

SWT 300 Wide-Belt Sanding Machines



Optimat | profiLine | powerLine

www.hoechsmann.com



Bütfering around the world

- Extensive customer support from over 80 sales partners worldwide
- Fast and effective service
- Globally active sales and service technicians
- Intelligent spare parts provision due to identical components in the Homag Group



Our philosophy

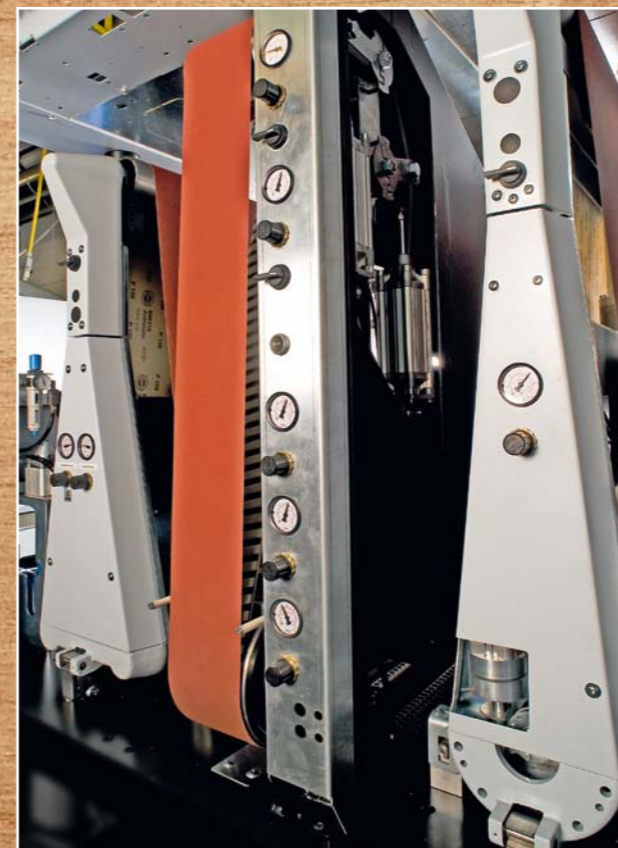
- Satisfied customers
- Satisfied employees
- Satisfied investors



Everything from a single source

Wood processing companies around the world rely on Bütfering sanding machines. Tradition and innovation have been the mainstays of the company's philosophy for over 60 years.

As a member of the Homag Group, Bütfering now is one of the world's most eminent manufacturers of wide-belt sanding machines for all areas of application.



Customer-oriented machine solutions, continuity, reliability and expertise are ensured by qualified employees.

State-of-the-art technology in construction and production guarantees the highest production standards. The Homag Group distribution network, supported by Bütfering application specialists and a variety of national and international vendors, ensures that each machine is the best machine for the customer and features the ideal equipment for its purpose.

First-class sanding technology with an attractive appearance is the best way to describe the SWT 300 Optimat series. Alongside the efficient, advanced technology within, the machines will win you over with their modern, ergonomic design, in which functionality and aesthetics complement one another perfectly.

Sophisticated designs for perfect surfaces


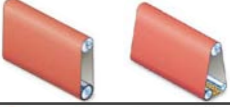
Our SWT 300 model range is every bit as diverse as our customers and we have ensured that each model remains a specialist in its field.

We are very particular when it comes to selecting the perfect machine according to the performance requirements of our customers. In doing so, Bütfering relies on its experience and selects the best unit combination for the principal applications. The resulting performance packages demonstrate an optimum cost-to-benefit ratio.

