2017 CHIP

RÖSLER® finding a better way ...

News from the surface technology

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Editorial

Stephan Rösler

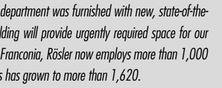
President & CEO of the
Rösler Oberflächentechnik GmbH

Well-positioned for the future!

Growing a business requires continuous adaptation to changing market conditions. This past year was the starting point for a cultural change within our own organization. By formulating our vision to become the world's best, customer oriented company in the field of surface treatment, we have clearly placed our focus on long-term, sustainable business development over short-term profit maximization. Our guiding motto „Finding a better way…" is a commitment to work closely with our customers in order to develop the optimum surface treatment solution for their work pieces. In a comprehensive survey we wanted to find out, how you, our customers, rate our performance. You will find the results next door.

We are pleased to report that the business year 2016/2017 represents a continuation of the positive development seen over the previous year. By year-end on March 31, 2017 we expect a total sales volume of 260 million Euro. To further expand our strong market position we have made considerable investments. In March construction began on our new plastic media production plant, representing a capital investment of 7 million Euro. This will ensure that we can continue to meet drastically increasing demands, while maintaining our short lead times and the best product quality. In addition, our CNC department was furnished with new, state-of-the-art equipment and a new 320 m² office building will provide urgently required space for our growing staff. At the two German locations in Franconia, Rösler now employs more than 1,000 people. Globally the number of our employees has grown to more than 1,620.

Last but not least, I also want to mention the newly created Rösler Academy, which in the near future will offer a comprehensive training program for our customers. Specifically for this program, we created new training and conference rooms at our location in Untermerzbach. A list of available training seminars will be available by May 2017. We look forward to inspiring you. I hope you will enjoy reading our latest CHIP magazine!



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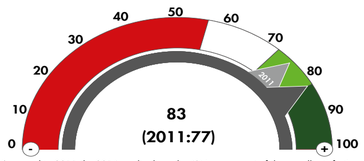
Customer satisfaction survey 2016

With this survey we wanted to find out how satisfied Rösler customers are with our mass finishing and shot blast divisions. The survey was also intended to help us identify areas for further improvement and optimization of our customer relations and to gain insights into our business relationships in the after-sales market. We wish to express our special thanks to the more than 400 business partners who participated in this survey.

Rösler, the full line supplier and global market leader in the fields of shot blast and mass finishing equipment as well as the respective consumables, has made a firm commitment to Germany as its main manufacturing location. We intend to consolidate and expand Rösler's leading position in our fields of expertise. Key to our long-term success is maximizing customer satisfaction. That is why in 2011 Voccon – a renowned, independent market research and consulting firm from Gröbenzell/Munich – conducted our first customer satisfaction survey, which at that time, resulted in various customer-focused measures by our company. To analyze and review their impact and to identify further areas of improvement in our customer relations, in fall

„Trouble-free operation of the machine."

of 2016 we decided to carry out another poll. More than 400 of our business partners from all management levels participated in the phone survey. We wish to express our thanks to all of you for your kind cooperation!



Compared to 2011 the 2016 results showed a 6% improvement of the overall satisfaction index.

We were pleased to learn that the high customer satisfaction rate of 77% reported in 2011 could be further improved by six percentage points to 83%. This gratifying result is clearly a confirmation of our customer oriented, long-term business philosophy.

Regarding our positioning in the market, practically all survey participants gave Rösler a higher rating in nearly all business phases compared to competition. Especially on-time product deliveries and commissioning were rated

„On time, pleasant, reliable, everything fits."

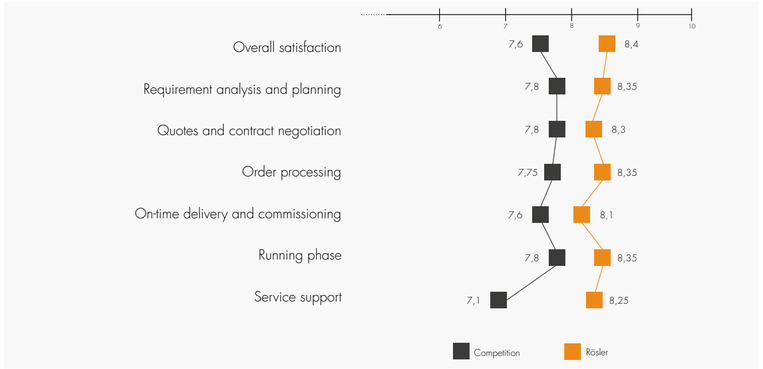
considerably higher. But it was the after sales support by Rösler that received the highest mark. Please be assured of our firm commitment to you, to remain your competent and loyal partner. Innovative, high quality products and absolute reliability in our business relationships will remain our core motivation.

