



Cut-to-size saw fh 6 / fh 8

On the cutting edge.

schelling.com

FUTURE STANDARDS FOR NOISE PROTECTION
AND DUST PROTECTION INCLUDED.



Today the fh 6 / fh 8 already satisfies the standards of tomorrow. For instance, this is clearly demonstrated in the fact that it already anticipates future noise protection and dust protection standards. Special small grooves in the machine table minimize noise and dust emissions. Sound-attenuated single blowers in the air cushion tables, as well as special insulated cladding offer additional noise reduction.

Thus today the fh 6 / fh 8 is the quietest machine in its class, by a wide margin.

AUTOMATION FOR EVERY
DEGREE OF EXPANSION.



With the fh 6 / fh 8 Schelling extends the familiar strengths
and offers clear advantages in all machine details.

ROBUST. PRODUCTIVE.
PRECISE.



With the fh 6 / fh 8 cut-to-size saw, Schelling offers maximum productivity and precision for highly professional machining of wood fibreboard and particle board panels: for flexible and fast cut-to-size of single panels as well as large books of material. With this, Schelling remains true to the philosophy of solid mechanical engineering. The massive, robust construction prevents natural vibration, and thus increases precision at each cut.

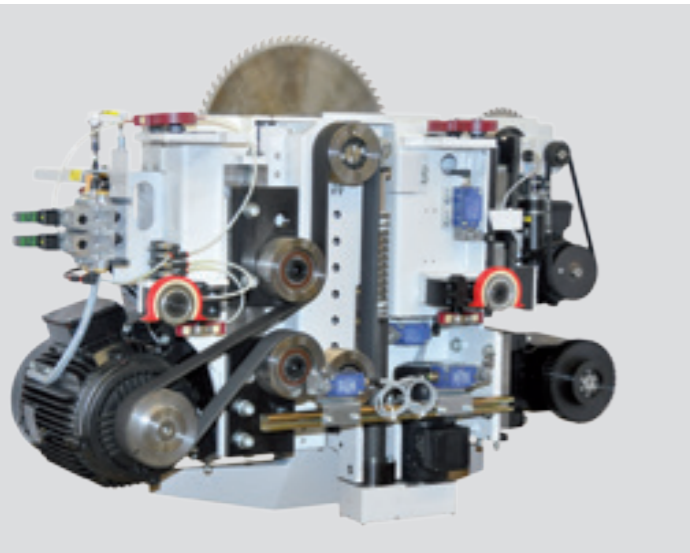
In addition this solid construction assure years of reliable implementation, as well as unusually long tool service life at minimum maintenance costs.

CUTTING POWER: CONTROLLED FOR OPTIMAL PERFORMANCE

With the fh 6 / fh 8 a variety of automatically monitored functions ensures optimized, harmonious work sequences. Saw feed and saw blade stroke are executed simultaneously, this means shorter cycle times per cut. The saw feed rate adjusts itself to the different book heights. This ensures that the machine always works at the maximum possible feed rate. The pressure beam is regulated automatically depending on panel length and book height.

Saw unit: Ideal implementation of force

The Schelling fh 6 / fh 8 cut-to-size saw has the unique "Evolution" drive concept and offers an optimally matched ratio of motor power and useable book height. The saw motor is fixed in place on the saw carriage, thus it does not move with the saw blade. This permits strong motors with higher power while keeping the operating height low. The optimized chip routing system which is integrated in the saw carriage allows for the immediate disposal of chips from the cutting area. This in turn results in longer saw blade service life.



The DUPLUS2 implements two individually working feeder units that position the material in the saw independently of each other.