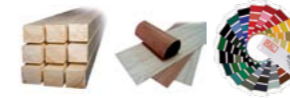
The SWT 300 series:

The following are required for finish sanding:

- Multiple belt changes
- Max. one belt change
- Finish sanding in one cycle

		System	 Solid	 Veneer	 Lacquer
SWT 315 C		<i>eps...</i>	•	•	••
SWT 325 RL			••	•	
SWT 325 RC		<i>eps...</i>	••	•	••
SWT 325 RH		<i>eps...</i>	••	••	•••
SWT 325 CC		<i>eps...</i>	••	••	•••
SWT ww 325 CH		<i>eps...</i>	••	••	•••
SWT 325 QC		<i>eps...</i>	••	•	••
SWT 335 RQE		<i>eps...</i>	••	••	•••
SWT 335 RQH		<i>eps...</i>	••	••	•••
SWT 335 QCE		<i>eps...</i>	•	•••	•••
SWT 335 RRL			•••	•	
SWT 335 RRC		<i>eps...</i>	•••	•	••

Applications:



- Calibration sanding
- Veneer sanding
- Fine sanding of wood and wood materials
- Lacquer sanding (optional in some cases)



CUSTOMER BENEFITS

- Sanding head for light calibration and fine sanding
- Profiled contact roller with 140 mm diameter
- Calibration with precise tolerance but without a wash-out effect
- Range of useful grit sizes for calibration P60 - 120

C – with EPS system:

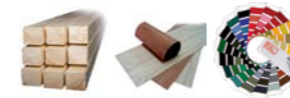
- Tolerance compensation of up to 2mm within a part or between parts using the EPS segmented pad
- Narrow 25mm segment width eliminates ‘sand throughs’.
- Enables multi-track feeding to maximise production
- Can adapt to most applications thanks to variable cutting speed (optional in some cases)
- Range of useful grit sizes for fine sanding P120 - 400

L – without EPS system:

- Simple air cushion pad system ideal for solid wood applications
- Range of useful grit sizes for fine sanding P120 - 280



Applications:

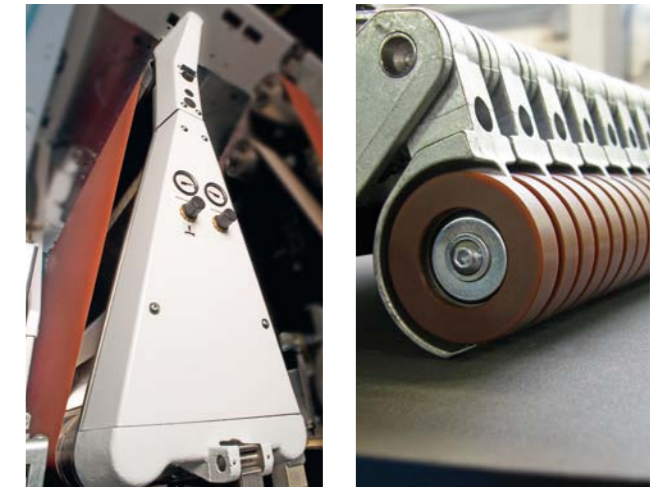


- Veneer sanding
- Fine sanding of wood and wood materials
- Lacquer sanding (optional in some cases)



CUSTOMER BENEFITS

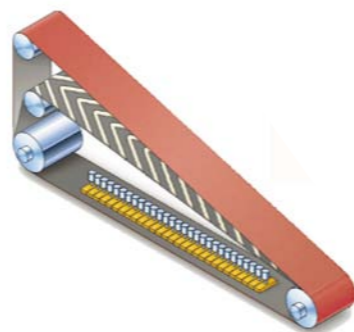
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- Range of useful grit sizes for fine sanding P120 - 400



Applications:



Veneer sanding
 Fine sanding of wood and wood materials
 Lacquer sanding (optional in some cases)

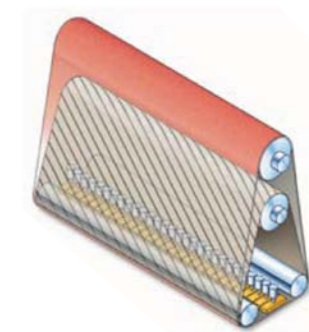


Q

Applications:



