

A white graphic element consisting of a horizontal bar that tapers to a point on the right, positioned to the left of the company name.

Stegherr

SHM Stegherr GmbH

For more than 50 years: The system with added value

SHM STEGHERR

THE BASIS OF OUR WORK:

HALF A CENTURY OF EXPERIENCE

We have been building machines for trade and industry since the 1960s – and we are continuously developing them. For just as long, we have been dealing intensively with our customers' processes. Our knowledge, experience and customer proxim-

ity form the basis of our engineering services and technology. Multiplied by our passion for more efficient solutions, equals the potential that makes our customers become regular customers - and winners in the competition.

OUR SPECIALISTS ARE THERE FOR YOU

DO YOU HAVE ANY QUESTIONS ABOUT OUR PRODUCTS OR ARE YOU SEARCHING FOR POSSIBLE SOLUTIONS IN YOUR PRODUCTION?

WE LISTEN CAREFULLY AND TAKE CARE OF THE SOLUTION.



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OUR TEAM:

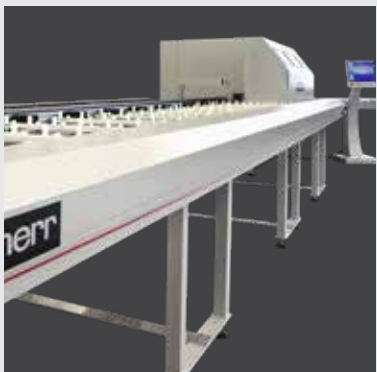
ONE BIG ENGINE

WE WILL DO IT!

Many of our employees have been with the company for a long time. The fluctuation tends towards zero. This testifies to a good working atmosphere - and it promotes know-how. Our people are not only competent - they are also incredibly flexible. They can respond to any special request and do it - regardless of whether it is a technical solution or transport by air freight including customs documents. Our tenor is "We can do it!" Everyone is pulling together. That inspires all of us. That's what defines us.



MORE THAN A MACHINE. A SOLUTION.



MACHINING OF
PROFILED BARS

Profile Machining Center GLS-2
Profile Machining Center GLS
V-Notching Machine KSS



CROSS JOINT MILLING
MACHINES

Cross Joint Milling Machine KSF-2E
Cross Joint Milling Machine KSF-2A
Cross Joint Milling Machine KSF 2/4
Cross Joint Milling Machine KSF-MINI
Cross Joint Milling Machine KSF-R



COPING MACHINES

Coping Center KF
Coping Center KF-1
Coping Machine KF-MINI
NC Coping Machine SKF
Copy Milling and Coping Machine KF-S



MACHINING CENTERS

Machining Center FD-E2
Profile Machining Center GLS-2
Profile Machining Center GLS
Cross Joint Milling Machine KSF-2E



SPECIAL /
CUSTOM MADE MACHINES

Stretch Bar Milling Machine BRF
Double Mitre Saw BGS
Custom Made Machines



DRILLING, GLU INJECTION,
DOWEL DRIVING

Drilling and Doweling Station DS
Machining Centers FD-E2
Coping Center KF
Coping Center KF-1



NOTCHING MACHINES

Notching Machine NF



Visit our website and
learn more about our
latest developments!



Peter Haneder

Technician

MACHINING OF PROFILED BARS

PRECISION AND EFFICIENCY

With our machines for the processing of profiled bars, profiles made of wood, aluminum, MDF and plastic can be cut in one or two planes to precise angles and dimensions and processed to the customer's requirements. With the additional units

for drilling, punching, milling and marking, we cover your complete production cycle. That's profile processing at the highest level.

01

WOOD

ALU

GLASS
FIBRE

PVC

MDF

PROFILE MACHINING CENTER GLS-2

THE ALLROUND-MACHINE FOR ALL JOBS

The GLS-2 is the extremely efficient and top-performing CNC-controlled allround machining center for cutting, punching, drilling, milling and printing of profiled bars – semi- or fully-automated. The Machining Center for Profiled Stock GLS-2 can produce high-quality glazing beads, door profiles, rain protection rails, etc. of wood, aluminum, MDF or PVC efficiently in series production. Flexible expansion levels allow for a perfect automation upgrade to fully automatic operation.

