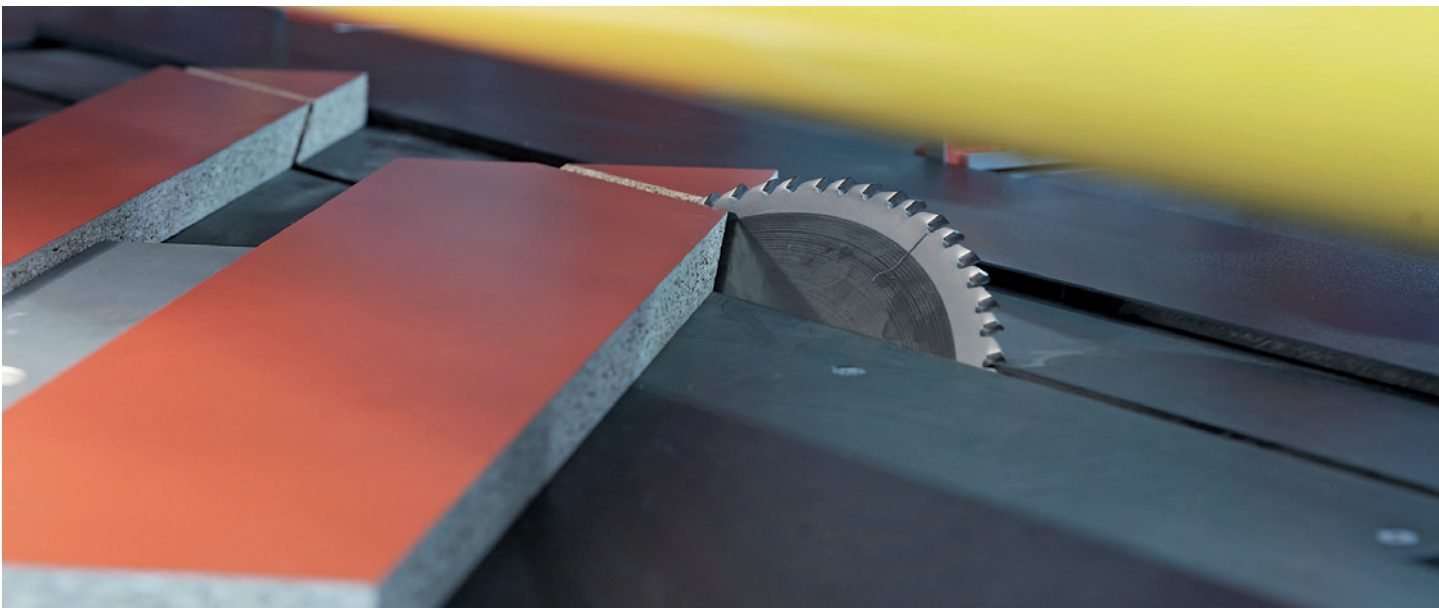


Cut-to-size saw s 45

Multifunctional through mitre cutting



CLEAN. PRECISE. PRODUCTIVE.

