



Surtech

Easy Guide Used Machines



Used manual
operation Belt
Grinding machines

Pages 2 - 5

Used automatic
operation Grinding,
Deburring and
Polishing machines

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Used Dust
Extractors

P. 9 - 11

All subject to availability

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USED POLISHING LATHES WITH TWO INDEPENDENT MOTORS

INTRODUCTION

We complement our vast range of new mechanical grinding, deburring and polishing machines with used models to support customers with a limited budget.

We always have several of the most popular machines instock Through our international associated network we can obtain virtually any machine, make and model.

We offer our machines in three categories:

1. As seen
2. Refurbished
3. Reconditioned to A1

The machines and dust extractors shown on pages 2-8 are not current stock but a listing of equipment made during the last 30 years and still useable and regularly available.

Used Model BO MORRIS 402 NON STOP double ended polishing lathe

- Two independent motors, 1.5 HP each
- Tapered spindles
- With aluminium motor body
- Single speed.
- 4 bearings

Ditto, 4 bearings, with dual speed 1450/2900 rpm
Ditto with 6 bearings, single speed
Ditto with 6 bearings, dual speed 1450/2900 rpm



Used Model BO MORRIS 403 NON STOP double ended polishing lathe

- Two independent motors, 3HP ea
- Tapered spindles. With cast iron motor body
- 4 bearings. With single speed
- 2 x 1.5 HP, 2 x 3HP

The BO Morris NON STOP machines with aluminium motor body are not as robust as the CANNINGS TWIN MOTOR machines with steel bodies. The BO Morris 4 bearing machines have smaller bearings and an aluminium housing. They are more difficult to restore.



We do not recommend the NON STOP machines with 4 bearings for wheels larger than 250mm dia and wider than 75mm when run at 2900 rpm.

Used Model CANNINGS 2577/1 TWIN MOTOR double ended polishing lathe

- Independent motors on each end
- Originally available with 2 or 3 HP motors.
- With 2850 rpm, 1425 rpm or even mixed.
- Tapered spindles



Used Model CANNINGS 2577/2

(Catalogue No. 7307)

Available with 2, 3 or 5 HP motors

Used Model CANNINGS 1671/1 double ended polishing lathe

1 motor drives spindle via V-belts

Originally available with 5, 7 1/2, and 10 HP motors

Used Model CANNINGS 1671/2

(Catalogue No. 7305)

Originally available with 7.5, 10, 15 and 20 HP motors



Used Model CANNINGS 1612/1 double ended polishing lathe

Originally available with 1, 2, 3, 4 and 5 HP motors



Used Model 1612/2 CANNINGS double ended polishing lathe

- 2 bearings each end
- Originally available with 1, 2, 3 or 5 HP motors
- 2900 rpm or 1450 rpm



Used Model 1612/3 CANNINGS double ended polishing lathe

(Catalogue No. 7302)

- Originally available with 2, 3 and 5 HP motors
- 2900 rpm and 1450 rpm
- Metric bearings

Used Model 1531/1 CANNINGS double ended polishing lathe

- 1 bearing each end
- Originally available with 1, 2, 3 and 5 HP motors
- The motor is bolted on to the pedestal with 4 bolts



Used Model 1531/2 CANNINGS double ended polishing lathe

- With one bearing each end
- Originally available with 1, 2, 3 and 5 HP motors
- The motor housing and pedestal are integrated



Used Model 1531/3 CANNINGS double ended polishing lathe

- With one bearing each end
- Originally available with 1, 2, 3 and 5 HP motors
- The motor housing and pedestal are integrated

The bearings are more heavy duty (double row) than on models 1531/1 and 1531/2 and cost 3 times more.



Used Model CRUICKSHANKS Model PU Also called "bomb", "torpedo" or "cigar"

- 1 bearing each end
- 2HP, 3HP and 5 HP motor
- Tapered spindle ends



USED CONTINENTAL MAKE EXTRA HEAVY DUTY POLISHING LATHES

Continental polishing machines are available with standing or with sitting working height.

