



# CLASSIC

## Wide Belt Sanders

For Calibration,  
Solid Wood, Veneer, and  
Lacquer sanding

Innovative sanding systems  
from the specialists

**Bütfering**®

# The Specialist from Germany



Overview of the final assembly area



Technical innovation, improved performance and safety were all criteria judged for the Europa Award, which Büferring® won in 1996

with their single head 'Electronic' sander with CPS segmented pad.



Safety is of paramount importance, and Büferring® machines correspond to the safety regulations of the EEC in all points.

Woodworking companies all over the world are using Büferring® wide belt sanders, and with good reason.

For over 50 years, Büferring® have been making sanding machines, and today still specialise in this field.

With such a focused research and development program, combined with the solid family values which shaped the company, a Büferring® machine will always offer the latest in sanding technology and live up to a reputation for high build quality, and dependable performance.

**National and international awards, such as the 'Bavarian State Prize', the 'Federal Innovation Prize' and the 'Europa Award', bear testament to an ongoing development program to offer 'state of the art' technology.**



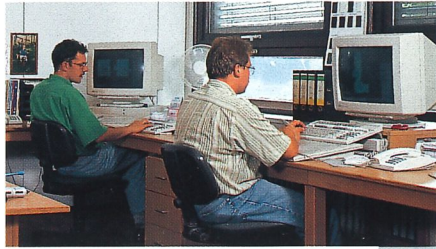
Reg.-Nr. 4005-01

An important objective was reached in 1995 when the company received the internationally recognised DIN EN ISO 9001 quality assurance certificate.



Management and sales team in conference

Büffering® uses the most modern techniques for design, production and sales. The sales network consists of Büffering® sanding specialists, who support a large number of dealers throughout the world. In this way customers can be sure that the optimum machine is recommended for their sanding application. Thousands of Büffering® sanding machines are installed worldwide, and service, when necessary, is provided either by a Büffering® trained local dealer, or by the highly-qualified team of Büffering® Service Engineers.



In the design department everyone works with CAD.



To guarantee high standards, Büffering® maintains an ongoing training policy for the 200 employees, and has a separate workshop for apprentices.



The Büffering® service team



The Sendenhorst Factory

# The Machine



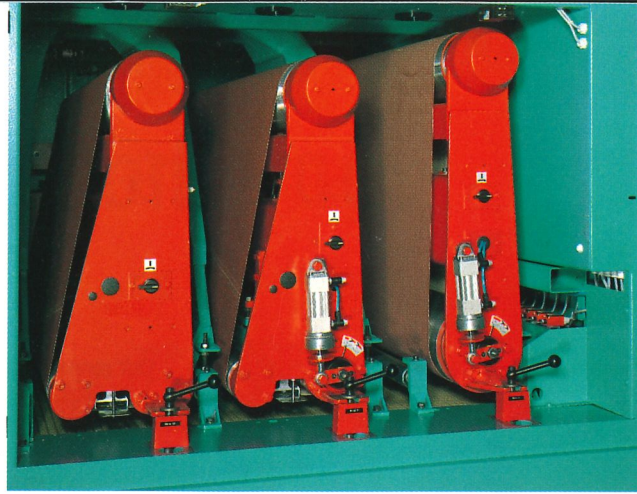
Compact in design, ready within seconds, versatile in its use – the single head Classic E.



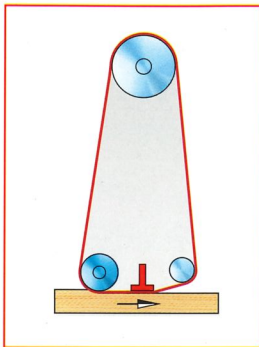
Classic E  
with Combi-head in  
standard execution

The different types of 'head' are shown in this photo of a Classic 3 machine.

- **Steel contact roller head** (fitted with the option of automatic positioning).
- **Combi head** with electronically controlled segmented pad head (fitted with the option of automatic positioning).
- **Sanding pad head** with electronically controlled segmented pad

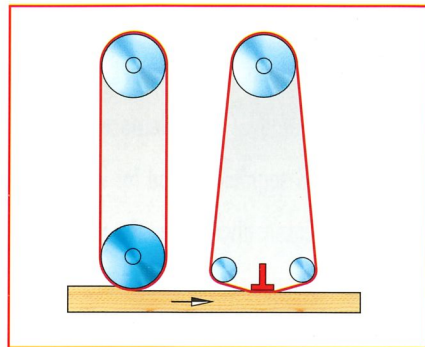


**The five Classic types: All in 1100 or 1350 mm working widths.**



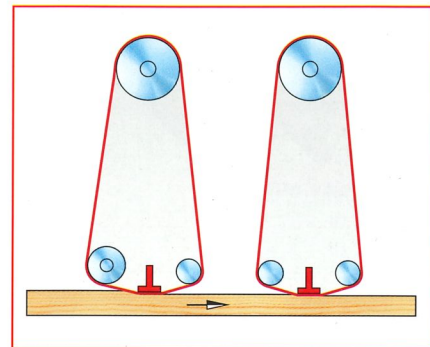
**Classic E**

- Precise calibrating with the contact roller
- Sanding of solid wood: 1st pass with contact roller 2nd pass with segmented pad
- Sanding of veneered workpieces with the segmented pad in one or two passes
- Intermediate lacquer sanding, if the machine is equipped with the lacquer sanding package



