

# GOOD



# VIBRATIONS

Surface Finishing • Shot Blasting • Engineering • Environmental Techniques

# RÖSLER®

*finding a better way ...*

**1.2004**

<b>Top name in shot blasting</b> .....	2
<b>Further expansion</b> .....	2
<b>Share your spare thoughts</b> .....	3
<b>Long radius rotary vibrator</b> .....	3
<b>Mini drag finisher</b> .....	4
<b>Stone treatment made easy</b> .....	4
<b>Low cost blast cabinet</b> .....	4



*finding a better way ...*

## The worlds top name in shot blasting

Being the Managing Director of a medium-sized company makes me acutely aware of, and I often take part myself, in the on going debate about the loss of jobs in Western Europe to low cost economies.



**Stephan Rösler**

Managing partner at Rösler Oberflächentechnik GmbH

Politicians often tell companies to be "patriotic" but this is short-sited thinking. I think that our manufacturing activities should remain in Western Europe.

This is not an easy decision, it is a hard one, and means more than ever before, that every salary increase, reduction in working hours, increase in holidays etc will have to be set against a growing and ever more competitive global economy.

It is necessary for a company to achieve profits, to grow successfully, and to survive in the difficult global market. When jobs have to be relocated due to return on investments falling below acceptable levels, then it is not only legitimate but also demanded for every responsible company.

At Rösler we continue to face up to the financial pressures that the global economy brings by trying to live up to our slogan, "finding a better way" Finding a better way by investment in new technology, in R&D and in our staff

We feel the range of finishing equipment that we offer to the market reflects our policy and attitudes, and we trust helps you our customers remain competitive, producing profitable goods and services of the highest quality whatever part of the world you are located.

Good Vibrations 2004 shows just a few of the many products, processes and services that are helping many companies find a better way.



Robotic blasting machine



Compressed air blast cabinets centre one with powered basket



Tumble belt machine



Thru feed tube/ bar blasting machine



Mesh belt blast machine RDGE

## Intelligent shotblasting technology from Rösler

The use of automated shotblasting technology in all types of foundries is very advanced, but more and more sophisticated processes and system concepts provide an even greater potential for rationalization. Above can be seen a selection of high-performance shotblasting systems for processing of cast parts, which may be used to help optimize profitability and flexibility in the manufacturing processes of foundries.

For example, the wire mesh belt continuous flow system RDGE: This system makes it possible to completely deburr the surface of large volume die cast aluminium or magnesium parts in one pass, and at the same time apply the required surface finish. Rösler manufactures the RDGE in various widths - 800, 1000, 1250, and 1500 mm. The wire mesh belt, which consists of a highly wear-resistant alloy plays a decisive roll in function and performance. Wire thickness and mesh size are precisely adapted to the processing task. The descaling of forged parts is only one possibility from the extensive processing range of the RDGE. The deburring and surface finishing of light aluminium and magnesium parts, or the de-flashing and surface treatment of flame-cut parts are additional application areas. This wire mesh belt system is suitable for processing large components that are difficult to handle in a hanger system.

Another Rösler shotblasting system also fits well into fully automatic production lines: the Roboblaster. The main application areas for this blast wheel shotblasting system with robot support are aluminium die cast, iron foundries, and forges. Its processing ability ranges from deburring and surface finishing to shot-peening impact sensitive components The robot grips the components quickly and

precisely offering them to the shotblasting system for processing. After the completion of the shotblasting operation it returns the parts, positioned precisely to the stillage load table or conveyor. The system is fitted with four blast wheels. The ever-popular rugged Rösler Tumble Belt Machine is a manufactured in six standard sizes to handle batches from 100kg to 2000kg de-flashing, de-burring, core removal, stress relieving, to name just a few of the processes this machine is comfortable with. The RDR Tube Blasting machine is a fully automatic unit for shot blasting tube and bar in continuous flow. The rotation

and flow speed of the bars is variable, and the machine can be fitted with one or two blast wheels this being determined at the trial stages.

To complete the picture of this sample of machines from the Rösler shot blast range we display three Compressed Air Blast Cabinets. These machines manufactured in a range of standard sizes can easily be fitted with rotating baskets tables and work platforms and are a useful tool in any foundry or workshop.

