

FORMAT 4®

finebrush

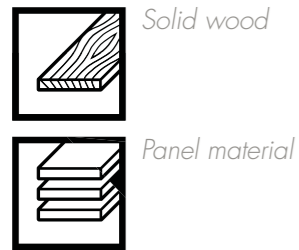
THE NEW
BRUSHING MACHINES FOR
UNIVERSAL APPLICATIONS



FORMAT 4[®]



The new brushing machines for universal applications



finebrush 1353

- » Working width: 1.350mm
- » Grinding height: 3–140mm
- » Feed speed: variable 0.6–8 m/min
- » Simple operation thanks to intuitive control panel
- » 3 brush units in synchronous and counter-rotation
- » Variable speed control from 0.8–5 m/sec

finebrush 1355

- » Working width: 1.350mm
- » Grinding height: 3–140mm
- » Feed speed: variable 0.6–8 m/min
- » 15" touchscreen control
- » 5 brush units in synchronous and counter-rotation
- » Variable speed control from 0.8–5 m/sec

The new Format4 brushing machines, finebrush 1355 and 1353, convince in their industrial use thanks to the optimised combination of the units. With 5 or 3 brushing units, workpieces with profiling or structure are optimally fine sanded and prepared for the final surface finish, e.g. lacquering. An additional advantage is that the abrasive brushes are equipped with two grit sizes in combination with the reverse direction of rotation. This allows the operator to carry out fine sanding as well as intermediate lacquer sanding without having to change the abrasive grit. This saves time and avoids unnecessary handling.

FORMAT4 Premium Machines for Premium Requirements

- » Constantly high performance in industrial continuous operation
- » Customer specific optimized production solutions
- » Solid design with premium components
- » Wide range of configuration packages with high-tech solutions
- » Complete engineering precision
- » Premium user comfort
- » Quality and precision from AUSTRIA
- » Uncompromised productivity
- » Perfect service package before, during and after the purchase
- » Tailor made financing solutions
- » Mechanical engineering experience since 1956

The most important highlights at a glance



Optimal aggregate combination

The arrangement of longitudinal brushes as well as rotary brushes allows homogeneous results even with the most difficult workpieces. Due to the overlapping machining in co-rotation and counter-rotation as well as in the rotation process, even areas that are difficult to access are machined cleanly. In parallel, sharp workpiece edges are lightly rounded and optimally prepared for surface treatment.



Touchscreen control for maximum operating comfort

The clearly structured and intuitive control panel provides maximum productivity. The machine functions are displayed graphically and operated with high-quality switches. The infeed thickness is clearly shown on the digital display and by using the push button can be adjusted with an accuracy of 0.1 mm.

Details



Feed table

The finebrush 1353 features a height adjustment by means of a feed table, and the finebrush 1355 has a fixed infeed table height of 900mm that guarantees simple and effortless work.

Due to the consistent height, the machine can also be integrated into a processing line without any effort.

As standard, the feed speed can be continuously adjusted from the control panel between 0.6–8 m/min.

