



# Flexible through-feed sawing

A new approach to panel sizing



# Becker Through-Feed Saws

## Industrial Batch Size 1 Production



Established in 1991, the Becker Group, based in Langenberg in the North Rhine-Westphalia region, consists of three companies today: Becker Sonder-Maschinenbau, Becker Verpackungstechnologie and Becker Verpackungstechnologie Süd. From stand-alone machines to complete solutions, from the design process to commissioning, from sawing solutions through to packaging machines, we supply you with complete solutions from a single source. Around 100 employees work in 9000 m<sup>2</sup> of office and production space, applying creativity and technical know-how to develop innovative solutions for a variety of industries. We are your partner – from design and project development through manufacturing, assembly, electrical wiring and programming to commissioning. Further, we offer you our full comprehensive after-sales service.





Increasing demand for consistently growing product diversity, available from batch size 1, together with constantly rising demands on the degree of automation, call for solutions that offer maximum flexibility in sawing technology. Consequently, many businesses in the timber-processing industry are currently restructuring their entire production system to a batch size 1 specification. The highest possible level of flexibility must be achieved, simultaneously with a high demand on performance and precision. Wherever conventional stationary sawing technology reaches its limits in terms of performance and flexibility, Becker through-feed saws take over. Here our through-feed saw with vacuum traverse offers new levels of flexibility for batch size 1 production, since the sawing units can be moved into position for the next cut during the return transport of the traverse. The next workpiece thus passes into the saw immediately that the last piece moves out.



# Flexible sawing technology

As individual as your product



	Workpiece transport	As a longitudinal saw	As a cross-cut saw	Cutting length	Cutting width	Workpiece thickness	Finished part width
ESRT	Belt	yes	yes	200 - 6000 mm	80 - 2100 mm	2 - 60 mm	min. 40 mm
MSRT	Belt	yes	yes	200 - 6000 mm	80 - 2100 mm	2 - 60 mm	min. 90 mm
MSWT	Roller	yes	no	1200 - 6000 mm	300 - 2500 mm	4 - 40 mm	min. 95 mm
MSKT	Chain	no	yes	640 - 2800 mm	400 - 2100	4 - 60 mm	min. 320 mm
MSVT	Vacuum traverse	yes	yes	430 - 3100 mm	120 - 2100 mm	8 - 40 mm	min. 130 mm





Whether for the manufacturing of furniture parts, flooring or lightweight boards, for semi-finished door or door frame production – our extensive experience in sawing [combined with continuing developments in our product spectrum] means that the Becker Group consistently offers you the right solution for your particular application. Due to their modular design, our systems can individually be adapted to customer requirements. The basis of this modular system is a basic saw body that can be fitted with any number of sawing units plus up to two chipping units. Transport of the workpieces through the saws is orientated completely to the requirements of the individual workpieces. And apart from our standard machines, the name Becker stands above all for tailored solutions customised to customer requirements.

Surfaces	No. of chippers	No. of saws	Grooves available	Feed speed	parts/min.	Precision	
FPV, MDF, film, varnish, veneer	0 - 1	1	yes	max. 60 m/min.	> 40	+ / - 0.1 mm per m	<b>ESRT</b>
FPV, MDF, film, varnish, veneer	0 - 2	2 - 20	no	max. 60 m/min.	> 250	+ / - 0.1 mm per m	<b>MSRT</b>
FPV, MDF, film, varnish, veneer	0 - 2	1 - 22	no	max. 84 m/min.	> 250	+ / - 0.1 mm per m	<b>MSWT</b>
FPV, MDF, film, varnish, veneer	0 - 2	1 - 10	yes	max. 60 m/min.	> 300	< + / - 0.1 mm per m	<b>MSKT</b>
FPV, MDF, film, varnish, veneer, polish	0 - 2	1 - 22	no	max. 60 m/min.	> 50	+ / - 0.1 mm per m	<b>MSVT</b>

# ESRT

## The simple solution for the centre cut

Through its high precision and versatility, the ESRT single-blade saw with belt transport is suitable for a broad range of applications in the panel and furniture industry. It offers ideal possibilities as a deep-cutting saw for worktops. Also it is ideal as a mid-cutting saw for symmetrical division of double parts after lamination systems or double-sided edging machines. Combined with a reverse transport, the ESRT is the ideal offcut saw – from individual division of residual panels to structural parts for carcass use.



