

# Innovative Sanding Technology for Profiled Furniture Parts



**LOEWER**  
Innovative Schleiftechnik







# A New Era in Sanding Three-Dimensional Parts



**B**ack at the Ligna exhibition in Hanover in 2003 the original DiscMaster was launched by Loewer, marking the beginning of a new generation of brush sanding machinery. This new technology ingeniously combines discs and rollers and provides a finish which, prior to this, had been considered impossible.

Loewer has raised the bar once again and introduced its latest excenter disc technology (patent pending). All our new DiscMaster models feature this advanced technology, ensuring that you get the best brush sanding solution and we stay a step ahead. Whether it be for solid wood sanding, MDF, base coat or lacquer, the DiscMaster 3DBB sets the standard in sanding finish quality.

Loewer has also developed special models for more specific applications, e.g. for small narrow parts, top and bottom sanding or preparing for foil wrapping. For smaller operations we offer the DiscMaster Compact, with a sanding width of 900mm.

Thanks to our extensive experience in this field, Loewer has also developed its own brush sanding system – SmartFlex - unique in quality, flexibility and diversity.

With our machine concept, the latest brush sanding tools and our expertise you receive the three most-important things needed for a first-class sanding result.



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# DiscMaster 3DBB - The Original and Unique F



**R**egardless of whether you want to do sanding or denibbing or whether you have moulded or flat pieces, the versatile, multi-functional

Loewer DiscMaster will process all your parts and do it excellently. Using the latest excenter disc technology (patent pending), you get the best-possible sanding results.

## And here's how it works:

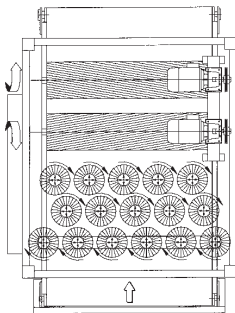
The triple-row disc station consists of 16 large, offset discs. These discs, equipped with sanding strips, rotate excentrically and sand the workpiece from all sides and angles. The result: superb sanding results in mouldings as well as on radii and flat surfaces. The two large, counter-rotating rollers which follow ensure that you get that even finish in the direction of the feed.



Simple changing of sanding strips by pulling out the disc station on both sides

## What makes it different?

The new DiscMaster works with 16 discs which no longer oscillate but rotate excentrically. The advantages: firstly, a significantly longer sanding time due to three rows of discs. This increased sanding intensity is of the utmost importance e.g. in woodsanding. Secondly, the excentric rotation of the discs ensures that the sanding strips reach even the smallest of mouldings. An additional blurring effect is also achieved on the surface. Last but not least you get a uniform breaking of the side edges, independent of the feed speed.

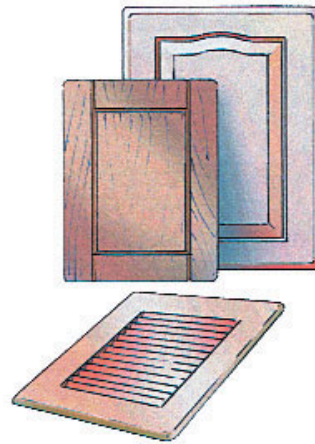


DiscMaster 3DBB

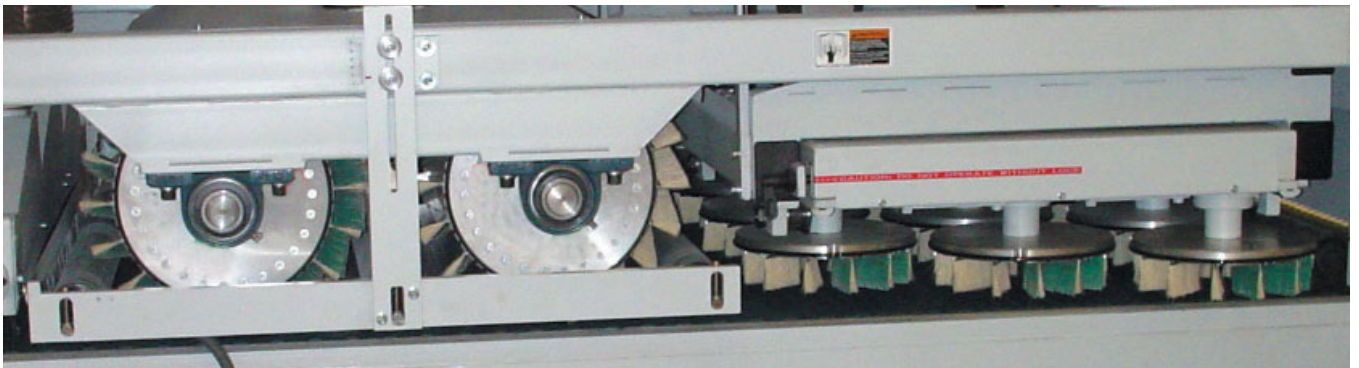
# Finishing Machine with Excenter Disc Technology