FEATURES

- Adjustment of the cutting angle in two planes
- Tear-free cutting of profiled bars
- Accurate milling patterns
- Drilling, punching and milling aggregates
- Completely in-house developed and programmed machine software
- 3 axis -CNC aggregate for operations from top, rear and front
- Printer (label, laser or inkjet)
- Suited for connection to customer's ERP system
- IoT feasible
- Automatic infeed magazine
- Customizable to over 50 different profiles
- Length optimization
- Profile fault detection
- Automated, customized outfeed of finished profiles



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video on YouTube

Window & door
manufacturers

Facades
manufacturers

Suppliers of
aluminum profiles



CNC UNIT ON THE LEFT
SAW UNIT ON THE RIGHT

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PROFILE MACHINING CENTER GLS



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HIGH PRECISION, UNIVERSAL IN USE, TAILORED
TO CUSTOMER NEEDS

The GLS is the CNC-controlled machining center for the accurate cutting to length and machining of profiled bars – manually, semiautomated or fully automated. With the Profile Machining Center GLS you can produce glazing beads, door profiles, rain protection rails, etc. of wood, aluminum, MDF or PVC very efficiently. Flexible expansion levels allow for a perfect automation upgrade to fully automatic operation.

FEATURES

- Adjustment of the cutting angle in one plane
- Tear-free cutting of profiled bars
- Accurate milling patterns
- Drilling and milling aggregates
- Completely in-house developed and programmed machine software
- Printer (label, laser or inkjet)
- Suited for connection to customer's ERP system

- IoT feasible
- Automatic infeed magazine
- Customizable to over 50 different profiles
- Length optimization
- Profile fault detection
- Automated, customized outfeed of finished profiles

Window & door
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V-NOTCHING MACHINE KSS



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WORLD LEADER IN THE PROCESSING OF GLAZING BARS

Program controlled V-Notching Saw for the accurate and high performance cutting of wood, aluminum, MDF or PVC– with a fix angle V-cut, in ONE single working cycle. The KSS can produce glazing beads, door profiles, rain protection rails, picture frames, etc.

FEATURES

- 45 degree cutting angle
- Tear-free cutting of profiled bars
- Optional drilling aggregates
- Completely in-house developed and programmed machine software
- Printer (label, laser or inkjet)
- Suited for connection to customer's ERP system
- IoT feasible
- Automatic infeed magazine
- Customizable to over 50 different profiles
- Length optimization
- Profile fault detection
- Automated, customized outfeed of finished profiles

Window & door
manufacturers

Picture & stretcher
bar frames

Furniture & kitchen
producers

Facades
manufacturers

Suppliers of
aluminum profiles





CROSS JOINT MILLING MACHINES

FOR EXCELLENT CROSSBAR JOINTS. WORLDWIDE.

For more than 40 years we have been producing and developing cross joint milling machines for our customers. That's how we became the market leader. The secret of our excellent crossbar joints: 100% tear-free milling, four working cycles in one clamping and perfect half lap joints

that fascinate our customers and users. Conclusion: if cross-bar production is a topic for you, talk to us.

Arthur Schröttling

Technician

01

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CROSS JOINT MILLING MACHINE KSF-2E



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CROSS JOINT MILLING TECHNOLOGY FROM THE MARKET LEADER

The KSF-2E is the world's leading CNC-Special Milling Machine for the fully automated manufacture and complete processing of high-quality cross joints and grilles in the series production of glazing bars windows and doors. With up to eight aggregates, the machine produces cross joints from wood, aluminum, MDF or PVC bars in excellent quality and processes all components of a glazing bar grille perfectly.

OPERATIONS

- Manufacture of cross joints in the most diverse executions and sizes
- Coping of the glazing bars ends
- Cutting to length of glazing bars at different angles
- Cutting to length of frame profiles
- Drilling of fastening holes for glazing beads

FEATURES

- Tear-free cutting of profiled bars
- Drilling, coping and milling aggregates
- Completely in-house developed and programmed machine software
- Printer (label, laser or inkjet)
- Suited for connection to customer's ERP system
- IoT feasible
- Automatic infeed magazine
- Customizable to over 50 different profiles
- Length optimization
- Profile fault detection
- Automated, customized outfeed of finished profiles
- Easy adjustment to different profile widths with the automatic height adjustment of the milling aggregates
- Wireless measuring wand

Window & door
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Suppliers of
aluminum profiles



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CROSS JOINT MILLING MACHINE KSF-2A



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CROSS JOINT MILLING MACHINES MADE BY
SHM STEGHERR: GLOBAL LEADERS FOR GOOD
REASON.

The Cross Joint Milling Machine KSF-2A is a special milling machine for the efficient manufacture of cross joints, equipped with an electronic positioning unit and a programmable machine control.