### Your benefits

- High precision
- Gentle Transport on surfaces
- High output thanks to continuous transport
- Can be customised to your application
- Integrated sound insulation
- Simple replacement of saw blades

### Technical specification

Saw units	1
Cutting length	200 - 6000 mm
Cutting width	80 - 2100 mm
Workpiece thickness	2 - 60 mm
Finished part width	min. 40 mm
Feed speed	60 m/min.
Precision	+/- 0.1 mm per m

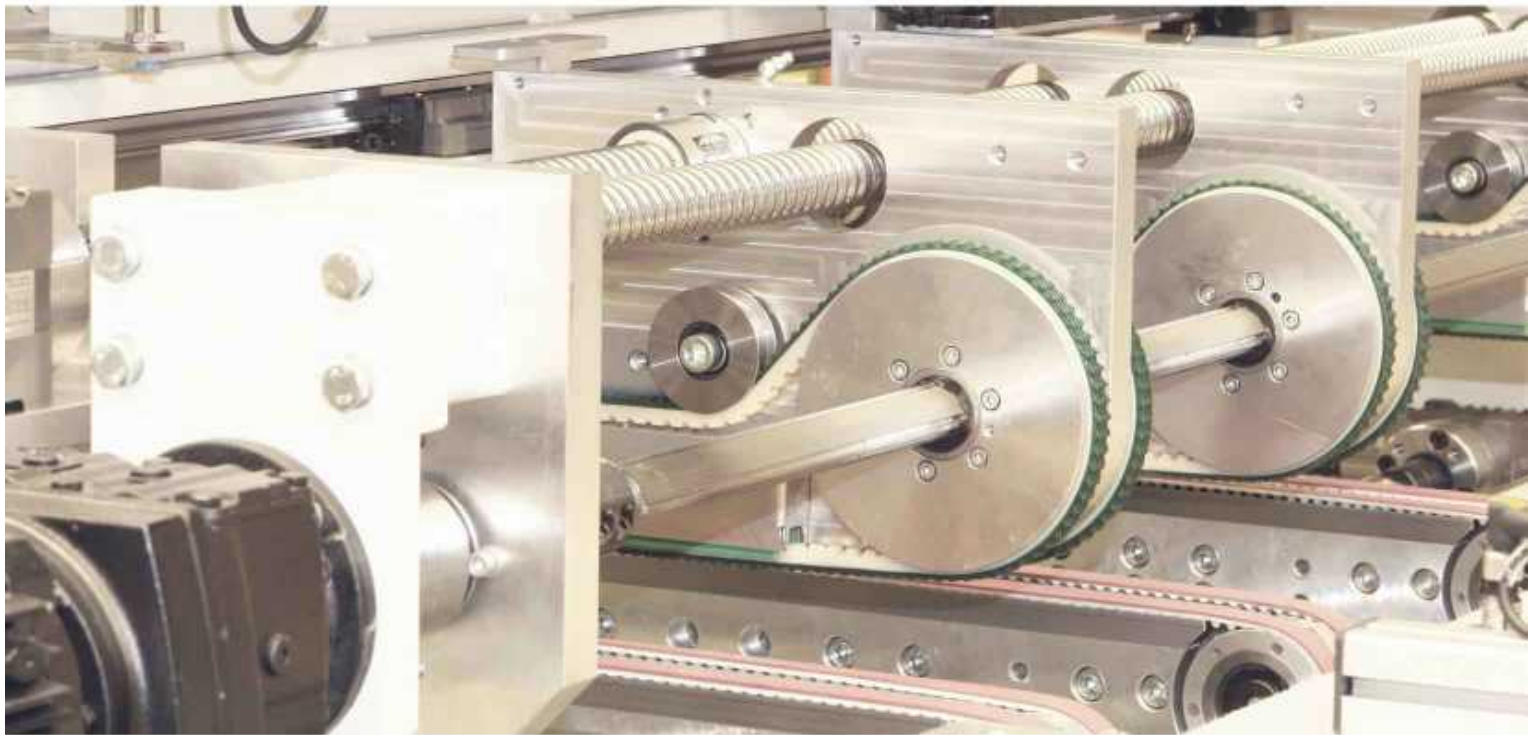




# MSRT

## Flexible dividing for short pieces

When you need to create narrow strips even from short piece lengths, a multiblade saw with belt transport is the ideal choice. The compact construction of the saw unit, together with the innovative transport system makes it possible to obtain cutting widths from 90 mm upwards. Thanks to the gentle transport system and the option of using a scoring unit, it is possible to divide even challenging surfaces, cleanly and accurately.



### Your benefits

- Precise, straight cuts
- Gentle transport on surfaces
- High precision
- High output through to continuous transport
- Individual positioning of saw units
- Workpiece lengths from 200 mm