„Highly professional and high quality."

We wish to thank you for your confidence and support!

Yours truly,

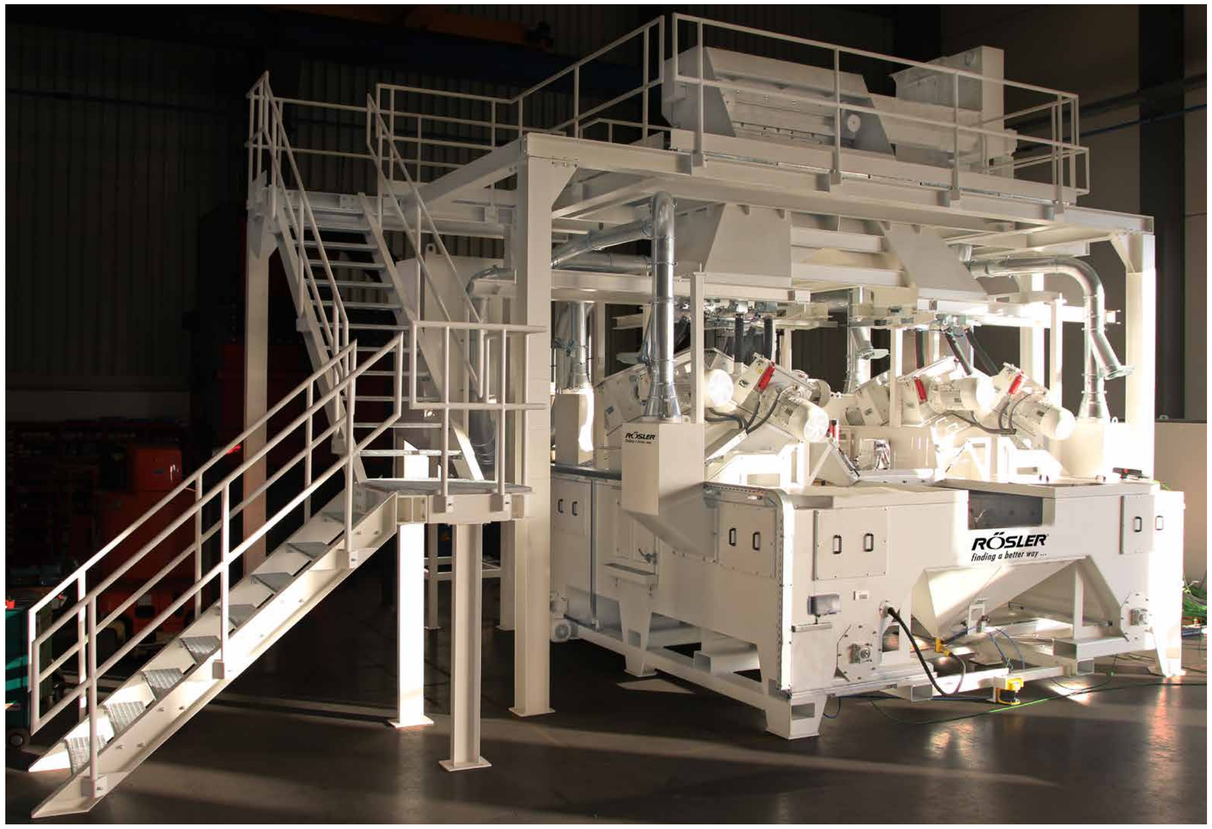
Stephan Rösler



Direct comparison to the competition regarding customer satisfaction for the various business phases (Average results on a scale from 1 - 10).

Designed for the future - state-of-the-art shot blast system for descaling of crankshafts

For thyssenkrupp Gerlach GmbH, Rösler developed an innovative shot blast system for the cleaning of crankshafts in continuous feed mode, with cycle times of 7.5 seconds. This sophisticated blast cleaning solution shines not only with its high productivity but also its easy adaptation to future new crankshaft designs.

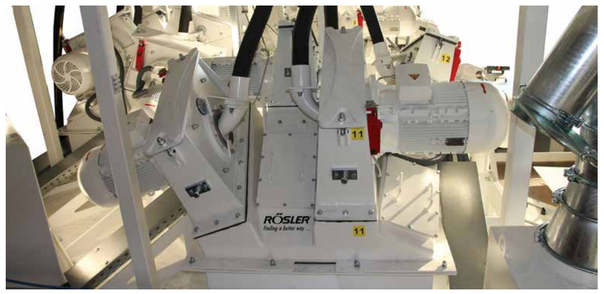


The circular design of the crankshaft blast cleaning machine incorporates three blast chambers. The large maintenance platform allows for easy and quick access to all service points.

