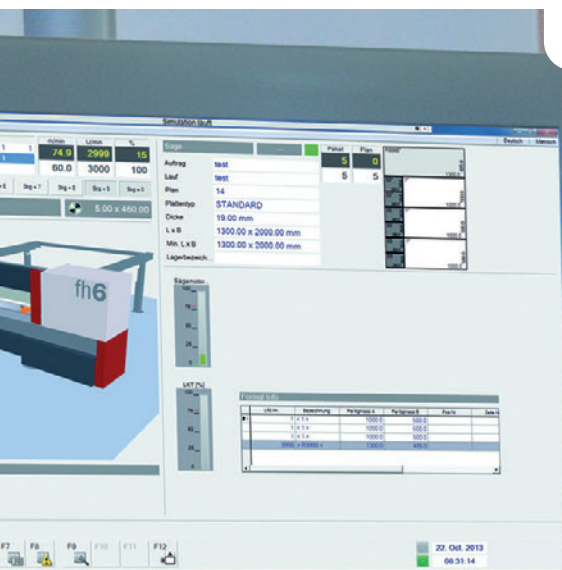




IMA SCHELLING
GROUP



Cut-to-size saw fh 6 / fh 8

On the cutting edge.

imaschelling.com

CUT-TO-SIZE SAW FH 6 / FH 8



FH 6 / FH 8
ENG 06/2022



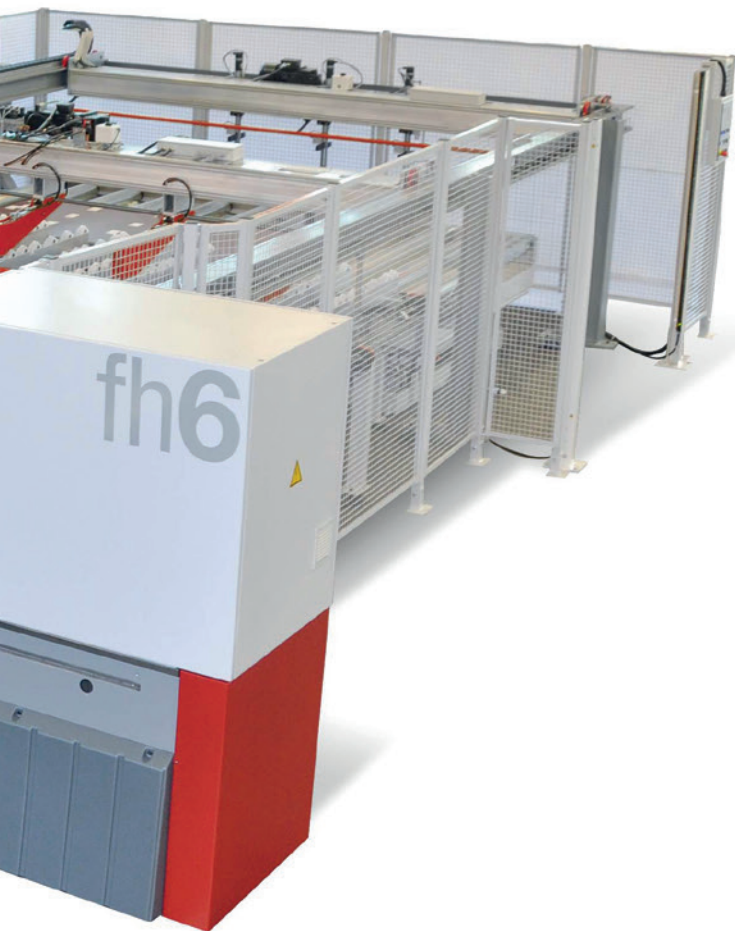
Energy-efficient production

With the fh 6 / fh 8, environmental protection and energy saving are already part of the standard programme: examples of this are the integrated standby operation, the optimised extraction of the units, a greatly reduced consumption of compressed air or, for example, the energy-efficient drive technology.

With the fh 6 / fh 8 IMA Schelling extends the familiar strengths

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.