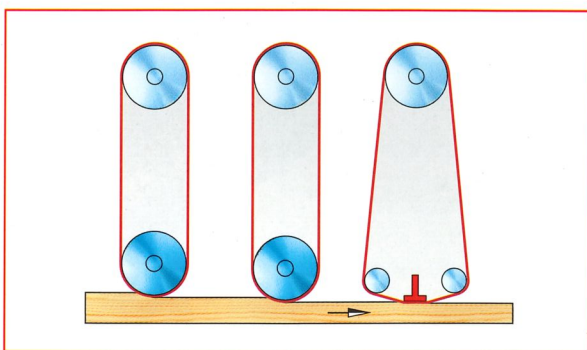
**Classic 2 E**

- Precise calibrating with the contact roller
- Sanding of solid wood with the contact roller and segmented pad in one pass
- Sanding of veneered workpieces with segmented pad in one or two passes
- Intermediate lacquer sanding, if the machine is equipped with the lacquer sanding package



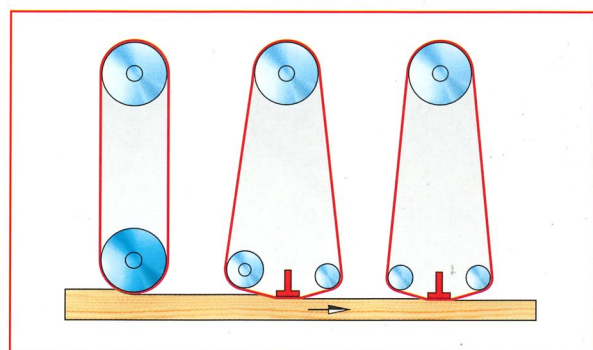
**Classic 2 C-E**

- Precise calibrating with the contact roller
- Sanding of solid wood with the contact roller and segmented pad in one pass
- Sanding of veneered workpieces with the two segmented pads
- Intermediate lacquer sanding with one or two heads, if the machine is equipped with the lacquer sanding package



**Classic 3 E**

- Precise calibrating with one or two contact rollers
- Sanding of solid wood with two contact rollers and one segmented pad
- Sanding of veneered workpieces with the segmented pad in one or two passes
- Intermediate lacquer sanding, if the machine is equipped with the lacquer sanding package



**Classic 3 C-E**

- Precise calibrating with the contact roller of the 1st head or with both contact rollers
- Sanding of solid wood with two contact rollers and one segmented pad or with one contact roller and two segmented pads
- Sanding of veneered workpieces with segmented pads of the second and third head
- Intermediate lacquer sanding with one or two segmented pads, if the machine is equipped with the lacquer sanding package

# The Classic

The Classic range: – High Tech sanding systems, ergonomically designed for simple and safe operation.

Includes Bütfering®'s patented CPS segmented pad, for superlative sanding performance.

Programmable machine setting with operator 'Terminal', for fast, accurate, high quality sanding results on a wide range of applications.



Constant passline is a standard feature.

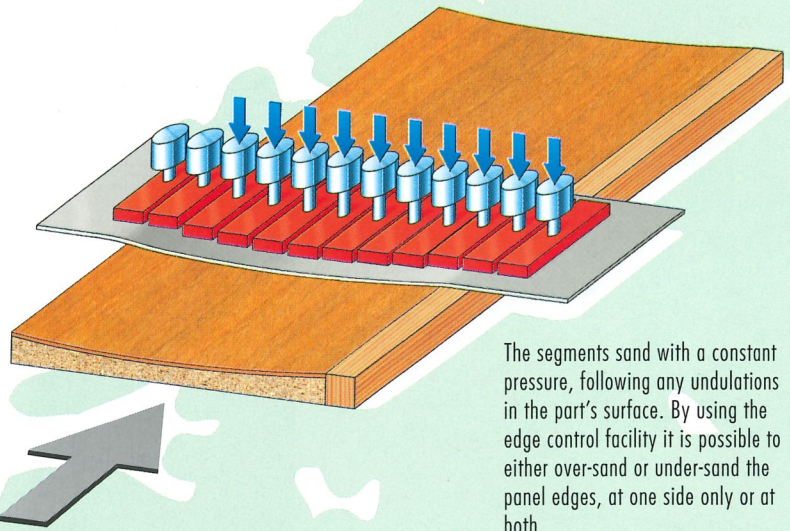
The new Classic Wide Belt Sander is the result of more than 50 years of sanding experience. With thoughtful engineering, and state-of-the-art manufacturing, Bütfering® offers an affordable machine with segmented pad technology while maintaining unsurpassed German quality.

With its compact, yet heavy duty construction, the Classic proves its quality in sanding.

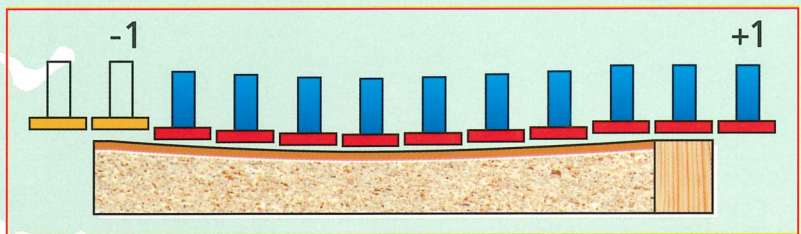
# The CPS Segmented Pad

Perfect sanding is all about pressure application: The abrasive belt must sand with just the right pressure, and the pressure must always be applied in the right place. This is where the CPS system comes in. The CPS pad needs to know the size and shape of a workpiece, and its precise location in the machine at all times.