The single motor machines are very much like the British 'polishing lathes' They usually have a direct spindle drive and two speed motors. The two motor machines drive the polishing spindle via a V-belt and have 3 pulleys at each end for three different speeds

Motor sizes from approx. 5 HP to over 20 HP Motors can be outside or inside the stand Normally with parallel spindles only. These machines use the same polishing buffs that are used on automatic machines, usually 400mm diameter but optionally up to 500mm dia.

Continental abrasive belt grinders (backstands) and polishing machines

The best recognised makes are METABO, REMA and GREIF. All of them manufactured

REMA, METABO and GREIF are the leading brands. Rare in the UK

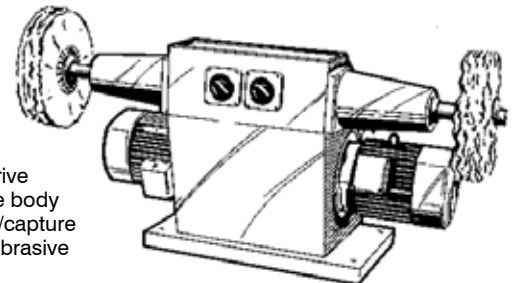
Used Extra heavy duty REMA double ended polishing Machine.

- Single motor, V-belt drive
- Motor inside stand
- Free standing guards/capture hoods



Used Extra heavy duty REMA double ended polishing Machine.

- 2 motors, V-belt drive
- Motors outside the body
- Flanged on guard/capture hood on left and abrasive belt head on right



REMA

Below is a typical range of REMA machines

MODEL	MOTOR	ABRASIVE BELT SIZE mm	CONTACT WHEEL DIA. mm	No. OF SPEEDS
DP30	2.2 kW	3500 x 100	200 - 450	1450
DP40	2.2 - 5.2 kW	3500 x 100	200 - 450	950 - 2900 or twin
DPN	2.2 - 5.2 kW	3500 x 100	200 - 450	950 - 2900 or twin
SMZ57	2.0 - 7.5 kW	3500 x 100	200 - 450	3
SMG58	2.2 - 4.0 kW	3500 x 100	200 - 450	3

The contact wheel size has to be matched to the rpm to prevent buffs or belts running above the save speed of 45 m/sec.

Of all the German machines the REMA models are the most robust in our opinion. They are also the only manufacturer who still builds the entire range and who can supply spares for all models.

REMA today are the leading manufacturer of foundry grinding and cutting machines, from manual to fully automatic and CNC controlled.



METABO

Used METABO NON STOP Double ended polishing lathe

- 2 motors, 3 HP each
- V-belt drive
- Flanged on guards/ capture hoods
- Fully reconditioned and with variable speed
- Inverters fitted by Surtech
- Also available without inverters



Below is a typical range of METABO machines

More recent models

MODEL	MOTOR kW	ABRASIVE BELT SIZE mm	CONTACT WHEEL DIA. mm	No. OF SPEEDS
72780	Twin, 2.2 kw on outside of body	3500 / 4000 x 100	250 - 450	3
72711	Single 2.2 - 7.5 kw on outside of body	3500 / 4000 x 100	250 - 450	3

Older models

MODEL	MOTOR kW	ABRASIVE BELT SIZE mm	CONTACT WHEEL DIA. mm	No. OF SPEEDS
77775	Twin, 4 kw on outside of body	4000 x 100	350 / 400	3
77777	Twin, 5.5 kw on outside of body	4000 x 100	350 / 400	3
7778	Twin, 7.5 kw on outside of body	4000 x 100	350 / 400	3
7779	Twin, 8.8 kw on outside of body	4000 x 100	350 / 400	3

The 3 speeds can be set via the V-belt drive with 3 pulleys.

As with all German machines Metabo were available for sitting or standing operation.



GREIF

GREIF was one of the internationally best recognised and best manufacturers of manual abrasive belt grinding machines and polishing machines. As with all Continental machines GREIF models were available for the operator standing or sitting.