OVERVIEW



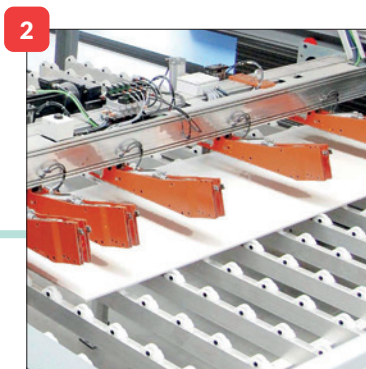
ROLLER-RAILS

Contour-turned polyamide freewheeling rollers ensure gentle material transport



FEEDER

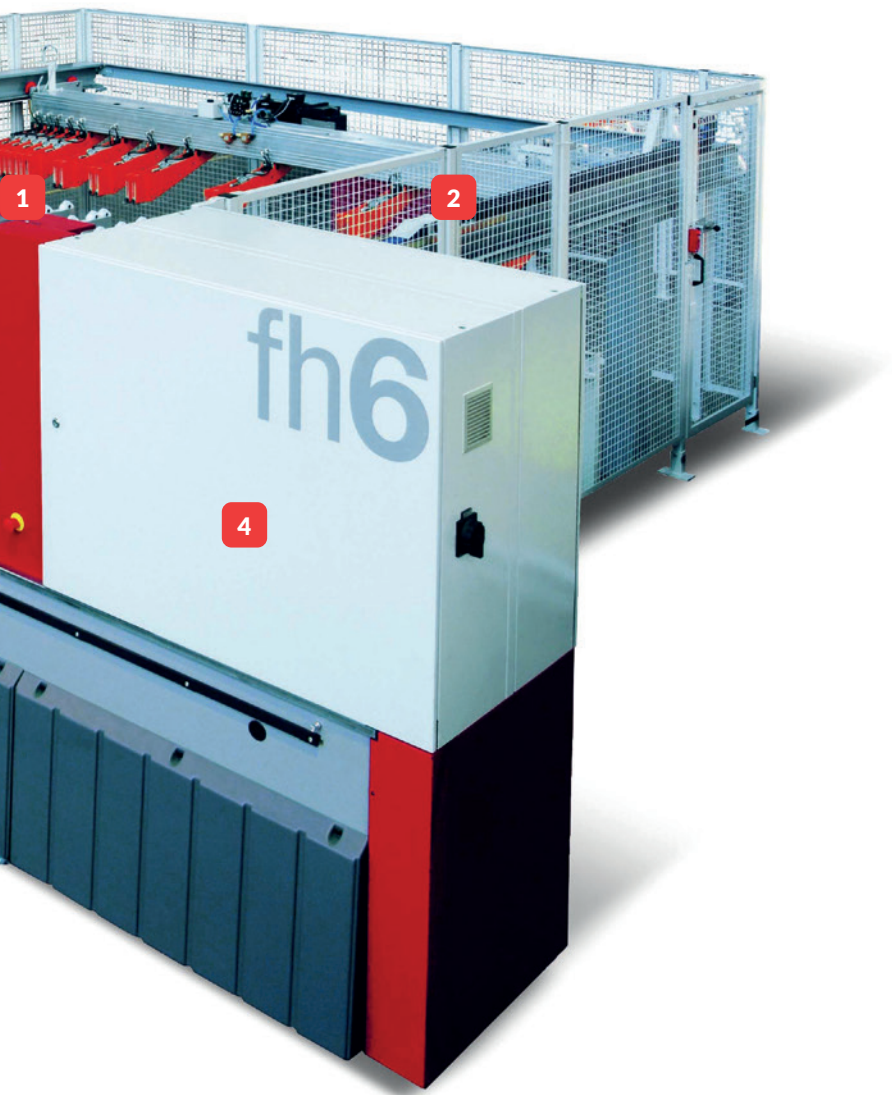
Clamps ensure the exact positioning of the material on the cutting line



MACHINE TABLE

Finely machined steel surface prevents wear and tear and protects the material surfaces





SAW UNIT

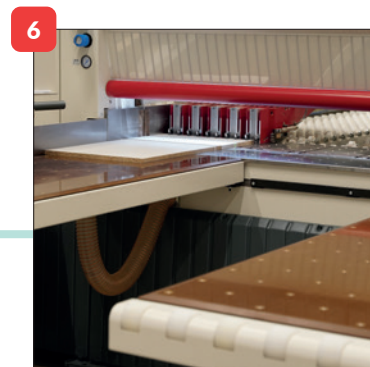
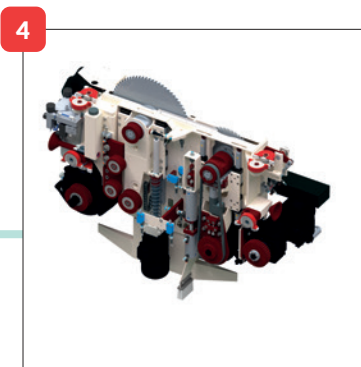
Evolution drive concept with fixed motor and integrated chip guidance system

STRIP- ALIGNER

Before and after the sawing line for highest angular accuracy

AIR FLOATATION TABLE

Individually lockable for optimal work





HIGHEST
PRECISION OVER
THE ENTIRE
SERVICE LIFE

DETAILS OF THE SERIES

Robust. Productive. Precise.