## The DiscMaster 3DBB is first choice for:

- Removing fibres and smoothing wood, MDF and veneered workpieces
- Sanding out milling marks
- Sanding profiles, radii, crossovers and surfaces
- Preparing MDF for 3D foil wrapping
- Preparing the workpiece for further surface treatment
- Sealer and lacquer sanding



## Unique finish thanks to excenter disc technology



## Optional Features:

- Vacuum conveyor belt with strong 7.5kW ventilator
- Sensor-activated, oscillating workpiece cleaning device with anti-static strip and separate extraction connection
- Power Panel with PLC controls and colour display for setting and storing all relevant sanding parameters.
- Oscillating disc unit

## Smart sanding with our DiscMaster

- State-of-the-art excenter disc technology (patent pending)
- 16 large discs sand in all directions for a longer sanding time
- Clockwise and anti-clockwise motion of discs with varied grains (wood sanding, lacquer sanding)
- Large counter-rotating sanding rollers with varied sanding grain (wood sanding, lacquer sanding)
- Grading of sanding grain on discs, first roller, second roller
- Individual motorized setting of discs and rollers – process discs only, rollers only or both
- Constant height of throughfeed
- Working width 1350mm



DiscMaster with swivelling Touch Panel

# DiscMaster - Special Models for Specific Ap

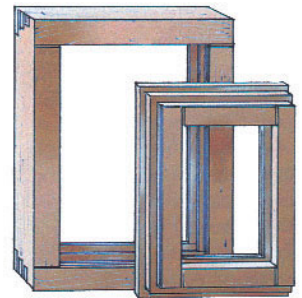


## **F**or larger pieces – the DiscMaster 3DBB

This machine comes in a working width of 1850 mm. In conjunction with the Side Unit SU, it is ideally suited for sanding window sashes, frames and doors. The Side Unit SU, for processing outer rebates, can be placed in front of any throughfeed

machine. The unit is manually positioned at the required width and has a pneumatic brake.

As an optional extra the sanding units can be raised or lowered pneumatically (top rebate, bottom rebate).



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## **F**or greater flexibility – the DiscMaster 3D

This machine can be used solely as a denibbing machine or placed in front of an existing roller-only machine.

When equipped with short, relatively aggressive sanding strips it gives first-class sanding results on MDF pieces before foil-wrapping. Milling marks are also removed. 16 discs, each with a diameter of 250mm, provide a large sanding area.

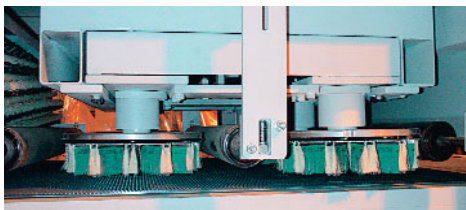
It is also available with an additional cleaning roller situated after the disc unit.





## **F**or narrow, short pieces – the DiscMaster 2D2DB

This machine is ideal for narrow, swung furniture pieces or shorter parts - or indeed for any workpiece that is difficult to hold down with a vacuum belt but must still be sanded from all directions. It is used very successfully e.g. in the chair industry or for carvings.



Six pressure rollers, very close to each other, hold down difficult parts. This DiscMaster model doesn't usually need a vacuum belt.



Four rows of excentric discs and one roller unit for large sanding time and processing in all directions.



Two rollers for sanding from bottom.

## **F**or top and bottom sanding – the DiscMaster 2U-3DBB

This model is similar to the **DiscMaster 3DBB** but features two additional roller units for the bottom side in front of the disc unit. The bottom of the workpiece is sanded in a counter-rotating manner.

If you would like to see more special DiscMaster models, then please visit our website:

[www.loewer-maschinen.de](http://www.loewer-maschinen.de).