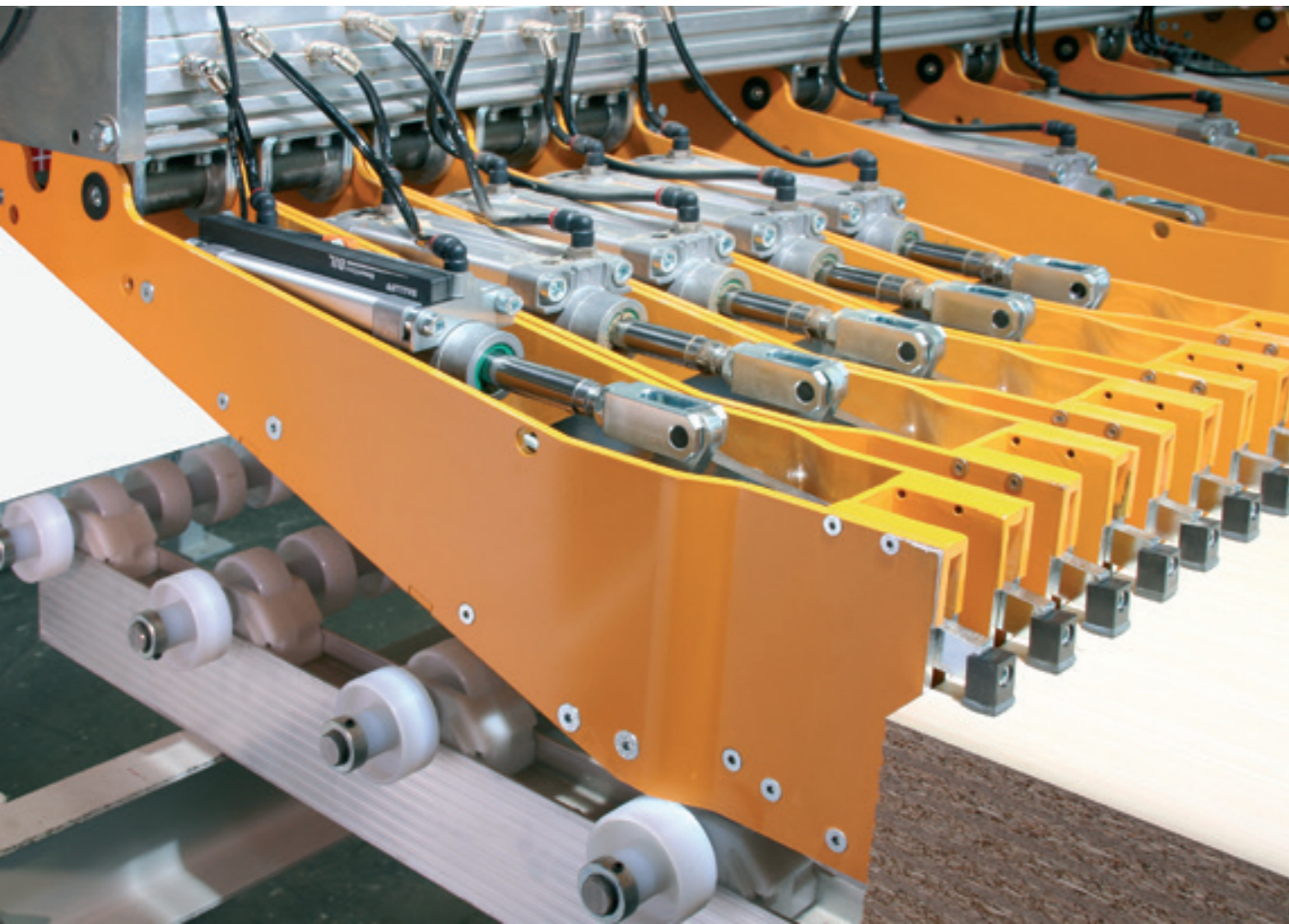
This results in a clear performance increase due to simultaneous cutting of head part and main part or two strips of material with different cross cut dimensions.



Automatic labelling is a unique feature from Schelling. In this regard, the complete panel is automatically labelled in the in-feed area, i.e. before the panel is cut to size.

Labelling positions can be freely selected. Labels are also appropriately applied for parts rotated 90 degree.

