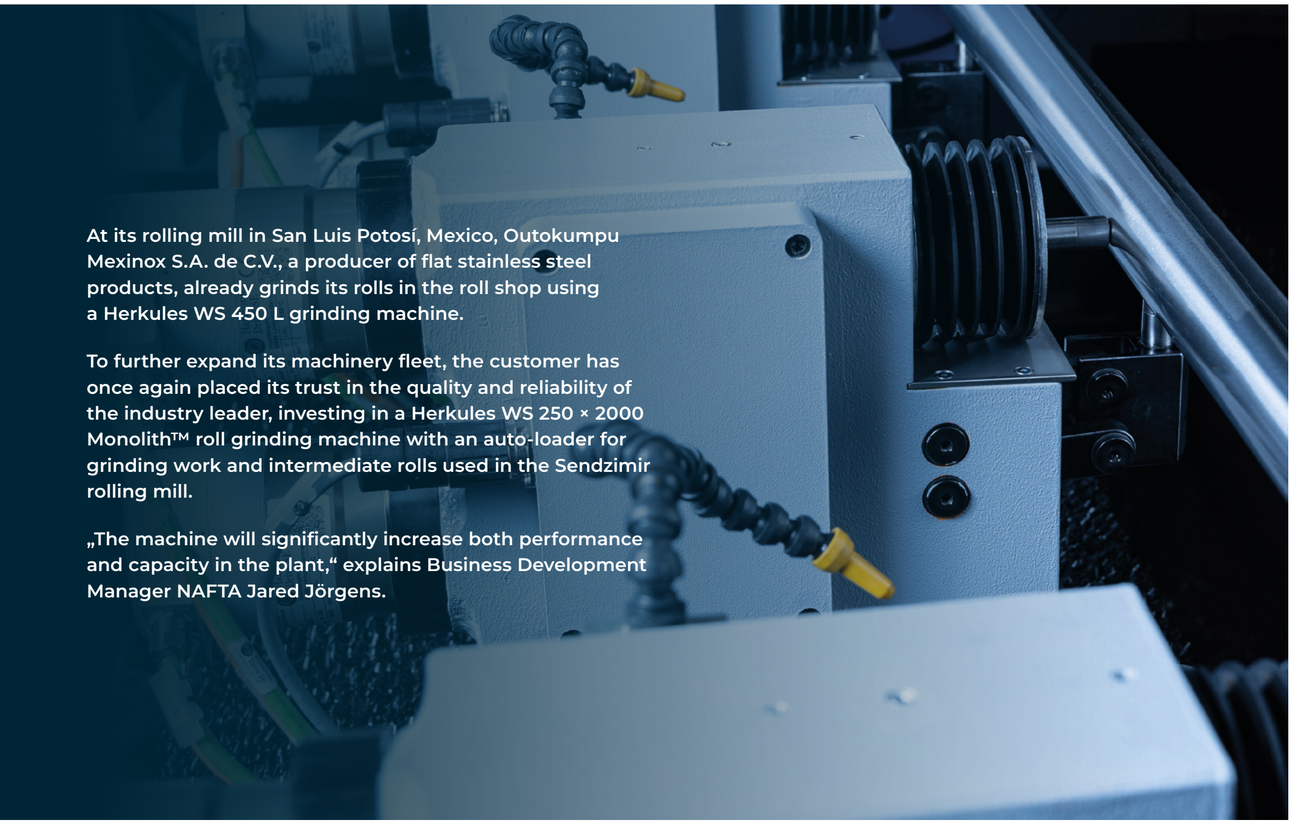
Thanks to our inhouse developed KP 10 roll grinding machine control, which stores hardness measurement data in chronological order after each pass and makes it available at any time, all measured values are fully recorded and traceable. This provides the user with a complete history of all measurements taken during the grinding process, as well as all data recorded prior to grinding.

Thank you very much.

Revolutionary hardness testing using micromagnetic technology. More information:

Maximum Performance for Perfect Results

Precision Grinding of Sendzimir Rolls at the Highest Level



At its rolling mill in San Luis Potosí, Mexico, Outokumpu Mexinox S.A. de C.V., a producer of flat stainless steel products, already grinds its rolls in the roll shop using a Herkules WS 450 L grinding machine.

To further expand its machinery fleet, the customer has once again placed its trust in the quality and reliability of the industry leader, investing in a Herkules WS 250 × 2000 Monolith™ roll grinding machine with an auto-loader for grinding work and intermediate rolls used in the Sendzimir rolling mill.

„The machine will significantly increase both performance and capacity in the plant," explains Business Development Manager NAFTA Jared Jörgens.

"The roll shop is the central area where rolls are prepared for production, serviced, and maintained – operating around the clock. To ensure correct and safe loading of the grinding machine, the loader is fully automatically controlled via our inhouse developed KP 10 machine control system. Loading is carried out unmanned, significantly enhancing both safety and efficiency in the roll shop," adds Jared Jörgens.