# DiscMaster Compact - The Compact Solution



The **DiscMaster Compact** is the genuine alternative for smaller and medium-sized operations and offers first-class sanding results at an affordable price .

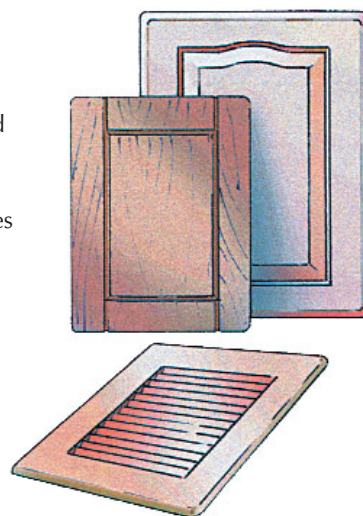
The double-row disc unit is made up of seven, large, offset discs equipped with sanding strips. These discs rotate excentrically and sand the workpiece from all directions and angles. The result: superb sanding results in mouldings as well as side radii and surfaces. The excentric motion of the discs ensures that the sanding strips reach into even the smallest corners. In addition, there is a blurring effect on the surfaces.

Two sanding rollers follow after the disc unit, giving a finish in the direction of the feed.

Due to the two rows of discs side by side and the five hold-down rollers, there is no need for a vacuum belt, thus keeping your investment and operating costs at a minimum.

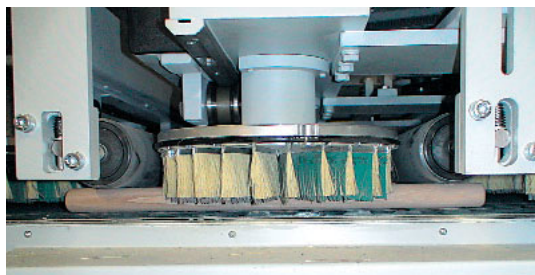
## DiscMaster Compact – Versatile value for money

- Removing fibres and smoothing wood, MDF and veneered workpieces
- Sanding out milling marks
- Sanding mouldings, radii, crossovers and surfaces
- Preparing MDF for 3D foil wrapping
- Preparing the workpiece for further surface treatment
- Sealer and lacquer sanding





# n in 900mm Working Width

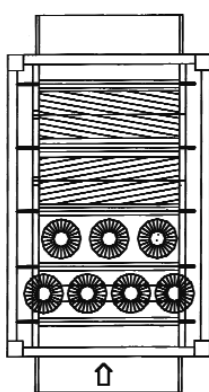


Hold-down rollers between the spiral rollers and discs make it possible to process narrow and short parts easily.

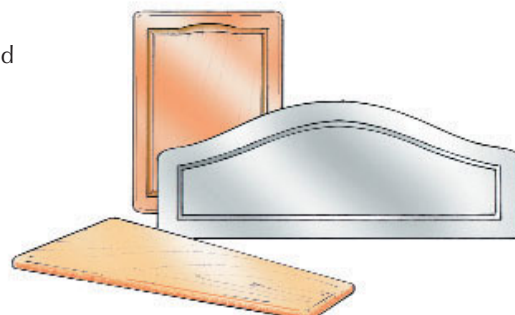
Two rows of excenter discs and two subsequent sanding rollers sand in all directions and angles.



## DiscMaster Compact – Highlights



- State-of-the-art excenter disc technology (patent pending)
- Large discs for sanding in all directions with a greater sanding time
- Clockwise and anti-clockwise motion of discs with varied grains (wood sanding, lacquer sanding)
- Large counter-rotating sanding rollers with varied sanding grain (wood sanding, lacquer sanding)
- Grading of sanding grain on discs, first roller, second roller
- Individual motorized setting of discs and rollers – process discs only, rollers only or both
- Hold-down rollers also between discs, no vacuum belt required
- Variable speed of discs, rollers and feed
- Working width 900mm



# RotoMaster - The Sturdy Brush Sanding Machine



**F**or certain applications e.g. just surface sanding or sanding workpieces with very light profiles, good sanding results can be achieved even without using discs.

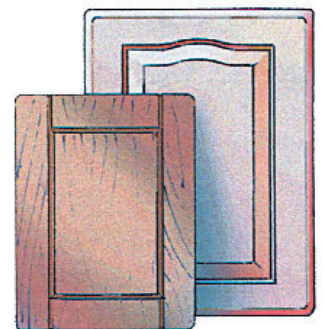
The **RotoMaster** is a sturdy, brush sanding machine with two, three or four roller units in succession.

