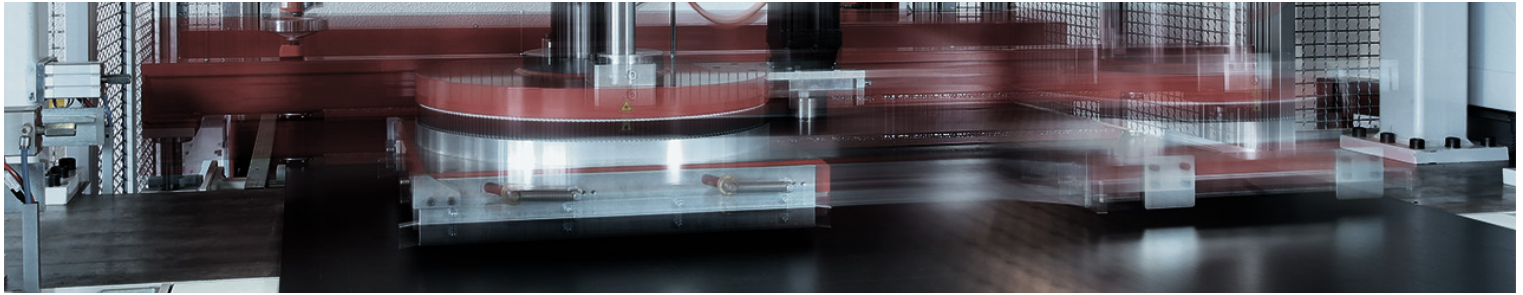


schoen + sandt

schoen + sandt machinery GmbH

part of

icg International
Cutting
Group



Company + Industry solutions + Product solutions + After Sales

schoen + sandt machinery GmbH

*cutting solutions
for your success*

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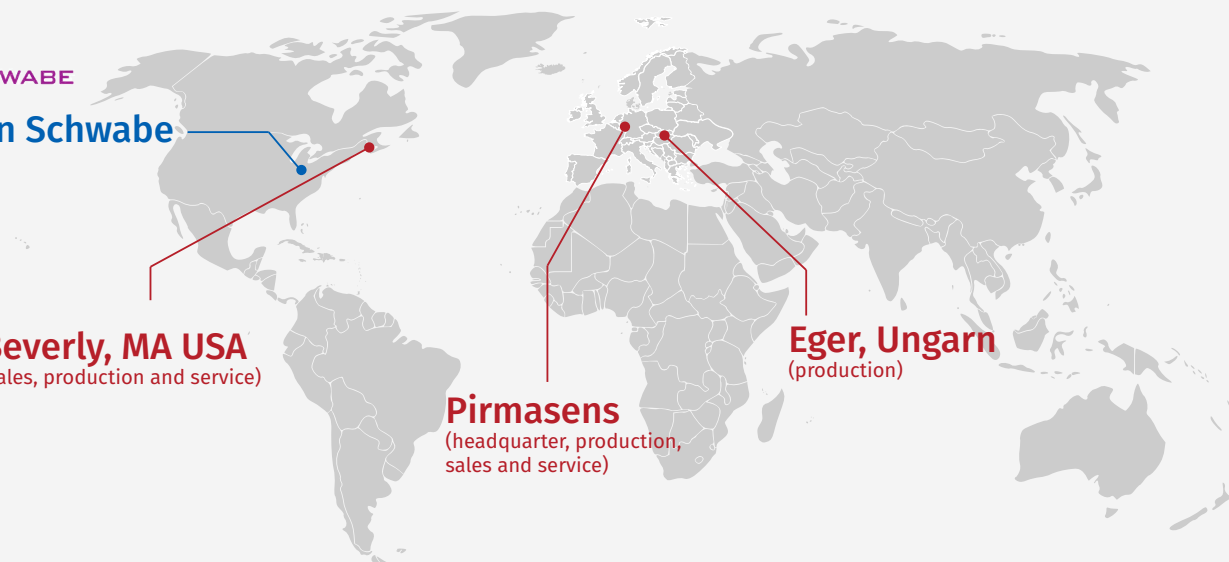


Freeman Schwabe

Beverly, MA USA
(sales, production and service)

Pirmasens
(headquarter, production,
sales and service)

Eger, Ungarn
(production)





Company

About Us



Schoen + Sandt machinery GmbH is a medium-sized mechanical engineering company with over 150 years of tradition and experience in the development and production of innovative machines and systems tailored to the needs of its customers.

With a dedicated, customer- and service-oriented team at three locations worldwide, we develop, design, plan and manufacture a comprehensive portfolio of die cutting machines with and without peripherals, right through to fully automated turn-key systems.

In addition to die cutting and shoemaking machines, Schoen + Sandt develops and manufactures embossing machines with complete equipment for the installation of complete screening workshops for security paper production.