Overall this results in a clear performance increase, as the case-by-case stops required for manual labelling are eliminated.



The separate push-off carriage enables simultaneous loading of the saw and dividing of panels. This considerably increases production capacity.



The Schelling turning device enables automatic execution of head cuts and longitudinal cuts without interruption. Each necessary rotation is executed in 90 degree increments, in this regard it adapts the rotational speed to the book height and ensures short and highly-precise machining cycles. The turning device is designed for automatically loaded cut-to-size saws and angular plants.

PRECISION: ACCURACY THROUGHOUT THE ENTIRE SERVICE LIFE



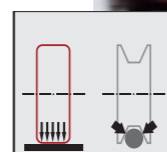
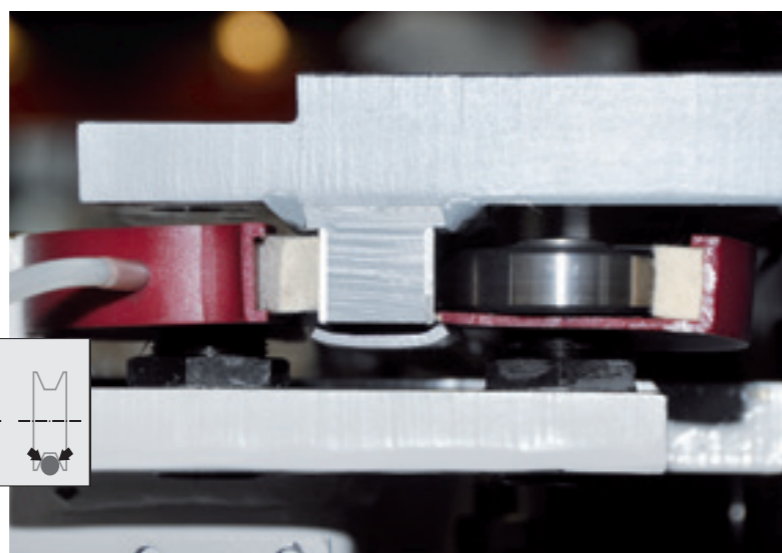
The precision-milled, steel machine table offers maximum resistance toward wear and protects material surfaces during the cut-to-size operation. The solid, robust design prevents any deflection, and thus assures maximum accuracy, even with heavy panels and large book heights.

Dual strip aligner

The dual strip aligners upstream and downstream from the saw line remain on the material even during the cut and thus ensure maximum angular accuracy. The alignment force is adjusted automatically with a frequency converter to the material thickness or book height. Thus even thin panel strips can be cut with high precision.

High-performance flat guide

The Schelling high-performance flat guide for saw carriage and feeder carriage guarantees maximum precision over the service life of the machine at minimum maintenance costs.