With numerous international locations for its forging & machining business unit, thyssenkrupp Gerlach GmbH, headquartered in Homburg, Germany, is the global leader in the field of forged crankshafts. The plant in Homburg manufactures around 6 million crankshafts per year for a wide spectrum of different engines. When increased production volumes and the expansion of the product portfolio required investing in a new shot blast machine, the customer eventually chose a custom engineered RKWS 3/4 system from Rösler. Integration of the machine into an existing building with a very tight available space required placing the dust collector into a protected external area at a distance of about 40 meters (130 ft.) from the shot blast machine.

Continuous shot blasting in three chambers

With a diameter of about three meters (10 ft.) the circular design of the machine incorporates three separate blast chambers and does not require a foundation pit. In the first chamber two crankshafts are processed simultaneously, before and after a blast cycle of 7.5 seconds, getting transferred into the next chamber. Robots handle the loading and unloading of the work pieces. After one handling system has removed one set of blast-cleaned crankshafts, a second handling system places a set of raw parts into the specially designed work piece fixture. This is designed for work piece lengths of 300 – 500 mm (12 – 20") and weights between 6.5 and 18 kg (14 – 40 lbs.). A quick connect system with disks allows for quick adaptation to different crankshaft types.



Each of the three blast chambers is equipped with four Gamma G turbines with an installed power of 22 kW each. The turbine location and positioning, which is determined by a computer simulation, guarantees perfect, all-around blast cleaning of the different types of crankshafts.

High intensity allows for quick achievement of SA 3 surface conditions

Each blast chamber is equipped with four Gamma 400 G turbines, featuring a "Y" design with an installed power of 22 kW each. Compared to conventional blast wheels this innovative high performance turbine produces up to 20% better blast cleaning results with considerably lower energy consumption. The special "Y" design of the throwing blades allows for the use of both blade sides, before they have to be replaced. With a clever quick-change system the blades can be replaced quickly without having to dis-assemble the turbine housing. The result: Much higher uptimes and drastically reduced maintenance costs!

To achieve an optimum blast pattern, the location and positioning of the turbines was determined by a computer simulation. This, combined with a high blast media throughput of 290 kg/minute (640 lbs.) per turbine, guarantees all-around blast cleaning results of SA 3, all of which occurred within the required cycle time of 7.5 seconds. Innovative magnetic seals prevent blast media from leaking out to the shop floor.

Optimum wear protection and easy maintenance

The wear protection of the RKWS 3/4 was specifically designed for its high blast media throughput. All three blast chambers are made from wear resistant manganese steel. Furthermore, critical areas which are directly exposed to the blast stream are protected with easy-to-replace protective manganese steel plates. The automatic media cleaning and replenishment system was also designed to cope with the exceptionally high media throughput.

Special attention was paid to maintaining high system uptimes and facilitating easy maintenance of the machine operating 24/7. To achieve this, a large maintenance platform was built allowing easy access to all service points, in addition to a special dismounting device which allows for easy and quick removal of the turbines for maintenance.

Innovation

Please scan the QR-Code to get contact details for Mr. Andreas Miener.

Fully automatic blast cleaning of large structural steel weldments

The Turkish structural steel fabricator, Gülermak, invested in three Rösler shot blast systems for their new manufacturing plant. The machines purchased include two roller conveyor machines and a special RRBK 42/16 L unit. The roller conveyor machines are used for treating steel plates, beams and girders, while the RRBK 42/16 L is used for automated blast cleaning of finished welding assemblies with dimensions of 1,600 x 4,000 x 16,000 mm (H x W x L).

The large RRBK 42/16 L shot blast machine for welding assemblies is equipped with 14 high-performance blast turbines. Their optimum position around the blast chamber ensures perfect blast cleaning results irrespective of the complexity of the shape of the steel weldments.

The production range of Gülermak includes any kind of mechanical equipment such as rotors, spiral cases, head covers, crushers and more for the hydro business. Additionally the structural steel fabricator that is among the largest in Turkey, manufactures welding constructions for high-rise buildings, parking garages, bridges, tunnels, power plants, shipbuilding and railway construction, which must meet stringent technical specifications. Prior to welding and painting, shot blasting plays a key role within the value-added chain. For this important task Gülermak, one of the largest steel fabricators in Turkey, issued an invitation to quote for suitable shot blast equipment for its new plant in Izmir. Being that the new plant was located along the Aegean Sea, the company was not only able to expand its overall capacity but was also able to establish a direct connection for sea transport. Even though they have been using shot blasting equipment from other suppliers at their main plant in Ankara, Gülermak decided to purchase the equipment for their new plant from Rösler. The main reasons for the customer's decision were the technical concept, high quality, exceptional performance and ease of maintenance of the equipment from Untermerzbach, resulting in excellent operational efficiency.