The comprehensive product range is complemented by our After Sales Service, which ensures trouble-free operation of the machines and systems. In addition, we offer various upgrades that allow the opportunity to modernize existing equipment.

International Cutting Group

Vision + Strategy

The ICG International Cutting Group is a diversified supplier of cutting machines for non-metallic applications. The group operates worldwide with branches in Germany, USA and Hungary.

Products

The product portfolio includes machines and fully automated equipment for die cutting of non-metallic materials.

Development of the group

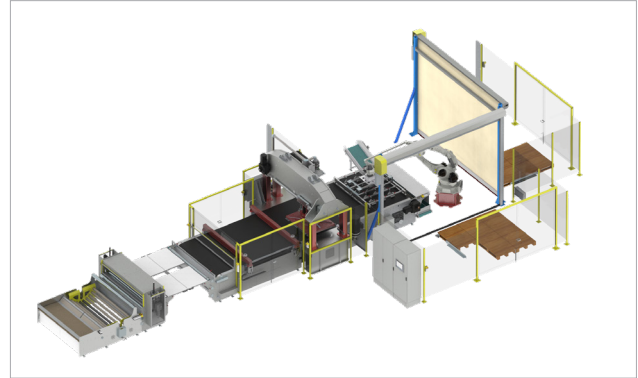
07/2018 Freeman Schwabe Machinery (USA)

12/2017 schoen + sandt machinery
(Germany, Hungary, USA)

Customer benefits

- Global distribution network for high-tech die cutting solutions
- Worldwide service availability through local locations

Automotive



Application example

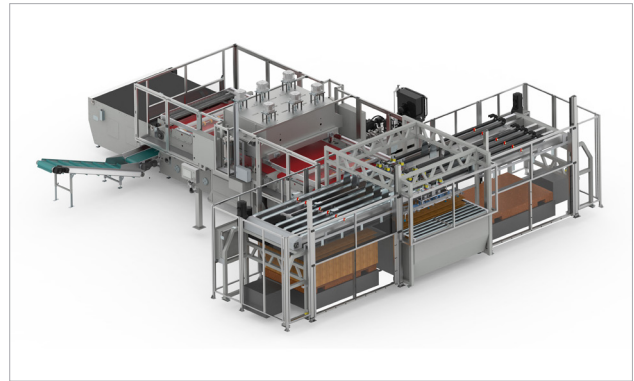
Production plant for the production of Automobile floor mats with robotic system for automatic destacking.

Traveling Head Die Cutting Machine with clamping beam feeder operated feed line system and automatic removal system (robot) for stacking on pallets.

The plant consists of:

- Traveling Head Die Cutting Machine with 1000 KN cutting force and cutting area of 1350 x 1100 mm (presser plate)
- Lateral tool changer
- Die Cutting machine with clamping bar feed
- Powered roller tray with additional roller buffer
- Counter bending device with pre-trigger and stock loop control
- Automatic robot removal system with needle grippers
- 2 pallet spaces with automatic roll-up doors
- Waste removal system

Flooring



Application example

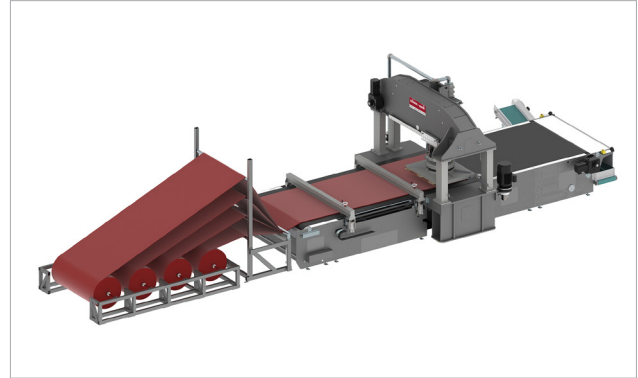
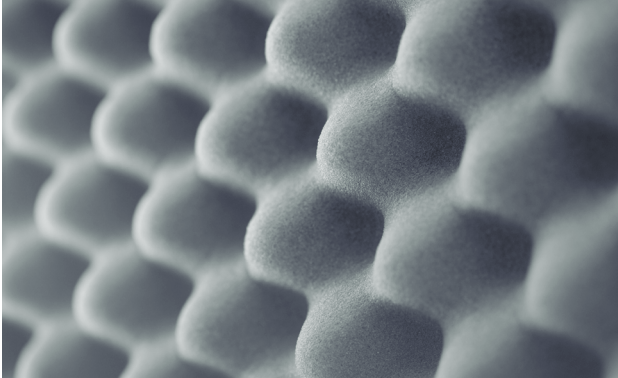
Production line for the production of LVT (Luxury Vinyl Tiles) floor tiles of various sizes and shapes

Fully automatic, servo-hydraulic Die Cutting System with PCB feeder for various board sizes designed for fast pallet change in automatic mode without interrupting production.