The millings for the cross joint are done fully automatically by two pairs of milling units working in opposite directions. This operating method ensures that even profiled bars are milled absolutely tear-free on the view side of the joint.

Intuitive interface: Very easy programming over a touch screen with graphical user interface. The operation is user-oriented and intuitive with clear icons. The machine operator can store up to 500 individual programs.

FEATURES

- Tear-free cutting of profiled bars
- Completely in-house developed and programmed machine software
- Easy to use
- Low investment

Window & door
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CROSS JOINT MILLING MACHINE

KSF-2/4



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WORLD LEADER IN THE PROCESSING OF GLAZING BARS

The Cross Joint Milling Machine KSF-2/4 is successfully in use worldwide. Our customers appreciate the accuracy, robustness and the vast field of application of this well proven machine. The profiled bars are cut by a top and a bottom cutting unit while at the same time a third unit finishes the flat portion in between. The additional notching unit (the fourth milling unit, mounted on the front side of the machine) ensures that any profiled bar can be milled tear-free on the top (view) side of the joint. The workpiece is clamped automatically by simply pressing a button, then the piece is milled and unclamped. This operating method ensures the absolute accuracy of cross joints milled on our milling machine KSF-2/4.

FEATURES

- Tear-free cutting of profiled bars
- Suited for both SDL and TDL bars
- Easy to use
- Low investment
- Well-proven machine, successfully in use worldwide

Window & door
manufacturers

Furniture & kitchen
producers



CROSS JOINT MILLING MACHINE KSF-MINI



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THE BEST VALUE FOR MONEY

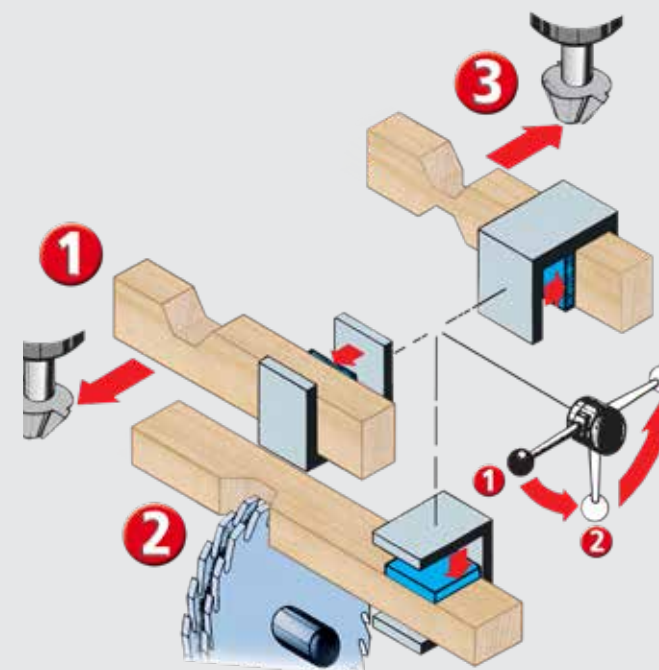
The KSF-mini is the unsophisticated machine for producing small series or for the occasional use. It makes the perfect cross joint in merely three steps. Already profiled bars can also be quickly and accurately milled into cross joints. The absolute accuracy of milling is achieved due to its unique design by which all three cuts are done in one single clamping. Owing to its good value for money the KSF-mini is the ideal machine for companies which are not currently processing cross joints.

GLAZING BARS MADE EASY WITH VARI-BAR FROM STEGHERR

The machine has been improved to give faster setting between bar dimension changes. The new Veri-Bar system now allows for the KSF-mini to be reset in less than a minute if the bar width changes.

Window & door
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Furniture & kitchen
producers



CROSS JOINT MILLING MACHINE KSF-R

ONE MACHINE FOR ANY TYPE OF CROSS JOINT

The KSF-R machine was designed for the quick and efficient production of closed halving joints from round, segment and more-centered arch sashes and straight sashes. A stop system with grid-type index plate ensures the precise and efficient manufacture of joints of the different arches with straight, star-shaped sashes. With a special fence it is possible to produce diagonal joints from 35° to 90°.

Window & door
manufacturers

Furniture & kitchen
producers





COPING MACHINES

COPING MACHINES FOR THE PERFECT COPING,
TEAR-FREE.

Milling with two high-performance milling spindles ensures a perfect, 100% tear-free coping of profiled workpieces on all our coping machines. With additional units, drilling and milling for connecting elements can also be carried out perfectly.