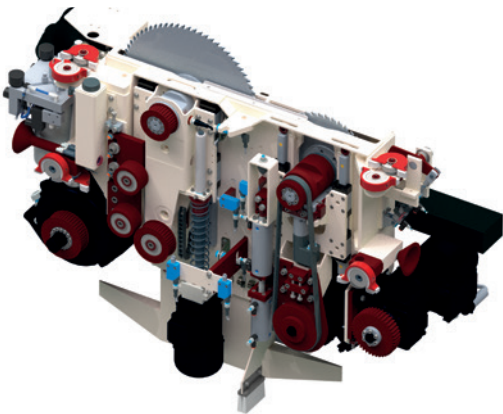
With the fh 6 / fh 8 cut-to-size saw, IMA Schelling offers maximum productivity and precision for highly professional machining of wood fibreboard and particle board panels: for flexible and fast cut-to-size of single panels as well as large books of material. With this, IMA Schelling remains true to 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.



FEATURES

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.

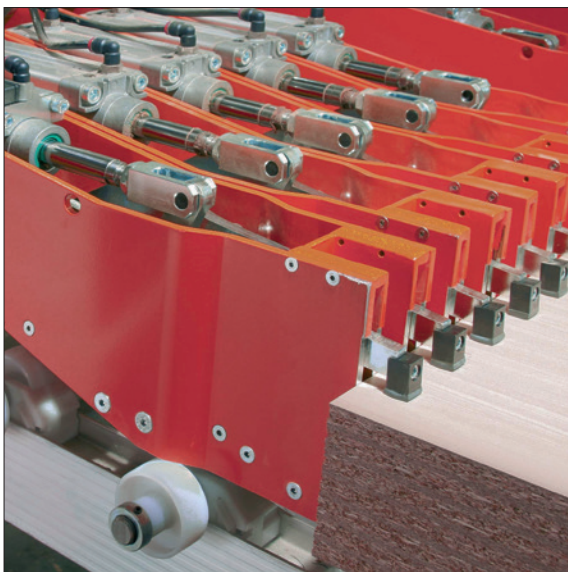


IDEAL IMPLEMENTATION OF FORCE

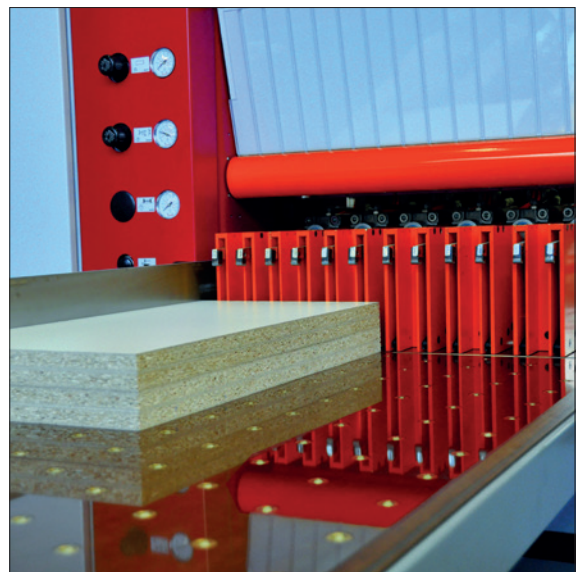
The IMA Schelling fh 6 / fh 8 cut-to-size saw has the unique "Evolution" drive concept and offers an optimally matched ratio of motor power and useable book height. The saw motor is fixed in place on the saw carriage, thus it does not move with the saw blade. This permits strong motors with higher power 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.

STEEL MACHINE SURFACE

- Very thin table top made of solid steel
- More stable and less subject to wear than plastic surface
- Smaller saw blades with the same package heights
- Smaller saw blades mean: more cutting power with the same motor power



With the help of the clamps, the panels are transported directly to the saw and the air cushion table



Extra-long extending scissor clamps on the front edge of the saw table facilitate package transfer for the operating personnel



The air floatation table is always where it is needed at the moment

AIR FLOATATION TABLE

The extra-wide, movable air floatation tables enable optimal working and can be locked in any desired position. At the same time, it serves as a material buffer during the entire cutting process.

