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**Abrasive expert.**  
SUHNER

## Reader offer

A seven speed gear-driven flexible shaft package can be yours for under £1945



# SAVE £426

## Sales team reaches new peaks in Switzerland

# FINISHING SCHOOL

**YES. SUHNER sales people are dedicated, committed and rich in product knowledge. They know exactly what can be achieved from electric, air and flexible shaft tools.**

Application know-how plays a central role in selecting the right tools and for achieving an optimal grinding result.

SUHNER recognised this important fact by bringing together their 150-strong worldwide sales force for a 2012 Kick-Off Meeting at the abrasive expert's head office in Brugg, Switzerland to introduce new products coming onto the market and to give an update of customer service and technical support programmes.

"This meeting very much focused on the growth that we have experienced over the past 12 months and we're very pleased to have kicked off the New Year by gathering some of the best engineers and technicians in the business," says Managing Director Olivier Annaheim.

So what is new? Market demand for a small, powerful electric hand tool has led to the development of the new generation USG 9R grinder.

A power tool that boasts a 'Made in Germany' mark and the advantage of an ergonomic shape that ensures fatigue-free working is undeniable. Add a modern tool design, soft-start, overload cut-out and electronics that contribute to a constant working speed and you've got an easy-to-handle power tool that's just the job for fine and accurate grinding where space is tight or access difficult.

Says Olivier: "We pride ourselves on always offering the best solutions under any circumstances and recognise that a well-trained workforce is essential to achieving this.

"We'll be on the move within the UK this year in the form of our demonstration programme. There are over 100 products on board the demonstration vehicle and the programme is based on a recognition of the powerful value of demonstrating in real world situations new products, like the USG 9R, one of the most compact two-hand operation straight grinders in the medium range speed of between 4,000 and 9,000 rpm."

He adds: "In today's climate, it is crucial to maintain a reputation for quality output or you will fail to win orders and lose out. We pride ourselves on our ability to help

companies broaden their finishing skills — from helping them figure out the best tool to get the job done to selecting the right abrasive grain once the tool is in their hands.

"As a business that has been there, seen it and done it, SUHNER can offer very good and very real advice. We've seen all sizes of company profit from this free service."

Contact the SUHNER team on 024 7638 4333 or 07771 961024. Alternatively email: [lawrence.moore@suhner.com](mailto:lawrence.moore@suhner.com) or [info@suhner.com](mailto:info@suhner.com) for a visit by our demonstration vehicle.

**USG 9R is one of the most compact straight grinders on the market right now**





GOOD dental hygiene is important for all creatures – and that's straight from the horse's mouth.

Unlike the famous Mr. Ed of the 1960s American TV series, the average horse can't tell you where it hurts. That's where Alex Jessett comes in. Because he knows his way around the inside of a horse's mouth.

One of only four DEFRA-approved Level 2 equine dental technicians in Warwickshire Alex did not come into the industry by accident.

Leaving Warwickshire College at 18 with a national diploma in horse management, he did a roll call of jobs working at other people's stables and yards.

"I decided that to make a career for myself I had to specialise in something, so started a four-year apprenticeship with a master equine dentist – and the first year I had to pay him for my training."

Alex, whose equine dentistry practice is in Leamington Spa is also vice chairman of British Association of Equine Dental Technicians whose members have signed up to and passed a rigorous written and practical exam, on the back of submitting 300 case studies

A majority of horse's illnesses go back to improper dental care, according to Alex, adding: "Equine

## Alex gets teeth into horse dentistry



dentistry, like human dentistry, requires proper training and expertise, or real damage can be done.

"We have teeth that last a lifetime of wear. A horse's teeth erupt constantly throughout their lifespan. It's a bit like lipstick. You

use it and it gradually wears down. That's what a horse's teeth do as they are grazing and grinding, resulting in them getting sharp edges, which can cause ulcers and potentially stop them eating.

"Which is they require routine dentistry and floating – or rafting –

### Straight from the horse's mouth...

- SUHNER high performance straight grinders cover all applications, high speed and low speed.
- Ideal handling due to the long neck spindle housing.
- Electronic variable speed control allows use of abrasives and burs at optimum

efficiency.

- Equipped with overload cut-out ...specially-designed for fine cutting and grinding work.
- With a speed range from 4,000 to 9,000 RPM and a 500W motor, the USC 9R uses tungsten burs, mounted points and spindle flap wheels.

### OPEN WIDE ... Alex Jessett at work.

for proper chewing and digestion every nine to 12 months."