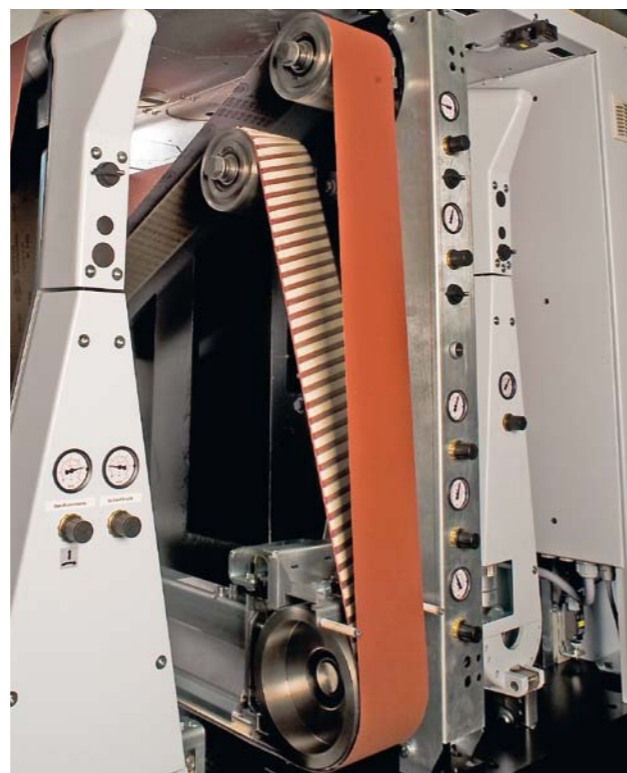
High quality sanding on all surfaces
 Intermediate lacquer sanding with very fine grit sizes
 Solid wood sanding, especially for frame parts



H

CUSTOMER BENEFITS

- Tolerance compensation of up to 2mm within a part or between parts using the EPS segmented pad
- Narrow 25mm segment width eliminates 'sand throughs'.
- Enables multi-track feeding to maximise production
- Can adapt to most applications thanks to variable cutting speed (optional in some cases)
- Long abrasive belt, ideal for fine grit sizes
- Fibres, tape and glue residue are simply removed by sanding across the grain direction
- Levelling effect on veneered Surfaces
- Optimum preparation for subsequent coating procedures
- Range of useful grit sizes for fine sanding P120 - 1200



CUSTOMER BENEFITS

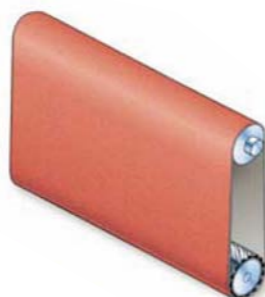
- Thickness tolerance variations in veneered and lacquered parts are easily handled by the use of the segmented pad
- 125 mm wide contact zone produces very uniform surfaces
- Low sanding temperature gives longer abrasive belt lifetime.
- Oscillation marks are considerably reduced by the use of the chevron belt
- Range of possible grit sizes 120 to 1200



Applications:



Calibration sanding of wood and wood materials
 Scuff sanding for adhesion



R

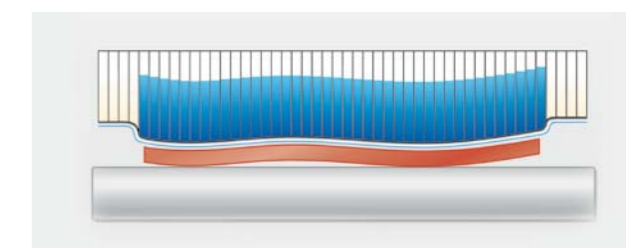
EPS – Electronic Pressure System

The machine's electronics ensure the optimal sanding pressure on all areas of a workpiece, thereby guaranteeing a perfect sanding result.

Perfect sanding is about applying the right pressure at the right time. To guarantee this the EPS system scans the shape of parts as they enter the machine. This information is fed to an on-board PLC, which then directs the operation of each 25mm EPS segment.

