



*Bench & Pedestal
Machines and
Materials for
Grinding
Deburring
Finishing
Polishing
Notching
Bevelling
Cutting
Cleaning
Welding Tables
Test Centre*

CONTENTS

Abrasive belt grinders	
Introduction	2
Horizontal belt grinders	3
Vertical belt grinders	4
Extra heavy duty belt grinders	5
Multi purpose belt grinders	6
Modular belt grinders and polishing machines	7 - 10
Mini abrasive belt grinder	11 - 12
3 wheel belt grinders	13
Linishers	14 - 15
Abrasive disc machines	16
Sheet and tube deburrers	16
Belt edge grinder	17
Multi purpose belt grinder	17
Tube notchers	18 - 19
Corner radiusing machine	20
Swing and floor grinder	21
Bench and pedestal machines	22 - 25
Orthopaedic machines	26
Welding & jiggling tables	27 - 28
Bevelling machines	29 - 30
Dust extractors	31
Abrasive Test Centre	32

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We'll show you how!

ABRASIVE BELT GRINDERS



A typical polishing shop in the 1960's. 30 to 40 polishers in rows were not uncommon.

TRADITIONAL POLISHING MACHINES POLISHING LATHES & BACKSTANDS

The traditional polishing lathe is an extraordinary robust and powerful machine with 3 HP or 5 HP motors. It consisted of a totally enclosed motor in a large housing with a threaded shaft on both ends.

On the threaded shaft you can mount either parallel or tapered spindles, with tapered spindles being used on most machines.

Speeds were mostly 2800 rpm but there were also 1450 rpm machines or even twin speed machines. 'NON STOP' versions have 2 motors in the same housing and can therefore be switched on and off independently. Even rarer are 'NON STOP' versions with 2 speeds for each end.

The most famous brands for these machines were Cannings, Morrisflex and Cruickshanks.

The fact that thousands of these machines, which are now between 30 and 50 years old, are still in service bears witness to their original brilliant design.

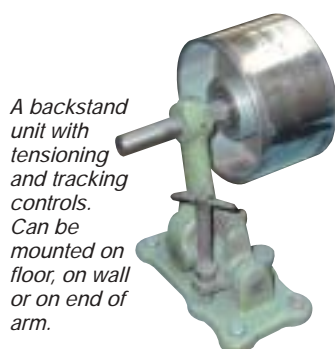
We usually have several reconditioned machines in stock.



The traditional abrasive belt grinder with backstand arm mounted on the motor of a polishing lathe.



A double ended polishing lathe with contact wheels fitted. Often polishing mops were used as contact wheels.



A backstand unit with tensioning and tracking controls. Can be mounted on floor, on wall or on end of arm.



British polishers prefer to work standing up, whereas Continental polishers often sit down.



HORIZONTAL BELT GRINDERS

INTRODUCTION

At first sight these belt grinders all look the same.

On closer inspection you will find some significant differences which, if known, may help you choose the model that best suits your needs.

SURTECH were first to introduce horizontal belt grinders into the UK market and today offer a choice of more than 5 makes and designs to cover the needs of all customers.

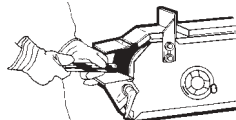
Prices reflect the build quality, the available features and the after sales service.

If you want to see one of our machines or you want to test one visit our Abrasive Test Centre in Birmingham where we always have every model in stock.

Common features of all horizontal belt grinders

All horizontal belt grinders have a contact wheel at the front and a platen on the top. All are height adjustable.

SURTECH's belt grinders also have optional fixtures to facilitate some grinding operations.



Work on contact wheel

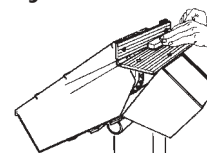


Work on platen with end stop

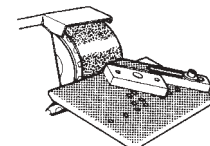
Special optional features of horizontal belt grinders supplied by SURTECH



Optional SURTECH fixture for deburring tube ends



Optional SURTECH chamfering fixture



Optional SURTECH large table with adjustable guide bar

Model Range 5 SERIES DUAL PURPOSE HORIZONTAL ABRASIVE BELT GRINDERS

Model 531 is the most powerful horizontal belt grinder. 7 HP coupled with a high 38 m/sec belt cutting speed results in very high stock removal rates.

5 series machines are the only horizontal belt grinders with a hinged guard for the contact wheel. You can protect the contact wheel when you work on the platen. The guard also has a dust extraction spigot and it acts as a dust capture hood. No other machine has this feature.



Shown here with optional large on dust extractor

Three other unique 5 series features are the separate dust channel, the three-part hinged platen cover and the replaceable platen.

The dust channel aids dust extraction and keeps the inside of the machine clean.

The hinged cover can be opened just sufficient for the work you do, adding to safety by not exposing the whole of the platen. Most other machines have a one piece hinged lid.

Many belt grinders simply have a platen as part of the machine body. Once the platen is worn you cannot replace it and either have to buy a new machine or carry out some costly repairs.

Belt Grinder Specifications

Model	HP	No. of speeds	Abrasive belt size in mm	Contact wheel dia. m/sec	Belt speed	Platen size	Contact Wheel size
521	4	1 or 2	75 x 2000	200	32	75 x 585	200
522	4	1 or 2	150 x 2000	200	32	150 x 585	200
531	7	1 or 2	100 x 2500	250	38	100 x 735	250

Dual Purpose Abrasive Belt Grinders

Model Range SURTX - BS



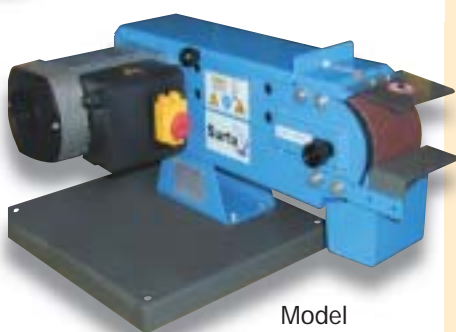
Model
BS 75



Model
BS 220



Model
BS 150



Model
BS 100



*View from right side
(all models)*



*Support table and dust
bucket can be removed on
all models*



Top platen with stop (all models)



*All models, apart from
BS 100, are height adjustable*



*Model BS
100 also
available
on stand*



Internal view (all models)

Model	BS 75 Single speed	BS 75 Twin speed	BS 150 Single speed	BS 150 Twin speed	BS 220 Twin speed	BS 100 Single speed
Motor size	3 KW	3KW	3KW	4KW	4KW	1.5 KW
Voltage	230 only	400 only	230 only	400 only	400 only	230 only
Abrasive Belt size in mm	75 x 2000	75 x 2000	150 x 2000	150 x 2000	220 x 480	100 x 1220
Abrasive Belt speed m/sec	30	30 / 15	33	33 / 16	29 / 15	19
Contact Wheel dia. in mm	200	200	200	200	200	125
Top Platen size	75 x 460	75 x 460	150 x 460	150 x 460	220 x 480	100 x 280
Weight	72 kg	72kg	90 kg	90kg	105kg	44kg
Spigot diameter: Rear only, mm	100	100	-	-	-	75
Front and rear	-	-	100	100	100	-

VERTICAL ABRASIVE BELT GRINDERS AND POLISHING MACHINES

INTRODUCTION

Abrasive belt grinders used to be called 'backstands' and polishing machines 'polishing lathes'.

Many of our customers still use these descriptions even for the modern versions.

Our modern machines have state of the art motors which are smaller yet deliver the same hp as the traditional machines.

They are available single and double ended. With single speed or twin speed.

Unlike traditional motors the modern motors are compatible with variable speed inverters, motor brakes and interlocks.

The abrasive belt arms are fully integrated with tensioning and tracking controls and with complete guards, a dust capture hood and a dust extraction spigot.

SERIES 6

Best value polishing lathes
With 2 speeds. For continuous operation



Single polishing head



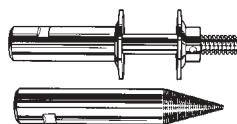
Twin polishing head



Single abrasive belt head

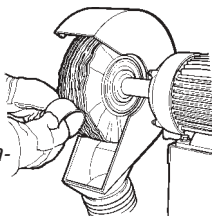
SERIES 5

Best value Traditional Abrasive Belt Grinders
Available with one or two heads. For continuous operation.



All Series 6 available with parallel or tapered spindles.

Standard guard for Series 6 machines

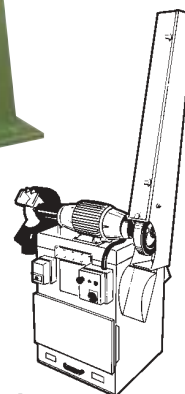


Twin abrasive belt head

Combination belt head and polishing head



Series 5 and Series 6 can be mounted on a dust extractor



SERIES 56
Two-in-one Grinding and Polishing Heads
Combined in one machine

Series 5 Traditional abrasive belt grinders

Model No.	No. of heads	HP	No. of speeds	Abrasive belt size in mm	Max buff dia. in mm	Contact wheel dia. in mm
503 Backstand	1	2,3	2	50 x 2500	n/a	250
553 Backstand	2	2,3	2	50 x 2500	n/a	250
506 Backstand	1	4	2	50/75 x 2500	n/a	250
556 Backstand	2	4	2	50/75 x 2500	n/a	250

With vertical heads. Heavy duty industrial design for continuous use.

Series 56 Two-in-one machines

Model No.	No. of heads	HP	No. of speeds	Abrasive belt size in mm	Max buff dia. in mm	Contact wheel dia. in mm
563 Belt & Buff head	2	2,3	2	50/75 x 2500	250	250
566 Belt & Buff head	2	4	2	50/75 x 2500	250	250

Heavy duty industrial design for continuous use.

Series 6 Polishing machines

Model No.	No. of heads	HP	No. of speeds	Abrasive belt size in mm	Max buff dia. in mm	Contact wheel dia. in mm
603 Polishing m/c	1	2,3	2	n/a	250	n/a
663 Polishing m/c	2	2,3	2	n/a	250	n/a
606 Polishing m/c	1	4	2	n/a	250	n/a
666 Polishing m/c	2	4	2	n/a	250	n/a

REMA EXTRA HEAVY DUTY MACHINES

These are the ultimate abrasive belt grinding and buffing machines from the leading European manufacturer.

Particularly suited for foundries as a replacement for grinding wheel machines.

From 3HP to 15HP. For 25mm to 100mm wide belts and buffs. Single or twin ended. Single or twin motors.

Series SMG 58/56 REMA Extra Heavy Duty Combi machine



3 - 10 HP. With belt and buff head. Also available as single belt head or with two belt heads. Two motors.

Series DPNS REMA Extra Heavy Duty Combi machine



7 - 15 HP. With belt and buff head. Also available with two belt heads or two buff heads. Single motor.



All REMA machines are available single or double ended. With 2 belt heads or 2 buff heads or a combination of belt and buff heads.

Series SMG 73 REMA Extra Heavy Duty Twin Head Grinder



5 - 15 HP. Chosen by foundries who want to replace grinding wheels with belts to reduce the risk of 'white finger'. Two motors. Also available single ended.