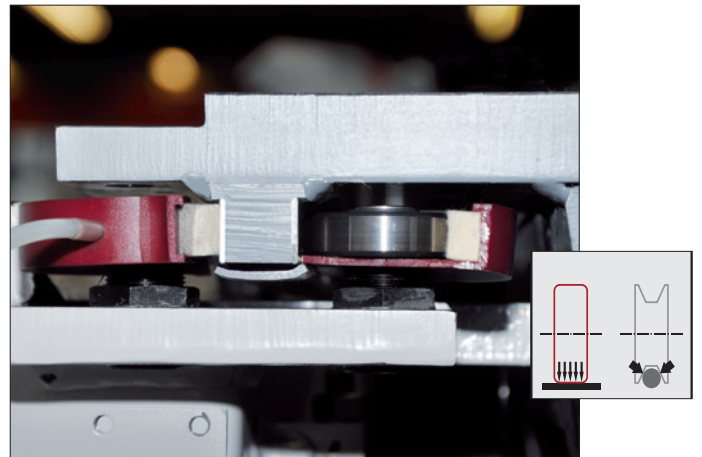
- No removal and reloading of parts in the saw necessary
- Protection of the panel surfaces
- Also optionally available as a turntable



Even high books can be easily aligned to ensure the highest angular accuracy

DUAL STRIP ALIGNERS

The dual strip aligners, one before and one after the saw line remain on the material during the cut ensuring maximum angular precision. The alignment force adjusts automatically to the material thickness or book height with the aid of a frequency converter. This means that even thin panel strips can be cut with high precision.



System comparison: line contact - no point load

HIGH-PERFORMANCE FLAT GUIDE

The IMA Schelling high-performance flat guide is used for saw aggregates, feeder and separate push off carriages. It stands for the highest level of precision for the entire service life of the machine. It also ensures that maintenance costs stay low.

MATERIAL SUPPLY

IMA Schelling offers individual feeding, material handling and stacking variants that can be adapted to customer-specific requirements. Everything from a single source. From planning to commissioning.

AUTOMATIC IN-FEED

With automatic in-feed the lift table adjusts itself precisely to the set number of panels to be divided (for panel thicknesses from 6 mm). The push-off rods move the book of material from the lift table onto the roller table. Special push-off spindles are used to handle panels from a thickness of 3 mm as well as wavy material. With special counterholders, even thin sheets with a thickness of 3 mm or more can be pushed off the stack with piece-by-piece precision.



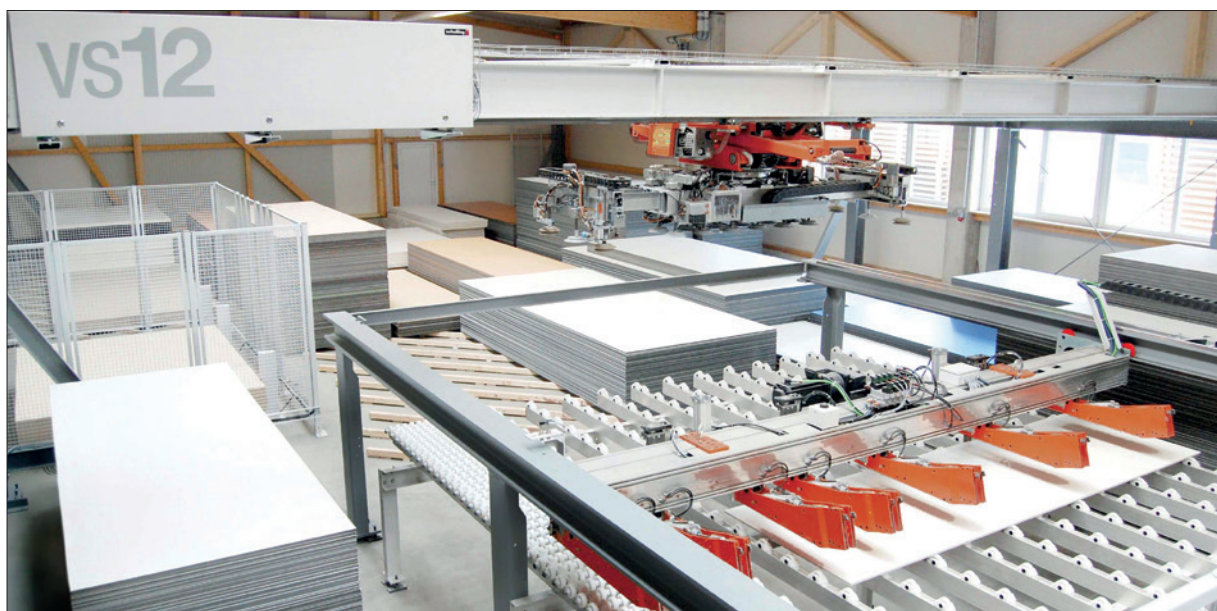
Automatic loading at the lifting table



From a thickness of 3 mm with special retainers

AREA STORAGE

Our area storage systems offer perfect storage logistics and space utilisation with optimal access to each individual panel. The faster and more space-saving the panel passes through the warehouse, the more economical.