The machines are available with quick tool change systems, the top models even with automatic tool changers and magazines, ensuring full automation and short changeover times.

Dietmar Heckel

Technician

01

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COPING CENTER

KF

FOR THE INSEPARABLE
(CORNER) JOINT

The KF is the universal Machining Center for Cutting to Length, Coping, Drilling and Dowel Driving of longside profiled workpieces – for the coped corner joints. The main characteristic of this machine are the two high-speed milling spindles, rotating in opposite directions. The result is a perfect, tear-free coping.

If you're looking to produce high-quality coped corner joints, fastened with dowels or screws, the KF is THE MACHINE OF CHOICE. In combination with the Machining Center for profiled bars FD-E2 it is possible to do all necessary operations on the long side of the components for windows and doors. All you need are profiled components.



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video on YouTube

FEATURES

- Intuitive user guidance
- Operator friendly machine control with touch screen.
- Bar code technology: Selection of the corresponding milling program by using a wireless bar code scanner.
- Fully automatic drilling and glue injection
- Flexible concept with many extension levels
- Drilling units for any drilling hole
- Screw-fastened corner joints
- Drilling unit with three servo-controlled axes
- Cross cut saw
- Fully automatic tool changer with HSK63 spindles

Window & door
manufacturers

Furniture & kitchen
producers



02

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COPING CENTER

KF-1

ANOTHER STEGHERR INNOVATION IN THE PROCESSING OF SASH BARS

The KF-1 is the allround machine for coping, cutting to length, drilling and dowel driving with pneumatic clamping and fully automatic working cycles on the stationary workpiece. The main characteristic of this machine are the two high-speed milling spindles, rotating in opposite directions. The result is a perfect, tear-free coping.

Comfortable operation: The working process is fully automatic on the fixed workpiece, held in place by pneumatic workpiece clamping.

If equipped with the cross cut saw mounted on a graduated fence, the bars can also be easily cut to length.



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video on YouTube

FEATURES

- Tear-free endscribing
- Drilling unit
- Servo controlled axis
- Dowelling unit
- Tool quick change with HSK spindles
- Cross cut saw

THE HSK 32 QUICK CHANGE SYSTEM FOR DIFFERENT PROFILES

- Tool change in a few seconds
- No readjustment to the new profile geometry
- Accurate centering and positioning on the spindles
- Absolute repeatability upon tool change

Window & door
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Furniture & kitchen
producers



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COPING MACHINE

KF-MINI



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TEAR-FREE COPING OF ALREADY PROFILED STOCK

The compact and efficient work station for the tear-free end scribing of glazing bars. The main characteristic of this machine are the two high-speed milling spindles, rotating in opposite directions. The result is a perfect, tear-free coping.

For cut-to-length production, an optional cross cut saw mounted to a fence can be added. Even already profiled bars can be coped quickly, accurately and tear-free with the KF-mini machine.

FEATURES

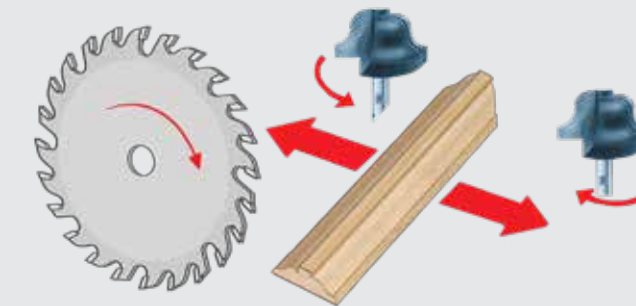
- Tear-free endscribing
- Tool quick change with HSK spindles
- Cross cut saw
- Mitre table

THE HSK 32 QUICK CHANGE SYSTEM FOR DIFFERENT PROFILES

- Tool change in a few seconds
- No readjustment to the new profile geometry
- Accurate centering and positioning on the spindles
- Absolute repeatability upon tool change

Window & door
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NC COPING MACHINE SKF



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EXCELLENT QUALITY WITH COUNTERROTATING MILLING SPINDLES

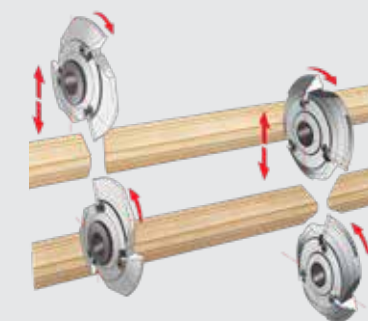
The SKF is the efficient program controlled coping machine for the tear-free end milling of glazing bars in one pass. The machine is equipped with two counter rotating spindles, optionally with four spindles, for different coping profiles. No tool change required: Tear-free coping of profiled stock with two or optional four counter rotating tools in one pass.