Model REMA SMZ 57 E SINGLE ENDED EXTRA HEAVY DUTY ABRASIVE BELT GRINDER



FEATURES

- 7.5 KW motor.
- 3 speeds, controlled via pulleys and V-belts. (Takes about 2 minutes).
- Star delta switch
- Working height 1000mm. 45mm dia drive shaft, machined down to 35mm at front for mounting the contact wheel.
- Contact wheel dia.: 400mm or 450mm dia x 100mm wide
- Abrasive belt arm with spring tension control and manual tracking control.

- Optional pneumatic tensioning available.
- Full metal guard with hinged access door.
- 100mm dia extraction spigot
- Abrasive belt size: 100mm wide x 3500mm long
- We believe this to be the most robust 7.5 KW abrasive belt grinder on the market.

Set up with the correct contact wheel and belt speed for your particular job you will not find a machine with better performance.



The V-belt drive system of Model SMZ 57 E. Accessible via a hinged door at the rear of the machine.

The extra heavy duty belt grinders are mainly used in foundries where there are problems with large and heavy castings and with "white finger" disease and "repetitive strain" injuries.

To reduce these risks we have developed a special contact wheel and an adjustable heavy duty separate support table.



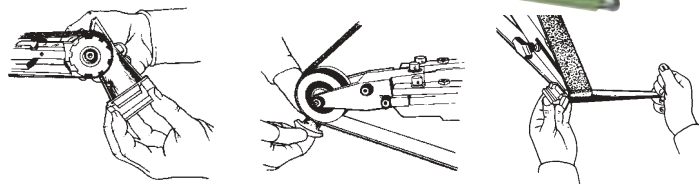
The optional SURTECH heavy duty adjustable support table for extra heavy duty belt grinders.

IF A 7.5 KW ABRASIVE BELT MACHINE IS NOT POWERFUL ENOUGH FOR YOU WE CAN OFFER YOU 11 KW or 15 KW. HOWEVER, THESE MODELS ARE MADE TO SPECIAL ORDER ONLY.

MULTI-PURPOSE BELT GRINDERS

Series 7 Our Dedicated Multi-Purpose Range

One of the most versatile abrasive belt machines on the market. With telescopic arms. For contact wheels from 20mm - 200mm dia. and from 12mm - 75mm wide. Ideal for turbine blades, surgical implants, etc.



Series 7 can be equipped with special contact arm assemblies for turbine blade grinding



Series 7 with small contact wheel



Series 7 with large contact wheel



Series 7 with special contact wheel with no side restriction



Single head version

Series 7 Multi-purpose

Model wheel No.	No. of heads	HP	No. of speeds	Abrasive belt size in mm	Max buff dia. in mm	Contact dia. in mm
706	1	4	2	12-75 x 2500	n/a	20 - 200
766	2	4	2	12-75 x 2500	n/a	20 - 200

Heavy duty industrial design for continuous use.

What makes 7 series machines special ?

Because the belt drive motor is at the rear of the machine you can fit any contact wheel size without changing the belt cutting speed.

The belt cutting speed is determined by the speed of the motor and the diameter of the rear drive wheel.

7 Series machines have telescopic belt tensioning. This means the abrasive belt length can be kept at a constant 2500 mm no matter what size contact wheel is mounted.

Telescopic tensioning also allows you to adjust the tensioning power finer and more accurate than any other manual tensioning system.

For even greater versatility 7 series machines can be equipped with variable speed inverters, foot pedals and interlocks.



Some of the many contact arm assemblies which can be used on 7 series machines

Model 491 ABRASIVE BELT GRINDER WITH EXTENDED CONTACT ARM



For unrestricted work. Contact wheels from 25mm to 200mm dia.



Model 491 can carry out many of the same operations as the 7 series machines but it does not have all of the features of the 7 series and is therefore less versatile.

Model 491 is considerably cheaper than the 7 series machines.

FEATURES

- 3,5 HP 2 speed motor
- Abrasive belt size 25 to 75mm wide x 2500mm long.
- Standard contact wheels 50mm, 100mm, 150mm and 200mm dia.
- Special contact wheels 25mm to 200mm dia.
- Working height adjustable
- Large adjustable dust capture hood.



Optional special contact arm



Optional special contact arms



Optional special contact wheels

Many of the contact arms and contact wheels used on the 7 series machines can also be used on Model 491



Some more special contact arms for use on Model 491

Modular Grinding and Polishing Cells

For Turbine Blades, Medical Implants, Precision Castings, etc.

Design your own and let us build it !



Vertical belt / buff with inverters for variable speeds



Horizontal belt / buff with 2-speed motor or with optional variable speed for each motor



Variable speed mini belt plus variable speed mini buff, 800-10,000 rpm



Variable speed mini belt plus variable speed mini buff, 500-5,000 rpm



Polishing cell with 4 heads of choice and common dust extractor

STEP 1 - Choose the heads, guards and dust capture hoods

a) Buffing Heads



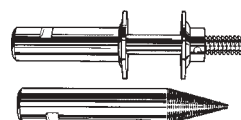
Left handed

Right handed

3 - 4 HP twin speed or optionally with variable speed. Max. buff diameter 250mm. Max. buff width with tapered shafts 50mm, with parallel shaft and large guard 100mm.



Optional motor brake



Parallel or tapered shafts

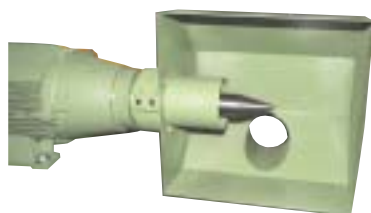
Optional inverter for variable speed control. Incorporates electronic motor brake.



Foot control



Standard bolt on guard



Optional large bolt on guard



Floor mounted guard with sliding top to adjust for mop wear



Floor mounted guard with fixed top

Other guards made to order.

b) Variable Speed heads for small diameters



F 5000 - 1.5. 1.5 kW, 240 V motor with standard variable speed 500 - 5000 rpm motor. Double ended, with M33 spindle on right and M20 spindle on left.

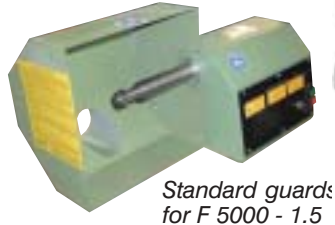


F 1000 - 0.75 HP, 240 V motor with variable speed 800 - 10,000 rpm. Right handed only.

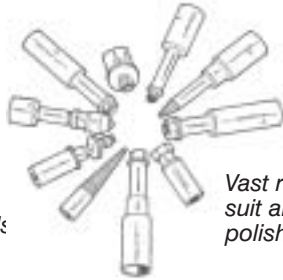
No standard guards. Guards are made to order to suit requirements.



F 15,000 - 0.45 kW, 240 V motor with variable speed 2,500 - 15,000 rpm. Right handed only.



Standard guards for F 5000 - 1.5



Vast range of spindles to suit all abrasives and polishing consumables



With collets or chuck



c) Vertical Abrasive Belt Heads

3 - 4 HP twin speed or optional with variable speed. Abrasive belt length 2500mm. Widths from 25mm to 75mm.



Right handed



Left handed



Foot control



Optional large dust capture hood



Optional motor brake



Interlock

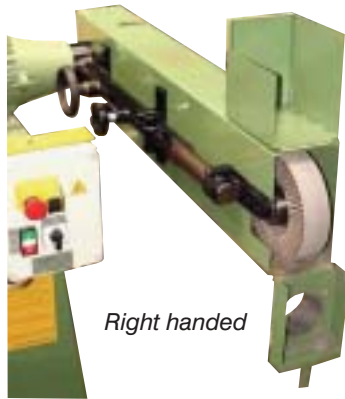


Optional inverter for variable speed control. Incorporates electronic motor brake.

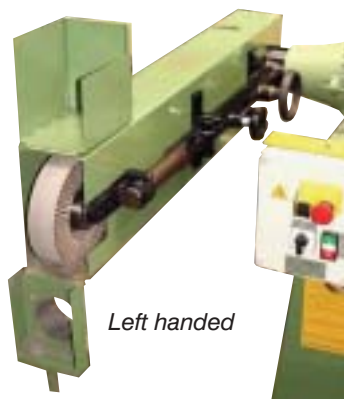


Contact wheels 250mm dia. x 25, 50, 75mm wide. Plain or serrated. From 20 to 95 shore.

d) Horizontal Abrasive Belt Heads with Telescopic Arms



Right handed



Left handed

3-4 HP twin speed or optional with variable speed. Height adjustable.



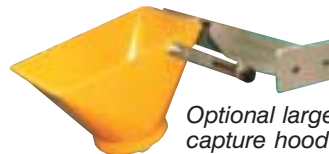
Quick change contact arms



Optional motor brake



Optional inverter for variable speed control. Incorporates electronic motor brake.



Optional large dust capture hood

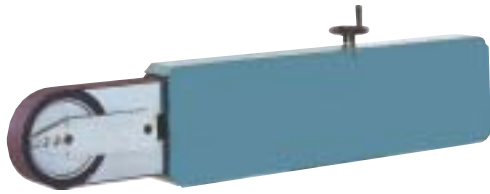


Foot control



Contact wheels from 25mm to 200mm dia. From 12mm to 75mm wide.

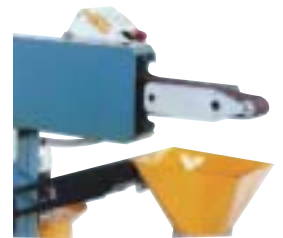
e) Horizontal Abrasive Belt Heads for Bespoke Solutions



Left handed only. 3.5 HP, twin speed.
Abrasive belt 2,000mm to 2,500mm long.
25mm to 75mm wide. Height adjustable.



Optional inverter for variable speed control.
Incorporates electronic motor brake.



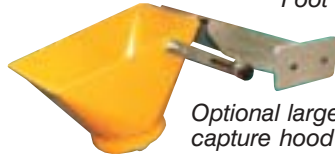
Standard length



Optional motor brake



Foot control



Optional large dust capture hood



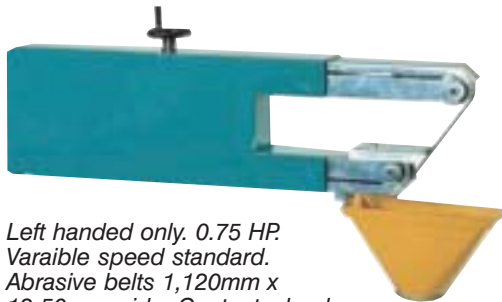
Interlock

Contact arms and wheels made to order.
Contact wheels from 20mm to 200mm dia.
From 12mm to 75mm wide.



Extended length

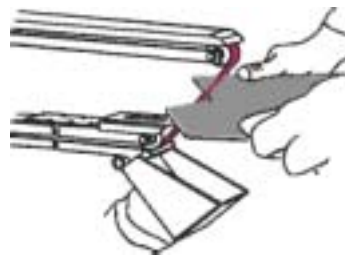
f) Slack of Belt Heads



Left handed only. 0.75 HP.
Variable speed standard.
Abrasive belts 1,120mm x 12-50mm wide. Contact wheel diameters from 20mm to 100mm.
Height adjustable.



For grinding, deburring and finishing edges.
For finishing and blending contours.



Interlock



Foot control

Optional motor brake



Optional inverter for variable speed control.
Incorporates electronic motor brake.



g) Turbine Head



Left handed only. 0.75 HP. Variable speed standard.
Abrasive belts 1,120mm x 12-50mm wide. Contact wheel diameters from 20mm to 100mm. Height adjustable.