Machines without EPS

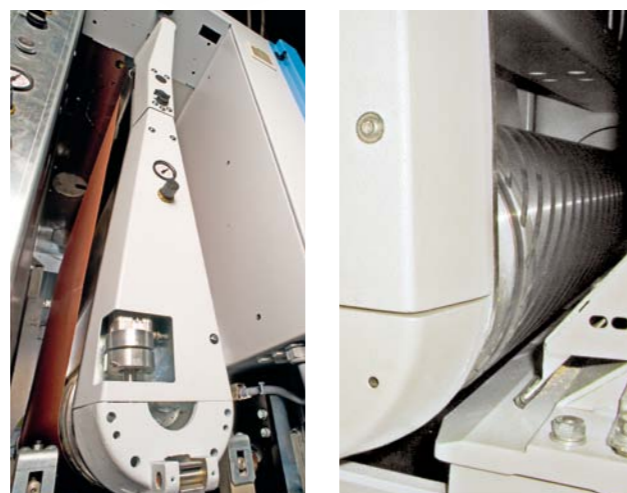
The RL and RRL models are delivered an air cushion pad system when the emphasis is for solid wood sanding only.



The individual segments 'float' on the part surface with a constant pressure to protect veneered or lacquered surfaces within a tolerance range of 2mm. It is also possible to add or subtract edge segments to modify edge pressure.

CUSTOMER BENEFITS

- Calibration with precise tolerance at high removal rates
- Maintenance free, profiled steel contact roller 240mm diameter
- No 'wash out' effect between early/late wood
- Range of useful grit sizes for fine sanding P40 - 120



Future proof technology as standard

When designing the SWT 300 series, Bütfering redefined the standard technology for wide-belt sanding machines and showed themselves to be open to future challenges

The highlights of the SWT 300 series include:

- EPS sanding system (depends on the model)
- 8.4" color touchscreen terminal (depends on the model)
- Constant passline
- Variable feed speed
- Maintenance free electronic braking system
- Electronic abrasive belt oscillation
- Poly V-belt drive
- Protected sanding 'insert' storage compartment
- Separate drive motor for each unit
- Free space for retro-fitting brushing and cleaning options
- Easily retro-fittable vacuum fan set, when not supplied as standard
- Automatic thickness measuring system (except cross belt models)

Touchscreen operator terminal

8.4" colour touchscreen for machine control (depends on model)
 Intuitive user guidance
 200 programmable memory slots for repeatable surface quality
 Error messages in plain text, machine parameters relevant to sanding can be stored. Program can be changed in a matter of seconds



Multi-Function display (MFD)

Control panel with joystick and multi-function display for controlling machines without EPS and to display the following: Workpiece thickness, feed speed, error messages and the operating hours counter.



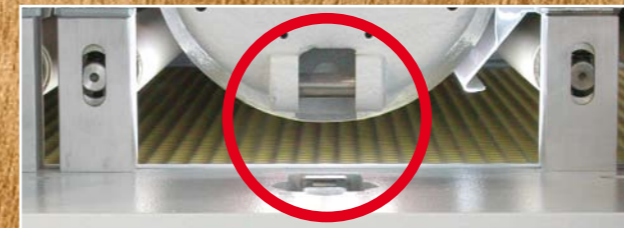
ECO mode



Automated machine stop with an advanced warning function for saving energy when the machine is idling unnecessarily

Automatic head locking

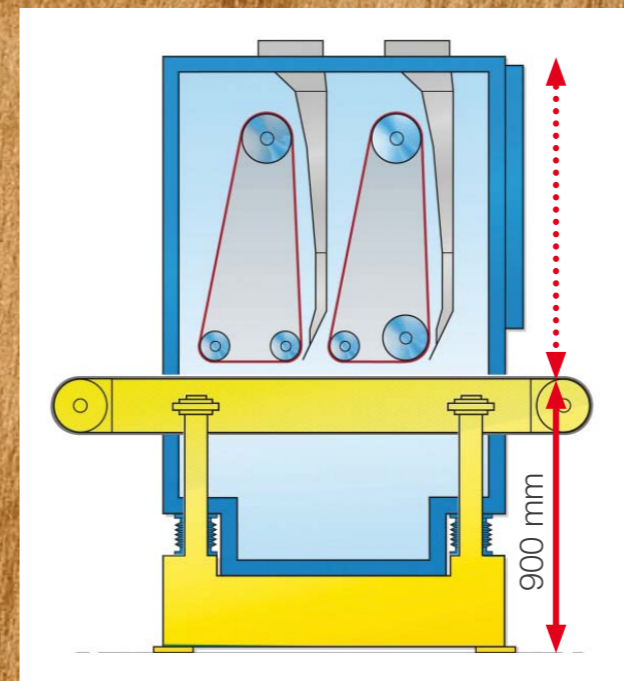
The head automatically locks and unlocks when the door is opened or closed