Parallel blast cleaning with two roller conveyor blast machines

The customer processes about 21,000 tons of steel every month. To ensure a smooth workflow for this high production volume during the subsequent welding operation, the blast cleaning (rust removal and descaling) of the steel plates, beams and girders is handled by two identical RRB 27/6 L roller conveyor shot blast machines, working side by side. The pair of machines can handle work pieces with dimensions of up to 16,000 x 2,500 x 600 mm (L x W x H) corresponding to about 640 x 100 x 24". Each machine is equipped with six blast turbines, type Gamma 400 G.

Automatic blast cleaning of large welding assemblies increases process stability

The main plant in Ankara is using a shot blast system that only allows cleaning of the welding seams on complete weldments with a maximum width of 3,000 mm (120"). For wider welding assemblies the seams must be treated manually. To eliminate this bottleneck for the new plant, the company purchased a special RRBK 42/16 L blast system for the blast cleaning of welding assemblies 4,000 mm wide, 1,600 mm high and 16,000 mm long (160 x 64 x 640"). This is one of the largest shot blast systems for steel fabrications ever built by Rösler. It allows for the automatic blast cleaning of practically all weldments made by Gülermak, which not only increases the overall productivity but also ensures a high degree of process stability. The maximum weight over the entire length of the work pieces amounts to 2 tons (4,400 lbs.) per running meter. For short, heavier components which are fed into the system separately, the transport system was re-enforced to accommodate 3 tons (6,600 lbs.) per running meter within a section of 3 meters (10 ft.), in front and behind the blast chamber.

Turbine positioning guarantees optimum blast cleaning results.

To achieve optimum results for all steel fabrications, irrespective of their shape, the blast machine is equipped with 14 Gamma 400 G blast turbines with a drive power of 15 kW each. To ensure that components with complex geometries can be blasted in one single pass, a combination of high blast performance, low energy consumption, a blast media flow of 200 kg (440 lbs.) per turbine, and optimum turbine positioning (determined by computer simulation and proven in real life tests) is required. The variable transport speed allows quick adaptation to the respective work piece geometries. The special Y design of the forged and heat-treated throwing blades in Rösler high performance turbines, allows for the utilization of both blade sides. This helps to more than double the blade uptime compared to traditional blast turbines.

High equipment uptimes and easy maintenance

In addition to the state of the art turbines, the blast chamber, made from wear resistant manganese steel and lined with easy to replace manganese wear plates, contributes to achieving exceptionally high equipment uptime. Of course, the blast media transport and cleaning system is designed to handle the large media throughput. To save space the dust collectors were placed on top of the individual shot blast machines. All equipment components requiring regular service can be easily reached from the outside, respectively through an inspection platform. This ensures that any maintenance work can be done quickly.

Please scan the QR-Code to get contact details for Mr. Ronny Paasche.

Fully equipped standard shot blast machine offers a high degree of cost efficiency and flexibility

Please scan the QR-Code to get contact details for Mr. Johannes Lindner.

Rösler introduces the RHBE 13/18 spinner hanger shot blast machine, which offers economical operation, even with relatively low production volumes. Rösler is able to offer this machine at a competitive price without making any compromises in regards to technical features and operational flexibility.

Shot blasting applications like surface cleaning, descaling, derusting or paint preparation, are indispensable stages in many manufacturing processes and can have a significant impact on the final quality of a product. Rather than depending on external job shops, many manufacturers have started investing in shot blast machinery even though the equipment will not be fully utilized. The benefit is greater flexibility of their production operations, reduction in transport costs and optimization of their value added chain. Rösler specifically developed the new RHBE 13/18 spinner hanger shot blast machine for these types of manufacturers. This new, fully equipped modular system – built according to Rösler's proven quality standards through a global manufacturing network – offers many technical features at a very competitive price.

The standard equipment of the RHBE 13/18 includes two energy efficient Gamma 300 G turbines and a blast chamber made from manganese steel. For additional wear protection, in areas directly exposed to the blast stream, the blast chamber is lined with replaceable manganese steel wear plates.

