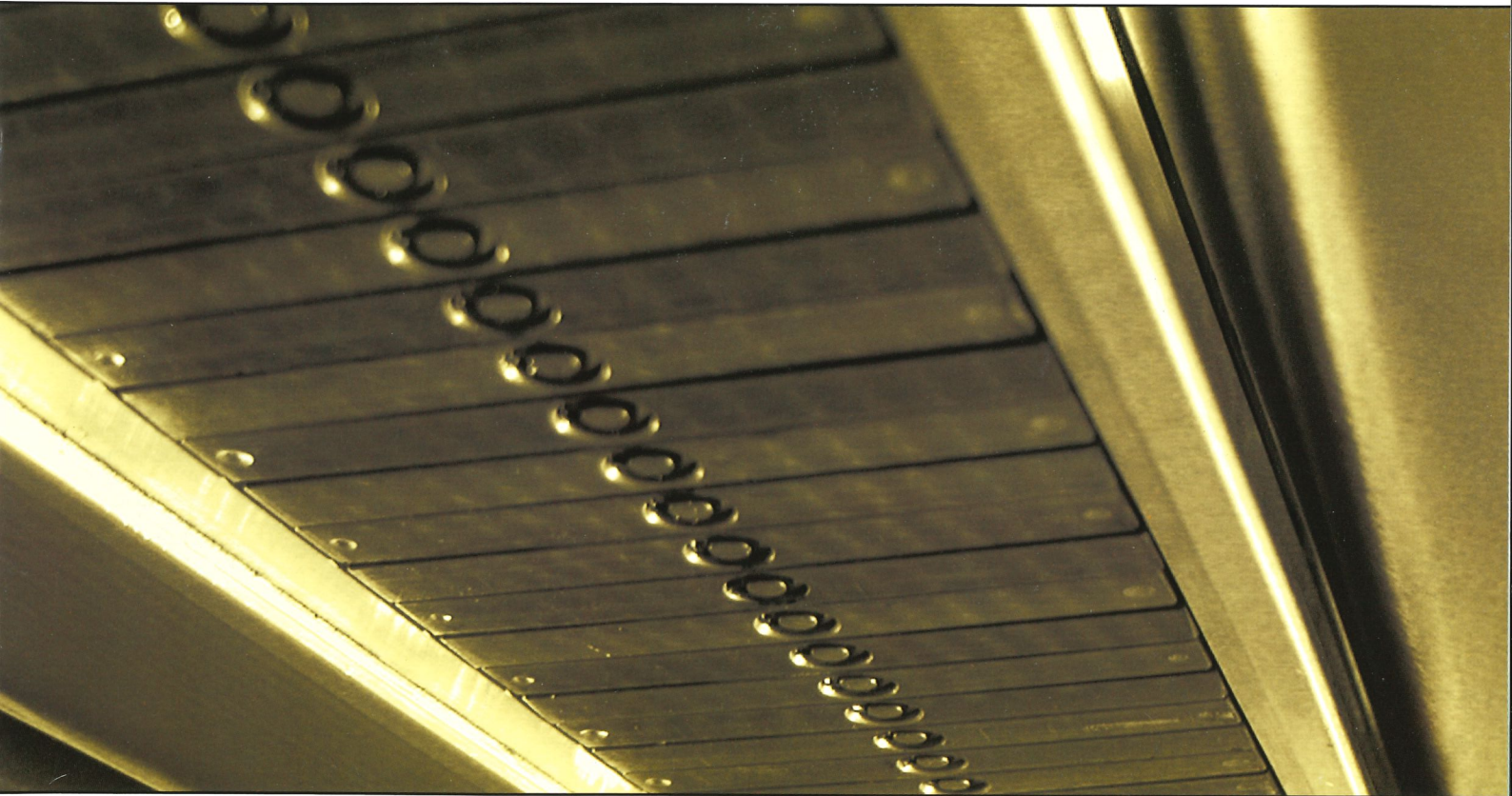


Wide Belt Sanding Machines

SCO 213 QC Diamond

SCO 313 QCE Diamond



Bütfering Diamond

SCO 213 QC

SCO 313 QCE

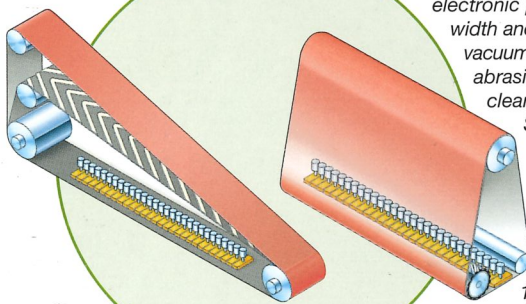


SCO 213 QC Diamond

The compact multi-role 'sanding centre' with Crossbelt and Combi unit for solid wood, veneer and lacquer sanding. CPS II electronic pad with 25 mm segment width and programmable pressures, vacuum table, frequency controlled abrasive belt drive, Scotch and cleaning brushes. Touch-Screen Terminal with 1000 sanding programs. Automatic head locking.