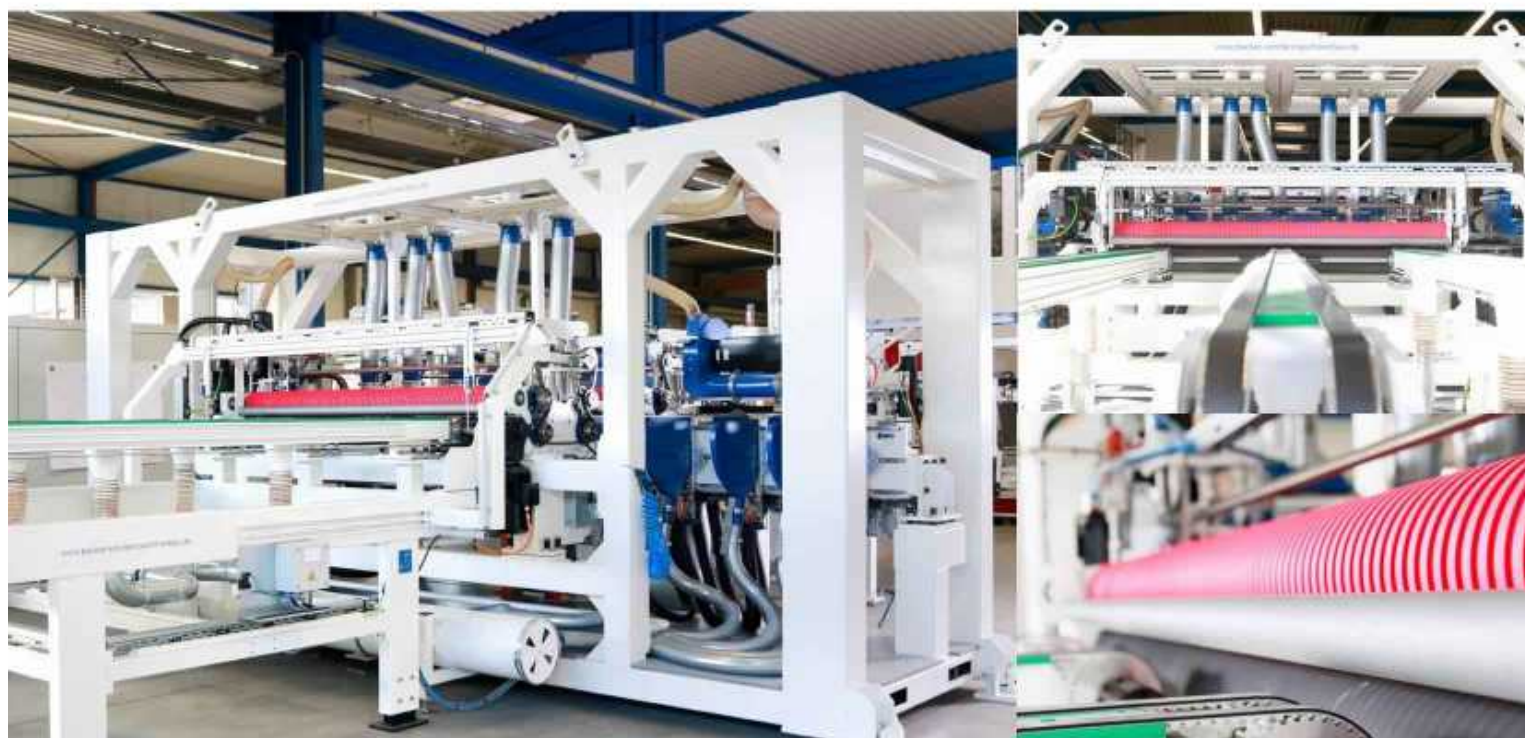
### Technical specification

Number of saw units	2 - 20
Cutting length	200 - 6000 mm
Cutting width	80 - 2100 mm
Workpiece thickness	2 - 60 mm
Finished part width	min. 90 mm
Feed speed	60 m/min.
Precision	+/- 0.1 mm per m

# MSWT

## The high-performance saw for longitudinal cutting

For all applications where it is necessary to make multiple cuts from panels 1200 mm long or more, the Becker multirip saw with transport rollers is in its element. The continuous transport featuring two nip roller pairs at the infeed and outfeed enable this saw to achieve feed speeds of up to 84 m/min. Its flexibility has already earned this saw a place in many laminate floor production facilities, while this model has also proven itself as a door casing saw for doorframe production. Depending on the selected outfeed concept from the saw, this flexible multiblade saw has a throughput of 10-12 panels of length 2800 mm per minute.



### Your benefits

- Robust, low-wear workpiece transport
- High output thanks to continuous transport
- Cutting width can be under 100 mm
- Clean environment thanks to effective extraction
- Good straight cut
- Good accessibility for cleaning and maintenance
- Simple replacement of saw blades

### Technical specification

Number of saw units	1 - 22
Cutting length	1200–6000 mm
Cutting width	300 - 2500 mm
Workpiece thickness	4 - 40 mm
Finished part width	min. 95 mm
Feed speed	84 m/min.
Precision	+/- 0.1 mm per m