System comparison:
Line contact – no point load

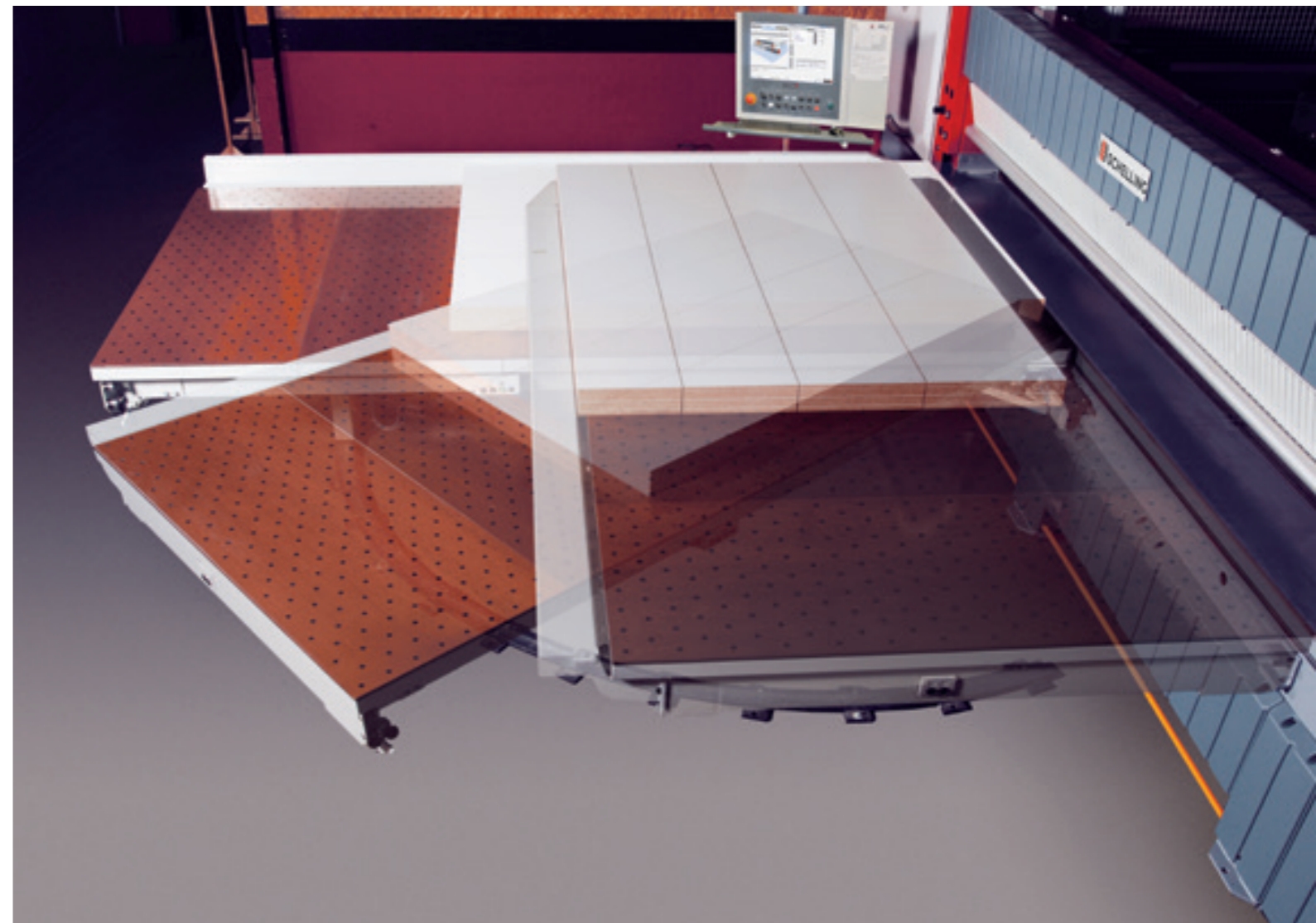


Handling: Easy and convenient operation

The extra-wide moveable air cushion tables enable optimal work and can be locked in any position in any desired position. The air cushion tables are always right where they are required.

The patented turntable enables easy handling. All long strips are automatically rotated in one process. This reduces the time expended for material handling and offloads operating personnel. In addition the surfaces of the panels are protected.

Simultaneously the turntable serves as material buffer during the entire dividing process. There are no parts that must be removed from the saw and reloaded.



HANDLING: SAFE AND GENTLE ON MATERIAL

The extra long slide-out scissor clamps that extend to the front edge of the saw table facilitate book transfer for operating personnel.



With automatic in-feed the push-off spindels adjust themselves precisely to the set number of panels to be divided. To handle panels from a thickness of 6 mm, special retaining device units are used. Also the waviness of the panels is taken into consideration.