Options:

Abrasive belt length 2620 mm, CPS II electronic pad with 12,5 mm segment width! Workpiece cleaning device with De-ionization bar.

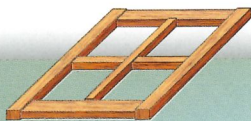
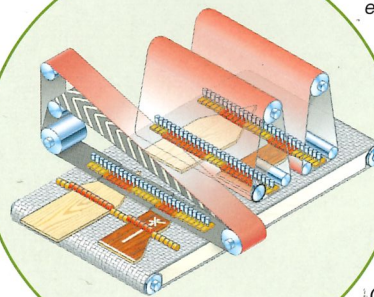


SCO 313 QCE Diamond

The compact multi-role 'sanding centre' with Crossbelt and 2 Wide Belts for solid wood, veneer and lacquer sanding, each in one pass with 2 or 3 heads. CPS II electronic pad with 25 mm segment width and programmable pressures, vacuum table, frequency controlled abrasive belt drive, Scotch and cleaning brushes. Touch-Screen Terminal with 1000 sanding programs. Automatic head locking.

Options:

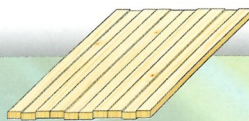
Abrasive belt length 2620 mm, CPSII – electronic pad with 12,5 mm segment width! Workpiece cleaning device with De-ionization bar.



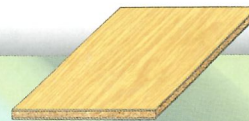
Frames



Calibrating solid edges



Glued up panels



Veneered panels



Chipboard



Lacquer / sealer sanding



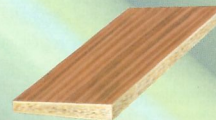
Workpieces with cut-outs



Shaped panels



Veneered panels with different thicknesses



Panels with thickness variation



Bowed panels

'High-tech' is a Bütfering standard

Diamond QC / Diamond QCE

These machines are mainly used for high class veneer and lacquer sanding.

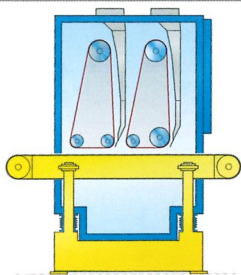
The use of the cross belt with it's shearing action across the feed direction offers several distinct advantages when combined with one or two wide belt heads to give superb sanding results.

With a longer length to prevent premature clogging, the cross belt is the most effective tool to remove excess glue from either veneer pressing or edgebanding operations.

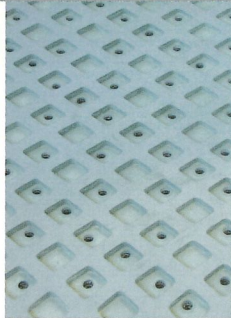
For the same reason the use of the cross belt is also recommended to remove veneer tape, or where inlays are used. This ideally prepares the part surface for upgrading with either one or two longitudinal wide belts, and maximises their lifetime.

Cross sanding of 'book matched' veneers is preferable to ensure colour consistency of stained parts, and has been proven to reduce the amount of lacquer needed to achieve high quality finishes. The cross belt shears the wood fibres across the grain, and raises fibres that can easily be removed by wide belts. When two wide belts are used it is possible to run each in a different rotation to optimise the result.

When sanding longer panels when the grain runs across the width, the cross belt head can be used on its own. In this way the parts are in fact sanded 'with the grain'. This technique is also an advantage when wanting to sand lacquered surfaces with superfine belts, such as in the preparation of polyester high gloss, when the length of the belt is a distinct advantage.