Constant passline design

Stable frame design with a constant workpiece infeed height of 900 mm by adjusting the top part of the machine

Workpiece thickness setting of 3–160 mm through four large trapezoidal threaded spindles with diameters of 40 mm

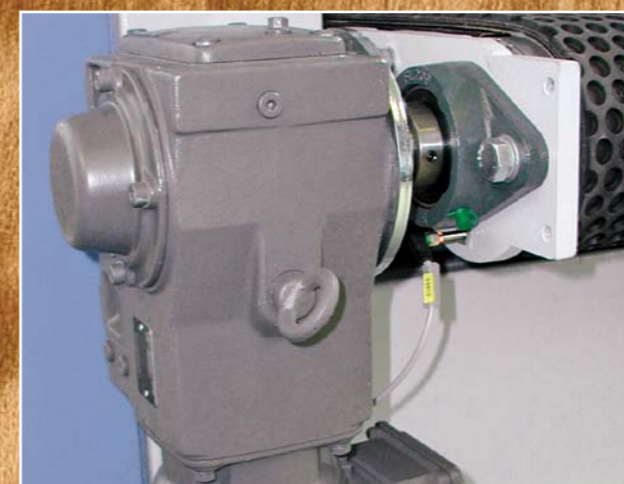


Variable feed speed

Variable feed speed by frequency inverter

Rubberised drive drum

Large bearings

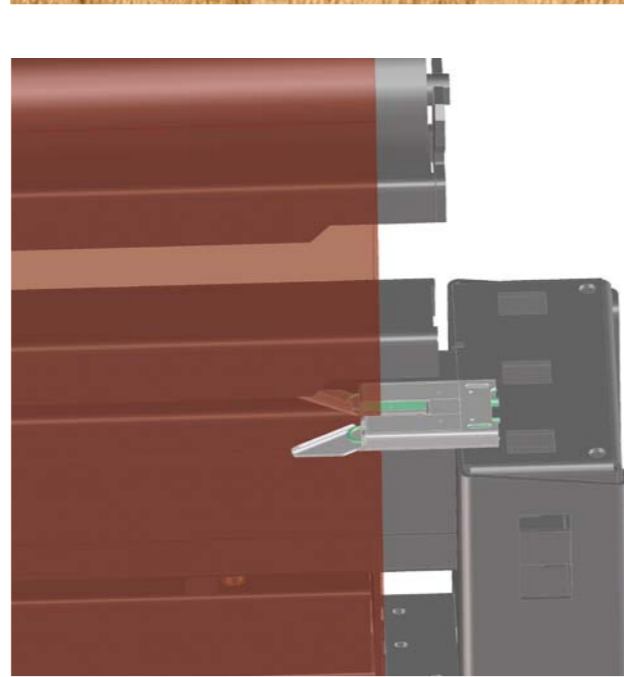


$V_f = 2.5 - 13 \text{ m/min}$

Electronic abrasive belt oscillation

Non contact oscillation control for keeping the abrasive belt on track

Optical non contact fail-safes in the event of abrasive belt mistrack



Automatic overthickness protection

Feed stops in the event of over thick parts being fed

Sanding unit stops immediately and is switched to stand-by mode