MATERIAL TRANSPORT: ADAPTED TO EVERY REQUIREMENT

Vacuum in-feed: Transport of panels with sensitive surface



Area storage system: Increased productivity



Manual stacking: Easy material handling

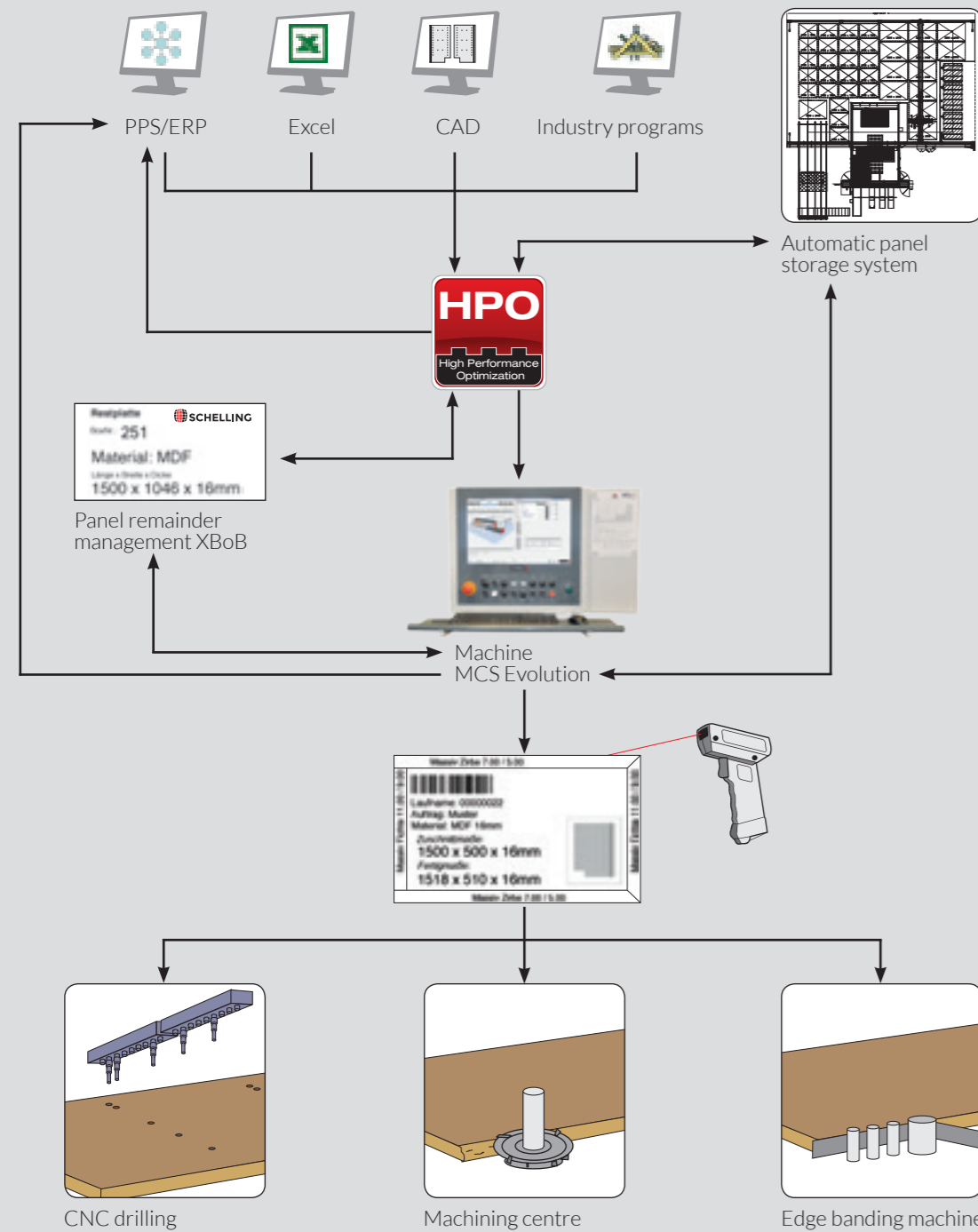
Material loading and handling are essential performance characteristics for increasing the efficiency of a cut-to-size saw. Schelling offers specially-adjusted loading, material handling and stacking solutions that can be adapted to individual requirements. A single source for everything from planning to commissioning.