Below is a typical range of GREIF machines

MODEL	MOTOR	ABRASIVE BELT SIZE mm	CONTACT WHEEL DIA. mm	No. OF SPEEDS
DV30	2hp	75 x 3000	450	1500
DV30	3,4 hp	75 x 2500	250	3000
DV40	4 hp	100 x 3450	350 - 400	1500
DV40	5hp	100 x 3450	300	3000
DV50	7.5hp	100 x 3450	450	1500
DV50	10hp	100 x 3450	300	3000

Greif machines were also built in the UK by Greif Machines (UK) Ltd., Later Tex Abrasives Ltd. In Colchester.



INTRODUCTION TO MAXI-BUFF MACHINES

Manual polishing has not changed for more than 50 years whilst automatic polishing has improved through at least 2 fundamental changes. First the introduction of precision made polishing buffs from loom state cotton and sisal and second the development of fully automated CNC and robot polishing machines with ever larger buff diameters.

Now this technology is available for manual polishing. The machines are very similar to those used with robot cells and the buffs are identical to those used with CNC and robot polishing machines. The 960mm dia buffs run much slower than the 250mm dia buffs on traditional polishing lathes, however, the cutting speed is very similar.

The larger diameter buff covers a much bigger area of the part to be polished and the "drag effect" of the large buff considerably increases the polishing action. Parts remain cooler and cycle times are reduced. supply most from stock and all within a short delivery period.

MAXI-BUFF MACHINE SPECIFICATION

Motor	5.5 KW
Variable speed	Infinitely variable from 250 to 800 rpm
Polishing spindle	45mm dia
Polishing spindle height	775mm
Polishing buff diameter	Max. 960mm, Min. 350mm
Polishing buff width	Max. 120mm
Extraction spigot	150mm dia
Recommended dust extraction capacity	18 cu/m min

USED ACCESSORIES & OPTIONAL EXTRAS FOR SECOND HAND POLISHING LATHES

Used DUST HOODS/GUARDS

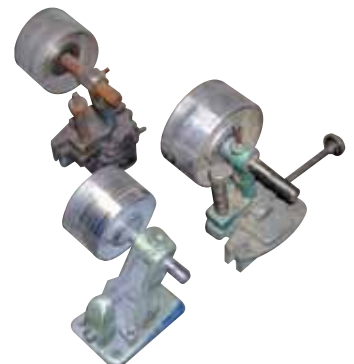
Free standing dust hoods for polishing lathes.



USED ABRASIVE BELT GRINDERS

Used BENCH TYPE IDLER BACKSTANDS

- Help to turn polishing lathes into abrasive belt machines. Various models.
- Left and right hand.



Used Model MAXI-BUFF HP 960/2 DL-F MANUAL POLISHING MACHINE

- Electronic variable speed control via frequency inverter.
- 960mm dia polishing buffs.



Used CANNING FLOOR STANDING IDLER BACKSTANDS



Used Cannings polishing lathes with 'nodding Donkey' floor mounted idler backstands.

The 'nodding donkeys' can be used with all Cannings polishing lathes to turn them into abrasive belt machines

Because there are too many combinations we cannot list all, but a typical system would be as follows:

- Cannings 5HP Model 1612 lathe
- 2 contact wheels
- 2 nodding donkeys
- 2 guards

Used CANNINGS BOLT ON ABRASIVE BELT ARMS

The bolt on abrasive belt arms can be fitted to all Cannings polishing lathes which have machined motor body ends to turn them into abrasive belt grinders. Belt arms are for belt lengths of either 5' (1525mm) or 9' (2745mm).

Because there are too many combinations we cannot list all, but a typical system would consist of the following:

- Cannings Model 1612 5HP polishing lathe
- 2 bolt on abrasive belt arms, 2 contact wheels, 2 guards



Used MORRISFLEX NON STOP ACCESSORIES



This picture shows a Model 403 polishing lathe with 2 x 3 HP motors and contact wheels fitted.