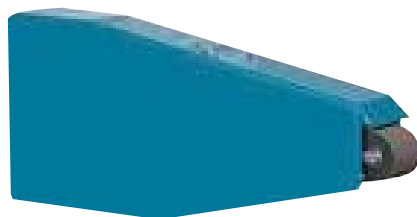


Vast range of optional contact arms



Vast range of contact wheels.
From approx. 15mm dia. to approx. 100mm dia.
From 6mm to 50mm wide. Plain and serrated. Soft to hard.

h) Mini Abrasive Belt Head



Left handed only. 0.75 HP. Single speed.
Abrasive belt 1,120mm long. 6mm to 50mm wide.
Standard cutting speed slow at 24 m/sec.



Optional large dust capture hood



Optional inverter for variable speed control.
Incorporates electronic motor brake.



Contact wheels from 25mm to 100mm dia. From 12mm to 50mm wide.

STEP 2 - Choose the Stand



We can offer several stand designs.
For one or two machines.
With door or open.
Choice of colours.

STEP 3 - Choose the Dust Extractor



Stand alone extractor
with 100% filtration



Bolt on extractor



Standard stand alone
extractors in 3 sizes



Wet extractors
in 5 sizes



Ducting

STEP 4 - Choose the Consumables



Aluminium Oxide Belts



Zirconia Belts



Ceramic Belts



Compact Grain Belts



Silicon Carbide Belts



Engineered Belts



White stitched Mops



Abrasive Bristle Brushes



Nylon Wheels



Elastomer Wheels



Non Woven Belts



Non Woven Wheels

Who are Surtech?

Surtech have been supplying the latest abrasive machines and materials from around the world for over 30 years.



Surtech Abrasive Test Centre

Here you will find a large selection of the very latest grinding, deburring, polishing, satin finishing and brushing machines.

Bring your own parts and discuss your requirements with our skilled engineers, who will also set up practical demonstrations.

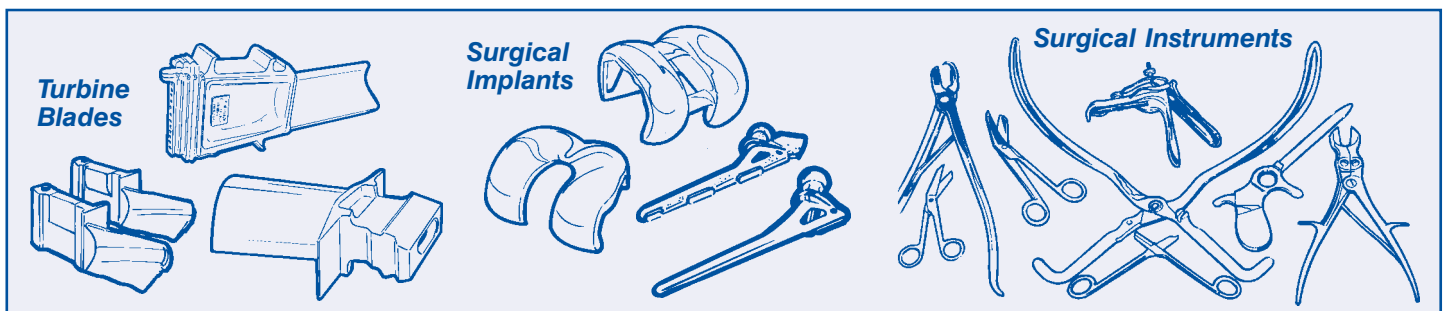
MODEL 411 MINI ABRASIVE BELT GRINDER



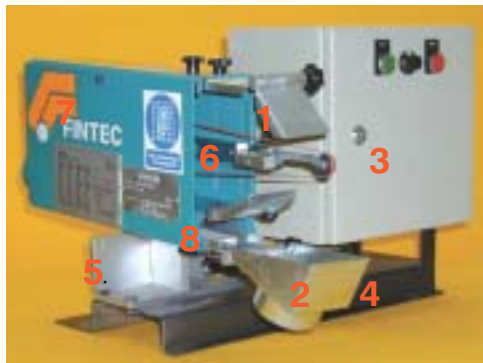
- With single or variable speed
- For grinding and polishing difficult to reach areas
- Ideal for turbine blades, surgical implants, surgical instruments, small castings, etc.
- For rectification of porcelain, earthenware and glass



- Available as bench model, on a pedestal or mounted on a dust extractor
- Over 50 quick change contact arms
- For belts from 5mm to 50mm wide
- Contact wheels from 6mm to 100mm dia.



1. Adjustable top guard
2. Adjustable bottom guard with dust capture hood and 80mm spigot
3. Optional inverter
4. Bench mount
5. Bench mount bracket with working height adjustment
6. Quick change contact wheel assembly
7. Hinged access door for belt change
8. Separate dust channel to rear spigot 80mm dia.



1. 100mm dia drive wheel
2. Belt tensioning wheel
3. Bracket for mounting contact wheel assemblies
4. Slots for adjusting height of contact wheel assemblies
5. Front belt tracking control



The 2 Standard mounting systems for contact wheel assemblies

For small contact wheels



Adjustable bracket



Adjustable bracket with one of the many small contact arms. Incorporating abrasive belt tracking control.



Small contact arm assemblies. 25mm dia.



Small contact arm assemblies
12mm to 19mm dia.



Special big wheels
50mm to 125mm dia.
From 5mm wide.

For large contact wheels



Adjustable bracket



Adjustable bracket with one of the many large contact arms. Incorporating abrasive belt tracking control.



Large contact arm assemblies. 50mm dia.
12mm to 50mm wide.



Large contact arm assemblies
20mm to 100mm dia.



Contact wheels for large contact arm assemblies



Machine in lowest working height position



Machine in highest working height position

TECHNICAL SPECIFICATION

Standard motor:

Approx. 1.1 kW. Supply via inverter is 240V, single phase.

Optional motor:

3 phase, 400V without inverter.

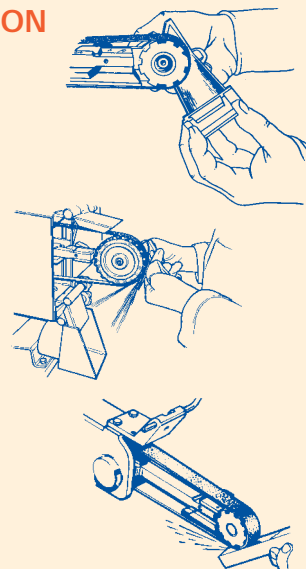
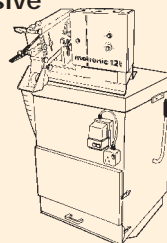
Standard abrasive belt sizes:

1120mm long x 6, 12, 25, or 50mm wide.

Optional abrasive belt sizes:

Up to a maximum of 1500mm long.

Can also be mounted on a dust extractor



CONSUMABLES for the 411 MINI GRINDER

General Purpose Aluminium Oxide Abrasive Belts

Grit range: 36 - 600

Suitable for most metals but not as effective as zirconia or ceramic belts on harder metals.

Zirconia Abrasive Belts

Grit range: 36 - 120

Recommended for stainless steel and some of the harder metals.

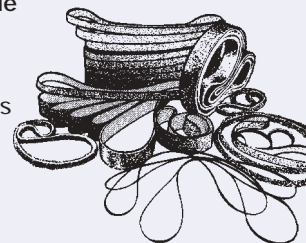
Structured Belts

Grit range: A300 - A6

Equivalent to: 80 - 2500

Ideal for grinding and polishing of turbine blades and implants.

Can eliminate one or more finishing steps.



Structured

Compact Grain Belts

Grit range: A/O 60 - 240, SiC 80 - 600

Designed for finishing of turbine blades and implants.

Clusters of grain result in considerably longer belt life compared with standard abrasive belts.



Compact Grain

Ceramic Abrasive Belts

Grit range: 24 - 120

Recommended for hard metals as often used for turbine blades and surgical implants.

Superfinishing Belts

Grit range: 180 - 2500

Recommended for extremely fine finishing of all metals.

Silicon Carbide Abrasive Belts

Grit range: 80 - 400

For some applications where SiC is specified in preference to A/O.

Diamond Belts

Grit range: 600 - 800 mesh

Will cut and polish any material.

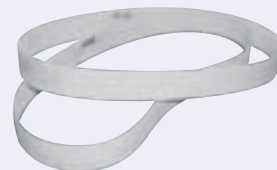
Non Woven Belts

Grit range: Very fine, fine, medium

For blending, deburring and satin finishing.

Cotton Polishing Belts

For mirror polishing. Used with bar compo.



3 WHEEL ABRASIVE BELT GRINDERS



Model L52

Combined support, guard and extraction spigot. Shown here open for work on contact wheel.



Model L52

Shown here closed for work on platen.



High specification electrical controls with rotary on/off switch, indicator lamp and emergency stop. Thermal overload and no volt controls. All in steel case.

Platen can be removed for work on slack of belt. Ideal for contoured parts, tubes and round corners.



- For general grinding, deburring and finishing
- For flat and contoured parts in all metals and plastics
- For deburring sheet metal
- For removing die lines from castings
- For chamfering



Model L50

Shown here with large support table. L50 has no contact wheel and can be used on platen or slack of belt.

Technical Specifications

	L52	L50
Motor	400V, 3 ph, 2-3 HP Two speeds	400V, or 240V 1 HP, Single speed
Abrasive belt	50 x 2000mm	25 x 1060mm
Cutting speed	15 - 30 m/sec	30 m/sec
Contact wheel	50 x 200mm	n/a
Weight	Approx 60 kg	Approx 40 kg
Dust extraction spigot	70mm dia	n/a

ABRASIVE BELT FLATBED GRINDERS (LINISHERS)

INTRODUCTION

'Linisher' used to be the brand name of a flatbed abrasive belt grinder manufactured by Messrs. Turner Machine Tools Ltd. in Birmingham.

'Linisher' has now become a generic name for abrasive belt grinders with a platen.

Some people refer to any operation with abrasive belts as "linishing" because the English language only knows 'grinding'.

'Grinding' does not tell you if wheels or belts are used.

The traditional linisher could be used on the platen only. Some of the more modern designs allow work on the platen or on a contact wheel.



The original LINISHER. Copied from a Turner leaflet.

Model L61 BENCH MODEL LINISHER



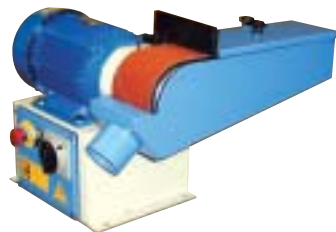
This is the most robust and versatile bench linisher we know. Model L61 is our smallest linisher.

FEATURES

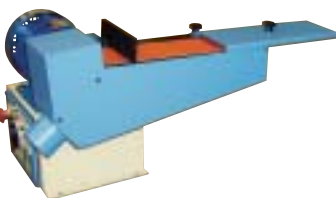
- 400 V, 3phase, 2-3 HP motor
- 100 x 1000mm abrasive belt size
- Platen size 100 x 250mm
- Can be used on platen or contact wheel
- The abrasive belt head can be swivelled to a vertical position or a horizontal position and any angle in between
- The guard system is fully adjustable.



Model L61 guarded for use on only part of the platen



Model L61 guarded for work on the contact wheel



Model L61 guarded for work on the whole of the platen

Model 303



Max. working width 150mm
1.7 - 2.3 HP two speed motor
Abrasive belt size: 150 x 1750mm

Can be mounted horizontally or vertically.