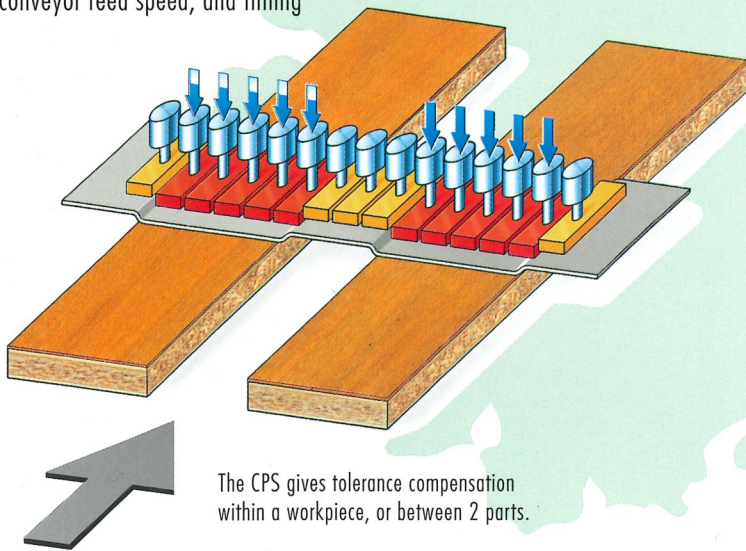
To do this, the workpiece is scanned as it enters the sander, and the information immediately fed to an on-board PLC. The controller then directs the operation of each CPS segment for perfect pressure application, taking into account the conveyor feed speed, and timing



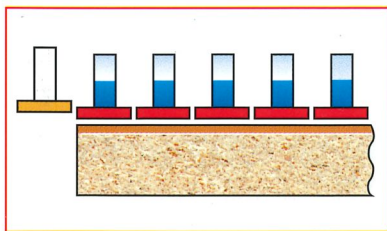
The segments sand with a constant pressure, following any undulations in the part's surface. By using the edge control facility it is possible to either over-sand or under-sand the panel edges, at one side only or at both.



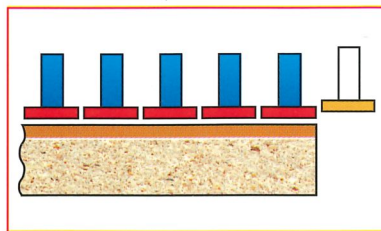
Edge sanding pressure can be modified by adding or deducting segments.



The CPS gives tolerance compensation within a workpiece, or between 2 parts.



Scanned control of sanding pressure.

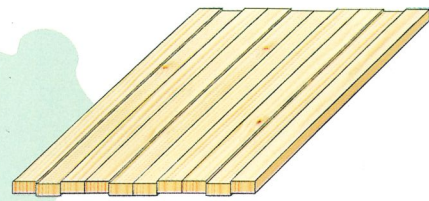


parameters within any given sanding programme.

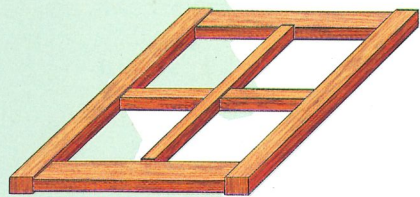
Precise digital timing, and a standard segment width of 50 mm (25 mm is optional), ensures 'antidubbing' all around the panel and guarantees crisp square edges.

Different types of wood and veneers require different sanding pressure to obtain the best result. With the CPS system this is easily regulated from the control panel, to give beautifully sanded parts with just the right stock removal. If required this pressure regulation can be controlled within the sanding programme. The CPS is a Bütfering® patented product, now proven in thousands of installation.