This machine can be run with a backstand similar to Model 410, shown ??



Cannings free standing twin idler wheel backstand without a guard.

There were also bolt on abrasive belt arms, ie

Model BSE 100/F

shown on right with manual controls. Needs special end adaptors on Model 403 polishing lathe.



Cannings bolt on vertical idler backstand.

This picture shows a typical guard used for abrasive belt bench type backstands.

Used MEGGA MASTER TWIN WHEEL ABRASIVE BELT GRINDING MACHINE

Extensively used in foundries for fettling of Castings

Because of the very heavy use in foundries and foundries' habit to use machines beyond their normal life span these machines are very rarely available in a condition that allows an economical restoration.



- 7,5 HP motor
- Pneumatic belt tensioning
- Abrasive belt size: 2745mm x 100mm
- Contact wheel size: 355mm X 100mm
- Weight: Approx. 330 kg
- Dimensions: 1055 mm wide x 1270mm deep x 1145mm high

Used VANCO BENCH TOP ABRASIVE BELT GRINDING AND DEBURRING MACHINE

Vanco are one of the most popular small general grinding and deburring machines.

There are 4 Models:

Used Vanco Flexiband No. 1

- Abrasive belt size: 25 x 1065mm
- ¾ HP motor, single or 3 phase

Used Vanco Flexiband No. 2B

- Abrasive belt size: 50 x 1065mm
- ¾ HP motor, single or 3 phase

Used Vanco Flexiband 24 HD

- Abrasive belt size: 50 x 1525mm
- 2 HP motor, 3 phase
- With platen or optional contact wheel

Used Vanco Flexiband No. 700

- Abrasive belt size: 50 x 1525mm
- 2 HP motor, 3 phase
- With contact wheel



Flexiband No. 1



Flexiband No. 2



Flexiband 24HD mounted on a dust extractor



Flexiband No. 700

Used MODEL KS 350 MULTI PURPOSE ABRASIVE BELT GRINDER

Despite its 'Heath Robinson' design this is still the most versatile manual abrasive belt machine ever built.

Now replaced by Model KS 100 to comply with latest Health and Safety Recommendations,

Model KS 350 is still more versatile than Model KS 100.

Despite the vast number of KS 350 machines sold good examples are rare.



Model KS 350 Shown here with optional BC centreless attachment for grinding and polishing of tubes.

Used HORIZONTAL ABRASIVE BELT GRINDERS

The cheapest manual abrasive belt grinders available. Suitable for most general purpose Grinding and deburring operations.

This type of abrasive belt grinder has become standard equipment for metalworking Companies throughout the world and is the best seller.

There are more than a dozen manufacturers in Europe alone. Quality varies, but competition is so tough, prices usually indicate quality.



Four of many makes of Belt Grinders



Used TUBE NOTCHERS



Model Spadi Notcher



Model Aceti Notcher

Abrasive belt tube notchers entered the UK market around 1997 when SURTECH started to import an American built machine. Shortly afterwards European build machines entered the market, better built and complying with European safety recommendations.

Now there are more than 10 European manufacturers and as with abrasive belt grinders there are top quality, average and budget machines.

MISCELLANEOUS USED MACHINES

The photos below show some of the many automatic machines we have sold over the years.

Discuss your requirements with us and let us offer you the best machine for your operation.