The machine has been designed for larger, heavy rollers. It works similar to the hand sanding principle, using a high sanding pressure and a very slow spindle speed to give those desired sanding results.

The RotoMaster comes in widths of 900mm and 1350mm. It has a large number of features belonging to the standard package as well as various extras to customize it to your requirements

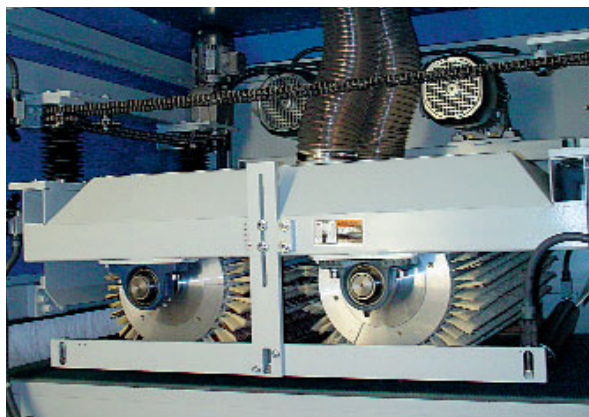
## Standard configuration:

- Sturdy welded design, designed for heavy sanding rollers
- Safe and clean due to complete encasement of machine
- Constant height of throughfeed
- Strong gear motor with low speed settings
- Variable feed speed and spindle speed
- Motorized height adjustment



### RotoMaster 2B

2 brush roller units, each with a diameter of 400 mm and a spindle angle of 6°.

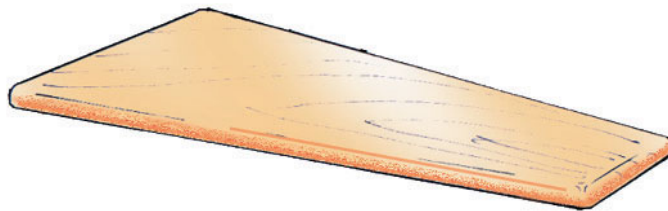
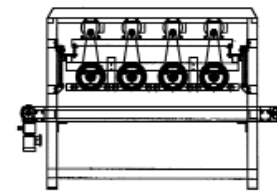
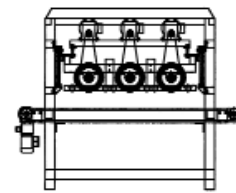
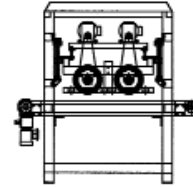




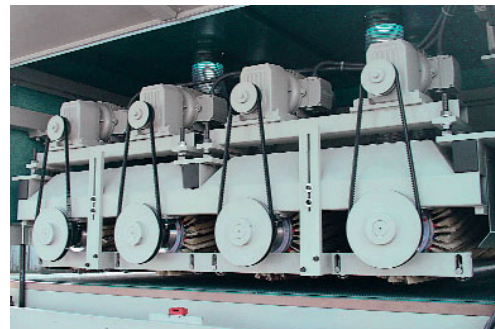
# ine with Large Sanding Rollers

## Additional accessories:

- Two, three or four spindles in succession
- Working width of 900 mm or 1350 mm
- Vacuum conveyor belt (for smaller pieces)
- Antistatic strip
- Separate height adjustment of individual spindles
- Power Panel with PLC controls and colour display for setting and storing all relevant sanding parameters.
- Modifications for using structuring rollers (brass-plated steel-wire or synthetic brush)
- Available for extra large brushes up to a diameter of 630 mm
- Inclined setting of rollers



**RotoMaster** Equipped with Smart-Flex sanding strips.  
Quick and easy changing of strips by using split end caps.



**RotoMaster 4B** : with 4 rollers in succession

## RotoMaster – Highlights:

- Solid, sturdy machine
- Functional standard machine, good value for money
- Can be customized with a lot of additional extras

# TopSpin - The Finishing Machines with Air-Cu



**TopSpin KK:** It features two large, counter-rotating rollers. If equipped with short sanding strips in a finer grain, it offers superb sanding results on MDF edges.

The Loewer **TopSpin** models bridge the gap between purely manual work and throughfeed machines. The workpieces are guided manually past units equipped with sanding strips. The air-cushioned table ensures an easy gliding of the workpiece and prevents any scratching of the workpiece.