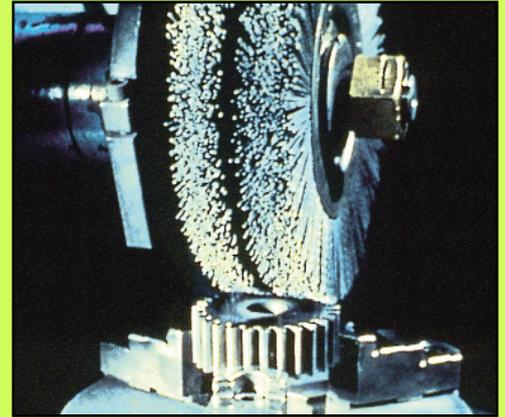
Traditionally, floating horses' teeth used to be hard, physical work but equine grinding tools powered by motors like the SUHNER 500W USC 9R have changed a time consuming task.

With a variable speed between 4,000 and 9,000 rpm and weighing just 3lb, the SUHNER motor is light enough to be hung from a waist belt – a priority for Alex. The other main advance is in the hand piece: diamond chipped burs reduce the tooth very effectively.

Says Alex: "You are very limited as to how much corrective dentistry can be done using hand floats and where tooth height needs to be reduced or the dental arcades, or row of teeth, need to be rebalanced then power instrumentation is the only way of doing this.

"Because you have to be extremely careful with soft tissue, it is not really advisable to use a rotary burr, which is solid carbide and can easily create extensive trauma.

"Diamond burs grind horses teeth faster than any other known method – and you can also run it on the underside of your forearm and it won't even mark it, so is soft tissue friendly."



STEEL wire brushes are a common and essential tool in any metal fabrication shop for weld cleaning, deburring, rust and oxide removal, surface preparation and surface finishing.

Wire brushes clean surfaces in the same manner as sand-blasting. They are also versatile. For example, a brush with a large bristle diameter is able to follow contoured surfaces, while brushes with shorter bristles are fast-acting and suited for severe applications.

In addition, steel brushes are non-loading. In other words, they do not become clogged with particles and debris when used to remove paint and similar coatings.

Perhaps because wire brushes are such a familiar item, they are easy to overlook and often receive insufficient attention. Follow these tips to improve the performance and life span of your steel wire brushes.

#### Use the Highest Safe Speed

Like cutting tools, they operate most effectively when the speed and pressure of the operation properly match the

demands of the application. In most operations, using the highest speed with the lightest possible pressure will ensure the fastest brushing action and longest brush life.

Increasing brush speed to the highest safe speed increases the face stiffness and brushing action. A fine-wire brush rotating at a high speed often produces the same results as a coarse-wire brush rotating at a slow speed, but it generally lasts longer. Therefore, you will achieve the lowest production costs by using the finest wire that will do the job.

If the brush speed is insufficient, frustrated operators typically apply more pressure. However, excessive pressure causes over-bending of the filaments and heat build-up, resulting in filament breakage, rapid dulling and reduced brush life.

You'll need to determine the

correct operating speed for each application. For safety, it is imperative never to exceed the maximum RPM rating that is quoted for each brush type.

#### Know Which Type of Wire to Use

Crimped steel wire brushes are general-purpose brushes for deburring. They are made of hard-drawn wire, which are crimped to allow individual filaments to support each other and provide flexibility for light- to medium-duty brushing action.

Knot-wire brushes are made of heat-treated straight wire filaments twisted as a single unit resembling a piece of cable or wire rope. They provide less flexibility and more aggressive brushing action than crimped brushes for removing large burrs and heavy contamination, such as multiple layers of rust, scale, paint, or oxides.

#### Keep Stainless Steel Brushes Clean

Once you use a stainless steel brush on carbon steel, do not use it on stainless steel because after-rust can occur. To prevent contamination, store all stainless brushes away from areas where carbon steel particles might come in contact with the brushes.

For critical operations, degrease stainless steel wire brushes before beginning the operation. If storing the brushes after use, degrease them and wrap in plastic. Without protection for any length of time, their magnetic properties may cause the brushes to collect foreign matter, leaving after-rust when re-used.

Why buy SUHNER? You can purchase low quality brushes but in the long run, you might end up spending more because of reduced productivity, more changeover time, and brush replacement costs.

## Wired up for a fine finish

## Getting the best out of stainless steel

INDUSTRIES that commonly use stainless steel include the engineering, construction, food processing and medical fields.