Excellent quality paired with operational flexibility

The RHBE 13/18, designed for work pieces with heights of up to 1,800 mm (6 ft.) and diameters of up to 1,300 mm (4.3 ft.), can handle a broad spectrum of different parts. The standard design features two blast turbines but the customers can choose between different turbine types, including the innovative Gamma 300 G. This universally usable turbine, which can also be installed in existing shot blast equipment, combines high productivity with excellent cost efficiency. Because of the curved design of its throwing blades the Gamma 300 G is incredibly energy efficient, while being considerably more productive than conventional blast turbines. This efficiency allows for utilization of lower drive powers, for example 7.5 kW instead of 11 kW and once the throwing blades are worn on one side, they can be simply turned around for use of the other side. This produces considerably longer blade uptimes and results in significant savings in maintenance time and spare part costs.

The new spinner hanger machine also scores big points with regard to wear protection. The blast chamber is made from manganese steel and in areas exposed to the blast stream is equipped with easily replaceable manganese steel wear plates. When designing the RHBE 13/18, Rösler's engineers made sure that all major blast media could be used. For example, unlike many other standard shot blast machines, the new Rösler spinner hanger machine can be run with grit or a mix of grit and round shot. And whenever necessary, the blast media can be easily and quickly replaced with another media type.

Of course, the new machine is also equipped with a sizable media cleaning and recycling system, a matching dust collector system and Siemens controls. And despite the compact design, all machine components requiring maintenance are easily accessible.

Rösler did not stop with the redesign of the spinner hanger shot blast machines but is also working on similar technical improvements for batch tumble belt and rotary table shot blast machines.

Different machine options and the possibility to use all major shot blast media allow running a wide spectrum of different work pieces in the newly designed, modular RHBE 13/18 spinner hanger shot blast machine.

Modular RWT shot peening system - maximum process stability and high cost efficiency

For transmission components like gears and shafts, shot peening has become an indispensable step in the overall manufacturing process. With this in mind, Rösler developed the RWT swing table machine, featuring a modular equipment concept that can be easily adapted to different technical requirements and offers maximum process stability paired with repeatable peening results and high cost efficiency. Among being used by numerous customers, the RWT is also successfully running at an Asian automotive supplier.

As part of a capacity expansion project for minivan transmissions, which increased capacity to 40,000 units per year, this customer decided to carry out the required shot peening operation in-house instead of subcontracting it to an external job shop. The specifications called for a system that can handle approximately 560,000 single work pieces per year. The work pieces consist of 15 different types of gears and shafts, for which peening programs had to be developed for. Tight control of the entire peening process was required by the customer, which led them to choose the Rösler RWT 13/4 S shot peening system, for fully automatic processing of gears and shafts with diameters of 300 mm (12"), heights of 500 mm (20") and weights of up to 25 kg. The pressure blast system includes a table with two 180° segments, each equipped with two satellite stations. This concept allows processing of two parts in one segment, while another pair of parts can be loaded/unloaded in the other segment. Since some work pieces are already completely finished, special wear resistant masking had to be integrated into the work piece fixtures to protect the finished surface areas. For complete coverage of the work pieces the RWT is equipped with four blast nozzles – two for vertical and two for vertical movement.

The nozzles can be moved vertically, horizontally and can be pivoted at an angle from 0 to 90°. This guarantees complete coverage of all work piece surface areas. The high efficiency of the pressure blast system results in significant savings in compressed air consumption.

A concept that can be easily adapted to specific customer requirements

Rösler conducted a detailed study of current and future requirements for manufacturing of automotive transmissions, which led to the modular concept of the swing table design. Based on this study numerous equipment components could be standardized and design improvements could be implemented. This includes the blast chamber, which compared to other peening systems on the market, contains considerably more wear protection and is easier to access for maintenance work. The pressure blast system was also optimized by requiring a considerably lower amount of compressed air which significantly improved its efficiency. All swing table machines are equipped with a satellite rotation control device mounted on the outside of the blast chamber ceiling. This device monitors the actual rotation of the work pieces while in the blast zone. To meet all customer requirements the system design allows the parallel use of two different blast media types or one type with different shot sizes. The RWT can be equipped with a spiral separator for discharging any broken down blast media. For controlling the overall peening process Rösler leverages the use of standard components. These include the automatic control of the blast media throughput and the precise measurement of the media throwing speed directly at the nozzle exit. Magnavalves are used for monitoring the precise dosage of blast media as well as all media hoses.

While in one 180° segment, two work pieces can be processed and two work pieces can be loaded/unloaded in the other 180° segment. The RWT design is based on a modular concept that was specifically developed for the peening of transmission components.

Measuring of compressive stresses with a X-ray diffractometer

During the course of the project the Asian customer provided various work pieces for testing at Rösler. After peening trials with the specified parameters, x-ray diffraction of the treated components at the Rösler test lab showed that the achieved compressive stress values were twice as high as the values stipulated by the customer.