Area storage: increased productivity

HANDLING FEATURES

Easy and comfortable handling allows a significant reduction of time, protects the material and relieves the operating personnel.



The turning device has been developed for automatic loading cut-to-size machines and angular systems



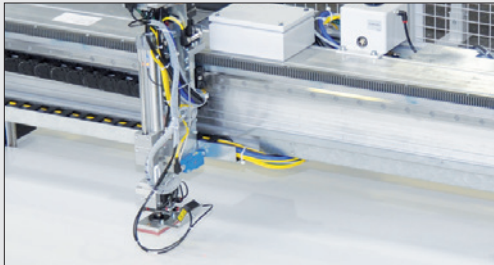
TURNING DEVICE

- Makes automatic execution of head cuts and longitudinal cuts possible without interruption or manual interference
- Each of these turns is executed in 90 degree steps. In this process the speed is automatically adapted to the actual material book height

HAND STACKING

For series production with many book cuts, it is advisable to connect to a manual stacking system. In the manual stacking boxes, which can be expanded as required, cutted books can be easily combined into a stack and removed manually or automatically.

PERFORMANCE ENHANCING FEATURES



AUTOMATIC LABELING

- In this process, labels are applied to the entire board fully automatically in the infeed area
- The labeling positions can be selected freely
- For parts rotated by 90 degrees, the label is also offset by a quarter turn.
- The labels are applied parallel to the cutting of the preceding cutting plan
- Previous stops for manual labeling are eliminated, and production speed increases

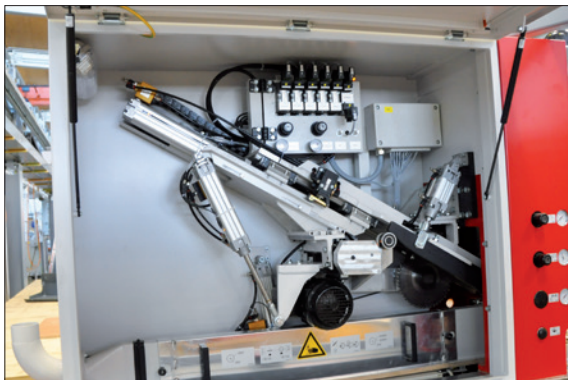
Furthermore, IMA Schelling offers optional, individual and customised features that contribute to a significant increase in performance.



Two individually operating feeders that position the material independently of each other in the saw

DUPLUS

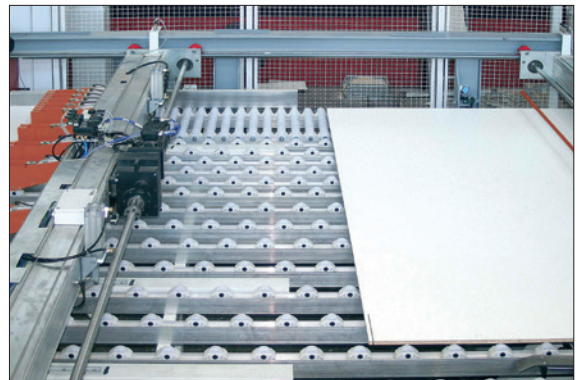
With the DUPLUS2 concept either head and main parts or cross sections of two strips with different cutting patterns can be processed simultaneously.