# MSKT

## High-precision crosscutting

This multiblade saw with a chain transport is primarily designed as a through-feed saw for cross-cutting panels that have been previously cut lengthways, for example for angled cutting of laminate flooring. Here the chain guarantees accurate guiding of the workpiece and thus a precision straight cut. Equipped with one or more blades, this saw can cut wood composites up to 60 mm thickness and insulating board well over 300 mm in thickness.



### Your benefits

- Precise, straight cut
- Gentle transport on surfaces
- High precision
- High output through continuous transport
- Individual positioning of saw units
- Workpiece lengths 200 mm and above

### Technical specification

Number of saw units	1 - 10
Cutting length	640 - 2800 mm
Cutting width	400 - 2100 mm
Workpiece thickness	4 - 60 mm
Finished part width	min. 320 mm
Feed speed	60 m/min.
Precision	< +/- 0.1 mm per m

# MSVT

## The high-flexibility saw for Batch Size 1

Claims such as “the high-end solution in sawing” and “frontrunner for performance and flexibility” are not exaggerations when it comes to describing this multirip saw with vacuum traverse. Whether it be front parts or carcass, raw panels or offcut panels, whether high-gloss or real wood surface – the MSVT can process a wide range of workpiece types. This machine offers new levels of flexibility for Batch Size 1 production, since the sawing units can be moved into position for the next cut during the return transport of the traverse. The next workpiece thus passes into the saw immediately the last piece has moved out.