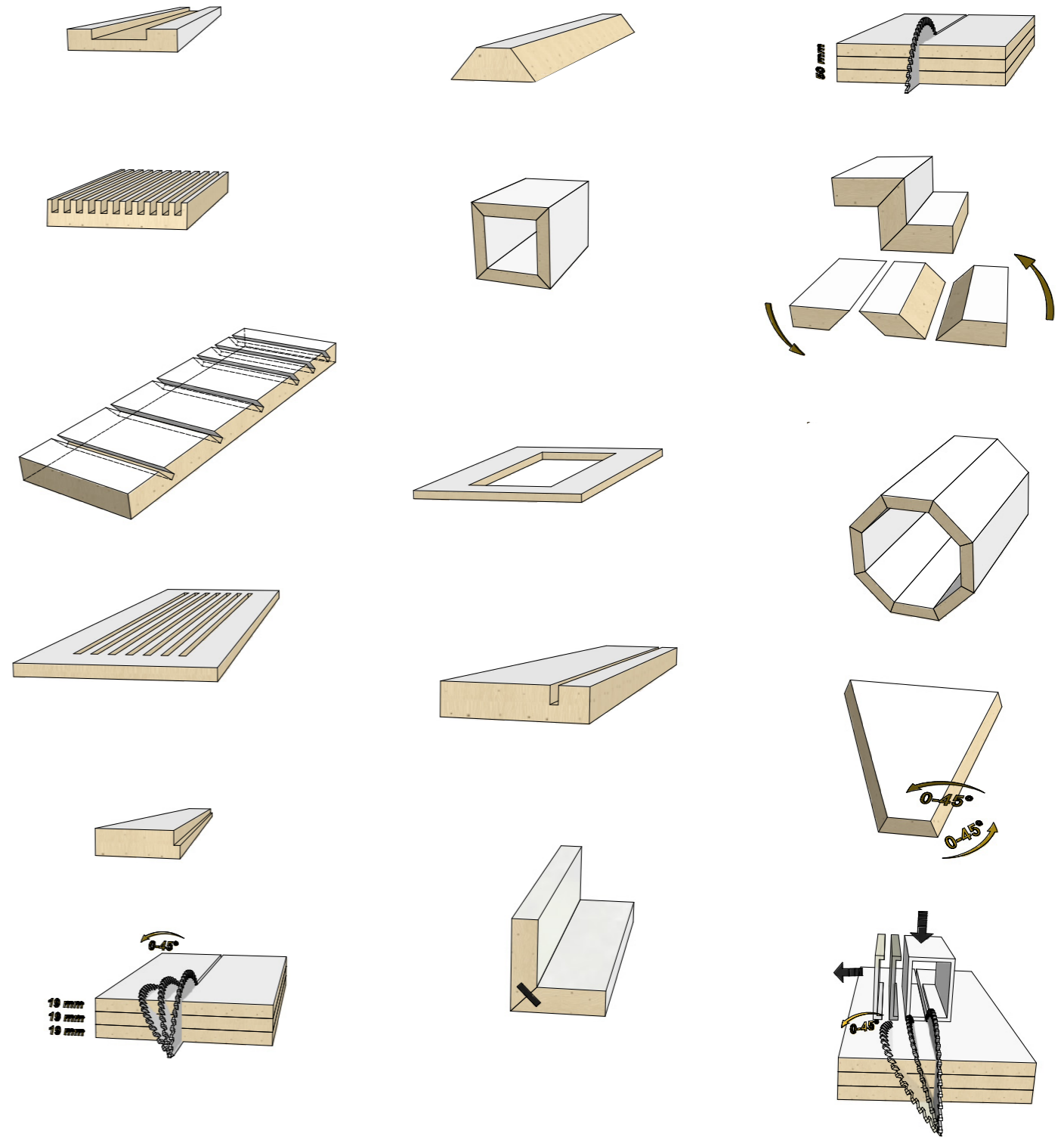
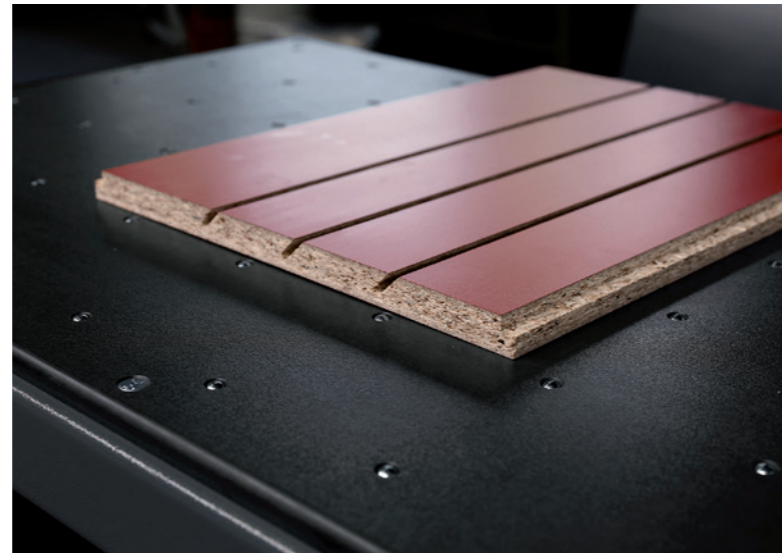


With the s 45 Schelling revolutionizes the work flow in regard of the cut to size of wood and wood based panels. Absolutely unique is the cutting of mitres up to 46° over the entire cutting length. With this function precise mitre cuts are carried out during the cut in just one single working step. From the starting panel to the smallest work piece any work can be done on demand either manually, semi-automatic controlled or fully automatic by just one operator. You as the user save manipulation paths, working time, space and thus direct process costs in production!