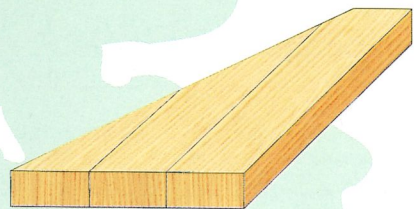
# The Application



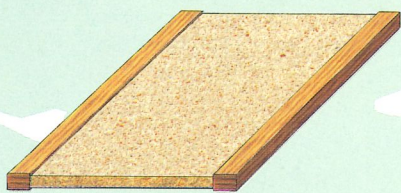
Laminated boards



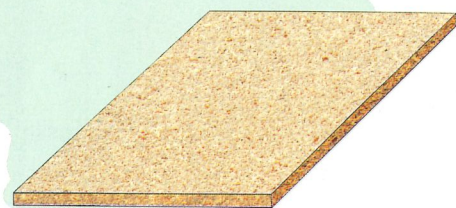
Windows



Joinery components



Calibrating lipped panels



Chipboard/MDF

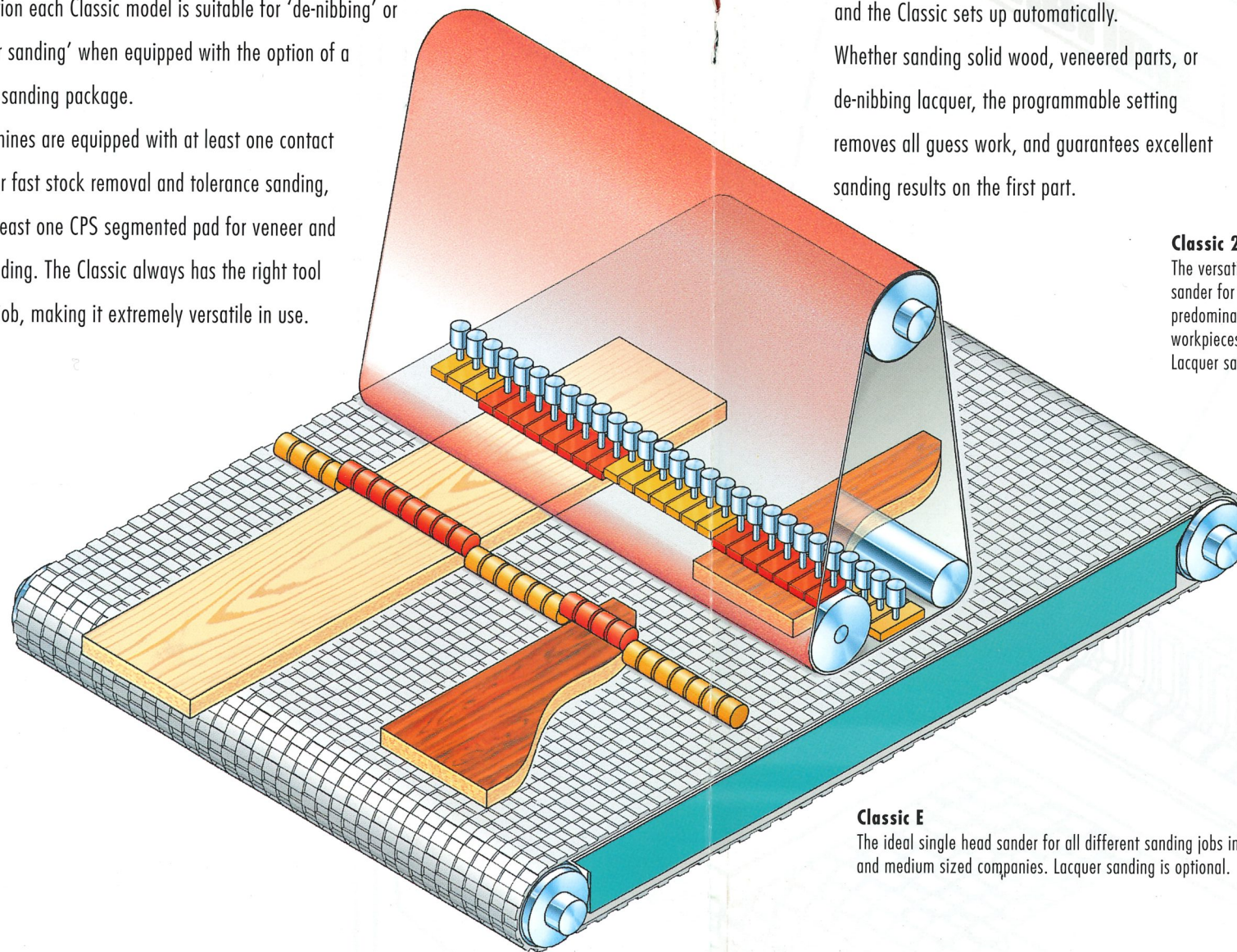


Veneered panels

The Classic range of sanders offers the choice of single, double or triple head machines for sanding of solid wood or veneered workpieces.

In addition each Classic model is suitable for 'de-nibbing' or 'lacquer sanding' when equipped with the option of a lacquer sanding package.

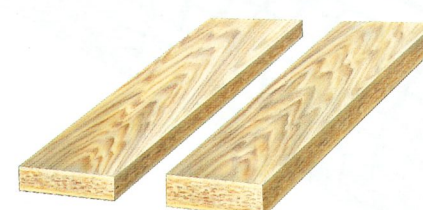
All machines are equipped with at least one contact roller for fast stock removal and tolerance sanding, and at least one CPS segmented pad for veneer and fine sanding. The Classic always has the right tool for the job, making it extremely versatile in use.



Bowed panels



Panels with cut-outs



Veneered panels with different thicknesses



Panels with thickness variation

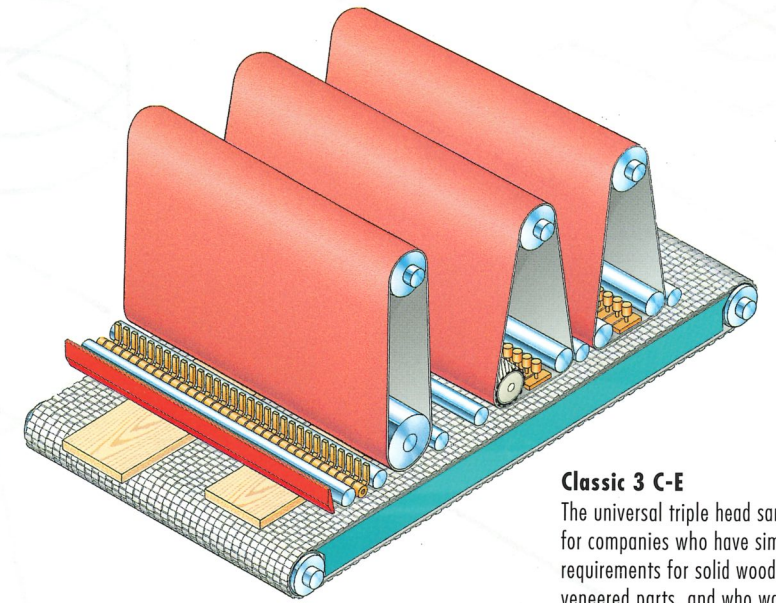


Shaped panels

To change from one type of sanding job to another takes only seconds with the 'Terminal'.