### Your benefits

- Precise, straight cut
- Can be customised to your application
- Good accessibility for cleaning and maintenance
- High precision
- Maximum flexibility
- Transport is gentle on surfaces
- Simple exchange of saw blades

### Technical specification

Number of saw units	1 - 22
Cutting length	430 – 3100 mm
Cutting width	120 - 2100 mm
Workpiece thickness	8 - 40 mm
Finished part width	min. 130 mm
Feed speed	60 m/min.
Precision	+/- 0.1 mm per m



# Project examples

## Individual saw concepts

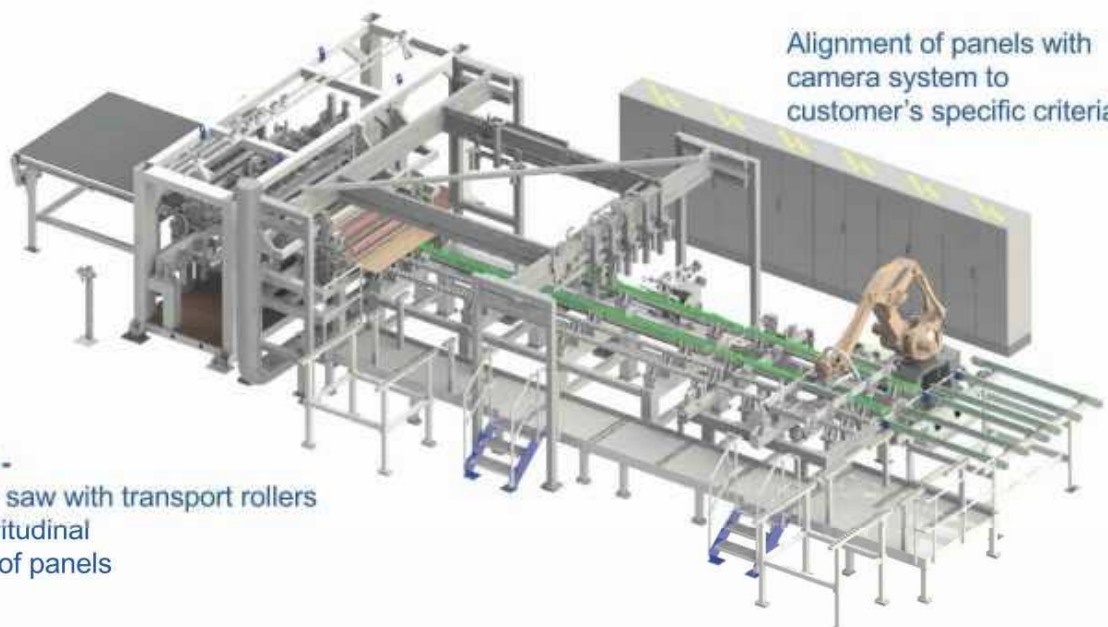
### Example of a sawing line for laminate flooring