MACHINE EQUIPMENT

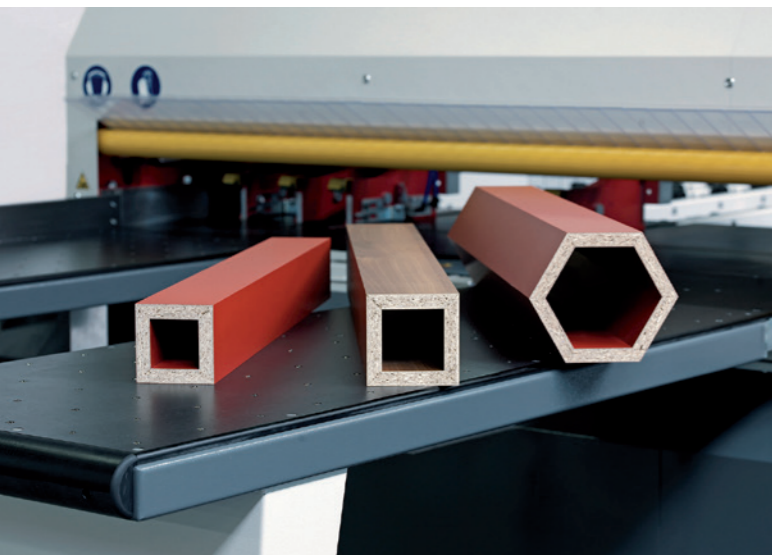
Multifunctional and precise

Mitregrooves - with rebate (Option)



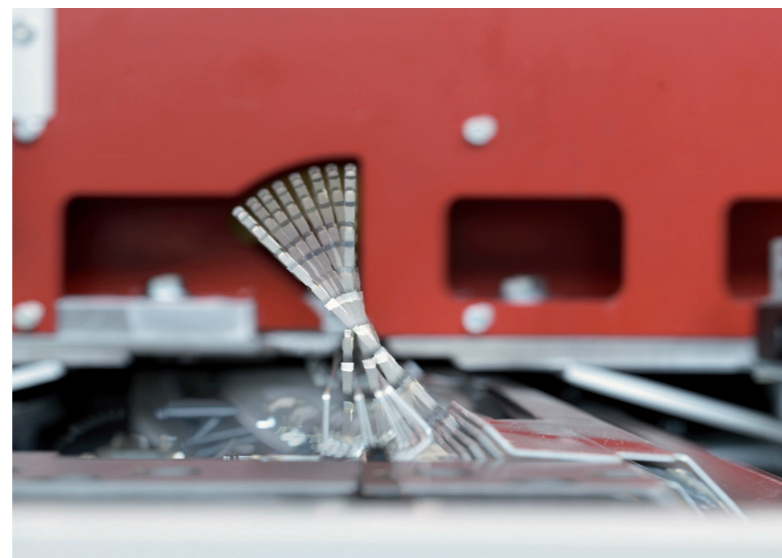
Standard

- Saw aggregate 0 to 46° pivotable
- Automatic positioning of pressure beam to board thickness and mitre
- Air floatation table fixed
- Air floatation moveable
- High performance saw motor 14 kW
- Saw aggregate with rack drive
- Precision guiding for saw aggregate – 10 years warranty for guiding shaft
- Cutting height adjustment in 4 steps
- Automatic cleaning of saw aggregate

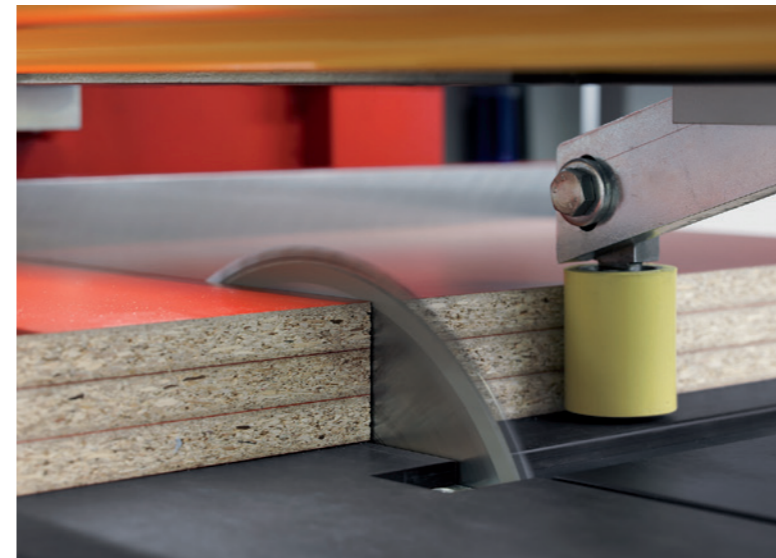


- Power lock system for fast and easy saw blade changing
- Scorer aggregate with 1,5 kW
- Work room illumination
- Window in pressure beam cover
- Parking position for air floatation table for better material handling
- Maintenance notes
- Twofold measuring system on feeder carriage
- Industry PC operating system Windows XP embedded
- 22 inch colour monitor