Size of platen: 150 x 500 mm.

Model 306



Model 306 shown here with optional built in dust extractor

Max. working width 250mm.
3-4 HP two speed motor.
Abrasive belt size 250 x 2000mm.

Size of platen: 250 x 625mm.

Guard with dust extraction flange.

Mounted on fabricated stand.

Model 304



Basically the same machine as Model 306 but with a large horizontal table which slides in and out of the abrasive belt.

Guard with dust extraction flange.

Machine mounted on fabricated stand.

Model 206



5.5 HP motor, single speed 1450 rpm

Abrasive belt size: 500 x 2680mm.

Model BS6 OSCILLATING EDGE GRINDERS

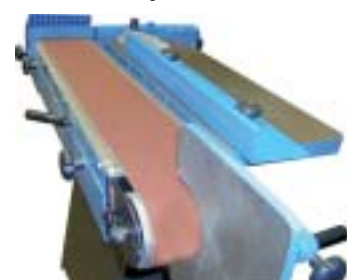


2.2 kW, 240V, single phase motor.

Abrasive belt size: 150 x 2500mm.

Cast metal table: 840 x 300mm.

Rise and fall by hand wheel.



Model Range F 33



Model 334

400 V only. **Model 332**, horizontal position only. **Model 333**, side position only. **Model 334**, vertical position only.

These machines are dedicated finishers with large flatbed platens. All have single speed 4 HP motors or optional 4,5/3,5 HP two speed motors and 200mm x 2000mm abrasive belts. All are for working on the platen only.



Model 332

Platen size = Max. working width and length:

332, 333, 334 200 x 535mm.

Models 332, 333 and 334 are mounted on generously dimensioned cabinet stands with access door and storage shelf for tools and abrasive belts.



Model 333

4.5 / 3.5 HP two speed motor. 440 V, 3 phase.

Abrasive belt in horizontal position with adjustable table in front of belt.

Abrasive belt size: 200mm x 2000mm.
Platen size: 200mm x 535mm.
Cabinet stand with storage shelf. Approx. 195 kg.

Model 310



0.75 HP single speed motor.
Abrasive belt size: 100 x 1000mm.
Platen size: 100mm x 245mm.

Model 311

Same as Model 310 but larger.
3 - 2 HP twin speed motor.
Abrasive belt size: 150 x 1500mm.
Platen size: 150mm x 435mm.

COMBINATION MACHINES

INTRODUCTION

All of the horizontal abrasive belt grinders on pages 3 and 4 have platens and can therefore be used as finishers.

They are often cheaper than dedicated finishers but they are also less versatile and available for horizontal operation only. Platen sizes are limited to max. 150mm width and 450mm length.



A horizontal belt grinder with platen used in the same way as a dedicated finisher.

WET OPERATION FINISHERS

INTRODUCTION

Wet finishers are used for all applications where the part needs to be kept cool or where hazardous materials are involved.

Aluminium, titanium and magnesium are three materials that have to be ground wet because they are liable to cause fires and explosions.

When hazardous materials are ground it may also be necessary to install non sparking guards. Instead of steel guards aluminium guards should be fitted..

Wet finishers must not be used with tap water alone as this will cause serious corrosion in a very short time.

A corrosion inhibitor and lubricant must be added. The ratio is normally 97% to 98% water and 2% to 3% additive.

Model BS 200 W



1.1 KW single speed motor.
16 m/sec cutting speed.
Abrasive belt size: 100 x 950mm.
Size of platen:
Vertical or horizontal position.

Model BS 300 W



Same as Model BS 200 W but larger.
4 KW, single speed motor.
15 m/sec cutting speed.
Abrasive belt size: 300 x 2000mm.
Vertical or horizontal position.

ABRASIVE DISC MACHINES

INTRODUCTION

Abrasive disc machines are rarely used for metal finishing. They are more popular with woodworking Companies.

The cutting speed of the disc is fastest on the outer area and slowest on the inner area.

Discs do not remove metal as fast as belts.

Model 403 HORIZONTAL DISC GRINDER



FEATURES

4 HP single speed 1400 rpm motor.

Disc diameter 500mm.

Either self adhesive or Hook and Loop abrasive discs can be fixed to the aluminium plate.

Model 406 VERTICAL DISC GRINDER



FEATURES

5 HP single speed 1400 rpm motor.

Disc diameter 500mm.

Large support table: 550mm wide x 300mm deep.

Either self adhesive or Hook and Loop abrasive discs can be fixed to the aluminium plate.

SHEET AND TUBE DEBURRING MACHINES CORNER AND EDGE GRINDING AND DEBURRING MACHINES

Model SURTJ JT WIRE WHEEL TUBE END DEBURRING MACHINE



For general deburring wire wheels are still the most popular, most effective and most economical tools.

This machine uses 250mm dia x 60mm wide wire wheels. It has a twin speed 2 - 3 HP motor. Available with 3 phase or single phase motor.

There are adjustments for wheel wear and settings for deburring the ID or the OD of tubes.

Mild steel, stainless steel and abrasive impregnated fibre wheels are available to suit most materials and to produce most finishes. With 100mm dia spigot to fit optional built in dust extractor.



Model Surtj JT set up for deburring tubes.



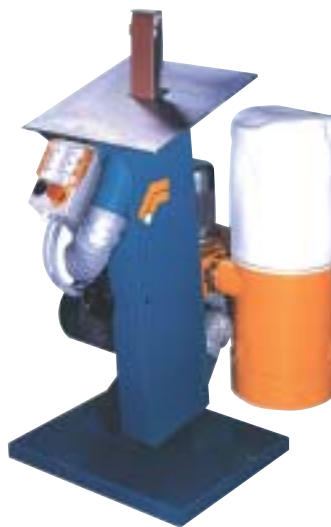
Optional built in dust extractor for Models Surtj JT and Model 250

Model 250 SHEET EDGE DEBURRER



Deburs top and bottom edge in one pass. With 2 abrasive flap wheels. For sheet up to 10mm thick.

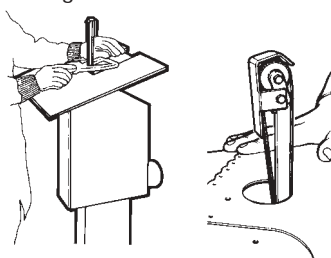
Model 623 ABRASIVE BELT MACHINE



An unusual abrasive belt machine for grinding and deburring difficult parts.

With some unique features:

- Motor: 2 speed, 2-3 HP, three phase only.
- Abrasive belt size: 2000mm long x 6-75mm wide.
- Inclined support table.
- Quick change flat, shaped or round contact arms.
- The only abrasive belt machine that can grind and deburr holes and rings.

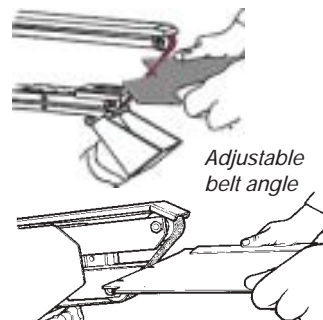


Model 420 ABRASIVE BELT SHEET EDGE DEBURRER



- Faster than any other method
- Coarse to fine belts for all burrs & finishes
- 3.5 HP motor
- Abrasive Belt size: 2000mm x 25mm or 50mm
- Approx weight 90 kg

Manual operation. 3.5 HP motor. Abrasive belt size 2000mm x 25mm or 50mm. Works on the slack of belt. The cutting angle can be set from 135 degrees to 45 degrees. This is the fastest and most economical sheet edge deburrer available. Abrasive belt will wrap around the edge to produce a radiused finish.

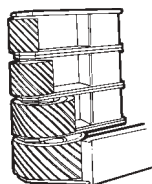


Abrasive belt can be angled to facilitate deburring action

Model 127 BELT EDGE GRINDER

3.5 HP, 400V, 3 phase.
Abrasive belt size: 2000mm x 75mm.

The large table can be fitted in both directions and moved up and down to make use of the entire belt width. For grinding, deburring and chamfering edges on plate, flat bar, thermal cut blanks, hollow sections, castings, etc.



Range of quick change contact wheels from 25mm dia to 200mm dia



Smooth plate edges



Bevel prior to welding



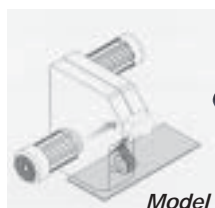
Finish sides of flat bar and hollow sections



Deburr thermal cut blanks

Series 84 AUTOMATIC SHEET EDGE DEBURRERS

For deburring top and bottom edges of sheet simultaneously in one pass.



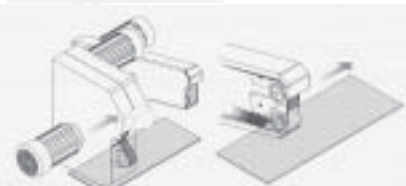
Model 844



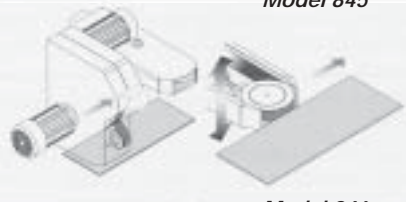
Model 844 has a twin head for deburring top and bottom straight edges of sheet.

Model 845 has a twin head plus a single head for deburring top and bottom straight edges of sheet plus blending the face..

Model 846 has a twin head plus a single head for deburring top and bottom straight edges of sheet plus grinding the face.



Model 845



Model 846

MODEL 213 AND 213 SP MULTI-PURPOSE ABRASIVE BELT GRINDING AND DEBURRING MACHINE

This is one of our most versatile machines. It can carry out grinding, deburring and polishing operations that are not possible on any other machine.:

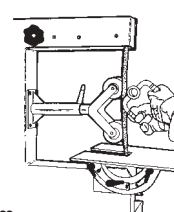
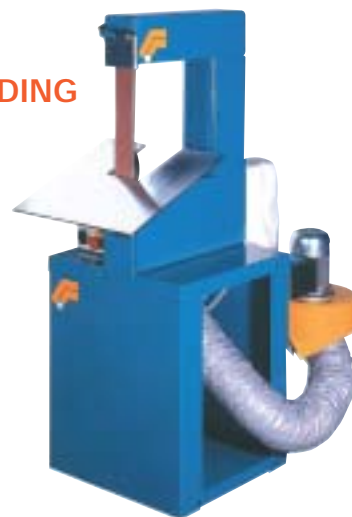
- Grinding on vertical platen
- Grinding on vertical slack of belt
- Grinding on contact wheel
- Grinding of flat surfaces
- Grinding of contoured surfaces
- Deburring of sheet metal edges
- Removal of die lines on castings
- Chamfering
- Grinding slots and bent parts

FEATURES

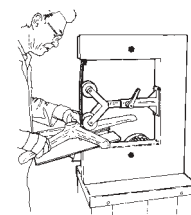
2.5/1.7 HP two speed motor.
Abrasive belt size 25mm to 100mm wide x 2000mm long.

Support table adjustable from -15 degrees to + 60 degrees.