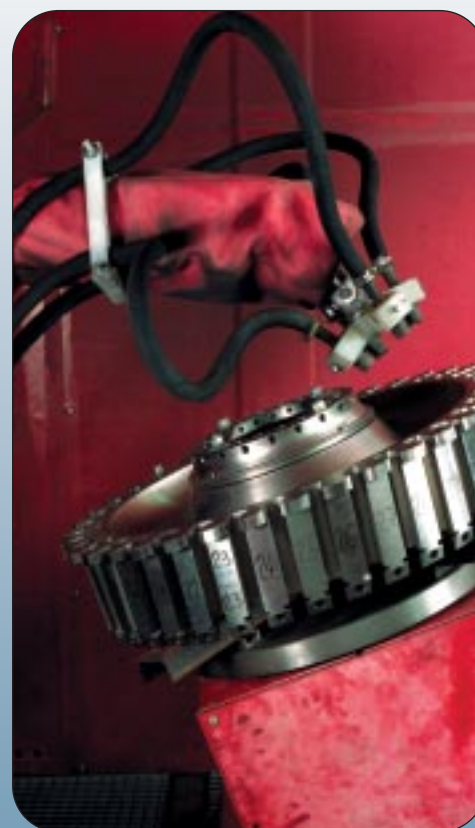
A popular feature on the Rösler cabinets is the full width front opening door providing clear access to the complete chamber, without spillage of blast media.

## Further Expansion

The group has recently acquired the French shot peening and shot blasting company

### Vapour Plast

Vapour blast established over 50 years ago, has specialised in supplying the French Aerospace industry and other high tech industries with a complete range of equipment, processes and services. These include, shot peening, peen forming, wet Blasting, & plasma coating. Customers include Air France, EADS, Eurocopter, Snecma, Bugatti. All the appropriate approvals and quality systems are in place making Rösler the most Comprehensive supplier of surface preparation machines and equipment in the world, offering solutions to a variety of finishing requirements from one single source.



New: R 400/9 LR

## Rotary Vibrators With Extra long process chamber



The "Long Radius" rotary vibrator carries out its processing in a working chamber 9 meters in length (typical vibrators on the market have only half of that).

The interesting feature of the new rotary vibrator R 400/9 LR is that it may be used in a continuous flow system with timed individual component feeding, as well as in a batch processing operation.

This is especially suitable for bulky and long components, and for very sensitive parts that require a high ratio of media to parts in order to give maximum protection during process. In the one lap process the "Long Radius" flow system is ideal for fast deburring, edge breaking and rounding.

Parts made of zinc, aluminium or cast steel can be processed immediately after clipping or casting. Processing times of 4 to 16 minutes in a one-lap cycle are possible. The Rösler ceramic and plastic media used are the most efficient and suitable for a high abrasive performance. The circular vibrator is equipped with an electro-pneumatically controlled separation flap for batch processing.

A large screen area with under-filtering for the rejection of undersize media follows the separation flap. When being used for thru feed processing, the components are fed via a loading device into the area below the separation screen.

## Share your spare thoughts with Barry



Barry, is Barry Cunningham, spares manager at our Knowsley Centre of Excellence, and the term A REAL PROFESSIONAL certainly describes his attitude and ability. Barry has spent a large part of his working life overseas employed in the supply chain of many of the worlds leading and largest industrial organisations. Previous to joining Rösler Barry was employed at the Mazda/Ford Mercury dealer warehouse located In Saudi-Arabia. Heading up a staff of 50 he was responsible for the ordering, stocking, and supply of Mazda/Ford spare parts.

Barry brought to Rösler with him the skill and disciplines that he had used to control Over 20,000 lines. At Rösler UK this is about 2000 lines but his aims and ob-

jectives remain the same, "Availability of Genuine Rösler Spares When Required" Barry says. "I checked out Rösler prior to applying for the post of Spares Manager, and was delighted to discover their reputation for quality of product and service. This was important to me, Quality is not just at the point of sale, but is for the life of the equipment. Take our Re-Line service for instance, this is not just a re-coat service, it involves minute examination of all the steel work and spring mounts, replacement of drain roses, repaint, returned as new for further long service. That is what I regard as a proper spares service." Not surprising, Barry is part of the Rösler quality team

## New conveyerised blasting machine is ideal for diecastings

Small batch or bulk parts and high quality larger components, can now be cleaned, deburred, descaled, surface finished, and matted automatically in a new machine from Rösler UK – the through-feed tumble belt "Type RMBD" system.