- Note pad on operating panel
- Remote maintenance
- Automatic measuring of the saw blade
- Controlled short stroke for pressure beam
- Strip aligning device
- Ergonomic working height
- Smallest required space
- Monitoring function for board thickness



Highest Precision by permanently operating strip alligner



Strong and fast due to 14 kW main saw motor. Speedy with respect to the working cycles, material pusher 120 m/min, speedy main sawing range up to 100 m/min. Speedy due to multi-functionality without machine change. Speedy, because closing of pressure beam and lifting of saw blade is done at the same time.

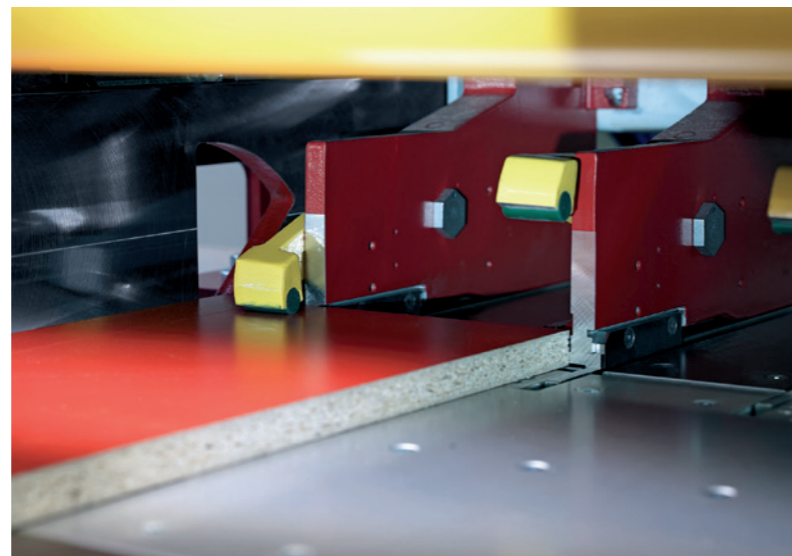
SIMPLE MATERIAL
INFEED,
PRECISE
POSITIONING.

CONTROL
DESK:
EASE OF
OPERATION

Schelling's easy-to-operate "MCS Evolution" control software and PIOS optimization software make operating the saw a breeze. Sequences are represented in real-time mode with unsurpassed fault diagnostic. Self explanatory operator guidance particularly eliminate operating errors, therefore increasing availability and machine efficiency.



Shifter cuts: angle cut facility in combination with mitre cuts



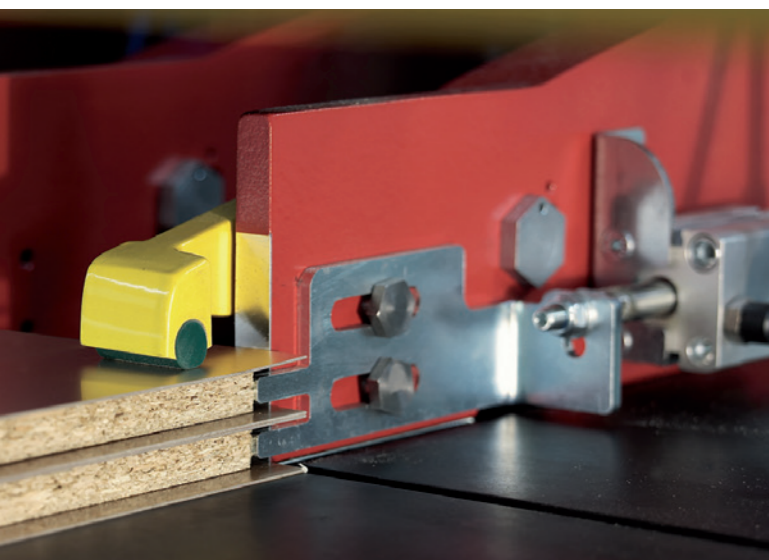
Clamps individually closable - no material damages

