

PART LEVELING MACHINE

PRODUCES SUPERIOR QUALITY IN STAINLESS STEEL PROCESSING

KOHLER Maschinenbau GmbH supplied a Peak Performer part leveling machine to a customer in Spenge, North Rhine-Westphalia /Germany. With the purchase of the Peak Performer MODERSOHN® Stainless Steel expands its machine park and increases its manufacturing capacity.

Wilhelm Modersohn GmbH & Co. KG has a number of worldwide notable renowned reference projects, including notable works such as the restoration of the Berlin Palace or the reconstruction of the Dresden Frauenkirche. In Berlin, for example, MODERSOHN® custom support bracket anchors made from high-quality stainless steel were used to secure the natural stone facade elements, some of which are incredibly heavy, to the structure.

Second-generation pioneers of fixing systems

Wilhelm Modersohn GmbH & Co. KG from Spenge in North Rhine-Westphalia is the last family-run business in this market. The company is one of the largest manufacturers and suppliers of custom and heavy duty fixing systems for masonry and concrete facades in Germany. Founded in 1970 by Wilhelm Modersohn Snr., the company is now run by the next generation, Wilhelm Modersohn Jr., together with Jürgen Matzelle. Having helped to pioneer developments in stainless steel and high-strength Lean Duplex steels, MODERSOHN® occupies an outstanding market position today.

Stainless steel impresses with its longevity, durability, and high strength. MODERSOHN® processes stainless steel using machines that deliver precisely what the customer has requested, and which are operated by its excellently trained workforce of 125 people. In order to optimize manufacturing processes even further, the company has now invested in new, more efficient and energy-saving machines and systems.



CEO of the leading stainless steel specialist, Wilhelm Modersohn, recognizes the increase in the quality of his precisely leveled products

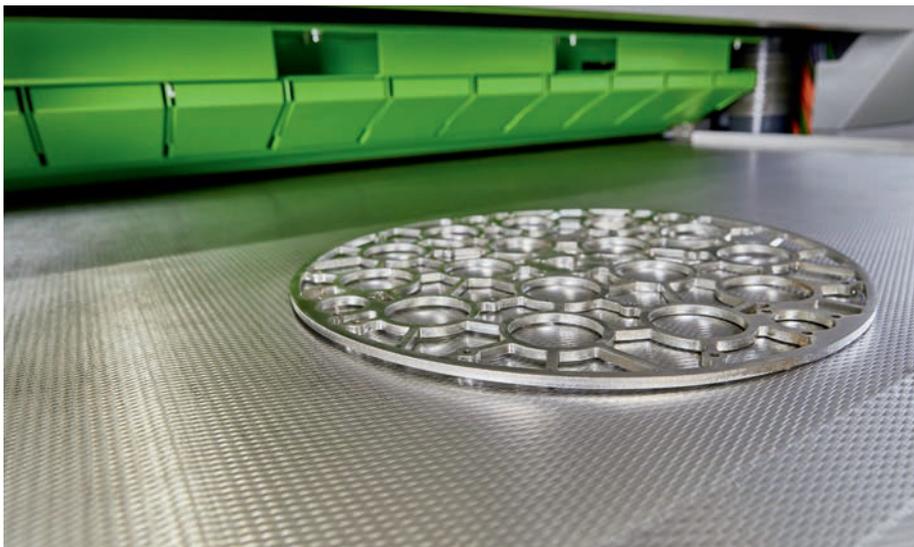
Peak Performer part leveling machine optimizes the manufacturing process

One of the company's most significant investments of 2018 is the 50P.1600 Peak Performer part leveling machine from KOHLER in Lahr / Germany. MODERSOHN® uses the machine to level and reduce tension of both simple and complex parts, blanks, and entire metal sheets up to a material width of 1,600 mm and a material thickness of 0.6 to 16 mm with incredibly high precision and in a wide variety of batch sizes. The materials to be

leveled range from pre-processed sheets, such as perforated sheet metal, or blanks from the water jet line or the laser cutting line.

Some of the sheets leveled by the machine will also undergo additional manufacturing processes, such as edging or welding. Leveling these workpieces reduces the tension in the sheet to a minimum – which has the significant advantage of making subsequent manual





Going forwards, MODERSOHN® will use the KOHLER part leveling machine to level parts for a water treatment system from Xylem

leveling unnecessary, thus increasing productivity while also improving quality. This puts the stainless steel specialist in an even better position to meet the discerning quality expectations of their customers.

” Using the Peak Performer part leveling machine allows us to provide our customers with products of the highest quality.”

Wilhelm Modersohn Jnr, CEO,
Modersohn GmbH & Co. KG

The punctual delivery and straightforward commissioning of the Peak Performer in Spenge was preceded by a comprehensive consultation phase, during which KOHLER ascertained MODERSOHN®'s individual requirements for processing stainless steel. In addition, Wilhelm Modersohn visited the KOHLER leveling center in Lahr, where he witnessed the benefits of the machines first-hand during leveling trials. MODERSOHN®'s decision to buy a part leveling machine from KOHLER was motivated by the pioneering technology and the excellent price-performance ratio.

Persuasive arguments: cleaning system, turnable leveling rollers, and intuitive user interface

As well as producing incredibly precise leveling results and being straightforward and simple to operate, the Peak Performer ordered by MODERSOHN® Stainless Steel from KOHLER also has notable features such as a combined electric motor-driven cleaning system for leveling rollers and supporting rollers. The upper and lower leveling cassettes can be completely removed from the machine independently of each other, allowing the machine operator to carry out inspections and cleaning tasks quickly and easily, saving time and money.

An important advantage of the Peak Performer part leveling machine for MODERSOHN® is the turnable leveling rollers. They significantly increase the service life of the leveling rollers when leveling narrow parts on machines with comparably large processing widths. In addition, the special arrangement of the supporting rollers displaces the point load on the leveling rollers once they have been turned. This also helps to increase the service life of the leveling rollers.

The intuitive user interface makes material-specific adjustment of the part leveling machine much quicker. A modern multifinger touch display allows the machine operator to save the selected settings and call them up again as required.

Sascha Berg, production manager in Spenge, summarizes his positive experiences of working with the Peak Performer: “Operating the part leveling machine is easy,



Increased precision and quality: parts of a water treatment system from Xylem. Left: Before leveling. Right: After leveling



Bottom: An un-leveled plate of the MOSO® individual support bracket, system product of the facade fastenings for masonry. Top: The same product after being processed by the Peak Performer part leveling machine



The results speak for themselves. A precisely leveled plate of the MOSO® individual support bracket, system product of the facade fastenings for masonry

which increases safety as well as our productivity. The advanced cleaning system allows removing the leveling cassette all the way out of the machine in order to clean the leveling and supporting rollers, which saves us time and money during operation.”

Precision and innovation

MODERSOHN® customers in the plant and mechanical engineering sector, the environmental engineering sector, and architects and planners from the construction and civil engineering sector rely on the precision and long-lasting, reliable durability of MODERSOHN® products. The leading stainless steel specialist meets these expectations by only using high-quality materials alongside a powerful and innovative machine park. By investing in the Peak Performer part leveling machine manufactured and supplied by KOHLER, MODERSOHN® have gained a significant advantage over their competition at a key point in the manufacturing process. ■