**MSWT -**  
Multirip saw with transport rollers  
for longitudinal cutting of panels

**MSKT -**  
Multirip saw with chain transport  
as crosscut saw

### Example of a sawing line for laminate flooring



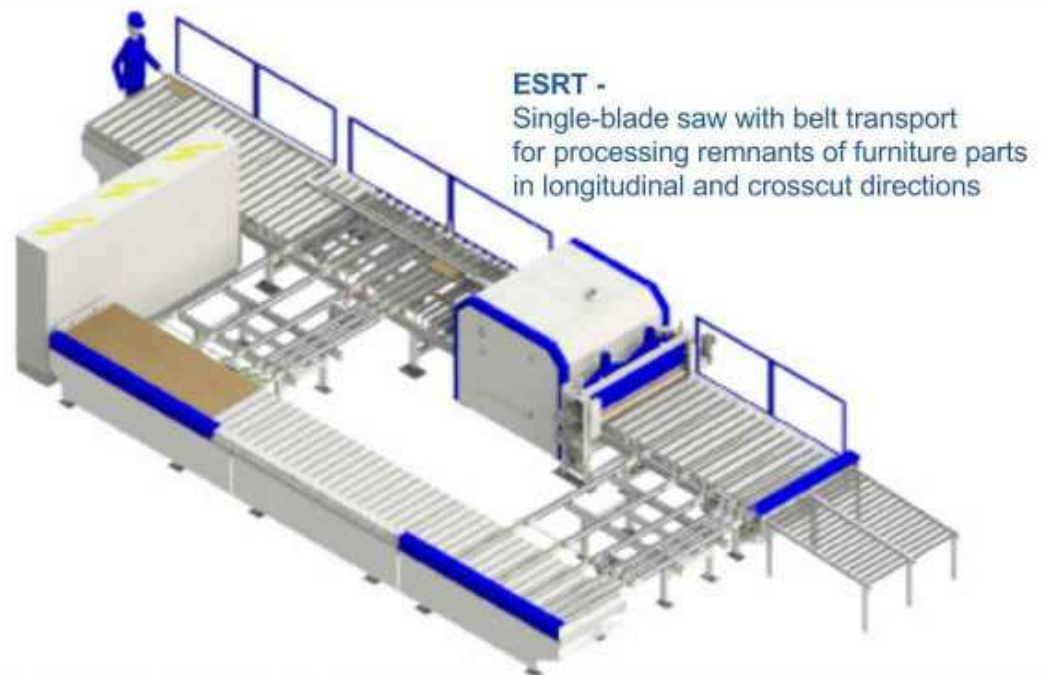
Alignment of panels with  
camera system to  
customer's specific criteria