Utilising innovative shotblasting technology, the RMBD combines the benefits of conventional batch or hanging conveyor machines within one system, and is particularly suitable for surface preparation applications in diecasting. The machine can be used to shot blast aluminium diecast parts, 20mm to 400mm long, which previously had to be processed in a hanger conveyor system in a time consuming and labour-intensive operation.

The centrepiece of the system is its special through feed tumble belt conveyor, which is shaped to ensure regular and continuous transport, while rotating smoothly around its own axis. Large and sensitive components are processed in the system individually. Smaller and less

sensitive parts are loaded in batches. The close proximity of the shotblasting wheels to the components determines decisively the high quality of the shotblasting results, as well as its profitable throughput performance. A grid box pallet of drumable material or bulk die cast aluminium parts can be processed in the system in about five to ten minutes.

The load time cycle for bulk components, or input of large components, speed of the recess conveyor, dosage of shotblasting media, and output speed can all be programmed and controlled individually via an SPS Loading is carried out either manually via the loading belt, or by means of grid box pallets on a lift and tip unit.



The Rösler "Type RMBD 500" flow system, featuring devices for loading and unloading of components. The various loading times can be set using switches on the input and output transport conveyors.

## "Mini"-Drag-finishing machine with maximum advantage

With the introduction of their "mini" Drag finishing machine model number R 1-1/4 SSA-L which maintains all the technical advantages of their larger models, Rösler have been able to open this technology to a wider range of users.

The main application area for their new R 1.1/4 SSA-L is in the mechanical production, or tool making, where most parts such as, gear wheels, gearbox parts, hydraulic/pneumatic parts, milling tool holders or pump parts etc, have to be deburred, rounded or polished manually. The high flexibility combined with a compact and economic installation size was achieved by integration of several technical details. For example the four working spindles have adjustable tilt angle from 0° to 30° and they are also linear relocatable, so parts with different diameters can be treated.

The bowl with a useful diameter of 1300 mm and a depth of 675 mm has a vibratory motor. This helps maintain the correct abrasive mix, for repeatable standards and quality.

The bowl can easily be pulled out with a floor conveyor and replaced by another one, in order that working steps like pre-grinding or polishing with different medias can be achieved quickly, one after the other, without problems.

Different processes from aggressive grinding up to soft polishing can be arranged by a stepless water level adjustment.

*In the drag-finishing-machine high-grade gear tooth forming parts are processed without part on part contact. Due to special small-sized ceramic or plastic chips the treatment of the tooth root is possible.*



The „Mini“-drag-finishing machine R 1-1/4 SSA-L makes the advantages of drag-finishing available to a larger market



### Trough Vibrator R 1200/2300 TS/D

## Intelligent Vibratory Finishing Reduces Production Costs



For emptying, the trough vibrator has a side mounted unload door, the chips are transported to a magazine by a conveyor belt.

Gandl Natursteine GmbH, Inning German has operated in the natural stone industry for many years and specialises in selling natural stone products sourced from all over the world: granite, porphyry and carrara-marble. To treat thin stoneslabs and paving stones made of granite the company successfully uses a range Rösler trough vibrators.

In the trough vibrator R 1200/2300 TS/D thin (10 mm) slabs 40 x 60 cm are surface finished. Because the nat-

ural stone slabs are sawn from a large slab, it is necessary to grind the cut surface and radius the edges.

The trough vibrator with a cross-section of 1200 mm and a length of 2300 mm is divided into eight chambers.

Encapsulated in a Rösler special ceramic media, up to 16 stoneslabs can be treated in one process.

Two electric motors each with a driving power of 7kW are mounted one each end of the bowl, and guarantee a fast treatment.

## New low cost compact blasting cabinet ST 1000-L

We introduce to the market a compact and versatile blast cabinet with chamber dimensions of:

W=900mm D=750mm H=700mm

The unit built to Rösler's high quality standards is ideal for cleaning, de-burring, surface texturing and decorative blasting of small batch quantities without explosion risk. There is an integrated high performance cartridge dust collector mounted on the rear wall. A large inspection window positioned to prevent dust deposits forming gives good vision, helped by 40W interior lighting. The two side doors are interlocked; rubber gloves that are fixed mounted, blow off nozzle, and foot switch are all standard features. The overall dimensions of this useful low cost tool is only:

W=1020mm D=950mm H=1950mm



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