FEATURES

- Tear-free coping of profiled bars with up to two different profiles
- Completely in-house developed and programmed machine software
- Printer (label, laser or inkjet)
- Suited for connection to customer's ERP system
- IoT feasible
- Automatic infeed magazine
- Customizable to over 50 different profiles
- Length optimization
- Profile fault detection
- Automated, customized outfeed of finished profiles

Window & door
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producers



05

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COPY MILLING & COPING MACHINE

KF-S



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WOODEN OUTDOOR PRODUCTS MADE EASY

The KF-S is mainly employed in the manufacture of lathes for fences or balconies, various furniture, windows, door components and outdoor wood elements. The workpieces are milled tear-free, both at the ends and on the long sides, no matter whether round or irregular curved shapes are required.

The development of the KF-S machine is based on the well-proven working principle of our coping center for windows and doors type KF: Two milling units turning in opposite directions are shaping the workpiece ends from the left and from the right side. On the KF-S machine semi-circles or other rounded contours are milled tear-free by means of two counter rotating milling units.

With a template mounted on the back side of the machine the KF-S can handle any curved geometrical form. The contours are transferred to the work piece by means of flexibly mounted rollers.

Additional equipment: Its output can be optimized by having it provided with a workpiece feeder, specially adapted to the customer's requirements. The machine can also be equipped with additional work stations, e.g. drilling.

Window & door
manufacturers

Furniture & kitchen
producers



MACHINING CENTERS

WITH THE PERFECT MACHINE FOR SINGLE PIECE
OR SERIES PRODUCTION

The Stegherr drilling and dowel driving machines
for the window and door industry are available
for different company sizes and production forms
– from the compact and program controlled

machine for small and medium-sized businesses to
the CNC machining center for the efficient series
production.



Jürgen Eckhardt

Electrial Engineering



01

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MACHINING CENTER FD-E2



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video on YouTube

4-AXIS. 6 SIDES. 1 CONCEPT FOR ALL JOBS.
PERFECTION ON ALL LEVELS

The FD-E2 is the CNC-controlled 4-axis machining center for drilling, milling, and dowel driving on all six sides of profiled bars in original length or precut single pieces – in one pass.

The FD-E2 is available in two versions: The standard version is designed for machining the four long sides in one pass. The workpiece ends are done separately on the end table. The second, more automated version, enables the processing of all six sides of the workpieces in one pass, also in connection with the program-controlled feeding of the workpieces.