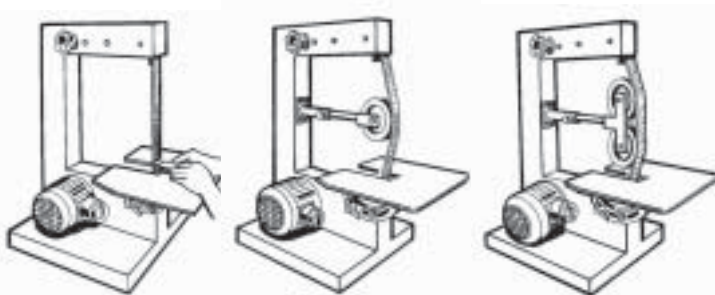
Clearance top to bottom: 350mm.
Clearance back to front: 350mm.



Grind contours



Blend and finish difficult to reach areas

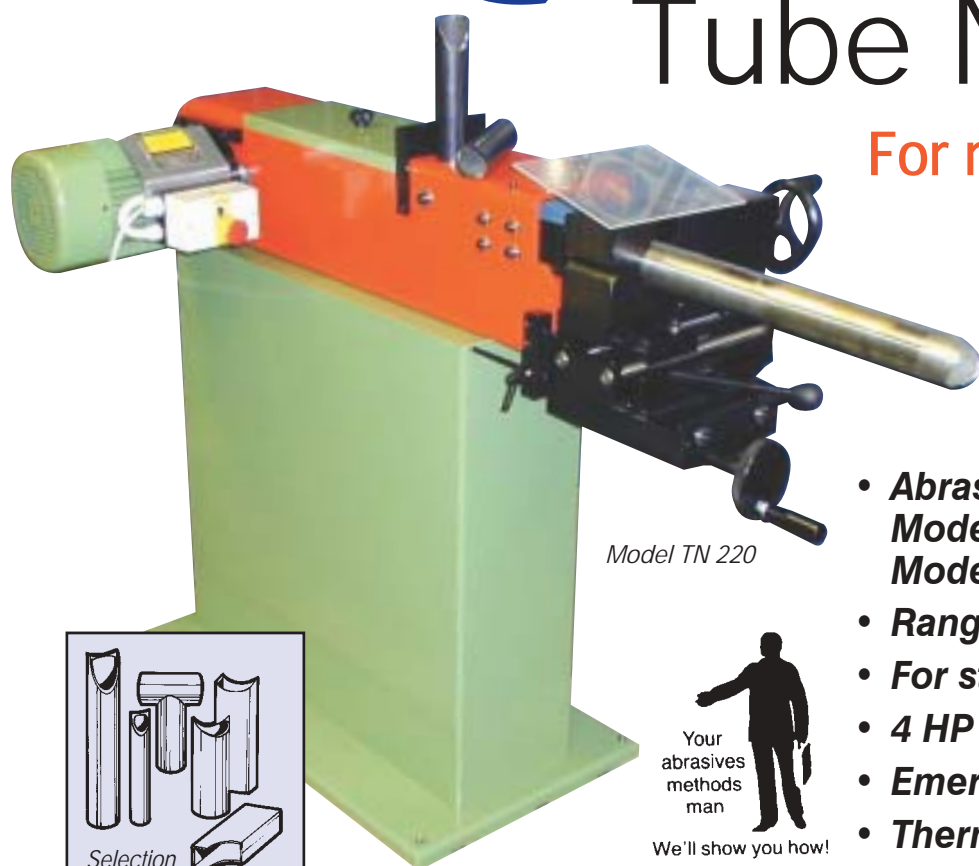


Model TN 201 & Model TN 202 Tube Notchers

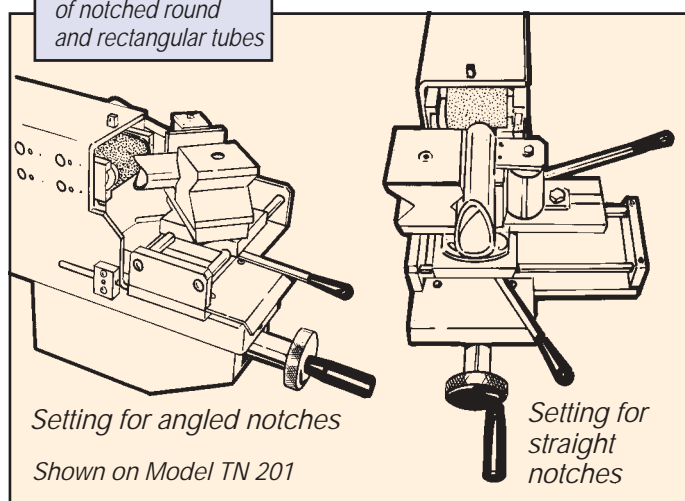
For round & square tube

Model TN 201
20 - 70mm dia.

Model TN 220
20 - 116mm dia.



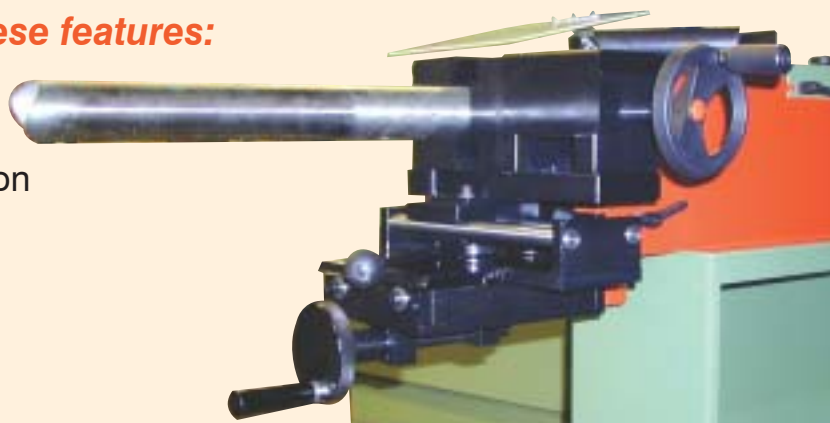
- **Abrasive belt sizes**
Model TN 201 - 75 x 2000mm
Model TN 220 - 120 x 2000mm
- **Range of quick change mandrels**
- **For straight and angled notches**
- **4 HP motor on both models**
- **Emergency stop button**
- **Thermal overload**
- **No volt control**
- **Optional built-in or stand alone dust extractor**



Angle in degrees	Max. tube diameter in mm	
	TN 201	TN 220
30	37	60
45	52	84
60	60	105
90	70.3	116
	TN 201	TN 220
Max Notch Dia (mm)	68.8	114.5

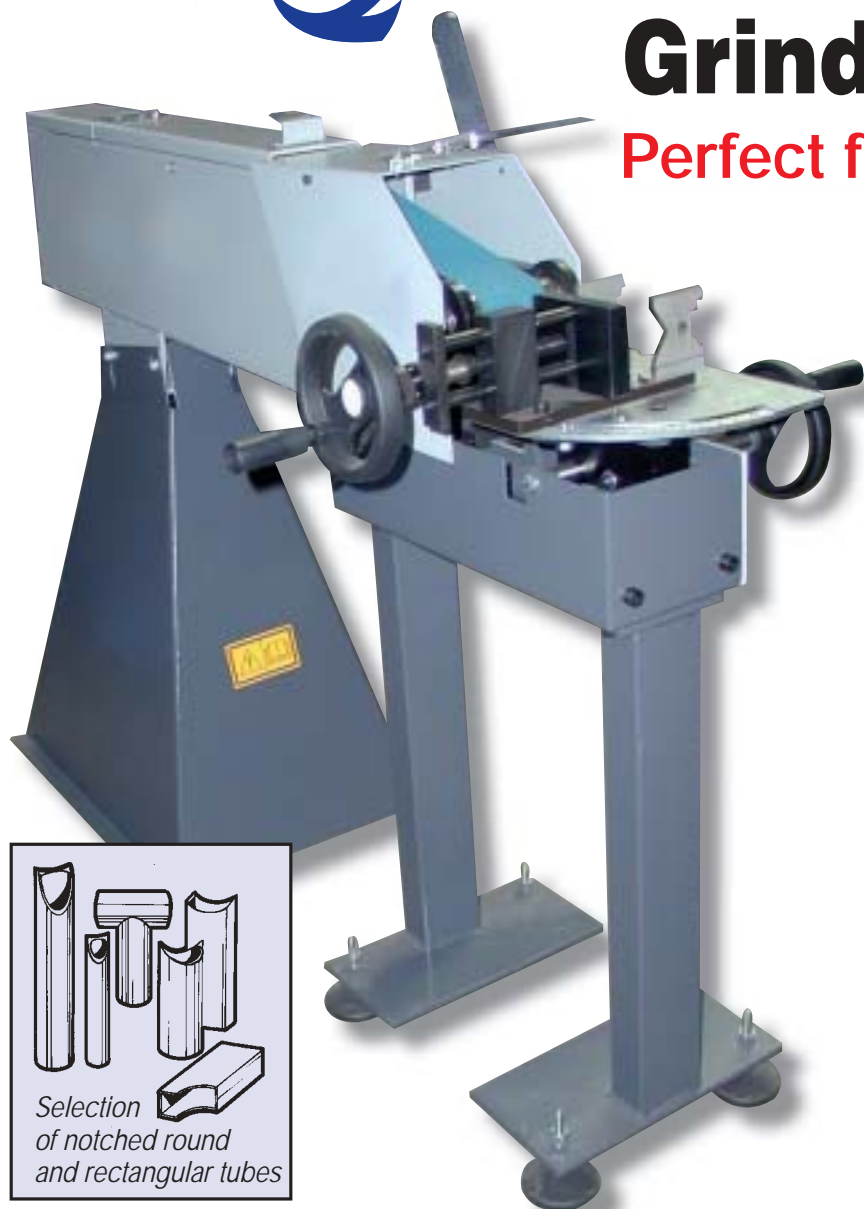
Only this machine has ALL of these features:

- Solid steel vice with 'V'-jaws
- Infeed control for depth of cut
- Slide bar for belt wear compensation
- Lead screw covers
- Depth of cut stop
- Swivel slide for angled cuts
- Protractor scale



KOMBI Belt Grinder / Notcher

Perfect for the jobbing shop



Two models are available:

KOMBI 3075

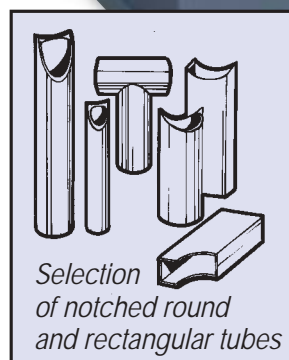
- Min/max. tube dia: 20mm / 70mm
- Motor size: 3kW, 4HP
- Abrasive belt size: 75 x 2000mm
- Top flatbed size: 100 x 390mm

KOMBI 3150

- Min/max. tube dia: 20mm / 145mm
- Motor size: 4kW, 5HP
- Abrasive belt size: 150 x 2000mm
- Top flatbed size: 150 x 390mm

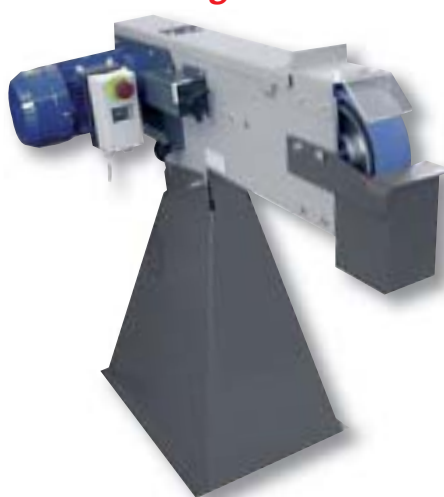
General Spec - both models

- Min/max angle settings: 30° - 90°
- Mandrels made to order
- Twin motor speeds: 1400 & 2800
- Motor insulation & class: B/IP44
- Tube fed into belt by lever.
- Method of using total belt width: Lead screw positioning.
- Working height: 1030mm
- Extraction spigots and size: 1 off 75mm OD.