The plant consists of:

- 2 automatic lifting gates for pallet lifting tables
- „two in one“ tandem double feeder
- Roller conveyor with automatic centering device
- Die Cutting Machine with special welded plastic belt for quick change
- Servo Hydraulically driven Cross Beam Die Cutting Machine with energy efficient and noise-reduced drive
- Waste removal with waste disposal belts
- Transfer device for further processing of the „LVT planks“

Foam



Application example

Production plant for the production of textile laminated foam for car interior trim

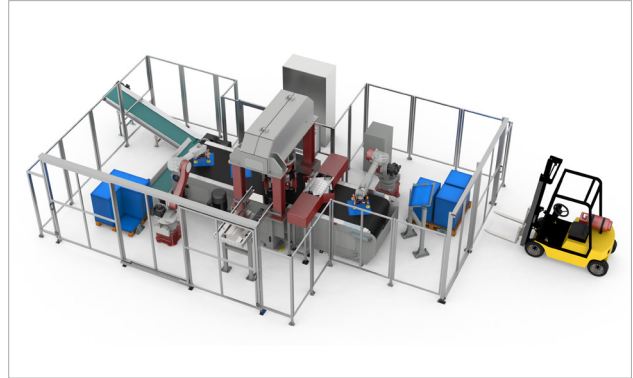
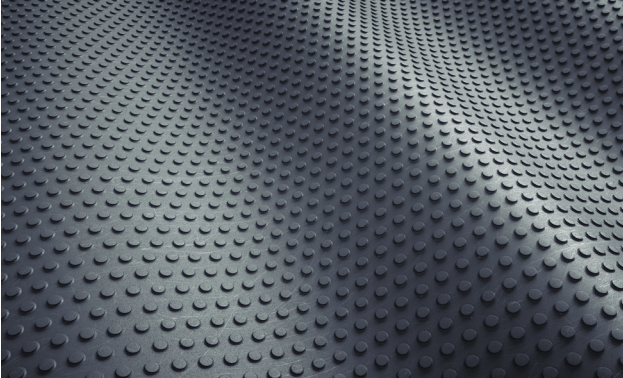
Traveling Head Die Cutting machine with servo hydraulics and clamping beam feeder for cutting up to 4 layers of material from 4 integrated roller blocks.

With integrated production monitoring system via chip card system.

The plant consists of:

- Traveling Head Cutting machine with 750 KN cutting force
- Pressure plate of 1150 x 1150 mm with rotary drive
- motor adjustment
- Die Cutting machine with clamping beam feeder and motorized roller brush
- 4-compartment roller block
- CAD - nesting system
- Smart card system

Rubber



Application example

Production plant for the production of Rubber tiles from used tires, with camera system and robots for loading and unloading of material.

Fully automatic cross beam die cutting machine for precise cutting of vulcanized rubber tufted tiles with robots for turning parts and loading and unloading of the machine. Camera system for positioning of the cutting tool to the nub pattern with simultaneous missing part detection.

The plant consists of:

- Cross Beam Die Cutting machine with 1000 KN cutting force with pressure plate of 1600 x 1050 mm
- Automatic board turning and laying device with robot
- Accurate measurement by means of camera system
- Precise cutting
- Loading system with robot
- Waste delivery system with conveyor belts

Upstroke

5300 A

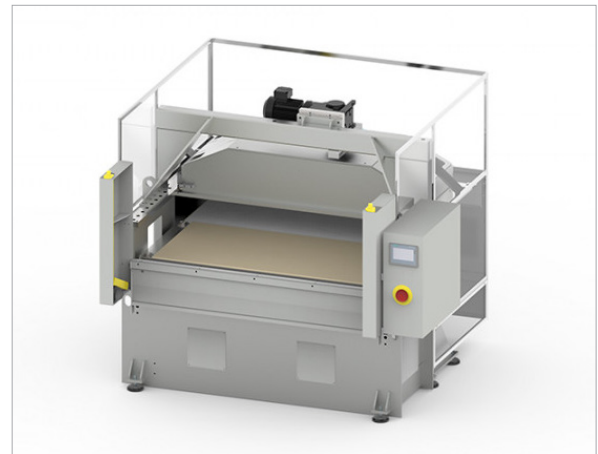
Table size	Cutting force
1200 mm x 800 mm	630 kN
1600 mm x 800 mm	800 kN
1700 mm x 1050 mm	1000 kN

Accessories optional

- Low point stops
- Die holder stationary or adjustable
- Die clamp manual or pneumatic
- Extended Daylight
- Automatic cutting board oscillation
- Workplace light