The mill stands are equipped with very small, particularly slim Sendzimir work rolls, whose unique arrangement allows the stand to resist enormous forces without deformation. This design enables exceptional precision and is essential for achieving outstanding flatness and surface quality in the production of high-precision end products. To meet these requirements, the roll grinding machine is equipped with high-precision measuring systems from HCC/KPM. The C-Frame covers the range from the smallest to the largest roll diameter with the same outstanding accuracy. Featuring the C-Probe, the measuring system captures three measurement points to accurately determine the roll's actual alignment both vertically and horizontally.

"To counteract the deflection of particularly slender rolls, the machine is also equipped with our fully automatic single-point steady rest," says Jared Jörgens. "It supports the workpiece during the grinding process, ensuring precise guidance and stability."

It is mounted exactly opposite the grinding wheel. This position guarantees direct compensation of the grinding forces over the entire length of the roll."

Built on Herkules' patented sandwich design, the Monolith™ machine bed minimizes vibrations and ensures consistently homogeneous roll surfaces. Its inherently rigid construction also offers excellent thermal stability, eliminating the need for an additional vibration-insulating foundation.

Perfection Throughout the Entire Grinding Process

Sofia Med S.A. Once Again Relies on State-of-the-Art Roll Grinding Solutions

Sofia Med S.A. produces a wide range of rolled and extruded copper products as well as copper alloys, serving a variety of industries and applications. The customer has trusted in the reliability, quality, and expertise of Herkules for many years and has once again chosen the global market leader.

The WS 450 L × 4,500 CNC Monolith™ is equipped with the latest and most advanced measuring and testing systems from Herkules. "High-performance roll grinding machines are of central importance for copper sheet manufacturers, as the quality of the rolls directly determines the quality of the end product," explains Senior Sales and Project Manager Tobias Wurm. "Precisely ground rolls ensure tight tolerances, a uniform strip surface, and stable strip guidance – all of which are essential for producing high-quality copper sheets.

Our roll grinding machines enable reproducible shape accuracy, exact concentricity and defined surface roughness, which reduces rejects and minimizes rework.

At the same time, they increase process reliability, extend the service life of the work and intermediate rolls and make a significant contribution to the cost-effectiveness and competitiveness of the entire cold rolling process."

The machine is equipped with our inhouse developed C-frame measuring system as well as the high-precision Roll Surface Inspection System (RSIS), including roughness measurement. "During post-processing, the RSIS detects machining defects such as chatter marks, feed marks, commas, clouding, and similar surface irregularities," explains Tobias Wurm.

The patented sandwich design of our Monolith™ technology effectively dampens any vibrations that occur. In addition, its inherently rigid construction is thermally stable and does not require a foundation – a key prerequisite for achieving perfect surface homogeneity with every pass.

The travelling single-point steady rest provides additional stabilization of the roll. "Its key advantage is that the grinding wheel's contact pressure is counterbalanced by the steady rest on the opposite side, ensuring consistently uniform pressure conditions along the entire length of the roll. The steady rest is automatically controlled via the machine control to achieve the desired geometry and surface finish, while maintaining consistent conditions throughout the entire grinding process."

Delivering Quality. Ensuring Success.

Efficient Machines for High-Precision Results

Officine Meccaniche Odolesi S.p.A. (O.M.O. S.p.A.) has relied on groove grinders from Maschinenfabrik Herkules for almost a decade. Several machines have already been successfully commissioned and are in continuous operation in daily production. Based on these consistently positive experiences, the company has decided to further expand its machinery fleet with an HS 3 LT × 2000 CNC.

The purchase decision is primarily based on a long-standing and trusted partnership. The groove grinders in use have repeatedly proven their performance in daily operation through their precision, stability, and process reliability. The expansion is therefore a logical continuation of this successful collaboration. “The HS 3 LT × 2000 CNC enables the machining of rolls and roll rings with diameters ranging from 40 mm to 500 mm, lengths of up to 2,000 mm, and weights of up to 2 t. It is designed for both deep grinding and contour grinding, offering maximum form accuracy and excellent surface quality. Thanks to its high rigidity and robust design, it is particularly well suited for efficient plunge grinding,” explains Sales Engineer Marius Jung.

“The combination of high cutting performance, excellent damping, and a stable machine structure ensures precise results and smooth, low-vibration operation – even when machining very hard surfaces. The consistently high precision in roundness, surface quality, and contour accuracy highlights the performance of our technology and reinforces the trust placed in our expertise by a long-standing customer.”

With the new HS 3 LT × 2000 CNC, O.M.O. S.p.A. is expanding its machining capacity while maintaining its proven process quality.

herkules-machinetools.com

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