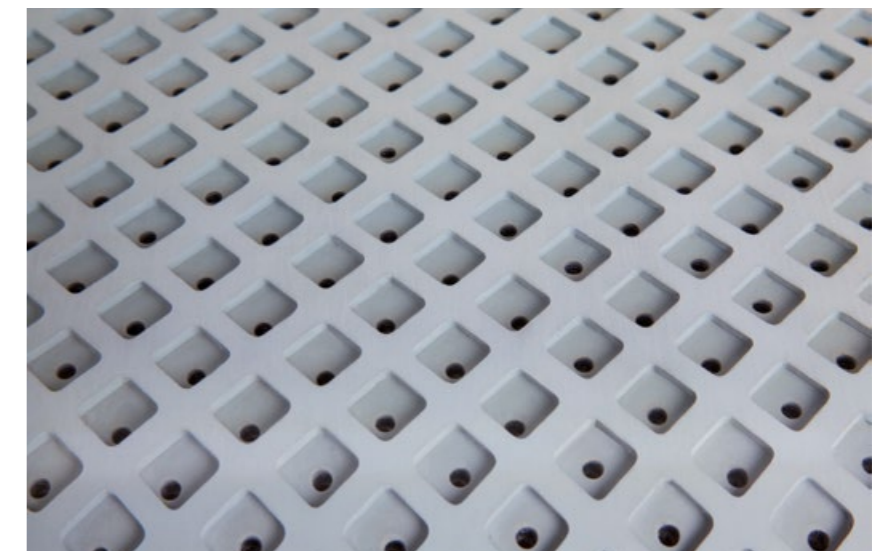


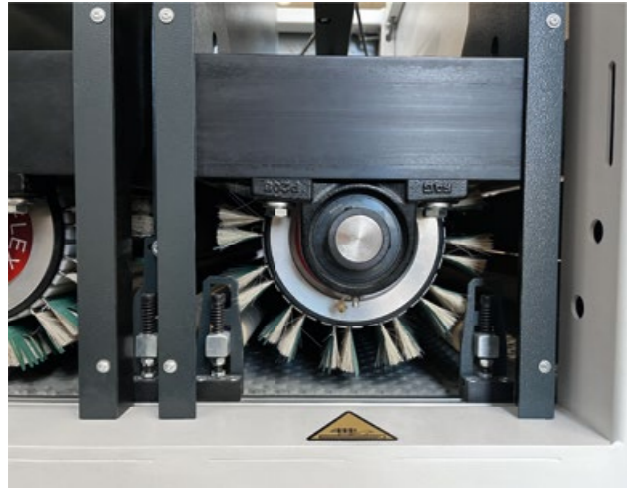
No abrasive grit change

All sanding brushes are designed with two abrasive grits and thus enable a range of applications from fine sanding to intermediate lacquer sanding without the need to change abrasive grits. Change the direction of rotation on the display, done.

Vacuum table

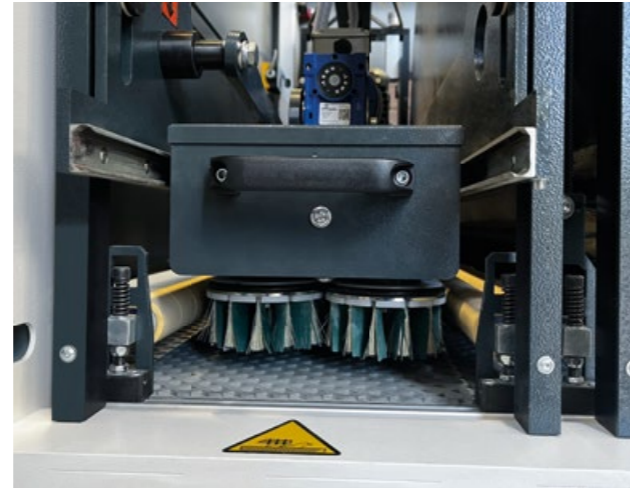
The wide belt sander can also be equipped with a vacuum table which is particularly useful for smooth, small or thinner workpieces. The vacuum is created by a high pressure fan which is coupled with the feed. The vacuum holds the workpiece through the holes in the vacuum feed belt.





Sanding brush in longitudinal direction

The workpieces are machined and ground in the longitudinal direction, thus also enabling the machining of transverse workpiece edges. The optional oscillation control enables uniform utilisation of the sanding brushes with a homogeneous end result. The direction of rotation and the sanding speed can be adjusted continuously from 0.8-5 m/sec conveniently from the control panel.



Disc brush unit

The disc brush unit „compact“ with a brush diameter of 115 mm with Format4 finebrush 1353 processes the workpieces in rotary grinding. Sharp workpiece edges are thus easily rounded and internal corners are cleanly machined. The oscillation control installed as standard enables uniform utilisation of the sanding brushes with a homogeneous end result. The direction of rotation and the sanding speed can be adjusted continuously from 0.8–5 m/sec conveniently from the control panel. The brush diameter of finebrush 1355 is 240mm.