Quality: edge scoring

The edge scorer prevents the exit edge from tearing out when cutting material with coated edges. The edge scorer works automatically to a book height of 120 mm.



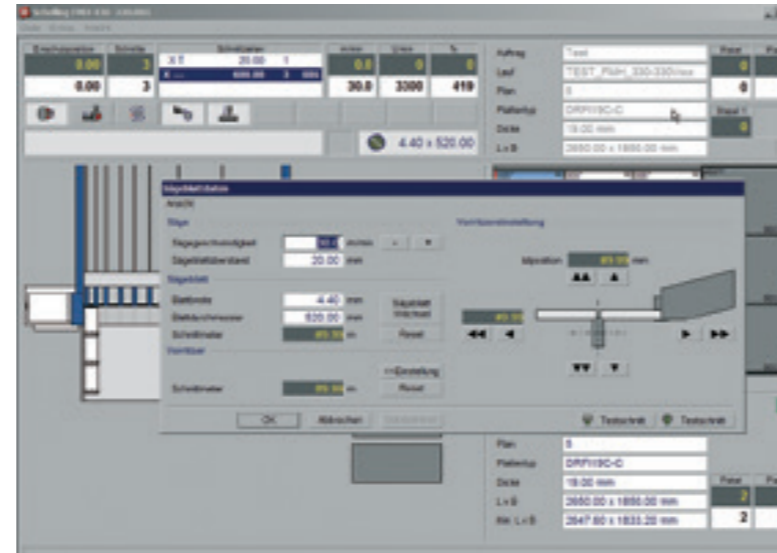
PRODUCTION SEQUENCE DIAGRAM



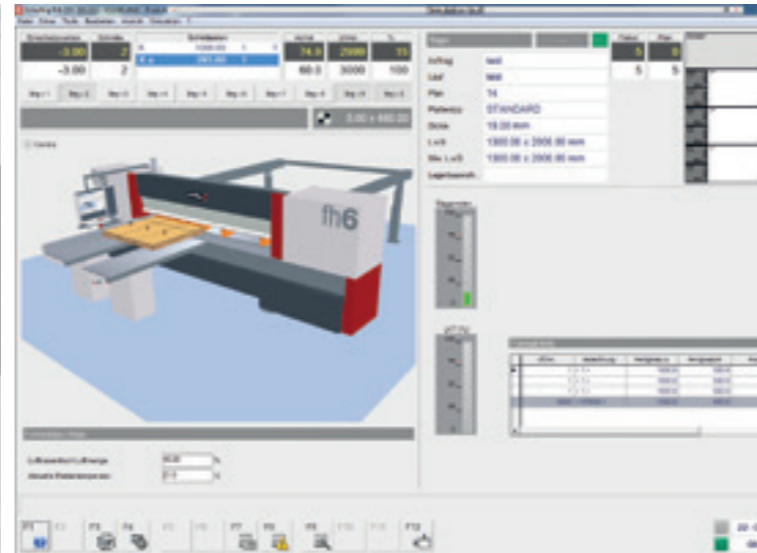
CONTROL DESK: EASE OF OPERATION.

Schelling's easy-to-operate "MCS Evolution" control software and "HPO" 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.