Jump scoring for soft or post-formed edges

CUT QUALITY

The separate edge scoring unit is used to pre-score the exit edges of soft and postforming plates. This achieves tear-free cuts



Production increases by up to 25%

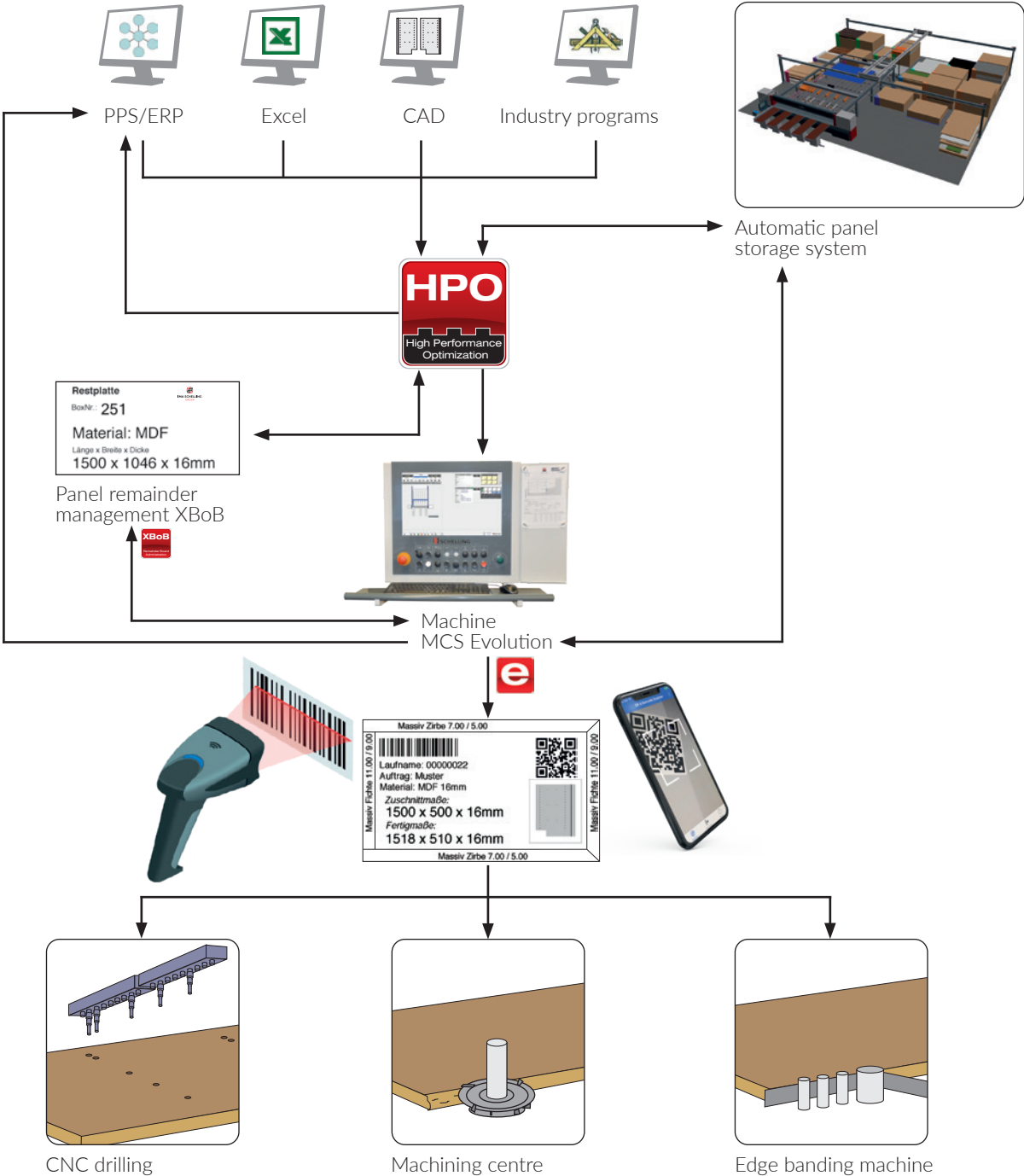
PUSH-OFF CARRIAGE

The separate pusher carriage allows parallel, i.e. simultaneous loading of the saw and dividing of the boards panels.