The X-ray diffractometer allows an accelerated process development not only for transmission components but also for a wide variety of different parts. These can include valve and chassis springs, other chassis components, airplane turbines and components for the energy generating industry. Rösler also offers x-ray diffraction measurements as a service.

A comprehensive monitoring and control system, which monitors the air volume (orange control unit), ensures the high process safety and consistency required for any shot peening operation.

Process stability

Please scan the QR-Code to get contact details for Mr. Jan Reinmann.

Inline surface finishing of high value components with complex shapes

The groundbreaking Surf-Finisher opens up entirely new possibilities thanks to its ability to precisely finish specific surface areas on high value components, in single piece flow. Its compact and highly adaptable plug-and-play system can be easily integrated into existing or new manufacturing lines.

Examples of high value work pieces would be; machining tools, engine and transmission components, turbine components and orthopedic implants. For such parts, the surface finishing process, in an automated manufacturing environment, has presented a serious bottleneck. To date the deburring, edge radiusing, surface grinding/smoothing and polishing mostly takes place outside of the inline production lines, with a rather low cost efficiency.

Fast and consistent pre-defined surface finishes in an inline manufacturing environment

The innovative Surf-Finisher now allows for the precise, consistent and cost effective treatment of high value components, inline with single piece work flow. And it makes no difference whether the entire surface or only certain surface areas of such complex-shaped work pieces must be finished.

A central part of the surf-finishing system, a robot, which immerses one or multiple work pieces – mounted to a specially designed clamping device – into the work bowl and guides the work piece(s) through the media with pre-programmed movements. This allows for the precise finishing of different shapes and contours as well as specific surface areas on the work pieces. During the process the work bowl rotates at a speed of up to 300 RPM. This generates a very high pressure resulting in extremely short cycle times. At the end of the finishing cycle the robot guides the work pieces to an integrated rinse station before depositing them at a pre-defined location. With wet processes, in addition to the rotational speed of the work bowl, the process intensity can also be controlled by different water levels in the work bowl.

With its plug-and-play concept, the compact, fully equipped Surf-Finisher 700 can be easily integrated into existing, automatic manufacturing lines.

Compact design allows for easy integration

The new, fully equipped plug-and-play Surf-Finishers, models 700 and 800 F, are designed for work pieces of up to 150 mm (6") length. Processing bowl, 6-axis jointed-arm robot, electrical controls, dosing system, rinse station and a pump unit for the process water, which can be connected to a process water cleaning station, are integrated in the system, with a footprint of only 2,700 (L) x 1,600 (W) x 2750 (H) mm (106 x 63 x 108"). To become operational, only electrical, compressed air and fresh water must be connected. This compact design allows for strategic placement of the surf-finishing system next to pre-existing equipment, such as, a CNC machining center. For all Surf-Finishers the work piece handling is custom engineered per customer requirements, and the work piece clamping systems are usually adapted to the production stage preceding the surf-finishing operation.

Easy teaching of the robot with the operating panel

Besides making the operation of the Surf-Finisher very simple, the highly intuitive 19" operating panel also allows for quick and easy teaching of the robot without special knowledge and training of the operator or additional hardware and software. An integrated safety program prevents potential collisions. Customer specific processing programs can be quickly changed and new ones easily created.

Quick and cost effective radiusing of cutting edges

A new dry grinding media for the slight breaking/radiusing of cutting edges was developed by Rösler specifically for use in the new surf-finishing systems. Compared to conventional methods, which use a diamond powder additive, the desired surface finish is not only achieved much faster in the Surf-Finisher but also at considerably lower costs.

In surf-finishing systems the robot fulfills not only a material handling function but also guides the work pieces through the processing medium during the finishing cycle. This allows treating the complete surface or only specific surface areas of the work pieces.

The robot movements can be easily taught with the operating panel without any additional hard- or software. No special robotic experience or knowledge is required.

Fully automated

Please scan the QR-Code to get contact details for Mr. David Soldan.

New vibratory finishing system precisely and reliably treats the internal passages of work pieces

One of the most technically challenging aspects of mass finishing is the ability to effectively treat the internal passages of precision components. This is especially true in industries which face very stringent requirements, industries such as; automotive, aerospace, tooling and medical. It is essential for these manufacturers to achieve precise finishing results.

Rösler has met this challenge head-on by offering a new, specialized line of rotary vibrators that do not have an inner dome, which allows for automatic, precise surface grinding, smoothing and high gloss polishing of such specialized components.