**MSWT -**  
Multirip saw with transport rollers  
for longitudinal  
cutting of panels

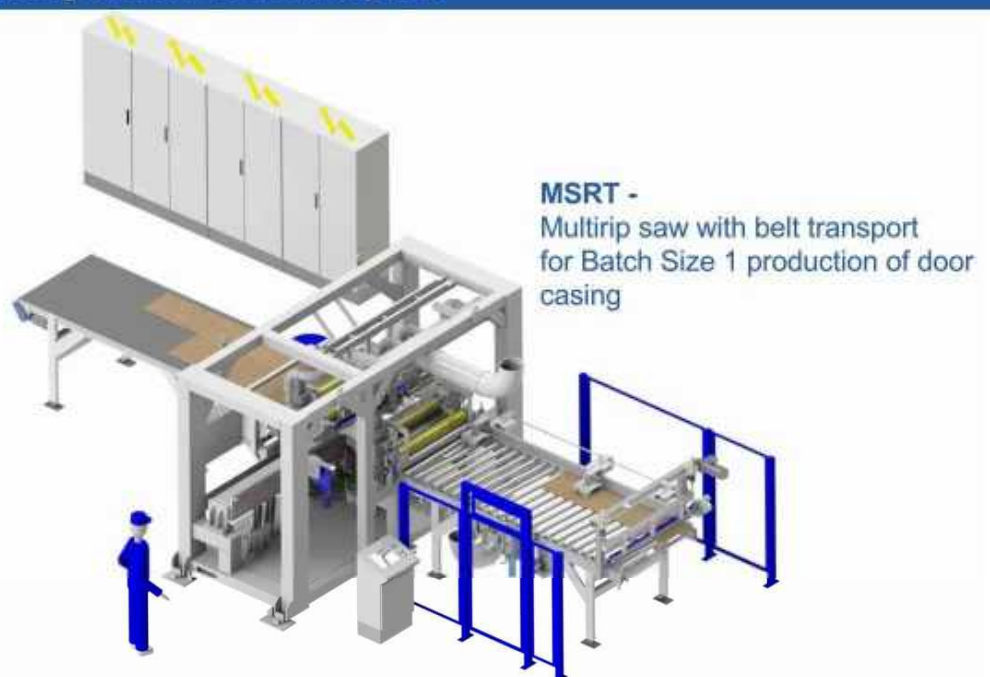
# Project examples

## Individual saw concepts

### Example of a centre-cut saw for furniture parts



### Example of a door casing saw for doorframe parts

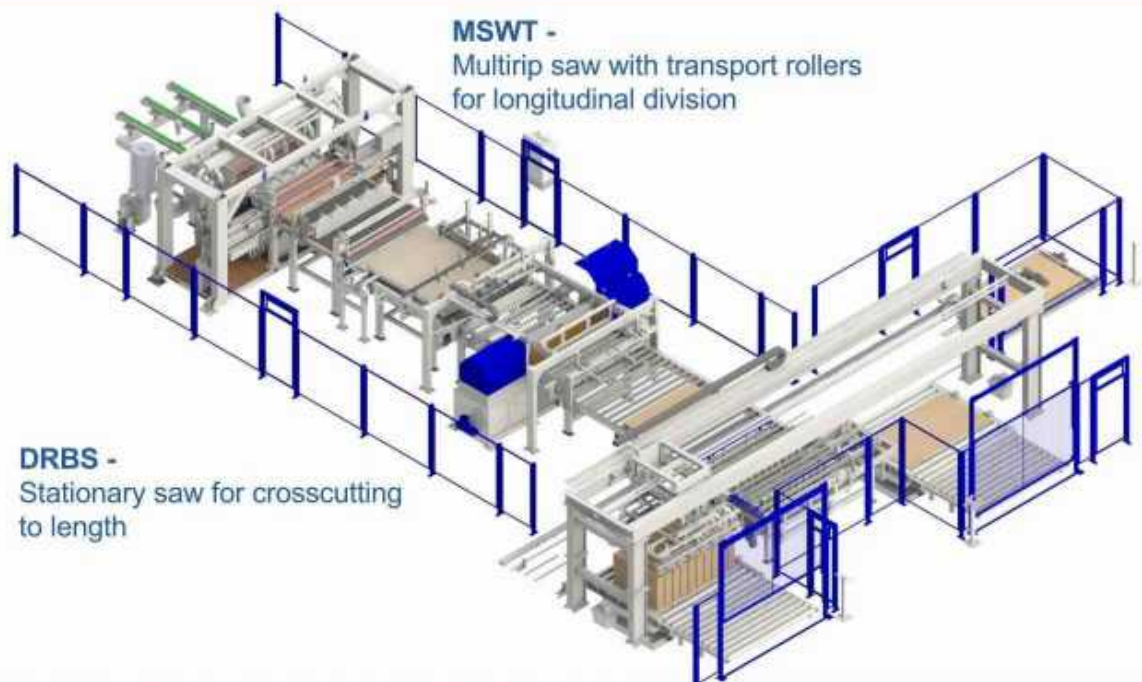




# Project examples

## Individual saw concepts

### Example of a sawing line for laminate flooring



### Example of a centre-cut and grooving saw for furniture parts



# Individual operating concepts

We set standards in saws



Constantly increasing demands for the level of automation of production plant, the networking of many different plant components and the individualisation of particular production stages [all summarised under the term 'Industry 4.0'] call for an appropriate visualisation system. This visualisation system must not only offer the operator simple and clear operation at all times but also the possibility of accessing information or of influencing the functions. Our customers value both our standards in the Becker operating concept, honed over many years, and also the possibility of incorporating their own specific requirements.

From the electrical design through the control cabinet construction and machine wiring to the system programming, with the Becker Group you also receive all electrical aspects of the system from the same source. Our software department is diverse in its operations, with knowledge of both PLC and NC-based control systems from Siemens or Beckhoff, but with us it is the customer who decides what he requires.





# Becker Service

We make sure your machine runs correctly

Our professional service stands for good accessibility, fast availability of personnel and spare parts, skilled immediate aid and efficient remote maintenance of complex machines and systems. A high quality of maintenance and inspection performed by our well-trained service technicians is as much to be expected as straightforward support when it comes to the expansion or relocation of a machine.

Take advantage of our comprehensive range of services. From supply of spare parts, on-site service, telephone hotline through to our online service, we are there for you at all times. We would be pleased to draw up an individual service concept for you.





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