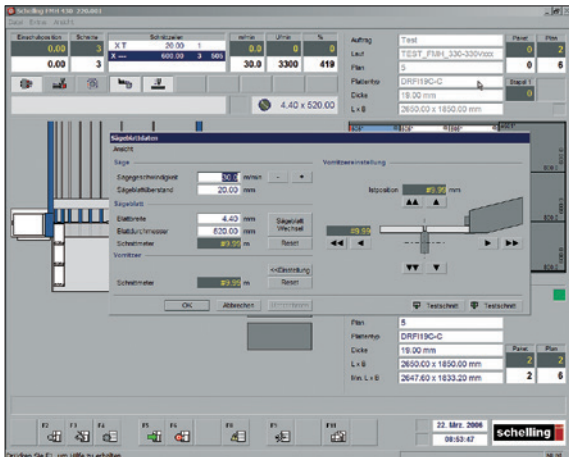
THE RIGHT
SAW FOR EVERY
REQUIREMENT

PRODUCTION SEQUENCE DIAGRAM

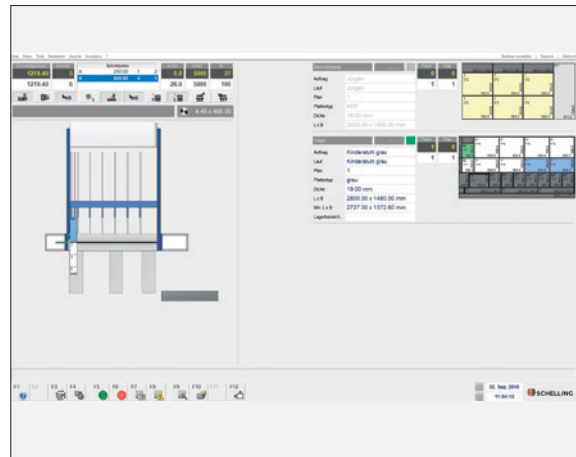


CONTROL DESK: EASE OF OPERATION!

IMA 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

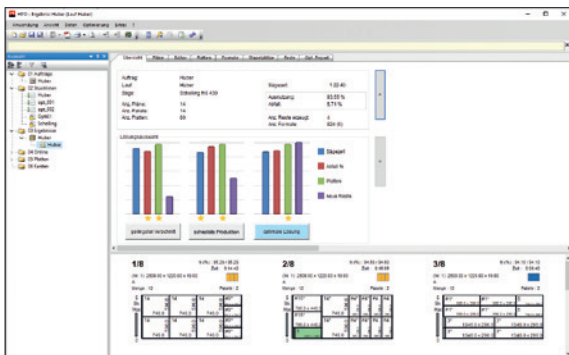


Control: Data of actual production on the screen



With the XBoB remainder management program, panel remainders can be managed in a manual store. Remainders 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. Remainders that accumulate can be re-planned and used without delay in the optimization. An easy and safe system for maximum capacity utilization of material.



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.

TECHNICAL DATA

fh 6

fh 8

SAW BLADE

Diameter	480 mm / 18.90"	520 mm / 20.5"
Projection	145 mm / 5.71"	165 mm / 6.5"
Clamp opening	145 mm / 5.71"	150 mm / 5.91"

POWER

Saw motor	21 / 27 kW	27 / 32 kW
Saw motor	29 / 37 PS	37 / 43 PS

SCORER

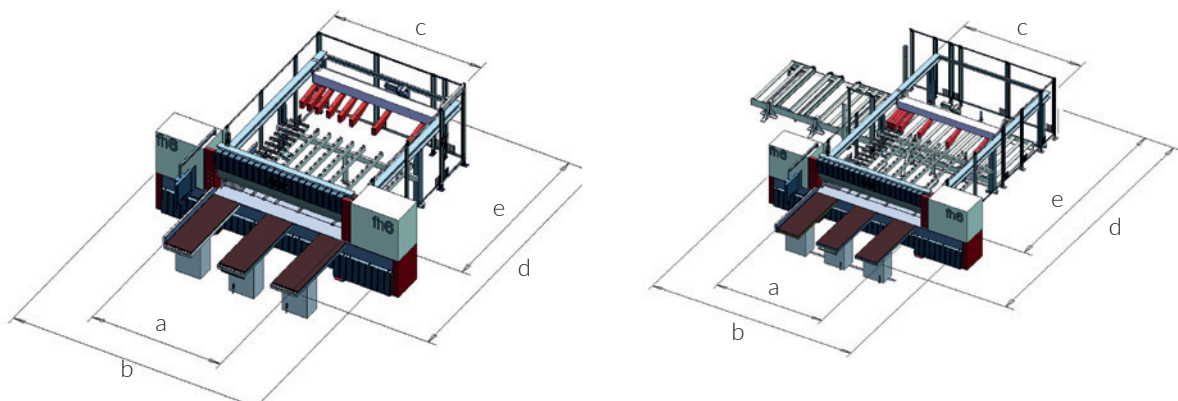
Diameter	200 mm / 7.88"
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FEED RATE