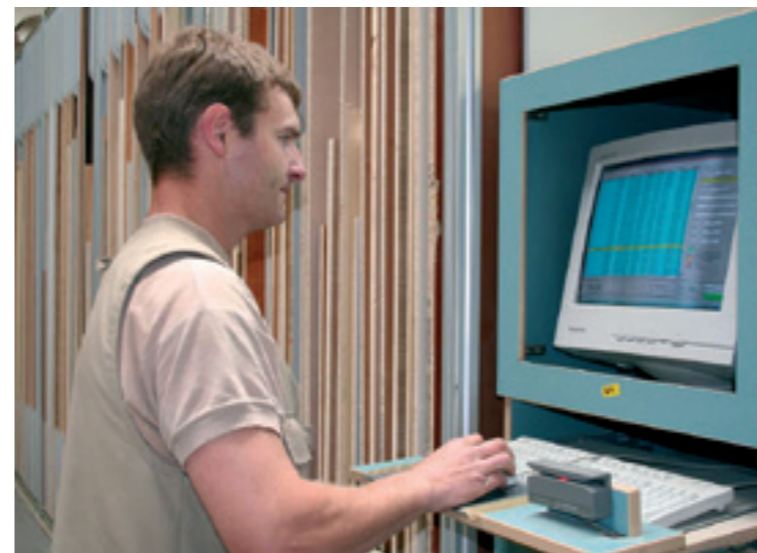
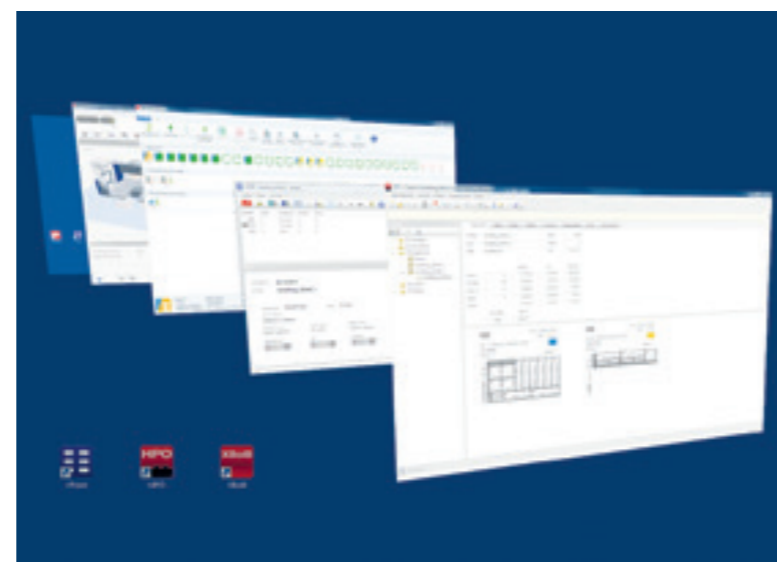
Operator panel: Electronic scorer adjustment



Control: Data of actual production on the screen



With the XBoB remainder management program, panel remainders can be managed in a manual store. Remnants are booked in and out in interaction with the machine controller. In addition XBoB is the interface from the machine controller to the optimization program. Remnants that accumulate can be re-planned and used without delay in the optimization. An easy and safe system for maximum capacity utilization of material.



TECHNICAL DATA

Saw blade

Diameter (fh 6)	480 mm / 18.90"
Projection (fh 6)	145 mm / 5.71"
Clamp opening (fh 6)	145 mm / 5.71"

Diameter (fh 8)	520 mm / 20.5"
Projection (fh 8)	165 mm / 6.5"
Clamp opening (fh 8)	150 mm / 5.91"

Power

Saw motor (fh 6)	21 / 27 kW
Saw motor (fh 6)	29 / 37 HP
Saw motor (fh 8)	27 / 32 kW
Saw motor (fh 8)	37 / 43 HP

Dimensions fh 6 / fh 8 manual

	330	430	580	630
a	3330 / 131.00"	4330 / 170.50"	5830 / 229.50"	6330 / 249.25"
b	6450 / 254.00"	7450 / 293.25"	8950 / 352.25"	9450 / 372.00"
c	3860 / 152.00"	4860 / 191.25"	6360 / 250.50"	6860 / 270.00"
d	7100 / 279.50"	8100 / 319.00"	9600 / 378.00"	11000 / 433.00"
e	4600 / 181.00"	5600 / 220.50"	7100 / 279.50"	7600 / 299.25"