Changes from belt grinder to notcher in minutes

Take a belt grinder... add a notcher head...



and you
have an
Abrasive
belt tube
notcher

Model 131 Corner Radiusing Machine



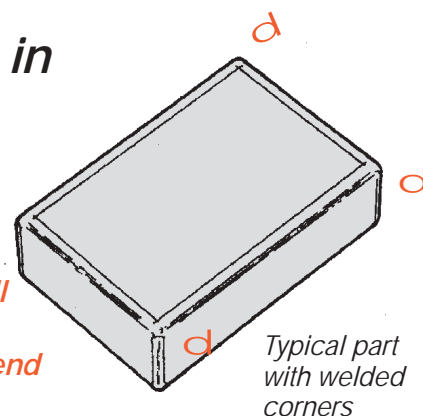
*Just place part
on table.
The machine
will do the rest.*

- *Automatic operation*
- *Perfect and consistent radiused corners in 2 - 5 sec.*
- *Various radii settings*
- *For max. 150mm long corners*
- *3.2 HP, 2 speed motor*
- *Abrasive belt 2000mm x 150mm*
- *Optional built in extractor*

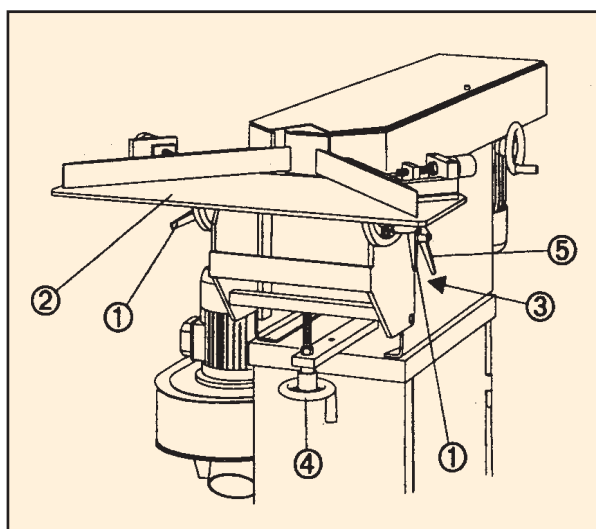


Your
abrasives
methods
man
We'll show you how!

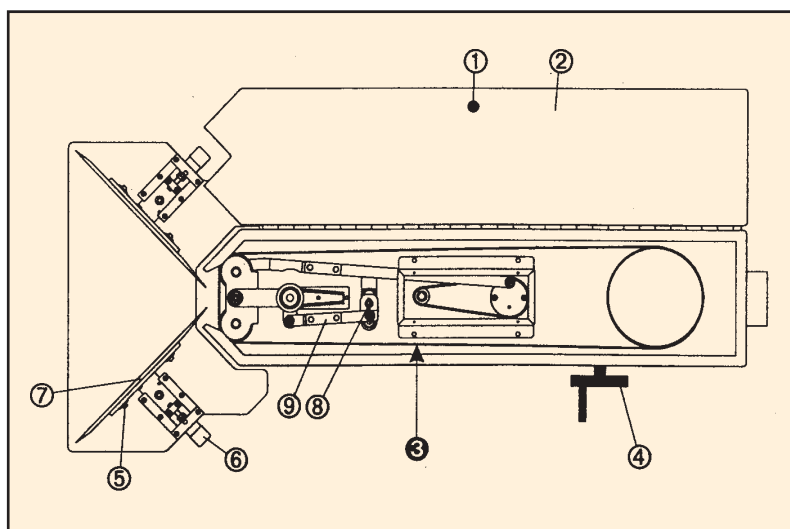
*Model 131 will
automatically
radius and blend
these corners*



*Typical part
with welded
corners*



1. Table angle setting
2. Table
3. Scale for table angle
4. Table height setting
5. Locking handle for table setting



1. Guard door fixing screw
2. Guard door
3. Belt tension check area
4. Belt tension handle
5. Guide adjustment
6. Guide adjustment
7. Guide adjustment
8. Settings for size of radius
9. Settings for size of radius

Model 132 AUTOMATIC RADIUS GRINDING MACHINE

Model 132 abrasive belt machine automatically grinds, blends and finishes corners on welded enclosures up to 600mm x 400mm.

The abrasive belt can be set to oscillate around the corners in a radius from 1 - 10mm.

Use an abrasive belt of the correct grade and grit for grinding. Use an abrasive impregnated nylon belt for blending.

FEATURES

Abrasive belt motor:
2.25 / 1.5 kW.

Abrasive belt motor rpm:
Two speed, 2800 / 1400.

Conveyor belt motor: 0.55 kW.

Conveyor feed speed:
7/35 m/min.

Abrasive belt size:
150mm x 2000mm

Abrasive belt cutting speed:
12 m/sec - 24 m/sec.

Idler wheels: 50mm dia x 150mm wide.

Machine dimensions: 700mm x 1400mm x 1500mm.

Weight: 220 kg.



A typical welded enclosure suitable for automatic corner radius finishing on Model 132

OPERATION

1. Choose abrasive belt grade and grit.
2. Place welded enclosure in the jig.
3. Set belt speed, conveyor feed speed and radius.
4. Start operation.

The abrasive belt head consists of a drive wheel and two idler rolls. Grinding takes place on the slack of belt between the two oscillating idler rolls.



SWING GRINDERS AND FLOOR GRINDERS

Model 126 ABRASIVE BELT SWING GRINDER

FEATURES

4HP single speed motor.

24V control voltage.

Short stem adjustable handle bar

Suspension bracket

Abrasive belt size:
75 mm x 2000 mm

Abrasive belt cutting
speed: 30 m/sec

Contact wheel size:
200mm dia x 75mm wide.

Dimensions: 600mm x 1500mm x
1000mm high.

Weight: 96 kg.

With built in dust extractor:
0.75 KW, 700 cbm/hr



Model 125 ABRASIVE BELT FLOOR GRINDER

This machine is used for grinding plate laying flat on the ground. The floor grinder comprises an abrasive belt head, control handle, wheels and an optional built-in dust extractor. The head can be angled to produce V, X and Y shaped weld preparations.

Abrasive belt widths range from 50mm to 100mm and drive motors from 1KW to 5KW, so floor grinders can be used to remove scale or strip protective lacquer and varnish. These machines will remove the heaviest surface imperfections faster and with a better finish than any other method.

FEATURES

4HP single speed motor.

With 24 V control voltage.

With long stem adjustable
handle bar.

With 6 wheel carriage.

Abrasive belt size:
75mm x 2000mm.

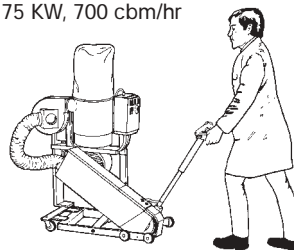
Abrasive belt cutting speed
30 m/sec.

Contact wheel size:
200mm dia x 75mm wide.

Dimensions:
600 mm x 1600mm x 1700mm
high

Weight: 100 kg.

With built in dust extractor:
0.75 KW, 700 cbm/hr



Model 122 ABRASIVE BELT HEAD

FEATURES

6HP single speed
motor.

Abrasive belt cutting
speed 30 m/sec.

Abrasive belt size:
75mm x 2000mm.

Contact wheel dimensions:
200mm dia x 75mm wide.

Machine dimensions:
400mm x 1150mm x 700mm high.

Weight: 84 kg.



BENCH OR PEDESTAL MACHINES FOR GRINDING, DEBURRING AND POLISHING

INTRODUCTION

There are two distinct classes of bench machines:

1. DIY QUALITY
2. INDUSTRIAL QUALITY

DIY machines are mostly fractional horse power machines suitable for intermittent use only.

They range from ridiculously cheap Far Eastern imports which are not worth repairing to higher priced European manufactured machines which are of better build quality but still a long way off the industrial quality machines.

All the DIY machines get extremely hot after about 30 minutes use and are not recommended for all day use.

If you want a machine for intermittent use and you accept its limitations we can supply models at around £100. Anything below this price we do not touch.

If, however, you need an industrial quality machine which will run trouble free on shift work then you will have to spend between £500 and £1200.

All prices mentioned above are for double ended bench motors for grinding wheels or for polishing mops.

Bench mount abrasive belt machines are more expensive.

ABRASIVE BELT BENCH GRINDERS

BENCH Model L50



The best built bench top grinding and deburring machine on the market.

Now with improved features:

- Motor: two speed, 2-3 HP, three phase.
- Abrasive belt size: 2000mm long x 50mm wide. Larger belts last longer and are more economical.
- Large support table.
- Can be used with platen behind belt or on slack of belt without platen.

Ideal for general grinding, for edge deburring and for grinding contours.

Model 616 DOUBLE ENDED POLISHER



Industrial rated double ended polisher.

FEATURES

0.8 / 1 HP, two speed motor 2800 and 1400 rpm.

With parallel spindles
Distance between spindles 520mm.

With guards.

Optional tapered spindles available.

Model 616 is available as bench machine when it is mounted on a bench plinth or as a pedestal machine mounted on a fabricated metal stand.

Model 413 BENCH MODEL ABRASIVE BELT MACHINE



Industrial rated abrasive belt machine with small contact wheels.

FEATURES

0.75 HP, single speed motor 2800rpm.

24 m/sec cutting speed.

Abrasive belt size: 6 mm to 50 mm wide x 1100 mm long.

Contact wheel diameters from 15mm to 100mm.

Model BG 150 XD DOUBLE ENDED BENCH GRINDER/ DEBURRER



- 0.45 kW, 240V, 2850 rpm
- Shaft 12.7mm dia.
- Grinding wheels 150mm OD x 25mm wide x 16mm bore
- Machine fitted with 1 coarse wheel and 1 fine wheel
- Can also be supplied with wire wheels or nylon deburring and finishing wheels



*Optional
pedestal
mount*

Model AE 14000 VARIABLE SPEED POLISHING MACHINE



Model AE 14000 was designed for abrasive discs and wheels with very fast recommended operating speeds. Mainly used for turbine blades.

FEATURES

Motor: 1.5 kW, 230V, single phase input, 800 - 14000 rpm.

Shaft connection at motor end: M10/DIN30.

Shaft length including collet: Up to 200mm.

Shaft diameter: 10mm.

Model AE 14000 can be used as a bench machine or mounted on a stand with dust hood.

Bench, Pedestal & Portable Polishing Machines



Models **603, 606, 663, 666**
Double and single ended for heavy duty industrial non stop work



Model **616**
Light to medium duty industrial work



Model **DSM 200**
For light to medium industrial use



Model **Roto-Buffer R**
Heavy duty portable polisher



Model **AE 5000**
Light to medium duty industrial work. Variable speed.



Models **LBP7 & LBP9**
For light to medium industrial use



Model **Roto-Buffer SU**
Heavy duty portable polisher



Model **Roto-Buffer AG**
Heavy duty portable polisher



Model **AE 14000**
Light to medium duty industrial work. Variable speed.