Touch screen function is blocked to prevent incorrect inputs

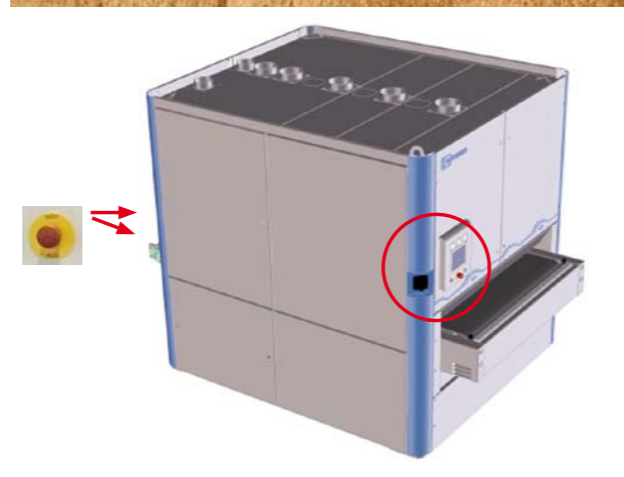
Plain text error messages



Emergency stops

Total of three emergency stop buttons fitted on the infeed and outfeed sides of the machine

Immediate machine stop



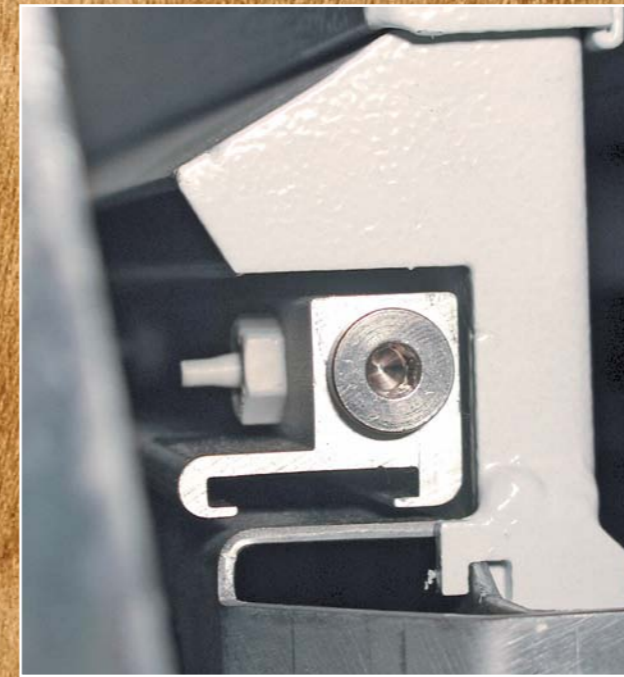
Sanding heads with air-jet belt cleaners

Comes as standard on models with one unit or on the last unit of models fitted with several units (depends on the model)

Pneumatic oscillating air-jet cleaning device with integrated dust hood

Approx. 35 % suction volume saved

Activated by the workpiece

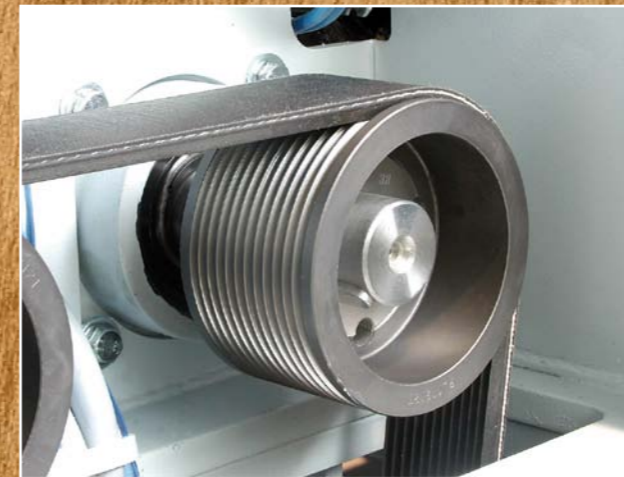


Variable cutting speed

Comes as standard on models with one unit or on the last unit of models fitted with several units