Tube Polishers



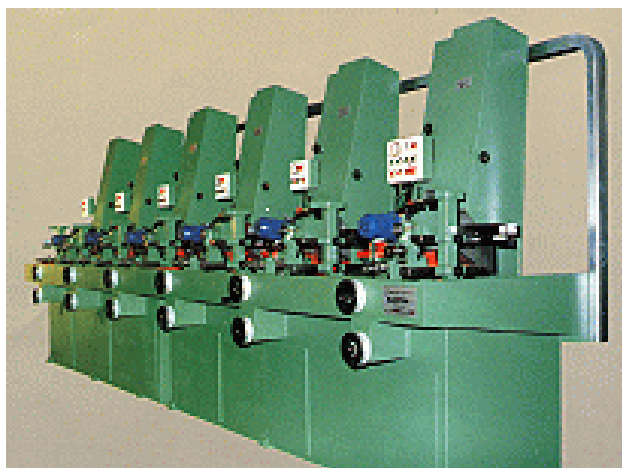
Wide belt Grinding machines



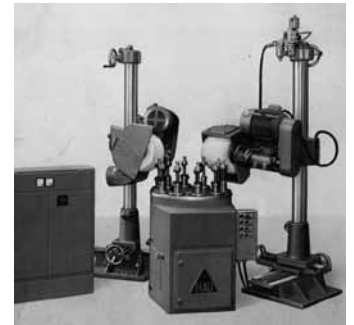
*Flatbed
narrow belt
Multihead
throughfeed
machines*



Multihead Tube Polishers



*Wide belt
Deburrers*



*Continuous Rotary Table
Polishing machines*



Indexing Rotary Table Polishing machines



Long Belt Grinders



Robots with Bell Units

See also our 'Easy Guide Dust' for current models and Health and Safety recommendations.

OTHER MAKES OF DUST EXTRACTORS

Ask for availability and stock list.

USED DUST EXTRACTORS FOR ABRASIVE BELT GRINDING, DEBURRING AND POLISHING MACHINES

Used Model Range MS Dry operation

These are the extractors we recommend for use with our abrasive belt grinding, deburring and polishing machines.

All have needle felt filters, an explosion panel and a blast barrier.

All have manual shakers.

They are suitable for non hazardous dusts and in certain circumstances for aluminium dust.

MODEL MS 25

Approx. 250 to 450 cfm

MODEL MS 50

Approx. 400 to 700 cfm

MODEL MS 100

Approx. 700 to 1200 cfm



Model MS 100

Used Model range MS dust extractors do occasionally come on the market. We also sell ex demo models from time to time. Ask for stock list.

Used Model Range DCE

DCE are top quality extractors made in the UK. By the DCE Company who were probably the largest UK manufacturer of dust equipment in their time.

All DCE extractors have automatic shakers, one of the reasons they are more expensive than simpler extractors but also a feature that is expensive to repair or replace because the automatic controls consist of electronics that are difficult to obtain nowadays.



Used Models DCE UMA 72, DCE UMA 73, DCE UMA 74

All with 6,2 sq m filtration area, 0,75 KW fan motor.
Main difference is size of dust container

Used Models DCE UMA 102, DCE UMA 103, DCE UMA 104

All with 9,3 sq m filtration area. With 0,75 or 1,5 KW fan.
Different size dust containers

Used Models DCE UMA 152, DCE UMA 153, DCE UMA 154

All with 14 sq m filtration area.
With 0,75 KW, 1,5 KW, 2,2 KW or 3 KW fan.
Different size dust containers.

Used Models DCE UMA 252, DCE UMA 253, DCE UMA 254

All with 22,7 sq m filtration area With 0,75 KW, 1,5 KW, 2,2 KW, 3 KW or 5 KW fan motor.
Different size dust containers.



These are various makes of dry dust extractors we have sold.

For wet extractors see next page.

Used Model Range W Wet operation dust extractors

Manufacturer: Carter Environmental (used to be E. Thorne).

These extractors are by far the most popular wet dust extractors in the UK. Arguably not the most technically advanced but practicable and good value for money.

W extractors are available with standard specification for non hazardous dusts or with special specification for titanium or magnesium.

The most common problem with these wet operation extractors is that Companies run them with water and without a corrosion inhibitor. As a result they rust prematurely. Maintenance is also often neglected causing a heavy build up of solidified dust on all internal surfaces.

The restoration of a used wet extractor is expensive and only worth while if corrosion has not penetrated sheet metal.

Model W 60

approx. 500 cfm 1,1 KW fan motor.

Model W 80

approx. 1200 to 1500 cfm 2,2 KW or 3 KW fan motor.