Constant pass-line



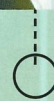
Vacuum table with high capacity fan inside the machine



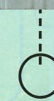
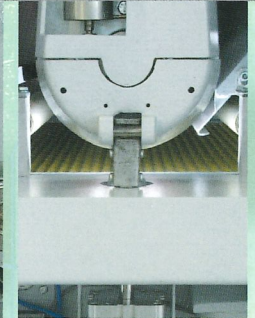
Frequency inverter for abrasive belt and feed speeds



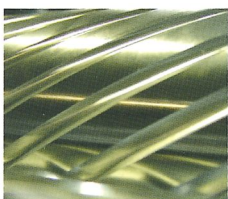
Rubberised pressure rollers



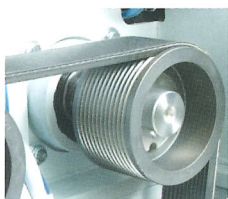
Oscillating air-jet belt blower, activated by the workpiece



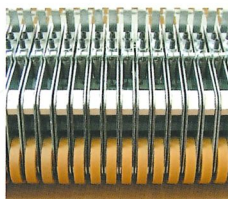
All wide belts with automatic head locking



Profiled steel contact roller, automatic positioning,



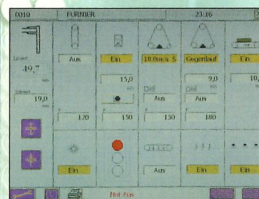
Poly V-belts



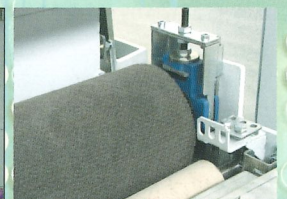
CPS II electronic segmented pad with fine linked sensing and segmentation



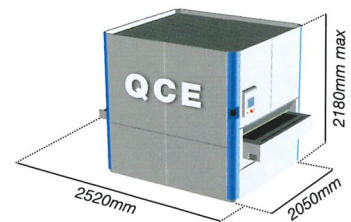
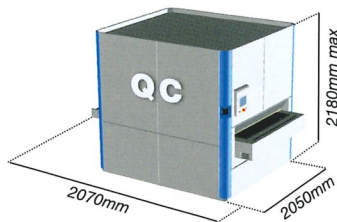
High-Tech sanding inserts



Graphically supported Operator Terminal (Touch Screen)



Scotch-Brite brush



Technical Data

Diamond QC

Diamond QCE

Dimensions	Working width	1350mm	1350mm
	Abrasive belt length crossbelt	4700mm	4700mm
	Abrasive belt width crossbelt	150mm	150mm
	Abrasive belt length wide belt	2150mm Option BL 2620mm	2150mm Option BL 2620mm
	Abrasive belt width wide belt	1370mm	1370mm
Space required	Width	2050mm	2050mm
	Length	2070mm	2520mm
	Max. height	2180mm Option BL 2415mm	2180mm Option BL 2415mm
Drives	Drive motor 1st head (constant torque)	13.5KW	13.5KW
	Cutting speed	2-16m/sec.	2-16m/sec.
	Drive motor 2nd head (constant torque)	15KW	15KW
	Cutting speed	2-18m/sec.	2-18m/sec.
	Drive motor 3rd head (constant torque)	-	7.5KW
	Cutting speed	-	1-9m/sec.
	Feed motor (constant torque)	1.0KW	1.5KW
	Feed speed	2.5-13m/min	2.5-13m/min
	Scotch brush and cleaning brush	3.0KW	3.0KW
	Vacuum	3.0KW	5.5KW
	Workpiece thickness min/max.	3-160mm	3-160mm
Extraction	Extraction volume	5470m ³ /h	8200m ³ /h
	Air speed	20m/sec.	20m/sec.
	Machine resistance	800PA	800PA
Pneumatic	Minimum air supply	6bar	6bar
	Compressed air consumption	120L/min.	140L/min.
	Air-jet belt blower 100%	535L/min.	1250L/min.
	Diameter of feeding pipe	min. R 1/2 "	min. R 1/2 "
	Volume flow	700L/min.	1400L/min.
Elektrics	Type of protection	IP 54	IP54
	Voltage	3 x 400Volt, ±5%	3 x 400Volt, ±5%
	Frequency	50/60 Hz	50/60 Hz
	Nominal current at full load	72A	94A
	Recommended service / fuse size	min. 80A	min. 100A
	Total connected load	36KW	47KW
Weight	Weight of machine	3600KG	4700KG
	Point loading at machine feet	73N/cm ²	150N/cm ²
	Pressure loading in the area of the machine	8400N/m ²	9710N/m ²

Technical Data and photos are not binding in all details.
Right of technical modification reserved. - 03.04

Frank und Frei, Münster

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