Options:

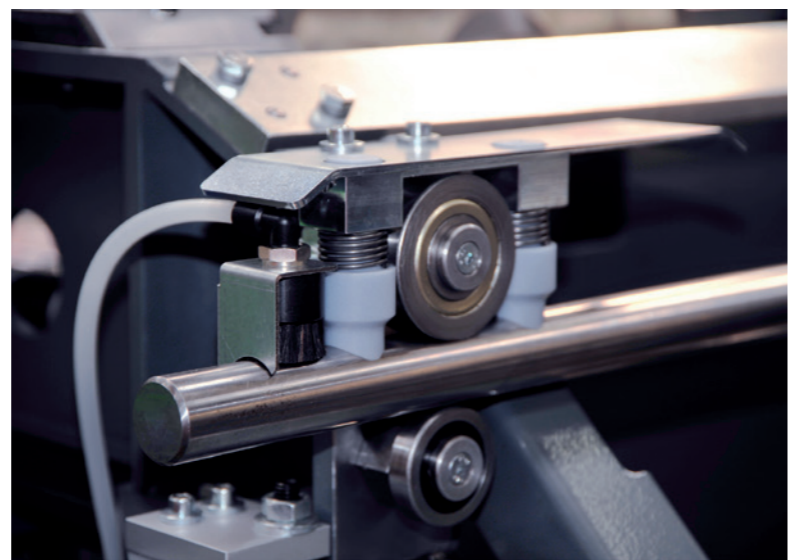
- Grooving device
- Window cutting and insertion grooves
- Label printer
- Formatting device
- Additional clamp
- Variable pressure adjustment clamp
- Angle cut device
- Motor driven cutting height adjustment main saw
- Continuous rotation speed control

- Electronic scorer adjustment
- Postforming scorer aggregate
- Line laser alignment
- Machine table with air floatation
- Power Plus Package with 97 mm saw blade protection

Automatic cleaning system of guiding shafts of saw aggregate
- maintenance and wear - and - tear - free guiding system



Cut for protecting coverlayers with automatic formatting unit



Optimization software PIOS

PIOS Pro V3:
Cut optimization software, for automatic generating of time or material optimized cutting patterns.

- Cutting pattern generation, with board indication scrap indication
- Optimization of parts with mitre / and angle cuts
- Part lists with edge correction
- Material management and remainder formats
- Tension relief cut program

The software can be expanded individually with numerous modules:

- Data import: automatic import of part lists from extraneous programs via USB-interface or network
- Block part optimization: Positioning and combining of single elements depending on the grain direction
- Module library: Furniture/parts flexibly defined, when changing L/W/T/Qty. the part list is adjusted automatically
- Filler parts: It is possible to create standard part for a material, which can be inserted in the cutting pattern instead of remainder parts, up to a defined amount.
- Edge calculation: Evaluation of the necessary total edge length per edge type, for each selected order
- Cutting time calculation: Calculation of the cutting time in consideration of processing speeds and handling times, calculated separately for each processing mode.

MCS Evolution

- Input of cutting patterns with graphic display
- Cutting pattern generator
- Cutting pattern transfer to optimization by network connection USB
- Cleartext - diagnosis
- Trimming automatic
- Slow cutting in / out
- Continuous automatic adjustment of cutting lengths to board size with freely selectable saw blade projection
- Third -, fourth -... phase - cuts with automatic alignment
- Automatic repositioning of saw aggregate and feeder

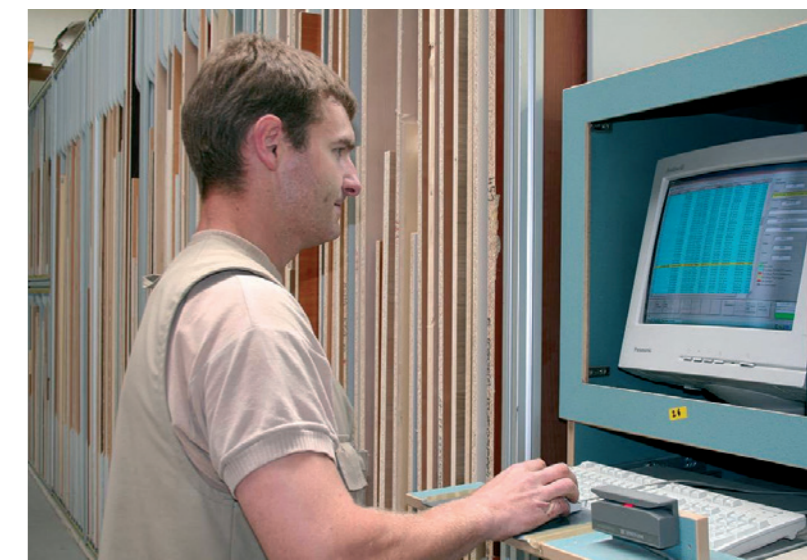
Remote maintenance via Internet

The remote maintenance system via Internet offers the following possibilities:

- Access to machine PC
- Access to machine PLC

A perfect addition for PIOS Pro V3 is the material and re- mainder administration

Intelligent management of remainder parts which were created by the optimization. Information messages during the cut, e.g. regarding storage location, storing number etc. Individual configuration of remainder storage locations. This allows using remainder parts in other processes as well, e.g. CNC machining centres. Manual booking in and out of remainders.



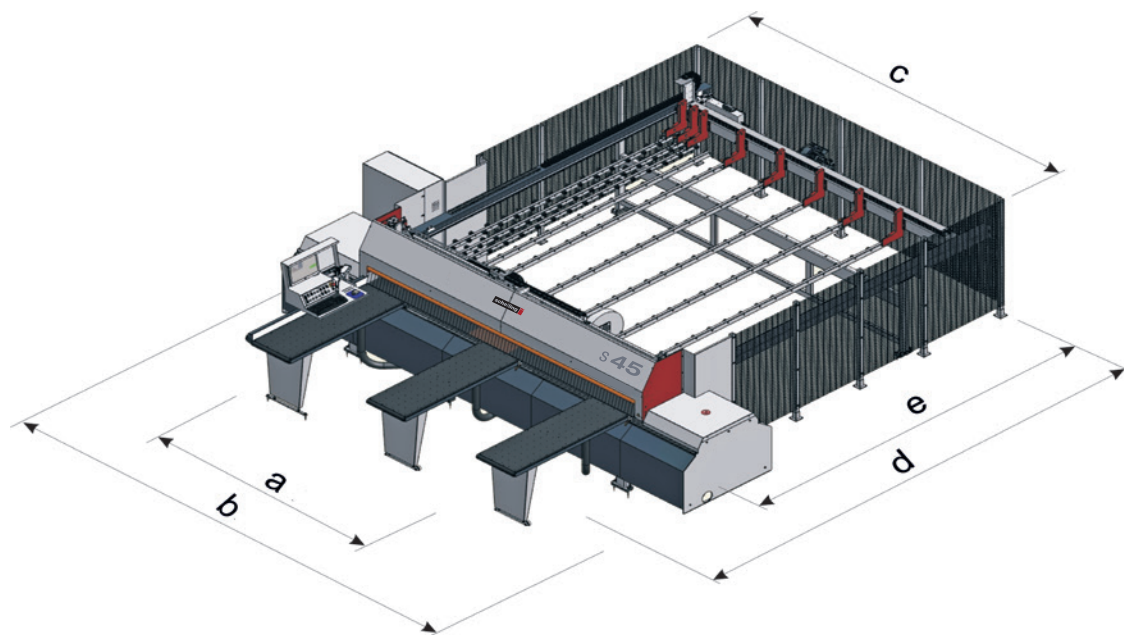
Technical data

s 45	
Saw Blade	
Diameter (mm)	350
Projection (mm)	72
Projection at pivot angle 45° (mm)	50
Clamp opening (mm)	84
Scorer aggregate	
Diameter (mm)	180
Feeder speed	
forward (m/min)	0,1 – 100
backwards (m/min)	0,1 – 120

Saw Carriage speed	
forward (m/min)	0,1 – 100
backwards (m/min)	100
Motor power	
Main saw (kW)	14
Scorer (kW)	1,5
Extraction unit	
Extraction channel bottom (mm)	Ø 140
Extraction connector top (mm)	Ø 100
Air speed (m/s)	30
Machine resistance (Pa)	1800
Volume flow rate (m³/h)	3400

Dimensions s 45

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s 45	320	420	580
Cutting length	3200	4200	5800
a (mm)	3210	4210	5810
b (mm)	5450	6450	7935
c (mm)	3900	4900	6523
d (mm)	6365	7380	9860
e (mm)	4125	5140	7620
Weight (kg)	4800	6300	7700