Fully automatic operation produces precise and consistent results

The new DL vibrators allow for fully automatic and reliable treatment of such inner contours, resulting in excellent finishing results. This is achieved in either wet or dry operational mode. Even with extremely delicate and complex contours the dimensional integrity of the work pieces is fully maintained. Depending on the components, their original surface readings and the selected finishing process, Rz values of as low as 0.1 µm can be achieved.

In this process, one or multiple work pieces are attached to specially designed fixtures. The complete unit with the attached work piece(s) is then firmly mounted into the DL vibratory finishing system. For certain applications the loading and unloading operation can take place with a pneumatic lifting device. This eliminates the need for entirely removing the media from the work bowl when unloading the fixture with mounted part(s).

The vibratory energy is provided by two high-performance vibratory motors, placed on the outer wall of the work bowl, which is transferred to the work pieces that are mounted to the bottom of the work bowl. The intense vibration causes the processing media to flow through and around contours, internal passages or undercuts in the work pieces, without getting stuck. Compared to standard vibratory systems, this sophisticated machine design combined with powerful vibratory motors (3,000 RPM) produces a 30 percent increase in processing intensity. This results in comparably short cycle times. Adjustment of the imbalance weights and control of the motor speed, with frequency inverters, provides the ability to adapt the processing intensity to match the work pieces and the desired finishing task.

Equipment suitable for a multitude of finishing tasks

Rösler DL rotary vibrators are the perfect solution for finishing complex work pieces, such as; housings, pump or fan wheels, blisks, dies & molds, tools, automotive wheels and a variety of other work pieces. Before delivering a final process solution, Rösler will process your parts in one of our global test labs, which allows us to deliver a tailor-made finishing solution, with the highest finishing quality, short cycle times and high cost efficiency. Since we develop and produce all process consumables (media and compounds) in-house, they can be accurately matched to the respective customer application. All DL vibratory finishing systems are equipped with an easy to use control panel, which includes process timers. For wet finishing operations, compound and water are fed into the machine with a precise dosing system.

Please scan the QR-Code to get contact details for Mr. Rüdiger Böhm.

Precision

DL Rotary vibrators allow for safe and efficient all-around finishing of the internal passages in complex work pieces.

Tightly controlled media production guarantees sustainable high quality and cost efficiency

In any mass finishing process, achieving consistent finishing results and cost effectiveness is largely dependent on the processing media. With approximately 15,000 standard and special products, Rösler can offer the most well suited and cost effective grinding and polishing media, for any mass finishing application.

A pre-condition to achieving, consistent and cost effective mass finishing results is choosing finishing media that is perfectly adapted to the work piece geometry, material and the finishing process. The key to selecting media is combining the best possible ratio of grinding performance and wear rate. With approximately 15,000 ceramic and plastic based media types, Rösler offers the largest portfolio of mass finishing media in the world.

In addition, with decades of experience and numerous test centers around the world, Rösler also provides professional support including; the optimization of customer finishing processes and even the development of new media for special customer applications.

The best available raw materials combined with stringent quality controls ensures consistently high quality results

In addition to having a large variety of product, the Rösler media program also stands out for its consistently high quality. This is achieved through numerous quality control procedures throughout the entire production process, beginning with the strict selection and control of ecofriendly raw materials and finishing with the end product leaving the plant.

For example, the raw materials for ceramic media are specially formulated to Rösler specifications, ensuring optimum performance at the lowest possible wear rates. Shaping of the media takes place in pug mills designed and built by Rösler and equipped with state-of-the-art measuring systems. The results are not only the tightest tolerances in the market but also high process stability for any mass finishing application. An additional advantage is the ability to precisely control the temperature in the firing kilns.

For the production of plastic media Rösler is using specially developed, ground breaking raw materials, which achieve such a fine finish that the work pieces can be treated to a mirror polish in a subsequent dry polishing process. In contrast to the conventional batch mixing method, Rösler is mixing the raw materials continuously. This allows quick and precise product changes on the production line, which saves valuable resources.

Sustainability plays a big role throughout the entire manufacturing process; for example, in the ceramic media production, the exhaust heat from the sintering process is used for drying and tempering the raw media after the shaping process. In addition, the exhaust heat is also used for heating the complete building.

Revamping and expanding of plastic media production – investing in the future

With the setup of a new, ultra modern plastic media production line, Rösler nearly doubles its current annual production capacity of 5,000 metric tons per year. The new plant, currently under construction and equipped with the latest technology, will make the entire production process even more flexible and faster with further improved quality. With the new plastic media plant Rösler is again raising the benchmark for stable, repeatable and cost efficient mass finishing processes.