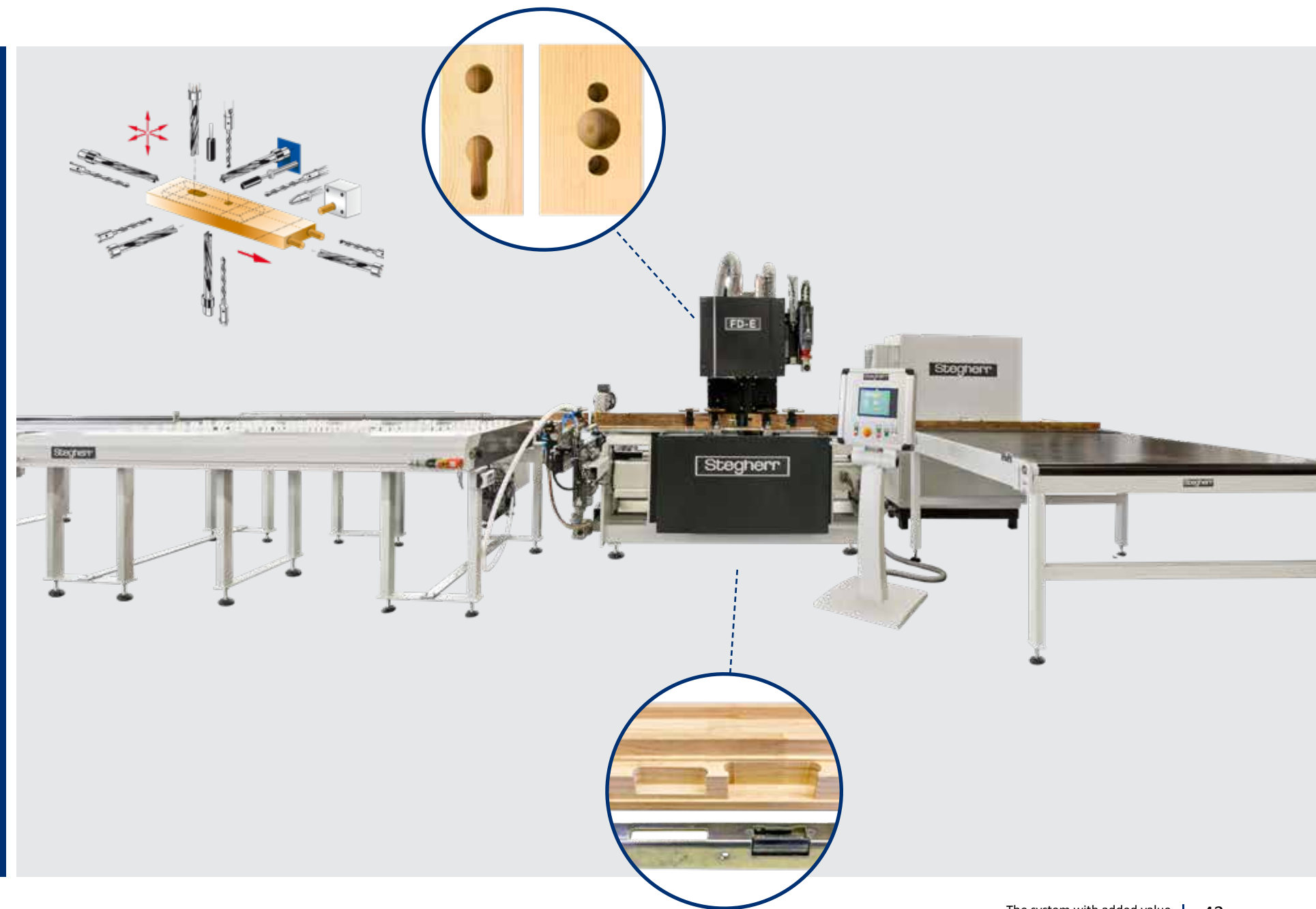
FEATURES

- Special stop system for the corner joint: While one piece is being processed, the operator can already insert or remove another piece
- Highly accurate corner joints:
The workpiece ends are the reference edges for all drilling holes
- All jobs are done by moving aggregates on the stationary workpiece
- New length measuring system ensures perfectly fitting corner connections
- The vertical and horizontal workpiece scanning ensures a highly accurate milling depth

APPLICATION EXAMPLES

- Dowel holes with glue injection, sorting device and dowel driving
- Drilling and milling for hardware
- Drilling for hinges, lock plates and olive holes
- Lock cases and strike plates
- Special drilling or milling jobs

Window and door
manufacturers



02

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PROFILE MACHINING CENTER GLS-2

THE ALLROUND-MACHINE
FOR ALL JOBS

More information on page 10



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PROFILE MACHINING CENTER GLS

HIGH PRECISION, UNIVERSAL IN USE, TAI-
LORED TO CUSTOMER NEEDS

More information on page 12



04

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CROSS JOINT MILLING MACHINE KSF-2E

CROSS JOINT MILLING TECHNOLOGY FROM
THE MARKET LEADER

More information on page 18



CROSS JOINT MILLING MACHINES



SPECIAL / CUSTOM MADE MACHINES

FOR SPECIAL REQUIREMENTS AND ANY WORKING PROCESS

We develop special machines for every complex task in the window and door production or related manufacturing areas. The machines are individually designed, built and equipped according to the wishes and process requirements of our customers.

We also offer high-performance special machines for the production of furniture, outdoor wood elements, picture frames and stretcher bars. Like all Stegherr machines, these machines convince by quality, precision and durability.



Peter Mohr
Designer



01

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STRETCHER BAR MILLING MACHINE BRF

THE IDEAL MACHINE FOR THE
PROFESSIONAL MANUFACTURE
OF STRETCHER BARS

The Special Milling Machine BRF is used for the end processing of canvas stretcher bars. The machine can be manufactured in a fully automatic version with infeed magazine or in a more simple execution for manual feeding.

DOUBLE-END EXECUTION

In one single working cycle the workpiece is clamped and milled on the left and right side (tongue and groove). After milling the piece is released and can be removed for inserting the next workpiece. The machine is equipped with a workpiece recognition sensor which prevents the machine from starting when no workpiece is inserted. The BRF can be easily readjusted to milling different notching depths by using easily replaceable workpiece stops.

If provided with a workpiece feeder the machine can work fully automatically.