For intermediate sanding, the combination of roller units and air-cushioned table is ideal.



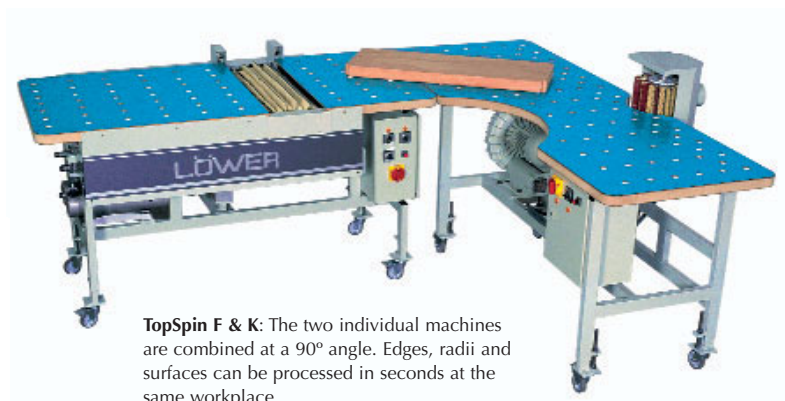
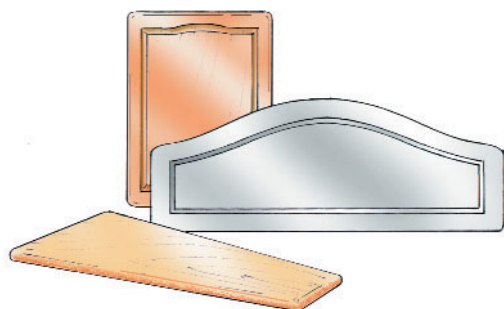
**TopSpin K** for the intermediate sanding of straight or rounded edges. The TopSpin K is ideal for placing beside an existing, throughfeed sanding machine for surfaces.

**TopSpin F**  
For sanding surfaces from below (650 mm width).  
Dipping device as extra -  
no sanding through of front edge.

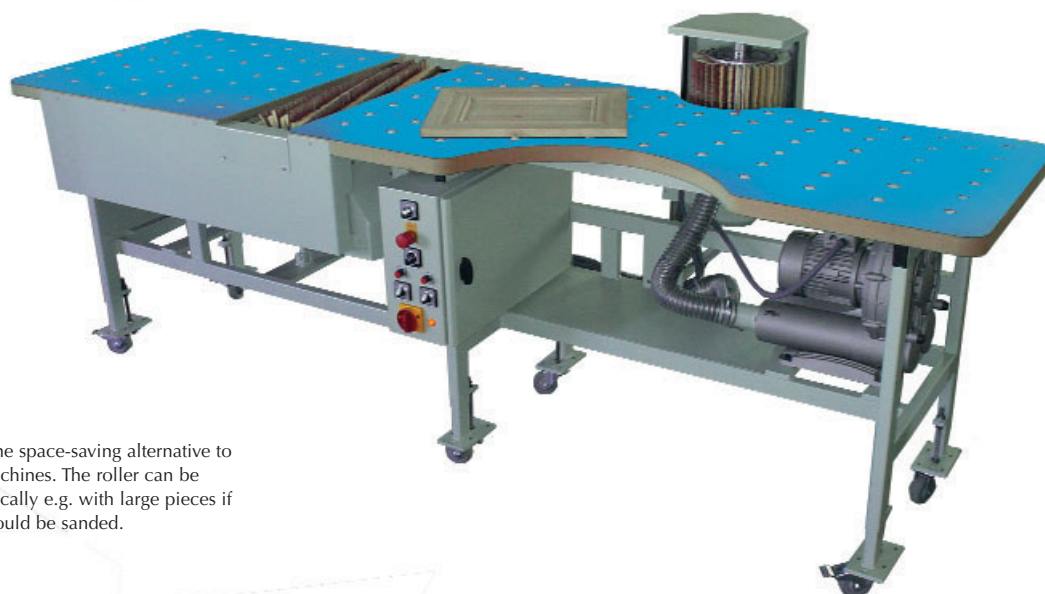




# shioned Tables



**TopSpin F & K:** The two individual machines are combined at a 90° angle. Edges, radii and surfaces can be processed in seconds at the same workplace.



**TopSpin Combi:** the space-saving alternative to two individual machines. The roller can be lowered pneumatically e.g. with large pieces if only the edges should be sanded.