Quality

Please scan the QR-Code to get contact details for Mr. Rainer Schindhelm.

Rösler Academy – Know-How straight from the source

For quite a while the Rösler management had contemplated establishing a central company platform for the transfer of know-how in the fields of mass finishing and shot blasting. To cater to the increasing qualification requirements of our customers we have recently created the Rösler Academy. By providing you with Rösler product and process know-how, we will be conveying knowledge to you that is guaranteed to provide you with an edge over your competition.

Start of the Academy: September 2017

Do you, in your function as project engineer, quality manager, maintenance specialist or skilled worker, want to utilize your expert knowledge for the benefit of your company? Then you should invest some time in our training program to receive first-hand practical knowledge about mass finishing and shot blasting. The training program of the Rösler Academy includes basic introductory courses into mass finishing and shot blasting technologies, as well as seminars regarding maintenance and industry-specific applications. Our seminars cover numerous practical examples and, of course, all trainings include a plant tour to provide you with a glimpse into our manufacturing operation. The training seminars will be conducted by certified Rösler experts and will last one to two days. To provide you with the optimum learning effect, the number of participants will be limited to ten persons. Each event includes lunch and refreshments. And at the end of each course the participants will receive a certificate. If you like, we can also arrange your hotel reservation. Details about our training courses will be posted on our website www.rosler.com by May 2017.

We look forward to welcoming you!

Please scan the QR-Code to get contact details for Ms. Anna Moschall.

Helping is fun

„Helping is fun" has been the guiding principle at Rösler for many years. Since 2011 the company has supported the Christmas fund drive of the local newspaper "Obermain Tagblatt". From the initial call for help, started in fall of 2000, the drive has grown into an efficient network of volunteers and charitable organizations. Its focus is to help retirees, single parents, large families and other people who are living in poverty. Leading up to the Christmas season, Rösler appeals to its suppliers to support the fund drive "helping is fun" with a donation, instead of sending Christmas presents to the company. And each year the owner and general manager, Mr. Stephan Rösler, is generously adding to the contributions. For 2016 the sizable amount of 11,000 Euro was collected. Generously augmented by another 4,000 Euro, Mr. Stephan Rösler delivered the collected funds to the initiator, Mr. Till Mayer, who was pleased to accept the donation. With the help of numerous other participants a total of 60,000 Euro could be collected to provide financial assistance to needy people in the county. The Red Cross has been distributing the donations with unpaid volunteers for many years.

Owner and general manager, Mr. Stephan Rösler, handed over a check for 15,000 Euro to the initiator of the fund drive, Mr. Till Mayer, and the local Red Cross executive Mr. Thomas Petrak (from left to right).

Company health management

„Health is not everything, but without good health everything amounts to nothing"! This message from Arthur Schopenhauer emphasizes that good health is the most valuable human possession. According to this great philosopher, 90% of our happiness depends solely on our good health. And the older we get, the more we notice the little health deficiencies. At Rösler, since the well-being of our employees is an essential part of our corporate philosophy, the company has been investing in a company health program for many years. For example, the comprehensive program includes a regular massage schedule that is financially supported by Rösler. In addition, each employee has the possibility to request help from the company social services department. This applies to work as well as private issues. The natural health professional and psychotherapist consult with their patients on how to deal with her/his personal problems.

Guided by the philosophy, „You are what you eat", the Rösler cafeteria team was specially trained in the field of wholesome food. Every day the cafeteria offers all Rösler employees healthy meals and snacks. Each Wednesday, also known as "good health day", a large selection of delicate meals is available. We are pleased to report that the staff has enthusiastically welcomed this program.

Whole Food: Quinoa-Roasting with Salad

Training of tomorrow's specialists

Vocational training has always been a point of focus at Rösler. A comprehensive apprenticeship program is key in developing a pool of young professionals for the future. That is why last fall 17 new apprentices started their professional life at Rösler, which at the moment, provides a comprehensive training to 57 young employees in various professional fields. Depending on the ultimate graduation goal, the apprenticeship program will last between 2 and 3.5 years. Rösler offers a multitude of different career opportunities, among them are chemical laboratory assistant, electronics expert, commercial assistant, product design and drafting technician, logistics specialist, metal processing specialist, IT specialist and industrial mechanic. To assist them in their entry into professional life, each year the trainers offer a comprehensive introductory program for the newcomers.

In addition, Rösler offers practical training to students enrolled in a dual academic program in the fields of "equipment engineering", „business informatics" and "industrial engineering".

The photo shows the 17 new apprentices together with the team of professional trainers. At the moment the company employs 57 young apprentices.

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