The workpiece magazine is suited for practically any type of profile. With an ejector mechanism the finished workpieces are returned to the machine operator.

SINGLE-END EXECUTION

The Stretcher Bar Milling Machine is also available in a Single-End Execution. This machine can mill two profiles (min. length 180 mm) placed on top of each other at the same time.



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video on YouTube

FEATURES

Double End BRF

- Fully automatic processing
- Powerful machine for serial production
- Each one milling unit and notching unit on each side
- PLC controlled
- With infeed magazine 1.5 to 3.0 m profile length
- Wedge and groove are milled on both ends in one single clamping cycle

Single End BRF

- Very flexible manual machine
- For profiles of varying length
- Mills simultaneously two profile ends in one cycle

Picture & stretcher
bar frames



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DOUBLE MITRE SAW

BGS



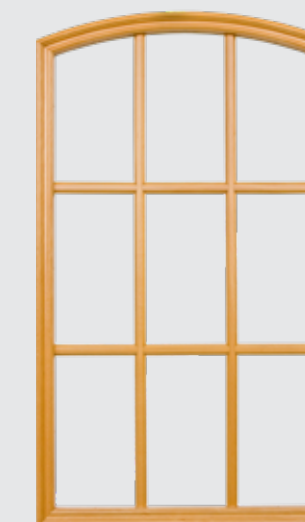
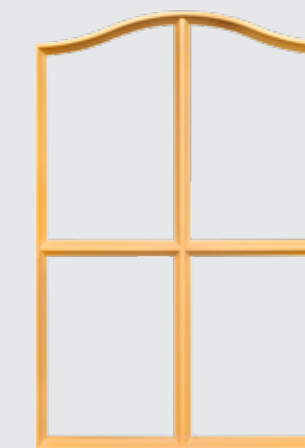
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video on YouTube

THE BGS IS SUITED FOR CUTTING TO LENGTH
CURVED OR STRAIGHT BARS.

The specially designed centering and clamping unit ensures the accurate clamping of curved pieces. Sturdy machine mount, holding two saw units: One fix saw unit on the left side of the machine. One manually displaceable unit on the right side. Both cutting angles are freely adjustable between 0° and 60° over digital readouts. The saw units are operated over a two-hand safety.

Window & door
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Furniture & kitchen
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03

WOOD ALU GLASS FIBRE PVC MDF

CUSTOM MADE MACHINES

EXAMPLE

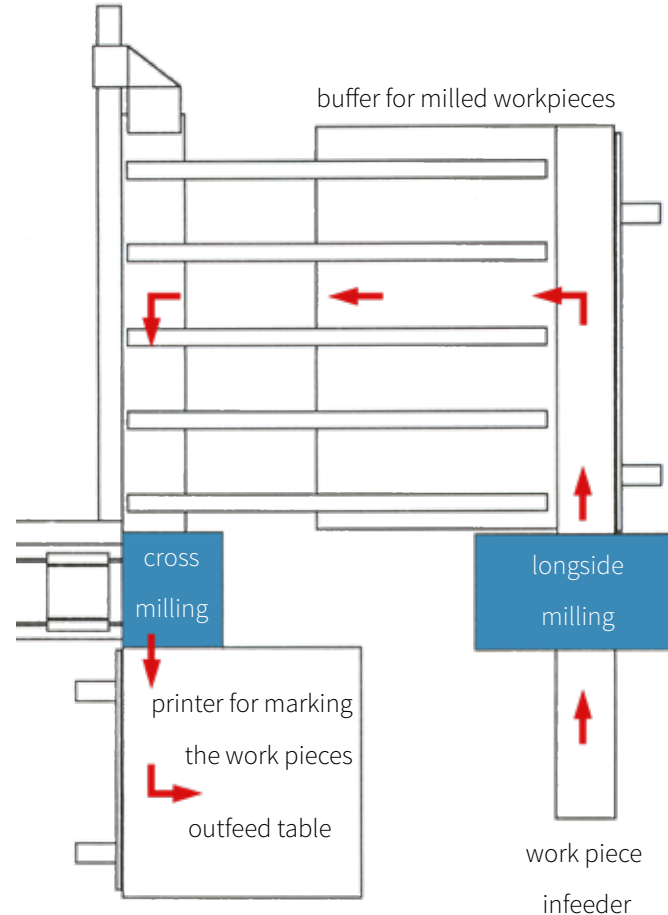
REVEAL LININGS PRODUCTION

LINE FOR BOX SASH WINDOWS

Customized machine for fully automatic longside and cross milling of components 30 mm to 400 mm wide and 6000 mm long (or even longer).