Model W 120

approx. 2000 to 2700 cfm 4 KW, 5,5 KW or 7,5 KW fan motor.

Model W 185

approx. 3300 to 4400 cfm 7,5 KW or 11 KW fan motor.

Used Model Range LW Wet operation dust extractors

Very similar to the W range but with fibreglass and stainless steel bodies.

Corrosion free but fibreglass prone to cracking, causing leaks.

Cracks can be repaired.

Considerably more expensive, but will outlast W range. Very rarely available used.

Model LW 22W

4 KW fan motor, self induced scrubber, waterlevel control.



Two fully refurbished Model LW Wet extractors



TERMS AND CONDITIONS OF SALE FOR USED POLISHING LATHES, BACKSTANDS AND DUST EXTRACTORS

WARRANTY FOR USED GOODS

The following limitations to the seller's warranty terms for new equipment apply to all used equipment and materials:

(a) Sold as seen

No warranty at all. No CE certificate supplied. Manuals supplied only if an original manual exists. The buyer is responsible for putting machines in a safe working condition in compliance with current Health and Safety Regulations.

(b) Refurbished to working order

Warranty 1 month from date of invoice. Limited only to parts that have been replaced or repaired by Surtech, not to original parts. Replacement or repair of replacement parts only, excluding labour. No CE certificate. Manuals only if original manuals exist. The buyer is responsible for putting the machine in safe working condition in compliance with current Health and Safety Regulations.

(c) Reconditioned to A1

3 months from date of invoice. Covers all parts. Replacement or repair of parts only, excluding labour. No CE certificate supplied. Manuals supplied only if original manual exists. The buyer is responsible for putting the machine in safe working condition in compliance with current Health and Safety Regulations, unless agreed otherwise in writing.

We strongly recommend you view any used machine before you buy.

1. SOLD AS SEEN

BACKSTANDS AND POLISHING LATHES

The machines are run and a report is made about general condition, whether bearings are noisy or not, whether shaft is tight or loose and what controls, if any are fitted.

Machines are supplied with existing tapered or parallel spindle ends in whatever state they are. Some machines have no tapered or parallel spindle ends.

OTHER MACHINES

Machines are run to check which functions work and which need attention. Electrical controls are checked for safety. A report is available for every machine.

If machines are "sold as seen" the supplier has to inform the purchaser of all necessary work and additions to bring the machine up to the latest Health and Safety Recommendations. (See Also under CE CERTIFICATES AND MANUALS below)

DUST EXTRACTORS

The fan motors of dust extractors are checked and run for a short period. Filters are checked for holes and excessive wear. Automatic shakers are checked. Extractor bodies are checked for corrosion. Extractor is checked for complete parts. Any faults or missing parts are reported and reflected in the price. In the case of wet extractors some corrosion can be expected.

2. REFURBISHED TO WORKING ORDER

BACKSTANDS AND POLISHING LATHES

Motors are checked across all phases and earth. If motors show normal readings then we assume that they are in working order. However, this does not mean that we guarantee motors. There is no guarantee on motors. Motors can still fail. The risk of motor failure is with the buyer. The cost of rewinding a motor, including labour is between £ 350.00 and £ 400.00.

Bearings and motor shafts are checked for noise and play. Only excessively noisy bearings are replaced. A slight rumble in the bearings is accepted. Slight play in the motor shaft is accepted. If controls are in working order and safe they are left. Faulty controls are repaired or replaced.

Tapered or parallel spindle ends are recut or replaced if not in good working order. Machines are normally not painted until the buyer decides on the colour.

OTHER MACHINES

All functions of the machine are checked and if not working or in reasonable working order they are repaired. Machines can have worn but serviceable parts. Machines are then run for at least one hour and if no problems show up they are passed for despatch.

DUST EXTRACTORS

The fan motors of dust extractors are checked and if they run satisfactorily for at least 1 hour they are considered to be in good working order.