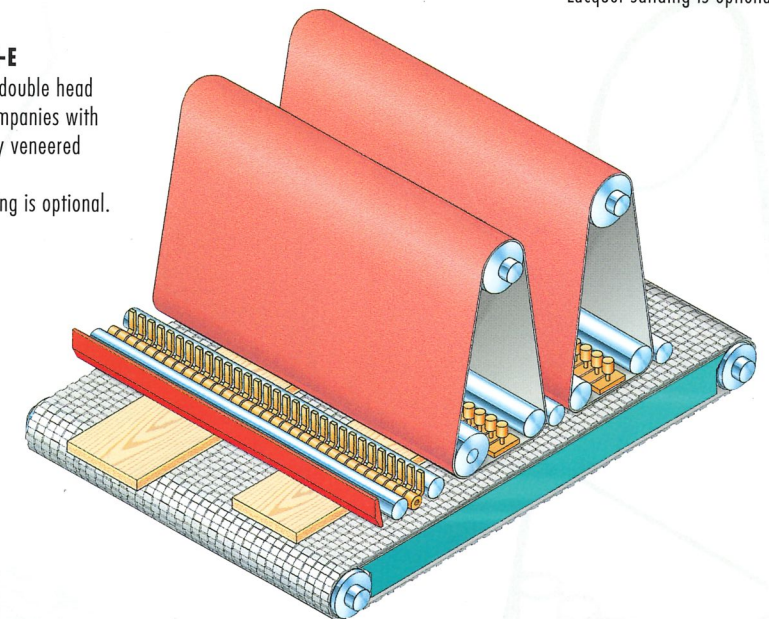
Select a sanding programme, push the start button, and the Classic sets up automatically.

Whether sanding solid wood, veneered parts, or de-nibbing lacquer, the programmable setting removes all guess work, and guarantees excellent sanding results on the first part.

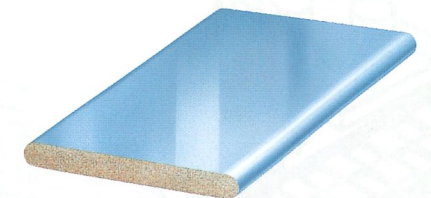


**Classic 3 C-E**  
The universal triple head sander for companies who have similar requirements for solid wood and veneered parts, and who want to minimise belt changes. Lacquer sanding is optional.

**Classic 2 C-E**  
The versatile double head sander for companies with predominantly veneered workpieces. Lacquer sanding is optional.



**Classic E**  
The ideal single head sander for all different sanding jobs in smaller and medium sized companies. Lacquer sanding is optional.



De-nibbing of lacquer/base coats

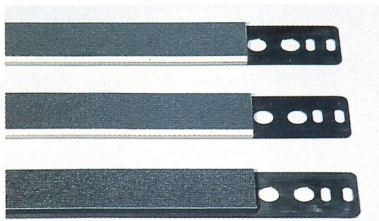


# Options

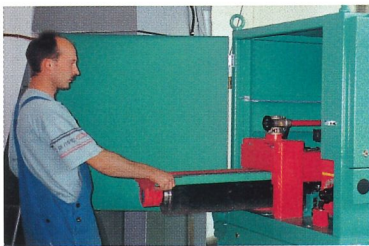
Although each Classic in its standard form is very well equipped, there are many options which can be added if required. The list is extensive and includes contact rollers of different hardnesses, cleaning, smoothing, and structuring brushes, air-jet belt, and workpiece cleaning devices, different types of conveyor belts, frequency controlled feed motors and abrasive belt drive motors, longer abrasive belts of 2620 mm, as well as infeed and outfeed roller tables.



1. Scotch-Brite Brushes
2. Structuring brushes
3. Smoothing brushes
4. Cleaning brushes
- 5./6. Rubber contact rollers in different shore hardnesses
7. Steel contact rollers, non-profiled or profiled



Special sanding inserts for solid wood, veneered and lacquered panels



Special brush heads with quick change facility

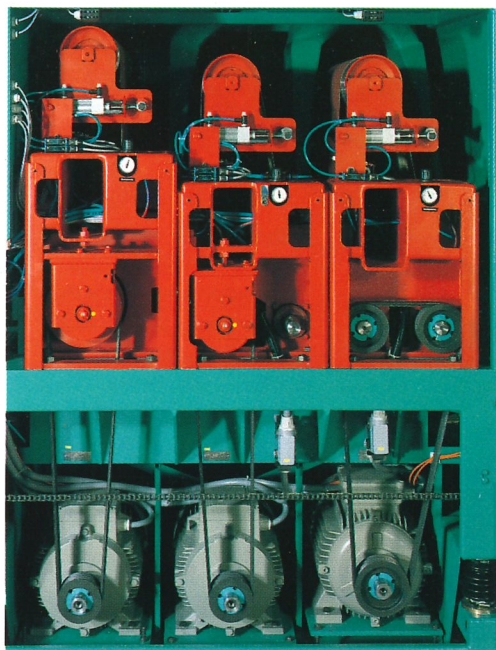


Machine outfeed with roller table extension, vacuum unit with outlet (optional)