Speed control via frequency inverter

Poly V belt transmission



Rubberised pressure rollers

Spring loaded rollers with vertical guidance system

Rubber pressure rollers to prevent damage to part surfaces

Additional pressure rollers before and after the part sensing zone



Options

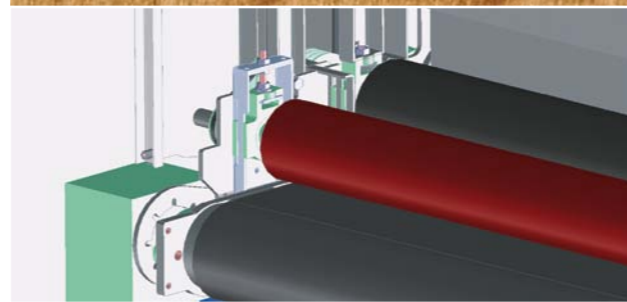
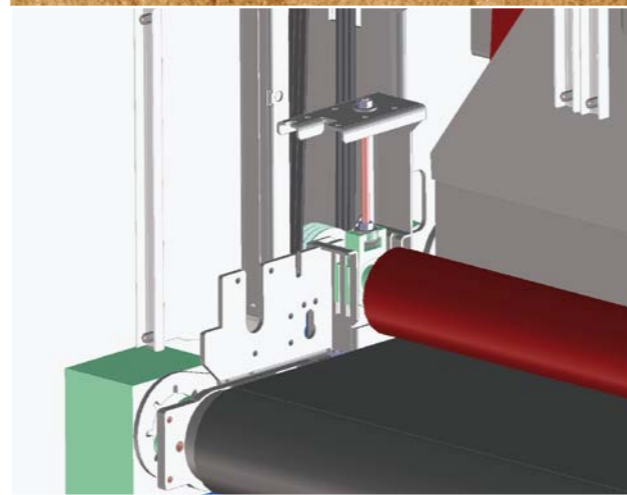
Every machine in the SWT series already comes with comprehensive standard equipment. Butfering has a wide range of accessories however, that enable the user to adapt the machine to special tasks or to produce particular surface effects. These include:

- cleaning, smoothing, and structuring brushes
- workpiece cleaning devices
- de-ionisation bars
- vacuum fans
- additional frequency invertors
- thickness measurement systems

Free space flexibility

Space available to fit two of the following three options:

- Panel cleaning brush
- Satinising or Structuring brush
- Cleaning system with ionisation device and rotary air-jet parts cleaning system, activated by the workpiece



Vacuum table

Suction device ready (feed table and belt) for the connection of a high-performance fan built into the machine frame, featuring a flow control valve

Machines with a cross belt (Q head) will always be supplied with vacuum table and fan complete



Wireless thickness caliper ME 5000

An innovation from Bütfering

Cable-free transmission of workpiece thickness measurements to the machine

Various measuring modes



Fold-away outfeed table

Useful for longer parts



Telescopic infeed extension

Helpful when feeding larger parts

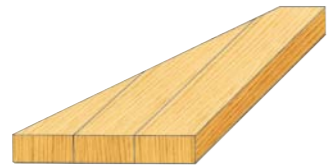
Applications



Glued up parts



Solid wood frames



Joinery components



Workpiece with cutouts



Veneered panels



Chipboard / MDF



Shaped parts



Bowed panels



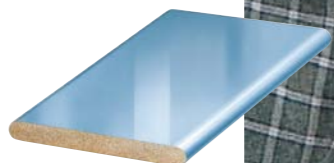
Veneered panels with different thicknesses



Panels with thickness variations



Chipboard with solid wood edge band



Lacquered or filled parts



It pays to be a Bütfering customer

Bütfering is everywhere

The well established sales, service, and dealer network of the Homag Group ensures fast response times and close customer proximity throughout the world.

Practical training

Butfering sanding machines are extremely user friendly, however a basic training course is provided alongside commissioning to increase user proficiency.

When required, we can also offer additional on-site training, or this can be done in our dedicated training rooms at the Butfering factory.

Same parts, simple handling

Many parts, control elements and components are identical in the machines of the Homag Group. This makes operation easier, cuts costs, reduces spare parts stock and speeds up maintenance and service. Moreover, scheduled, professional maintenance increases the availability and productivity of the machines.

Professional documentation

Standard, comprehensive operating instructions and machine diagrams are supplied with every machine. These can be supplied in many different languages.



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A subsidiary of the Homag Group



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