## TopSpin – Economical and easy to use

- Air-cushioned table for easy-gliding and to avoid scratching
- Soft table tennis balls used to provide soft air-cushion
- Side channel blower for lower operating costs
- Infinitely variable spindle speed
- Different table sizes available

# EdgeMaster The Unique Contact-belt Sanding Machine for Edges

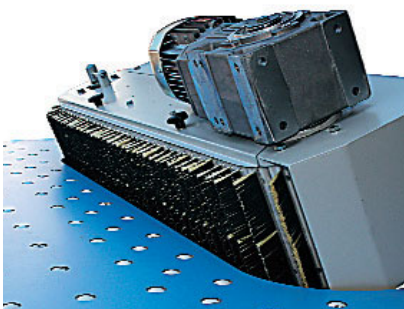


The EdgeMaster uses a unique contact belt unit equipped with flexible sanding strips making it a fast and versatile edge sanding machine.

The workpiece is sanded simply by pushing it against the contact belt. Due to the large contact area there is a much greater sanding time compared to sanding rollers.

The contact belt, with a width of 200mm, features grooves filled with sanding strips. To make the machine more versatile it is possible to fill the grooves with two different types of sanding strips, each 100 mm long e.g. for wood sanding and intermediate sanding.

The EdgeMaster K is equipped with a speedy motorized height adjustment of the belt unit. The speed of the contact belt can be varied using a frequency converter.



The belt unit can be tilted from +35° to -20°. The table remains in a horizontal position so as not to impede the functioning of the air-cushion table.

The air cushion table makes it possible to move even heavy workpieces easily, without scratching the surface (optional extra).



## Highlights:

- Extremely versatile due to tiltable unit and possibility of using different sanding strips
- Motorized height adjustment

## Optional Features:

- Air cushion table with side channel blower (no expensive compressed air needed)
- Oscillation of belt unit
- Blowing device for cleaning sanding strips



# Tradition and Innovation: Going together hand in hand



Loewer was founded back in 1861 and has remained a family business up to the present day. Starting out as a forge, it then moved on to the manufacture of farm machinery and also set up its own iron foundry. In the 1930's, the

company progressed into the woodworking machinery sector. The first sanding machine left the plant back in 1960 and to date over 18,000 Loewer machines have been delivered worldwide.

Over the past few decades, Loewer has accumulated a huge reservoir of expertise. We see this as the key to new innovations and sanding solutions. With both our experienced staff and our young team of engineers and technicians, we strive to offer the best possible technical solution to each individual customer.



## The Loewer Sanding Centre –when it's best to test!



A lot of sanding tasks can be solved with our standard machines. Sometimes, however, it is better for our customers to come and try out the machines for themselves – in our Sanding Centre. Not only can they bring their own samples, they can also try out various abrasives and tools on different machines and actually see and feel the results firsthand. What's more, they can

also speak directly with our qualified engineers and technicians about individual problems or indeed customized solutions.

We believe that the best results are achieved by listening to and understanding a customer's needs. And this is what we constantly strive to achieve!

# Our Fields of Expertise

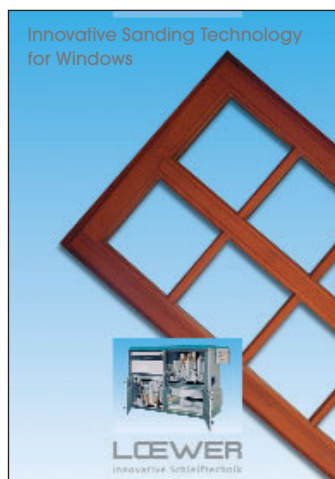
Innovative Sanding Technology for the following areas:



■ Laths / Profiles



■ Doors / Cabinets



■ Window Parts



■ Wood Construction Parts

■ other specific applications

■ suitable for our brush sanding machines: our **Smart-Flex** strip system to meet the most-demanding requirements.

# LOEWER

Innovative Schleiftechnik

Jakob Löwer  
Inh. von Schumann GmbH & Co. KG  
Am Wasser 4  
34576 Homberg (Germany)

Phone + 49 (0) 56 81 99 04 - 0  
Fax + 49 (0) 56 81 99 04 99  
e-mail: info@loewer-maschinen.de

[www.loewer-maschinen.de](http://www.loewer-maschinen.de)