# The Technique

Constant passline, an operator terminal with 50 programmes and the patented CPS segmented pad system are the standard highlights. Other standard features are electronic belt oscillation, maintenance-free electrical braking system, sanding pad storage in the machine, automatic conveyor belt tracking system, rubberized feed drive drum, safety interlocks on all hinged doors, 'over-thickness' workpiece sensor, and effective dust collection.

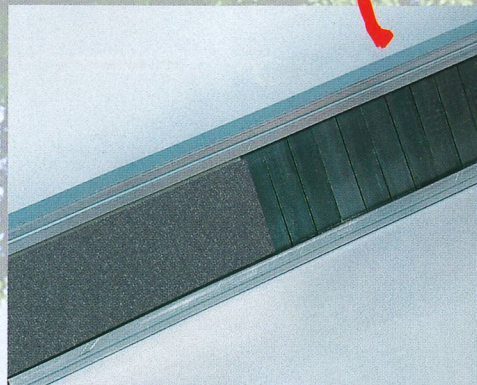
A first class design, offering first class sanding quality from a first class company. – The Bütfering® Classic.



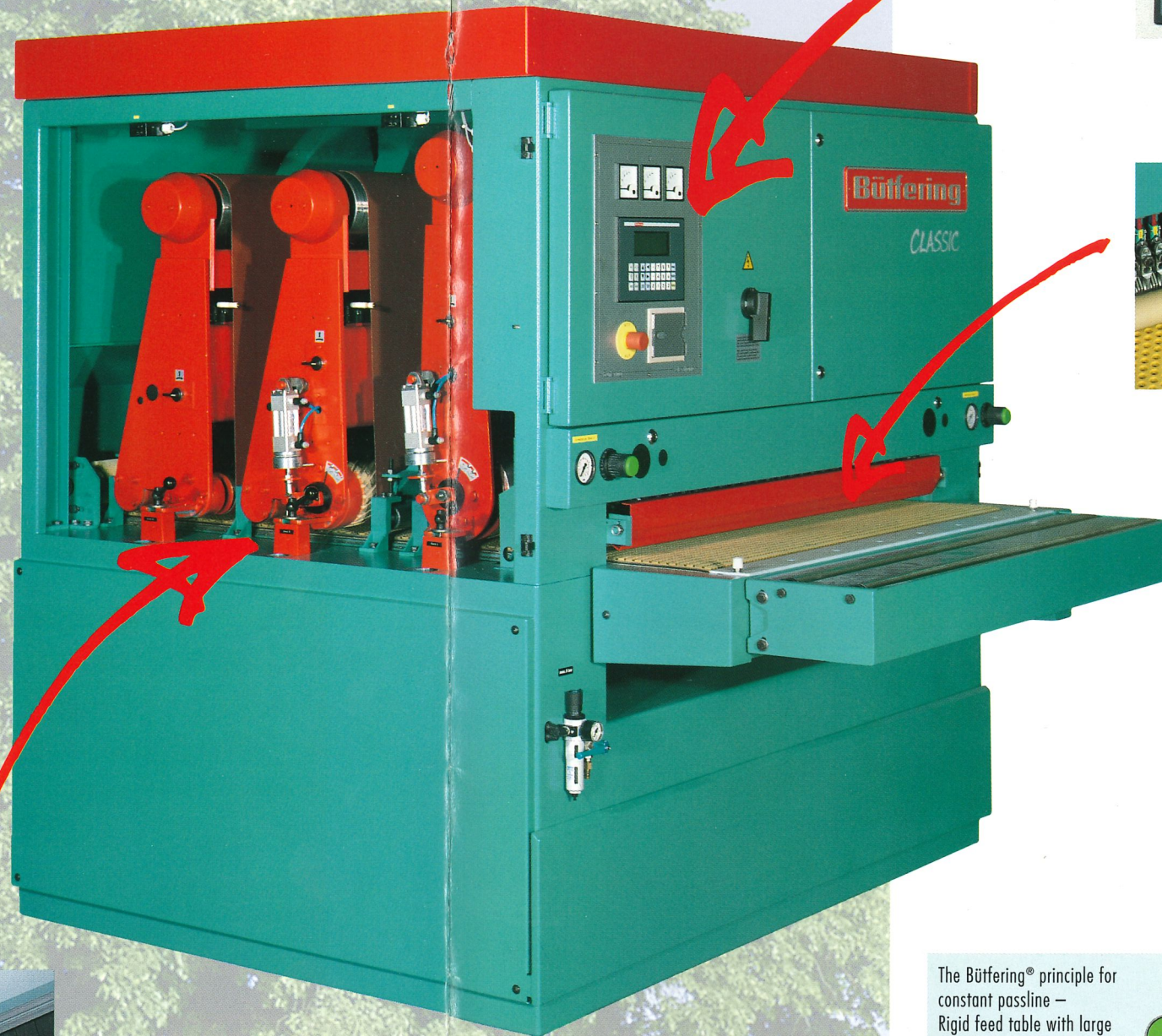
Drive side Classic 3 C-E with electronic belt oscillation and separate drive motors.