Model **LAF**
For medium to heavy duty industrial use



Model **PS 150**
For light intermittent use

MODEL S = Single Ended D = Double Ended P = Portable	Motor Size	Motor Speed	Voltage	Max. Mop Size x Width in mm	B = Bench Bench P = Pedestal	T = Tapered P = Parallel	Guard and Extraction Spigot dia in mm
603 - S	2.3HP	1400/2800	400	250 x 50	P	T/P	Yes / 100
663 - D	2.3HP	1400/2800	400	250 x 50	P	T/P	Yes / 100
606 - S	4HP	1400/2800	400	250 x 50	P	T/P	Yes / 100
666 - D	4HP	1400/2800	400	250 x 50	P	T/P	Yes / 100
616 - D	1.1HP	1400/2800	400	200 x 25	P	P	Yes / 100
LBP7 - D	1HP	2800	230	175 x 25	B/P	P	Yes / 100
LBP9 - D	1HP	2800	230	230 x 25	B/P	P	Yes / 100
DSM200 - D	1.2HP	2900	230	200 x 30	B/P	P	Yes / 40
LAF - D	2HP	2800	230	200 x 50	B/P	T	To order
PS150 - D	0.5KW	2950	230	150 x 20	B	P/T	No
Roto-Buffer R - P	2HP	6800	230	125 x 50	n/a	T	No
Roto-Buffer AG - P	2HP	4800	110/230	150 x 50	n/a	T	No
Roto-Buffer SU - P	2HP	2800-5800	110/230	150 x 50	n/a	T	No
AE 5000 - D	2HP	400-5000	230	200 x 50	B/P	T/P	Yes / 100
AE 14000 - S	2HP	800-14000	230	100 x 40	B/P	T/P	To order
AE 10000 - S	0.6HP	800-10000	230	50 x 25	B	T/P	To order

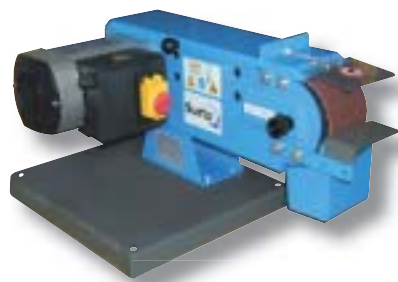


Model **AE 10000**
Light duty industrial work. Variable speed.



Used
Polishing lathes in many configurations, refurbished

Abrasive Belt and Wheel Bench Grinders



Model
BS 100
Belt Grinder



Model
S 50
Belt/Disc
Grinder



Model
L61
Belt Grinder

Model
**100/200
COMBI**
Belt/Wheel
Grinder



Model
L50
Belt
Grinder



Models
DSM 150 GW
DSM 200 GW
Wheel Grinders



Model
BDS
Belt/Disc
Grinder



Model **411**
Variable speed
belt grinder. With
interchangeable
contact arms.
Contact wheels
from 15mm to
100mm dia.



Model
24 HD
Belt
Grinder

MODEL B = Belt G = Grinding Wheel W = Wire Wheel D = Disc	Motor Size	Voltage	G = Grinding Wheel dia. W = Wire Wheel dia. B = Belt Size D = Disc Size	B = Bench P = Pedestal	Guard / Extraction Spigot dia.
100/200 combi - B/G	1.1 HP	230	W = 200 x 30mm B = 100 x 915mm	B	Yes / 45mm
DSM200GW - W	0.9KW	230	W = 200mm	B	Yes / 45mm
DSM150GW - W	0.5KW	230	W = 150mm	B	Yes / 20mm
BS100 - B	2HP	240	B = 100 x 1220mm	B/P	Yes / 75mm
BDS - B/D	0.55KW	230	B = 150 x 1220mm D = 225mm	P	Yes / 55mm
L50 - B	1.5HP	230 or 400	B = 25 x 1360mm	B/P	No
L61 - B	3 HP	230 or 400	B = 100 x 1000mm	B	Yes / 70mm
S50 - B/D	0.75 KW	240	B = 50 x 1000mm D = 150mm	B	Yes / 35mm
24 HD - B	2HP	400	B = 50 x 1525	B	To order
411 - B	0.75HP	240	B = 12 or 25 or 50 x 1120mm	B	Yes / 2 x 80mm

Variable speed grinding, deburring, sanding, denibbing, finishing and polishing machine

- Suitable for all metals, wood, plastics, paint, ceramics, etc.
- For use with abrasive belts, abrasive wheels, abrasive discs, abrasive brushes, mops, buffs, etc.

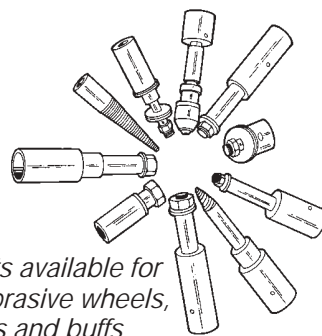


	AE4000/0.5	AE 5000/0.55	AE 5000/1.5
Motor	Single phase, AC 220/240V, 50 Hz	AC 220/240V, 50 Hz	DC 220/240V, 50 Hz
Input supply	220V/240V Single phase AC		
kW	0.5	0.55	1.5
RPM	340-4000	400-5000	400-5000
Right hand Spindle thread	M33	M33	M33
Left hand Spindle thread	M20	M20	M20
Weight	30 kg	30 kg	30 kg

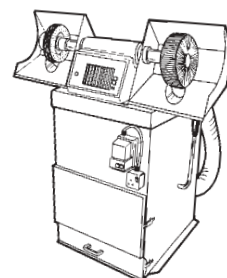
**Available as
pedestal model
or bench model.**

*Pedestal model shown above
with spindles and guards.*

*Bench model shown right
without spindles and guards.*



*Shafts available for
all abrasive wheels,
mops and buffs*



*Can be mounted
on dust extractor*



*Mirror polishing lacquer with
a wool mop.*



*Superfinishing implants with
diamond brush.*



*Finishing difficult areas
with Sandex abrasives.*



*Denibbing with abrasive
sanding stars.*



*Mirror polishing metals with
cotton mops.*



*Superfinishing
turbine blades with
diamond brushes.*



Polising small radii.



*Satin finishing with abrasive
nylon belts.*

Milling, Grinding, Sanding & Polishing Machines for the Orthopaedic Industry



Model K 2003

Milling, sanding and polishing machine

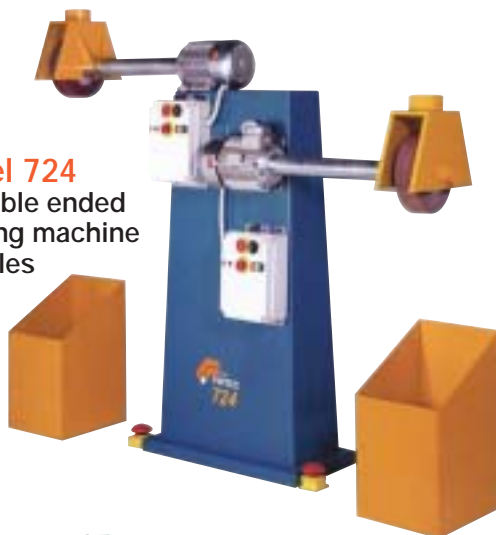
- Column mounted and height adjustable
- 2 speed or variable speed
- Adjustable guard, foot control and emergency off button



Model 704, Model 724

Single ended or double ended sanding and polishing machine with extended spindles

- 3.3 kW motor
- 2 speed or variable speed
- Adjustable working height



Model 506

Combination grinding, sanding and polishing machine

- Abrasive belt head on left
- Buff head on right
- 3 - 4 HP
- 2 speed or variable speed
- Optional built-in dust extractor



Model 3100

Double ended sanding and polishing machine

- 2 speed or variable speed
- Built-in dust extractor



Model K 2002

Milling, sanding and polishing spindle

- Built-in dust extractor
- 2 speed or variable speed
- Adjustable guard, foot control and emergency off button



Model 3400

Combination milling, grinding, sanding and polishing machine

- Flatbed platen and support table on left
- Spindle on right
- 2 speed or variable speed



Model K 2004

Bench top milling, sanding and polishing machine

- 2 speed or variable speed



Model A 275

Bench mount chuck spindle

- 3 speeds - 700, 1400, 2800 rpm



Modular 3-dimensional precision Welding Tables with ingenious clamping system



THE WELDING TABLES

Two basic modular versions - two professional modular versions offer many possibilities:



*The one sided **BASIC** table. Without skirt. Available with 16mm dia. holes and 50mm grid. Also available with 28mm dia holes and 100mm grid.*



*The five sided **PROFESSIONAL** table with 200mm deep skirt, Available with 16mm dia. holes and 50mm grid. Also available with 28mm dia. holes and 100mm grid. Can be enlarged by attaching one or several more tables.*

Basic tables have the same design as professional tables but without the skirt. The S4-System tables are offered in two basic versions: with 16mm holes and a 50mm grid, and with 28mm holes and a 100mm grid.

The wide-ranging accessory programme enables the S4 system tables to adapt to most demands. The modular concept makes it possible to combine several tables. This means, that the working area can grow in line with the order book. Alternatively, several workplaces can be joined together for an unusually large workpiece. The S4 system is ready for all eventualities.

Precision and long life

The S4 system is manufactured with a tolerance of 0.03mm for hole spacings, which makes it particularly suitable for fixture construction. The use of high quality steels guarantees long life and a high degree of dimensional precision

Several surfaces to choose from

S4 tables are available in various materials: steel, cast iron or stainless steel. Siegmund is the only manufacturer to offer a table made of HARDOX. HARDOX is well known for its sensational properties of extraordinary flatness, uniform surface quality and the great resistance to wear. In addition HARDOX surfaces are very resistant to weld spatter.

The latest addition to welding table surfaces are plasma-nitrided coatings which harden the surface to approx. 550 Vickers and offer optimal resistant to weld spatter, scratching and corrosion.



INTRODUCTION

Siegmund produce welding tables with modular clamping and fixture systems for metal construction. The tables can also be used as jiggling tables.

SYSTEM 16

For light to medium heavy fabrications up to ???
Ideal for balustraders, architectural metalworkers, tube and pipe fabricators

SYSTEM 28

For heavy to extra heavy fabrications up to 5000 kg.

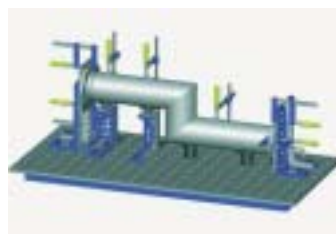
- Up to 40% time saving
- To a tolerance of 0.03mm
- In steel, stainless, Hardox or plasma nitrided
- Any size, any weight (up to 50 t)
- More than 100 clamps to suit plate, tube, pipe, fabrications, etc.



SOME APPLICATIONS FOR OUR WELDING TABLES



Tubular Fabrications.



Tooled up for welding pipe.



Balustrades.

Siegmund welding tables can handle all jigging jobs. All sizes. All weights. All shapes. The modular system grows with you.



Stops set up for mitred tube.



Several tables set up for extra heavy and large fabrications.



Ask for a copy of our 384 page catalogue.

THE TABLE TOOLS

Shorter working time thanks to an ingenious rapid clamping system

The heart of the S4 systems is the universal ball bolt. Its carefully thought out mechanical design means that it can be reliably fixed in place with one hand in a second or so. This means that setting up or changeover time is greatly reduced.

Comparative tests with conventional work tables and screw clamps showed a potential saving in working time of up to 40 %.