Weight

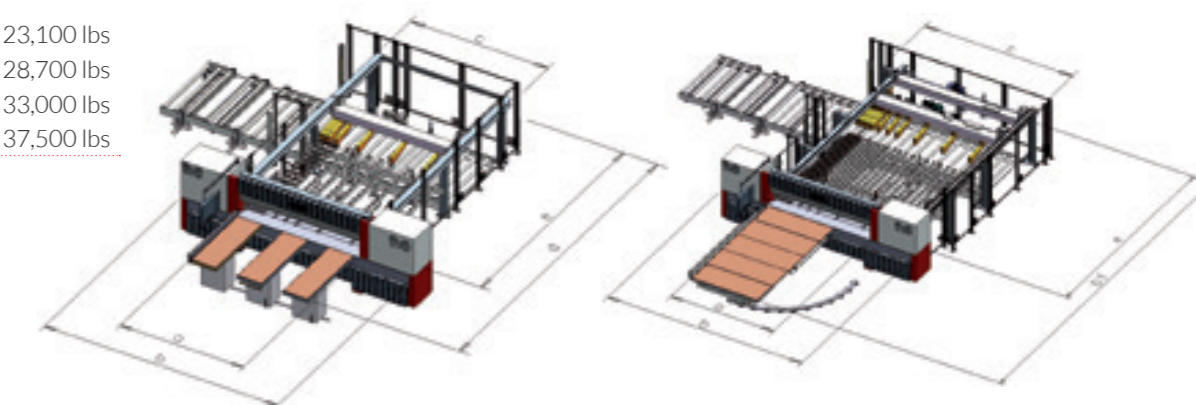
330	7.500 kg / 16,500 lbs	430	10.000 kg / 22,000 lbs
580	11.000 kg / 24,250 lbs	630	12.000 kg / 26,500 lbs

Dimensions fh 6 / fh 8 automatic

	330x160	330x220	430x160	430x220	580x220	683x220
a	3330 / 131.00"	3330 / 131.00"	4330 / 170.50"	4330 / 170.50"	5830 / 229.50"	6330 / 249.25"
b	6450 / 254.00"	6450 / 254.00"	7450 / 293.25"	7450 / 293.25"	8950 / 352.25"	9450 / 372.00"
c	3830 / 150.75"	3830 / 150.75"	4830 / 190.25"	4830 / 190.25"	6360 / 250.50"	6860 / 270.00"
d	7900 / 311.00"	8900 / 350.50"	8900 / 350.50"	9400 / 370.00"	10900 / 429.25"	11400 / 448.75"
dDT	9000 / 354.25"	10000 / 393.75"	10000 / 393.75"	11460 / 451.25"	14460 / 569.25"	15460 / 608.75"
e	5400 / 212.50"	6400 / 252.00"	6350 / 252.00"	6850 / 269.75"	8350 / 328.75"	8850 / 348.50"
f	3600 / 141.75"	3600 / 141.75"	4600 / 181.00"	4600 / 181.00"	6100 / 240.25"	6600 / 259.75"

Weight

330	10.500 kg / 23,100 lbs
430	13.000 kg / 28,700 lbs
580	15.000 kg / 33,000 lbs
630	17.000 kg / 37,500 lbs



The current release of the HPO cutting plan optimization presents new functions for productivity and operating convenience. Multi-core use ensures the speed available from state-of-the-art hardware is effectively utilised. Thus computing times are reduced by as much as 60%. In addition the system works with the latest computer core. Another new feature is that the appearance of plans can be virtually set as desired, on request the optimal un-machined panel can be determined, the print function can be configured and searching has been even more clearly designed.



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EXPERTISE IN
DEVELOPING
SOLUTIONS
FOR THE
WOODWORKING
INDUSTRY**

The IMA Schelling Group is a reliable partner for implementing of sophisticated system solutions. The demands of our customers are a daily challenge to us, our know-how and creativity! We work with you to develop innovative and unique solutions for wood processing.

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Subject to technical modifications and amendments and to further developments. The offer, respectively the order confirmation is relevant in either case!
The picture of the machine could have been taken without complete protection devices. The protection device is part of the scope of delivery.
Photos could also be options, not being part of the scope of delivery.