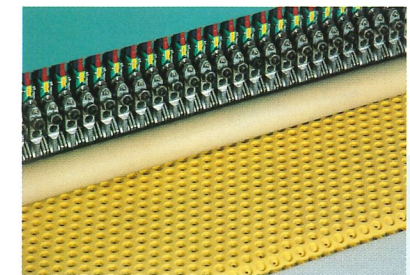
Combi-sanding head with automatic positioning of contact roller (option) and abrasive belt grit size compensation.



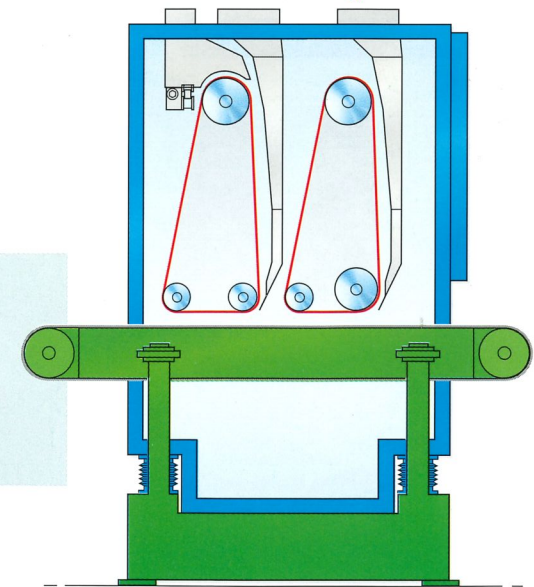
The patented CPS 50 mm segmented pad (upon request 25 mm). Illustration with felt and graphite.



- Terminal with 50 programmes
- Simple menu control with clear readout
- Automatic real-time control of all relevant sanding parameters
- Error diagnostics
- On screen indication of the segmented pad operation
- Fully automatic Star delta starting of all sanding heads
- Digital timer for operating hours



Machine infeed showing sensing elements for workpiece scanning



The Bütfering® principle for constant passline – Rigid feed table with large diameter threaded spindles for the adjustment of the upper frame

# The World Market

Büferring® sanding machines were first exported in the early fifties – in the beginning only to European countries, then into every continent. Today the main export markets for Büferring® are the United States of America, South East Asia, China and Central Europe. These are being supported by Büferring®'s own Sales and Service offices in Singapore, Great Britain and the Netherlands. Woodworking companies worldwide



Sanding of bed components in Zimbabwe

associate the Büferring® name as synonymous with high quality, innovative sanding machines, with an excellent reputation for reliability and after sales service.



Büferring® Sales Manager, Jürgen Granitza, in India



Technical discussion during an exhibition in Singapore



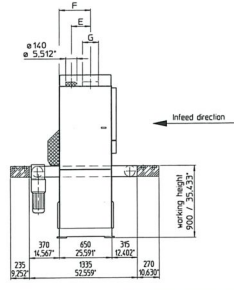
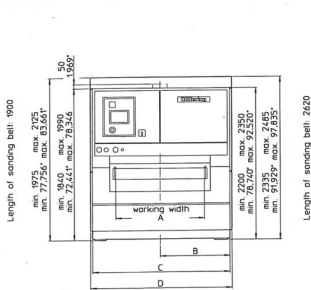
Büferring® world-wide distributor network

### Technical Data: Classic 111-E/113-E

Sanding width mm 1100/1350  
 Abrasive belt width mm 1120/1370  
 Abrasive belt length mm 1900/1900  
 Workpiece thickness min./max. mm 3 to 150

Feed speeds  
 2 selectable feed speeds m/min. 4 and 8  
 Variable feed speed m/min. 2.5-13  
 Drives:  
 Sanding head kW 11/15  
 Total connected load kW 13/17

Weight kg 2200/2400  
 Dust extraction capacity m<sup>3</sup>/h 1850/2250  
 Additionally for brush m<sup>3</sup>/h 1100  
 Air speed m/s 20  
 Compr. air connection bar 6-8  
 Air requirement l/min. 10



- Special execution – Cleaning brush with hood
- ▨ Space required for roller tables

| All measurements in millimeter |      |     |      |      |     |     |      |
|--------------------------------|------|-----|------|------|-----|-----|------|
| working width                  | A    | B   | C    | D    | E   | F   | G    |
| 1100                           | 1100 | 865 | 1700 | 1750 | 240 | 390 | ø180 |
| 1350                           | 1350 | 990 | 1950 | 2000 | 230 | 380 | ø200 |