Forward	up to 80 m/min / 262 ft/min
Reverse	80 m/min / 262 ft/min

SAW FEED RATE

Forward	up to 150 m/min / 492 ft/min
Reverse	150 m/min / 492 ft/min



330**430****580****DIMENSION FH 6 / FH 8 MANUAL (DIMENSIONS - MM / INCH)**

a	3330 / 131.00"	4330 / 170.50"	5830 / 229.50"
b	6450 / 254.00"	7450 / 293.25"	8950 / 352.25"
c	3860 / 152.00"	4860 / 191.25"	6360 / 250.50"
d	7100 / 279.50"	8100 / 319.00"	9600 / 378.00"
e	4600 / 181.00"	5600 / 220.50"	7100 / 279.50"

WEIGHT FH 6 / FH 8 MANUAL

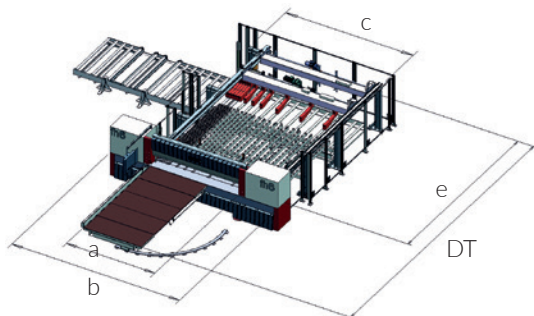
kg / lbs	7.500 kg / 16,500 lbs	10.000 kg / 22,000 lbs	11.000 kg / 24,250 lbs
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330x160**330x220****430x160****430x220****580x220****DIMENSION FH 6 / FH 8 AUTOMATIC (DIMENSIONS - MM / INCH)**

a	3330 / 131.00"	3330 / 131.00"	4330 / 170.50"	4330 / 170.50"	5830 / 229.50"
b	6450 / 254.00"	6450 / 254.00"	7450 / 293.25"	7450 / 293.25"	8950 / 352.25"
c	3830 / 150.75"	3830 / 150.75"	4830 / 190.25"	4830 / 190.25"	6360 / 250.50"
d	7900 / 311.00"	8900 / 350.50"	8900 / 350.50"	9400 / 370.00"	10900 / 429.25"
dDT	9000 / 354.25"	10000 / 393.75"	10000 / 393.75"	11460 / 451.25"	14460 / 569.25"
e	5400 / 212.50"	6400 / 252.00"	6350 / 252.00"	6850 / 269.75"	8350 / 328.75"
f	3600 / 141.75"	3600 / 141.75"	4600 / 181.00"	4600 / 181.00"	6100 / 240.25"

WEIGHT FH 6 / FH 8 AUTOMATIC

kg / lbs	10.500 kg / 23,100 lbs	13.000 kg / 28,700 lbs	15.000 kg / 33,000 lbs
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Übersicht

Suchen

Planung Wartungen

Task	Start	End
Klebauftragserichtung reinigen	Apr 2022	Apr 2022
Schaltkasten Filter reinigen	Apr 2022	Apr 2022
Vakuumpumpe überprüfen	Apr 2022	Apr 2022
Zahnspiel zwischen Zahnstange und Zahn...	Apr 2022	Apr 2022
Kopfgewicht scheren	Apr 2022	Apr 2022
Werkzeugpatrone prüfen (BSP-Steck)	Apr 2022	Apr 2022
Werkzeugpatrone prüfen	Apr 2022	Apr 2022
Fahrerlager im Steuerknüppel ab...	Apr 2022	Apr 2022
Induktivhalter prüfen	Apr 2022	Apr 2022

Status	Wartung
Frist bereits abgelaufen	0
Dringend	0
Todo	13

SERVICE PLATFORM ZIMBA

The ZIMBA service platform is an agreement with which we shape our relationship: 100% transparency, 100% modularity and almost 100% efficiency - from the first to the last production day of your plant.

In addition to the classic ticket and hotline modules, further services are available via ZIMBA that extend the production quality and efficiency as well as the service life of your IMA Schelling machines and systems.



ZIMBA.portal

is the entry into the ZIMBA world and includes:

- Documentation
- Administration
- User management & administration
- Security Updates
- Installations & connection fee
- Ongoing updates and data connection checks



ZIMBA.ticket

offers fast and qualified support through the ticket system and spare parts management. It includes:

- 24h online ticket system
- Telephone accessibility
- E-parts
- Digital machine documentation
- Ticket history
- Remote Assist



ZIMBA.maintenance

is the time-based maintenance manager. Maintenance can be scheduled & documented on time and assigned to staff. This includes:

- Automatic maintenance messages
- Automatically generated knowledge articles for the maintenance messages
- Creation of maintenance lists
- Documentation of the maintenance carried out

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.

www.imaschelling.com

Subject to technical modifications and mendments 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.



IMA SCHELLING
GROUP