Clean finish

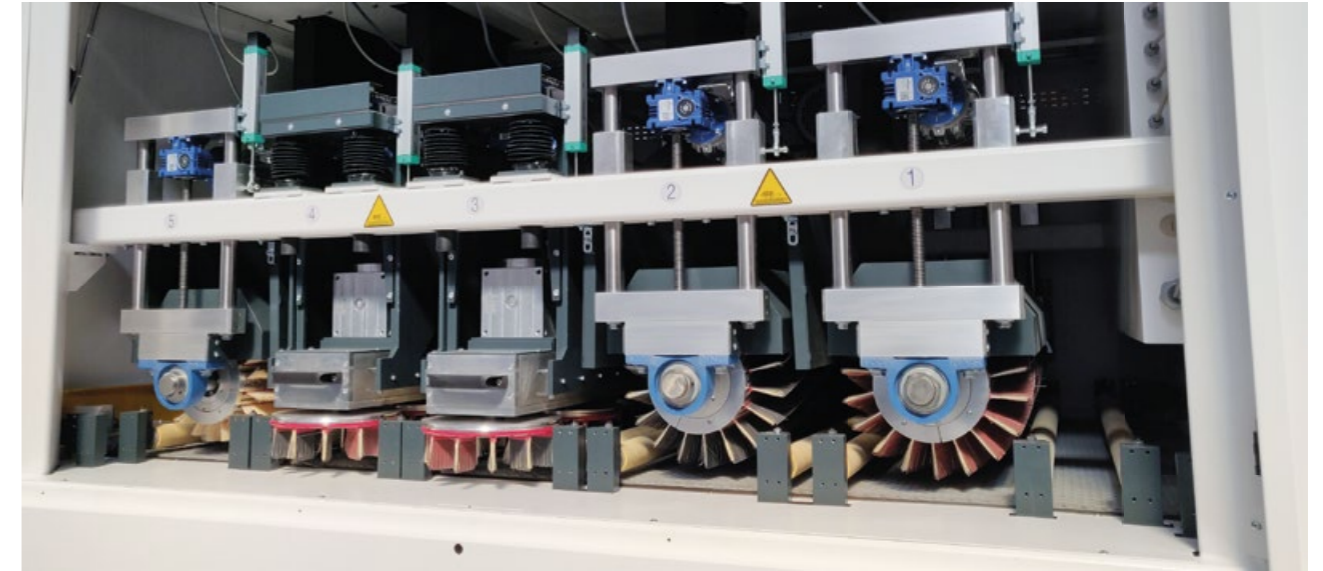
Particularly with profiled workpieces, the Tampico cleaning brush enables the cleanest results, without dust residues.

Furthermore, an oscillating cleaning fan can be installed at the machine outlet. Particularly with automatic painting systems, the workpiece is thus prepared dust-free for the subsequent surface treatment.



Quick change system for grinding inserts

The grinding inserts on the longitudinal and disc brushes can be exchanged quickly and easily and reduce any set-up times enormously.



Optimum unit configuration

The following unit configurations are available for the finebrush 1353:

- » Longitudinal brush
- » Disc brush unit „compact“
- » Longitudinal brush

Optimum unit configuration

The following unit configurations are available for the finebrush 1355:

- » Longitudinal brush
- » Longitudinal brush
- » Disc brush
- » Disc brush
- » Cleaning brush

Simple operation

The adjustment of the units as well as the feed speed and sanding intensity is simple, quick, and precise, done directly on the control panel using manual push buttons. The workpiece height is precisely indicated on a separate display.

A touchscreen control is available as an equipment option for the finebrush 1353. The clearly structured and intuitive control panel provides maximum productivity. The machine functions are displayed graphically and operated with high-quality switches. The infeed thickness is clearly shown on the digital display and by using the push button can be adjusted with an accuracy of 0.1mm.

Technical specifications

Electrics		finebrush 1353	finebrush 1355
001	3x 400 V motor voltage	S	S
004	50 Hz motor frequency	S	S
005	60 Hz motor frequency	W	W
25	Switch contact for gate control (price/piece)	O	O
39	Multi-voltage input 3x190V / 208V / 230V / 400V / 415V / 440V / 480V	O	O
88	Interior lighting	O	O
Feeder table			
	Working width 1.350mm	S	S
	Workpiece height 3–140mm	S	S
	Constant feeding height - fixed table, 900 mm	–	S
	Electrical height control of the feed table incl. fine-adjustment control from the control panel	S	S
	Feed speed infinitely adjustable from 0.6–8 m /min via inverter from the control panel	S	S
	Hand protection and workpiece thickness protection	S	S
	Conveyor belt without a joint with honeycomb structure	S	S
	Automatic feed belt centring	S	S
73	Vacuum table with 2.2 kW (3 HP) fan integrated in the machine stand	O	–
73	Vacuum table with 4kW (5,5 HP) suction fan integrated into the machine chassis	–	O
74	Inverter for vacuum fan for vacuum adjustment	O	O
77	Roller table extension on the infeed side, L=300 mm	O	O
78	Roller table extension on the outfeed side, L=300 mm	O	O
Control Systems			
	Touch screen control 15.4"	–	S
	Manual control panel	S	–
	Ammeter for load monitoring of the units	S	S
59A	Control unit with 10" touch color screen instead of manual control panel (!59B)	O	–
59B	Control unit with 15" touch color screen instead of manual control panel (!58A)	O	–
59C	Swivel arm bracket touch screen (!59A /!59B)	O	O
85	Preparation of the machine for integration into conveyor systems	O	O
90	Preparation for network connection	O	O
65	Electrical height adjustment brush units	O	–