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Window & door manufacturers

Picture & stretcher bar frames

Furniture & kitchen producers

Wooden garden products

Facades manufacturers

Suppliers of aluminum profiles



DRILLING, GLU INJECTION, DOWEL DRIVING

WITH THE PERFECT MACHINE FOR SINGLE PIECE OR SERIES PRODUCTION.

The Stegherr drilling and dowel driving machines for the window and door industry are available for different company sizes and production forms – from the compact and program controlled machine for small and medium-sized

businesses to the CNC machining center for the efficient series production.



Martin Schmid
Production Manager



The system with added value
SHM Stegherr GmbH

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DRILLING AND DOWELLING STATION DS



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THE IDEAL MACHINE FOR EVERY TYPE OF PRODUCTION

The Stegherr Drilling and Dowelling Station DS is employed for endside drilling and dowel insertion in the workpiece ends. The windows and door components are drilled program controlled, glued by means of a high-pressure glue system and the dowels pressed in. The Drilling and Dowelling Station DS has a color touchscreen monitor, for a simple operating both in the manual and in the online mode and for the alternate processing of the workpiece ends without any waste of time. Three servo controlled axes make it possible to drill in any position on the work piece.

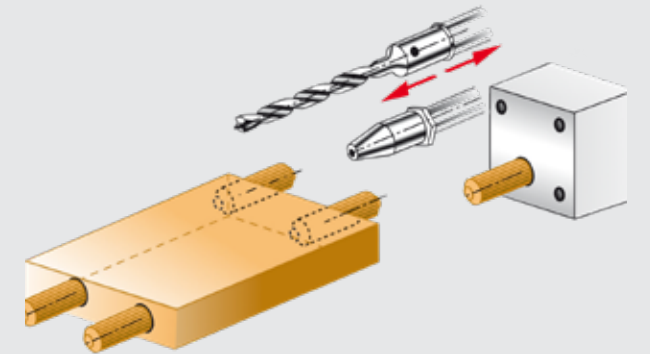
THE FOLLOWING WORKING CYCLES ARE PROGRAM CONTROLLED

- Drilling (various drilling strokes possible)
- Glue injection with a 50 bar glue gun
- Dowel insertion

Window and door
manufacturers

Furniture & kitchen
producers

Wooden garden
products



02

WOOD ALU GLASS FIBRE PVC MDF

MACHINING CENTERS FD-E2

4-AXIS. 6 SIDES. 1 CONCEPT FOR ALL JOBS.
PERFECTION ON ALL LEVELS

More information on page 42



03

WOOD ALU GLASS FIBRE PVC MDF

COPING CENTER KF

FOR THE INSEPARABLE
(CORNER) JOINT

More information on page 30



04

WOOD ALU GLASS FIBRE PVC MDF

COPING CENTER KF-1

ANOTHER STEGHERR INNOVATION
IN THE PROCESSING OF SASH BARS

More information on page 32



NOTCHING MACHINES

FULLY AUTOMATIC. BUILT TO LAST FOREVER.

The notching machines from Stegherr are suitable for large, massive workpieces. They can be cut to length and milled accurately. Processing is program-controlled with automatic feed. Our notching machines impress by their performance, robustness and service life. They can be used very variably and are available with motors in different power categories.

A special clamping system compensates for height differences and thus ensures impeccable dimensional accuracy. Typical areas of application are the window and furniture production as well as the production of outdoor wood products.

Manoj Ambati
Software Developer





NOTCHING MACHINE NF



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video on YouTube

FULLY CUSTOMIZABLE TO YOUR NEEDS

The NF is a special milling machine for the processing of components up to 400 mm overall width. Typical areas of application for our groove milling machines are the manufacture of wooden outdoor products as well as window and furniture manufacturing.

The machine can be equipped with either one milling unit (bottom) or with two milling units (top and bottom). The powerful milling motors contribute to the overall sturdy execution of this machine, suited for manufacturing various types of grilles and frames. The pieces can be cut and milled accurately from above and from below, with program controlled positioning and automatic infeed. Also available with a tiltable milling unit cutting upwards from under the machine table.

Intuitive user guidance: The operation of the Stegherr NF machine over a touch screen with graphical user interface is user-oriented and intuitive. The machine operator can store up to 500 individual programs.

Window & door
manufacturers

Furniture & kitchen
producers

Wooden garden
products

Facades
manufacturers



Stegherr

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