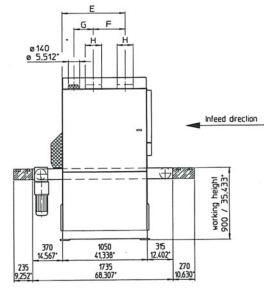
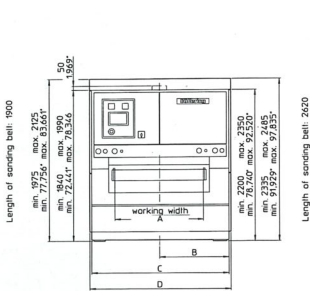
| All measurements in inches |     |         |         |         |        |         |         |
|----------------------------|-----|---------|---------|---------|--------|---------|---------|
| working width              | A   | B       | C       | D       | E      | F       | G       |
| 43"                        | 43" | 30.055" | 66.929" | 68.898" | 9.449" | 15.354" | ø7.087" |
| 53"                        | 53" | 38.976" | 76.772" | 78.740" | 9.055" | 14.960" | ø7.874" |

### Technical Data: Classic 211-E/213-E, Classic 211 C-E/213 C-E

Sanding width mm 1100/1350  
 Abrasive belt width mm 1120/1370  
 Abrasive belt length mm 1900/1900  
 Workpiece thickness min./max. mm 3 to 150

Feed speeds  
 2 selectable feed speeds m/min. 4 and 8  
 Variable feed speed m/min. 2.5-13  
 Drives:  
 1st sanding head kW 11/15  
 2nd sanding head kW 11/11  
 Total connected load kW 24/28

Weight kg 3000/3300  
 Dust extraction capacity m<sup>3</sup>/h 3650/4500  
 Additionally for brush m<sup>3</sup>/h 1100  
 Air speed m/s 20  
 Compr. air connection bar 6-8  
 Air requirement l/min. 20



- Special execution – Cleaning brush with hood
- ▨ Space required for roller tables

| All measurements in millimeter |      |     |      |      |     |     |     |      |
|--------------------------------|------|-----|------|------|-----|-----|-----|------|
| working width                  | A    | B   | C    | D    | E   | F   | G   | H    |
| 1100                           | 1100 | 865 | 1700 | 1750 | 790 | 390 | 250 | ø180 |
| 1350                           | 1350 | 990 | 1950 | 2000 | 780 | 390 | 235 | ø200 |

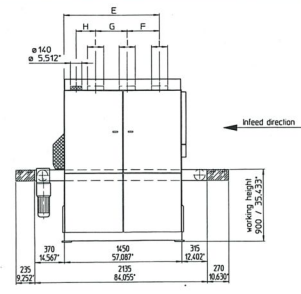
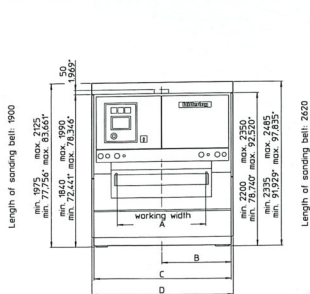
| All measurements in inches |     |         |         |         |         |         |        |         |
|----------------------------|-----|---------|---------|---------|---------|---------|--------|---------|
| working width              | A   | B       | C       | D       | E       | F       | G      | H       |
| 43"                        | 43" | 30.055" | 66.929" | 68.898" | 31.102" | 15.354" | 9.842" | ø7.087" |
| 53"                        | 53" | 38.976" | 76.772" | 78.740" | 30.709" | 15.354" | 9.252" | ø7.874" |

### Technical Data: Classic 311-E/313-E, Classic 311 C-E/313 C-E

Sanding width mm 1100/1350  
 Abrasive belt width mm 1120/1370  
 Abrasive belt length mm 1900/1900  
 Workpiece thickness min./max. mm 3 to 150

Feed speeds  
 2 selectable feed speeds m/min. 4 and 8  
 Variable feed speed m/min. 2.5-13  
 Drives:  
 1st sanding head kW 11/15  
 2nd sanding head kW 11/15  
 3rd sanding head kW 11/11  
 Total connected load kW 35/43

Weight kg 4000/4400  
 Dust extraction capacity m<sup>3</sup>/h 5500/6750  
 Additionally for brush m<sup>3</sup>/h 1100  
 Air speed m/s 20  
 Compr. air connection bar 6-8  
 Air requirement l/min. 30



- Special execution – Cleaning brush with hood
- ▨ Space required for roller tables

| All measurements in millimeter |      |     |      |      |      |     |     |     |      |
|--------------------------------|------|-----|------|------|------|-----|-----|-----|------|
| working width                  | A    | B   | C    | D    | E    | F   | G   | H   | I    |
| 1100                           | 1100 | 865 | 1700 | 1750 | 1190 | 390 | 260 | 260 | ø180 |
| 1350                           | 1350 | 990 | 1950 | 2000 | 1180 | 390 | 250 | 250 | ø200 |

| All measurements in inches |     |         |         |         |         |         |         |         |         |
|----------------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| working width              | A   | B       | C       | D       | E       | F       | G       | H       | I       |
| 43"                        | 43" | 30.055" | 66.929" | 68.898" | 46.850" | 15.354" | 10.236" | 10.236" | ø7.087" |
| 53"                        | 53" | 38.976" | 76.772" | 78.740" | 46.457" | 15.354" | 9.842"  | 9.842"  | ø7.874" |

Right of technical modification reserved.

Gebr. Bütfering® Maschinenfabrik GmbH  
Stromberger Straße 170 · 59269 Beckum/Germany  
Telephone 02521-842-0 · Telefax 02521-842-67  
eMail: [buetfering.sales@t-online.de](mailto:buetfering.sales@t-online.de)  
<http://www.buetfering.de>

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