The degree of mirror finish depends on the tools that are used in the finishing process but there is really only one way to go – flap brushes – combined with the Rotomax 1.5 flexible shaft machine because the powerful, heavy drive unit is isolated from the actual tool, therefore making the work easier and far less fatiguing.

Use SUHNER belt grinder BSG 10/50 and a range of 50mm x 450mm BSGB belts starting from a 40 grit to reduce the weld.

Now it is time for the finish and the first stage should be done with a BSK flap brush, which is availa-



ble in eight different grain sizes. Used with an FH12 hand piece at a recommended speed of between 850 and 1,400 rpm, this brush has a degree of flexibility for irregular shapes but remember work in consistent straight lines.

For a satin finish use a non-woven flap brush FWGK comprising a carbon silicide grinding grit in grain size 500.

Polishing with a buffing wheel and cutting/polishing compound will really bring the stainless steel up to an outstanding mirror finish but it is important to observe the following points:

\*Absolute cleanliness of the area and work .... keep in mind that all you need to scratch a surface and ruin a previous step is one single larger particle. It can come from air dust, neighbour grinding operations, dirty clothes.

\*Use only abrasives of premium quality.

\*Cross direction every time a finer abrasive is used. This lets the operator make sure there are no deeper scratches behind before going to the next step.

The golden rule is: Do not rush. A superior finish takes lots of time.

## POLISHING METAL?

SUN-Press unitized non-woven abrasives could save you time.

Our non-woven products are designed primarily for finishing, surface preparation and light deburring. Choose grade 5 for most polishing jobs, or grade 7 or 8 for more aggression and a sheen finish – these discs achieve an excellent pre-polished finish quickly.

Check out our premium flexible flap discs

THESE high quality 115mm diameter grinding wheels made from high grade zirconium, work well on most metals, especially stainless. Low clogging characteristic also makes this a good choice for aluminium alloys.

# NEVER HAS THERE BEEN A better time to **BUY A ROTOFERA**

## SAVE £426 Flexi shaft multi benefits for under £1945

### THE MAGNIFICENT SEVEN FEATURES OF ROTOFERA:

- 1 Virtually maintenance-free
- 2 Unaffected by constant rough working conditions
- 3 Best performance to weight ratio of any tool on the market
- 4 95% efficiency on the spindle – no power loss
- 5 Substantial savings in abrasives due to correct and constant operating speed
- 6 Sizeable savings in energy costs – most efficient system available
- 7 Easy to operate in difficult to reach areas



SHED those winter blues and see your business benefit with 18% off the Rotofera. That's a saving of at least £426 on a brand new motor, flexible shaft and toolholder.

Rotofera is the one machine that meets all the requirements of a stainless steel fabricator and is on a fantastic special offer price at the moment of £1944.63.

The Rotofera F model comes in a solid aluminum housing for trouble-free industrial use and with a base plate and included in the package price is an NA10 D10/G28 x 2,000mm flexible shaft assembly, an FH10 straight hand-piece with 1/4" collet and wrenches.

This versatile all-purpose three-phase machine that delivers 1,000W of power for maximum performance is characterised on the one hand by its ability to spin de-burring cutters at up to 12,000 rpm and on the other buffing wheels at a steady 3,000 rpm. And it has been built to last – with many Rotoferas still working like new after 30 years.

This special promotion puts the powerful Rotofera at an all-time low.

So make the most of this fantastic offer that is only available until the end of February 2012.

A major advantage of the Rotofera is the ability to attach almost any tool holder instantly. On the machining front, the seven-speed gearbox that produces speeds of 850 rpm and above gives the Rotofera the ability to cut, grind, de-scale, finish or polish, making it effectively a full workbench centre.

What's more, separating the motor unit and the hand-piece gives the user complete freedom of operation, without any fatigue, during long working periods.

 *email*  
**info.uk@suhner.com**

 *by phone*  
**024 7638 4333**

 *by fax*  
**024 7638 4777**

# EASY WAYS TO ORDER

PLEASE TICK APPROPRIATE BOX

- Yes please.** Contact me and tell me more about your special offers
- Yes please.** Send me further details of your straight and angle grinders

Name.....

Address.....

.....Postcode.....

Tel (inc area code).....

email.....

Terms & Conditions: Prices in GB Pounds. Packaging and carriage not included. This offer cannot be combined with any other Suhner offer and do not apply to Distributors. Offers valid until 29 February 2012.