Longitudinal brush unit		finebrush 1353	finebrush 1355
	Abrasive material consisting of abrasive grinding strips endorsed by Tampico	S	S
	Diameter brush roller: 400 mm	–	S
	Diameter brush roller: 250 mm	S	–
	Engine power: 2.2kW (3HP)	S	S
	Independent motor INVERTER powered	S	S
	Roller speed adjustable: 150 – 600 rpm	S	–
	Roller speed adjustable m /sec: from 0.8 to 5 m /sec	–	S
	Roller speed adjustable: 50 bis 300 rpm	–	S
	Separate motorized high adjustment of the sanding brush, programmable	–	S
	Clockwise rotation 180 grit; counterclockwise 320 grit	S	S
	Manual height adjustment of the grinding brush	S	–
	Equipped with grinding brushes system Flextrim	S	S
Disc brush unit			
	Disc brush unit with individual grinding brushes	–	S
	Disc brush unit with offset grinding brushes	S	–
	Abrasive material consisting of abrasive grinding strips endorsed by Tampico	S	S
	Outer diameter brush disc: 115 mm	S	–
	Outer diameter brush disc: 240–250 mm	–	S
	Number of pads: 6x	–	S
	Number of pads: 20x	S	–
	Engine power: 2.2kW (3HP)	S	S
	Independent motor INVERTER powered	S	S
	Adjustable speed: from 250 to 750 RPM INVERTER	S	–
	Adjustable speed: from 50 to 300 rpm	–	S
	Speed adjustable m /sec: from 0.8 to 5 m /sec	–	S
	Oscillation stroke: total 55 mm	S	–
	Oscillation stroke: 130 mm	–	S
	Oscillation motor power: 0.37kW	S	–
	Oscillation motor power with inverter: 0.37 kW	–	S
	Oscillation frequency adjustable: from 8 to 55 rpm	–	S
	Separate motorized height adjustment of the sanding pad station, programmable	–	S
	clockwise rotation 180 grit; counterclockwise 360 grit	S	S
	Manual height adjustment of the grinding brush	S	–
	Equipped with grinding brushes system Flextrim	S	S

	finebrush 1353	finebrush 1355
Cleaning brush		
Tampico brush unit INSIDE the machine to clean the workpieces	-	S
Brush diameter: max. 280 mm	-	S
Engine power: 1.5kW (2HP)	-	S
Pressure rubber rollers in the infeed and outfeed	-	S
Separate motorized height adjustment of the sanding pad station, programmable	-	S
Finish aggregates finebrush		
71 Oscillating cleaning fan for workpiece and feed carpet (170)	○	○
Important Accessories		
14.1.070 – Sandpaper insert longitudinal brush K180 L=1.380 H=45mm (12 pieces)	○	○
14.1.071 – Sandpaper insert longitudinal brush K240 L=1.380 H=45mm (12 pieces)	○	○
14.1.072 – Sandpaper insert longitudinal brush K280 L=1.380 H=45mm (12 pieces)	○	○
14.1.073 – Sandpaper insert longitudinal brush K320 L=1.380 H=45mm (12 pieces)	○	○
14.1.080 – Sandpaper insert disc brush K180 K360 L=35 H=45mm (12 pieces)	○	○
14.1.081 – Sandpaper disc brush K240 K320 L=35 H=45mm (12 pieces)	○	○
14.1.082 – Sandpaper insert disc brush K280 K400 L=35 H=45mm (12 pieces)	○	○
Packaging		
221 Container transport preparation	○	○

Product range

Sliding Table Panel Saws kappa 590 e-motion/x-motion kappa 550 e-motion/x-motion kappa 550 kappa 450 x-motion kappa 450

Shapers profil 92 M e-motion profil 45 M/x-motion profil 45 Z/x-motion

Planer dual 51 plan 51L exact 63 exact 51

Edgebanders tempora F800 60.12 e-motion tempora F600 60.06L tempora F600 60.06L glueBox tempora F400 45.03/L

Wide Belt Sanding Machines findustry 1352/1353/1354 finish 1352/1353 modular finebrush 1353/1355 **Heated Veneer Presses** HVP heated veneer press With Elkom® electric heating platens with warm water heating with thermal oil heating connection to an existing heating system

CNC machining centres c-express 920 classic creator 950 D-Jet profit H350R/H500R profit H200R/H300R

Nesting-CNC Machining Centres profit H150/100 profit H80I profit H08

Industrial Panel Saws kappa V60/V80 kappa V60 classic kappa automatic classic kappa automatic 85/100 edition

Vacuum panel lifter Return systems Feeding Units v-motion/classic u-motion classic u-motion professional l-motion robot-motion

FORMAT 4®

FORMAT4 Uncompromising expertise for the highest of requirements

The Felder Group premium brand has met the highest standards of professional users since 2001.

The customised high-performance solutions are uncompromisingly innovative, offer maximum operating comfort and complete productivity.

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