The Clamps. For hollow sections and for tubes. Adjustable angles and interchangeable prisms.



The Stops.



Clamping squares extend over the table.



Close up shows position of holes and grid.



The optional tool stand with some of the most popular clamps, stops, clamping bolts, etc.

For more details click on www.siegmund.eu

Then click on **UK**, then click on **welding tables** in left column. Then click on **Service/Downloads**

Then click on any of the following, either **System 28** or **System 16**: **Tables** • **Table legs** • **Stops** • **Squares** • **Bolts** • **Clamps and accessories** • **Prisms** • **Supports** • **Fast clamping equipment** • **Magnetic clamping technology** • **Accessories** • **Sets** • **Connecting elements** • **Anti spatter**.

For most first time buyers Tables, Table legs and Sets (=tool sets) are the most important sections.

For an explanation of "System 16" and "System 28" click on **Welding Tables** in second top line and then click on **System 28** or **System 16** in left column.

For a drawing of the System 16 or System 28 grid click on **System 28/ System16 Grid** in left column

For choice of welding table materials click on **S4 surfaces** in left column.

Bevelling Machines With Rotary Shear Cutters

- **Model CHP 6**
- **Model CHP 12**
- **Model CHP 12-G**
- **Model CHP 12-G REV**
- **Model CHP 21-G**
- **Model CHP 21-G REV**

All CHP bevelling machines use rotary shears for cutting. Rotary shears cut faster than milling cutters used in many other bevelling machines, however the finish is not as smooth as produced by milling cutters but has a rippled surface.

Model CHP 12 is the most popular machine. It covers nearly 80% of all bevelling operations with portable and transportable machines. Model CHP 12 as well as Model CHP 21 can be mounted on wheeled carriages so that the machines self propel along the length of the plate.



CHP 6



CHP 12







CHP 12-G



CHP machines can also bevel tubes and small plates



CHP 21-G

MILLING CUTTERS	CHP 6	CHP 12	CHP 12-G CHP 12-G REV	CHP 21-G CHP 21-G INV
 1026 for carbon sheets	X	X	X	
 1026-1 for stainless steel	X	X	X	
 1026-F for aluminium	X	X	X	
 2003-A for carbon & stainless steel				X



Bevel
angles

	CHP 6	CHP 12	CHP 12G CHP 12G REV	CHP 21G CHP 21G INV
Motor Power	0.75 HP	3 HP	3 HP	4 HP
Voltage	220/380 V	220/380 V	220/380 V	220/380 V
Approx Feed Speed per minute				
on mild steel	1.8m	2.6m	2.6m	1.7m
on stainless steel	0.9m	1.3m	1.3m	0.9m
Max bevel width				
on mild steel	6mm	12mm	12mm	20mm
on stainless steel	5mm	10mm	10mm	16mm
Bevel angle	30°	30°	20-45°	20-45°
Plate thickness	3-16mm	6-40mm	6-30mm	9-50mm
Approx weight	34 kg	65 kg	110 kg	370 kg

Chamfering, Beveling & RADIUSING Machines

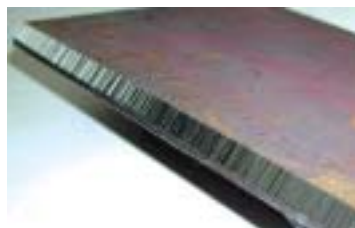
We can offer the largest range of chamfering and beveling machines in the UK. From light to extra heavy duty portable, bench or pedestal mounted. Special designs for heavy plate as used in ship and bridge building.

The machines shown here are a selection of our most popular models.

Bevel Finishes



Radiusing on one or both edges. 2 - 6mm radii.



The slightly rippled bevel finish from machines with milling cutters.



The smoothest finish produced by abrasive belts or discs.

Portable Beveling machines with milling cutters



Model 2014

1.5 KW, 0 - 5mm chamfer



Model 2023

2.6 KW, 0 - 10mm chamfer



Model 760

1 KW, 0 - 15mm chamfer



Model KaKi 2014-42

1.4 KW, 0.5 - 6mm radii

Pedestal and Bench Chamfering machine with abrasive discs



Model 43

0 - 3mm chamfer



Model 61

0 - 6mm chamfer



Model 650

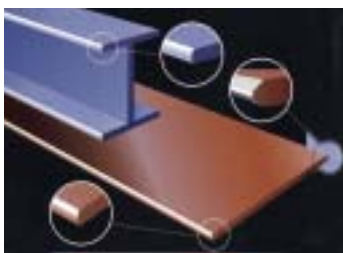
0 - 10mm chamfer



0 - 10mm chamfer (horizontal cutting head)

Edge preparation for shipbuilders, bridgebuilders and the construction industry

These are our largest machines. For plate, flat bar, girders, bulb flats, etc. All of these machines use abrasive belts for faster stock removal and improved finish.



- Edge grinding
- Corner radiusing
- Beveling
- Removing primer and rust
- Removing hardened surface
- Straightening edges



A typical installation with infeed and outfeed handling. With multihead abrasive belt power grinders inside acoustic booth. With central control cabinet.

Wet Extractors for
non hazardous and
hazardous dusts

Dust Extractors for Surtech Abrasive Belt Grinding Machines

Dry Extractors for non hazardous
and hazardous metal dusts



W60 -
W220

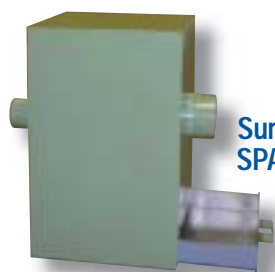


Dust Benches



Surtx DB

Spark Arresters



Surtx
SPAR

Used Extractors

All makes & models



ASP 700



DE 2000



FX3 - FX294



DCP 250



DVS



Dustomat 10

Coolant Filters



VRA

MODEL	Capacity Approx. CFM	Fan Motor HP / Voltage	Extraction Spigots in mm	W = Wet D = Dry	H = Hazardous NH = Non Hazardous
ASP 700	385	0.75 / 4000 or 230	80 or 100 or 150	D	NH
DCP 25	350	0.5 / 400 or 230	2 x 100	D	NH
DVS	380	0.5 / 400 or 230	2 x 75	D	NH
DE 2000	1000	1.8 / 400	2 x 80, 2 x 100	D	NH
FX3 - FX294	400-3500	0.7-10 / 400	vary by model	D	NH or H
DUSTOMAT10	420	1.4 / 400 or 230	1 x 100	D	NH and H
Suitable for aluminium and very fine dust from wood, plastics and lacquer					
W60 - W220	500-6000	1.4-20 / 400	vary by model	W	NH or H
Dust Benches - Designed and built to order. From 1000mm to 2000mm wide.					
VRA - Automatic coolant filter. 75 litre capacity. With paper filter.					
Used	All capacities	400 or 230	vary by model	W or D	NH or H

Do not forget
capture hoods,
ducting,
connectors, gates
and other optional
accessories
necessary for
a complete
installation.

Observe COSHH,
ATEX, DSEAR
regulations.

For more
information and
Health and Safety
matters ask for a
copy of our **EASY
GUIDE** for dust.

You are Invited to visit the UK's largest Abrasive Test Centre



More than 25 bench and pedestal grinding, deburring and polishing machines are always on show

At the Surtech Abrasive Test Centre where you will find the UK's largest selection of the very latest grinding, deburring, polishing, satin finishing & brushing machines.

Bring your own parts and discuss your requirements with our skilled engineers who will also set up practical demonstrations. See for yourself how our machines can be used to solve problems and improve efficiency.

Surtech was formed in 1973 to specialise in the manufacture and distribution of mechanical surface finishing equipment and materials.

Within this field we aim to provide the latest available technology from anywhere in the world. We are constantly reviewing the needs of our customers and we tailor our product range accordingly.

HOW TO ARRANGE A VISIT

Please Ring our sales office on 0121 359 4322 and tell us when you want to visit. We can fit you in most days.

Please give a brief outline of what you want to see so that we can arrange to have the most suitable machines available.

Surtech trained engineers will be on hand to advise and demonstrate.

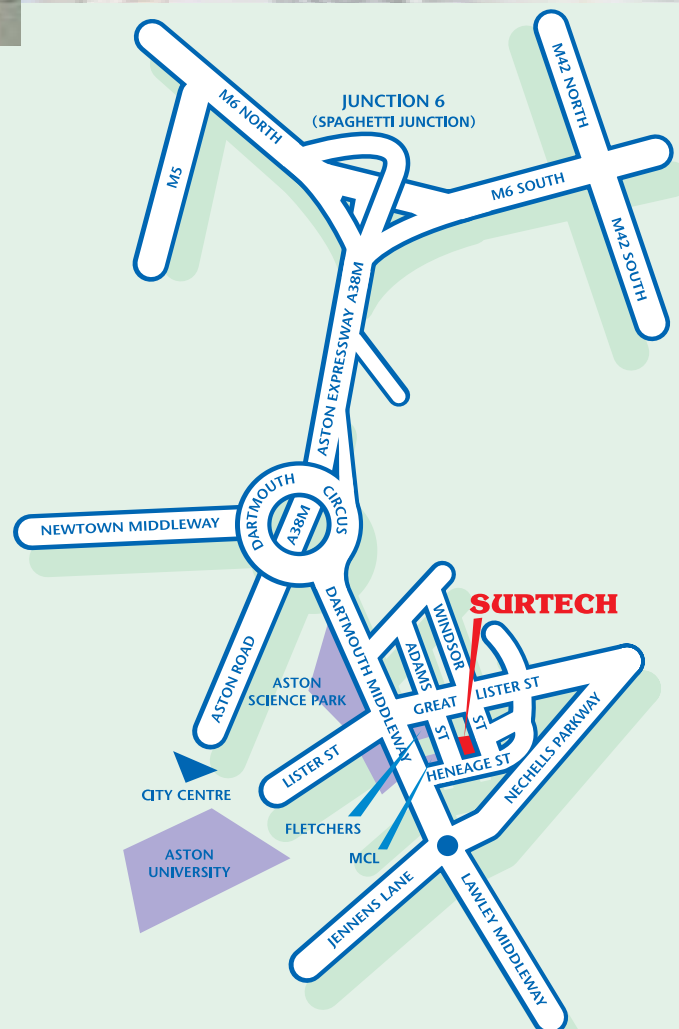
HOW TO FIND US

Coming from **M6 North** or **South** exit at '**Junction 6**' (**Spaghetti Junction**) following signs '**Birmingham Central A38 (M)**' stay in left lane. Ignore first A38 (M) exit signposted '**Aston, Perry Barr**'.

Follow overhead signs to '**Ring Road, City Centre, Bromsgrove (A38)**'. Stay in left lane to leave roundabout at first exit and follow signs '**Wholesale and Indoor Markets**' then signs to '**Convention Centre, National Indoor Arena**' and finally '**Ring Road And Other Routes**', '**Birmingham Airport, NEC, Lichfield**'.

Stay in left lane to set of traffic lights outside '**Fletcher's Autostore**'. Stay in left lane for approx another 100m and take first left turning into '**Heneage Street**', also signposted '**The Parkway Industrial Centre**'.

Surtech are the first Company on the left after '**Adams Street**'. Park outside or opposite on the industrial estate.



Surface Technology Products Ltd

244 Heneage Street, Birmingham B7 4LY

Tel: 0121 359 4322 Fax: 0121 359 1817

Email: sales@surtech.co.uk www.surtech.co.uk