Filters are checked for holes, for excessive wear and for cleanliness. If they are in good working order they are left alone, if they are in poor condition they will be replaced. Automatic shakers are tested and left alone if they are working perfectly. If not, they are repaired or replaced. Machine bodies are inspected for corrosion. Corroded parts are either repaired or replaced. If the paint finish is in a reasonable condition it will be left as is, if it is in a poor condition the extractor will be resprayed.

In the case of wet extractors corroded parts will be repaired. The guarantee period for this category machine is 1 month from date of invoice. The guarantee on these machines extends only to parts which we have replaced, not to existing parts or to parts which have been repaired.

3. RECONDITIONED TO A1

BACKSTANDS AND POLISHING LATHES

Motors are checked across all phases and earth and run for approx. 1 hour. If readings are normal and they run for one hour we consider them in good working order. However, this does not mean that motors are guaranteed. Old motors can fail after a short while or run for years. The risk is entirely with the buyer. We do offer an optional rewind of motors at costs between £ 350.00 and £ 400.00. Rewound motors carry the rewinders guarantee.

Motor shafts and bearings are dismantled. Bearings are replaced regardless of condition and motor shafts are repaired and machined if necessary. Bearings are packed with new grease. Controls are replaced with modern ones. Spindle ends are recut or replaced.

OTHER MACHINES

Machines are dismantled and cleaned. Where necessary they are shotblast and re-painted. All worn parts are replaced. Electrical controls are brought up to the latest standards.

A CE certificate and a manual will only be supplied if available.

DUST EXTRACTORS

Dust extractor fans are checked for smooth running. Noisy bearings are replaced.

New filters are fitted. A1 extractors are expected to have corrosion free bodies without the need of repairs. They will be resprayed. In the case of wet extractors corroded parts will not be repaired but replaced with new ones. Automatic shakers are checked and replaced unless in perfect working order.

We strongly recommend you view any used machine before you buy.

CE CERTIFICATES AND MANUALS

The supply of used equipment is subject to the requirements of section 6 of the Health and Safety at Work Act 1974 (as amended), even if no modifications to the original specification have been made.

Section 6 will apply even if the machine was originally CE marked. Used machines must be safe when put into use.

The supplier can sell a machine without all the safeguards providing that these have been made known to the buyer and the buyer has agreed to correct deficiencies before the machine is taken into use.

Most used machines have no CE certificate and no manual. Machines made before the CE regulations came into force do not require a CE certificate. Other machines can be certified by the user who can also prepare a manual. It is the user's responsibility to ensure that machines are safe in use.

SURTECH can produce the necessary documentation for a CE certificate and a manual. Depending on the type of machine the documentation costs between £500 and £1500.

Users who import machines from outside the EU area are responsible for complying with the EU CE marking and must issue a CE certificate backed by a Technical File.

PAYMENT

All reconditioned machines must be paid for in full prior to delivery.

Introducing the largest and most advanced range of
DEBURRING • GRAINING • FINISHING • POLISHING

Machines, Tools, Accessories and Consumables for Sheet Metal Engineers • Sheet & Plate Fabricators • Profilers • Steel Centres



Traditional wide belt machines from 600 - 1500mm working widths



Newly designed dedicated machines for deburring, corner rounding and oxide removal



Narrow belt throughfeed machines 150-300mm wide



Bench top belt grinders



Portable abrasive wheel power tools



Single belt finishing machines



Portable belt files and tube finishing tools



Plasma cut blank deburring machines



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Belt grinders



Dust extractors
 Dry and wet



Portable and automatic
 bevelling machines



Straight and bent tube
 polishing machines



Weld Cleaning tools



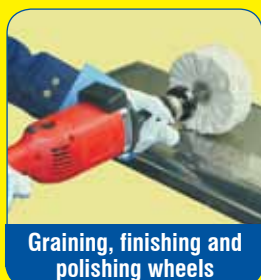
Multi-purpose
 belt grinders



Pneumatic, expanding &
 standard contact wheels



Polishing mops
 and compo



Graining, finishing and
 polishing wheels



Narrow and wide abrasive belts for all applications