Feed devices optional

Roller feed with operation via foot switch
or position-controlled with servo drive



Upstroke

5230

Table size	Cutting force
500 mm x 400 mm	1250 kN od. 1600 kN
800 mm x 650 mm	1250 kN od. 1600 kN
1000 mm x 700 mm	1250 kN od. 1600 kN

Accessories optional

- Manual or automatic sliding table
- stationary die holder
- Plastic stamping plate or steel stamping plate
- Overrun supports manually / automatically adjustable
- Embossing time setting with adjustable embossing speed
- Hot plate, heated tools

Advantages

- Extremely sturdy machine-stand construction in panel construction with high static and dynamic load capacity



- Fast stroke speeds
- High cutting forces
- Suitable for heated cutting tools

Beam cutting machine

6005 BA

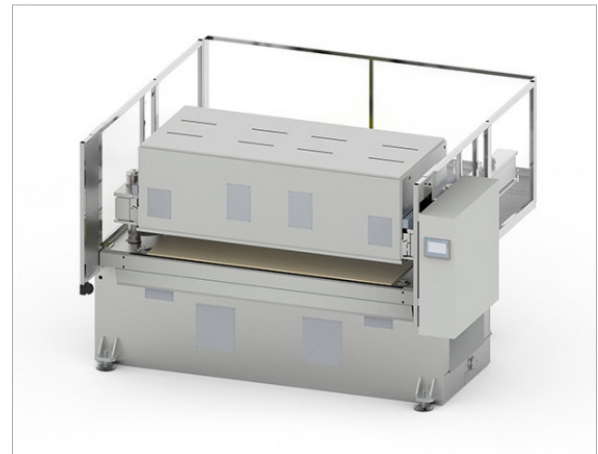
Table size	Cutting force
1600 mm x 850 mm	800 kN
2060 mm x 1050 mm	1250 kN
2060 mm x 1250 mm	1250 kN
2200 mm x 1100 mm	1000 kN

Accessories optional

- Die holder stationary or adjustable
- Die clamp stationary or adjustable
- Automatic cutting board oscillation
- Steel die mounting plate
- Workplace light

Feed devices optional

Roller feed with operation via foot switch
or position-controlled with servo drive



Traveling Head

2070

Pressure plate	550 mm x 550 mm
	1500 mm x 1400 mm
Cutting force	300 kN, 500 kN, 750 kN und 1000 kN

Standard equipment

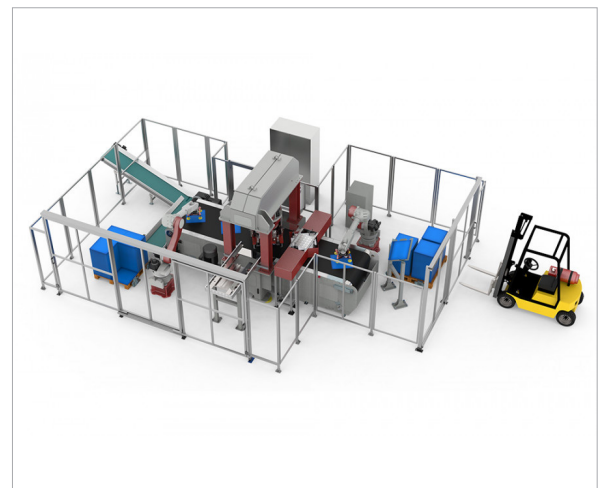
- Die holder (incl.)
- Open side panel (incl.)

Accessories optional

- Automatic low point stops
- Automatic cutting board shifting device

Feed devices optional

- Automatic sliding table
- Roll feeder
- Clamping bar feed
- Cutting belt system
- Cardboard or fabric cutting belt system
- Vacuum Belt Feed



Crosshead

2062

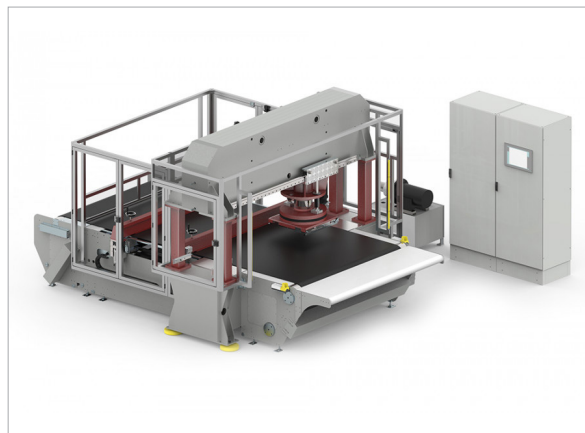
Table size	2750 mm x 750 mm
Cutting plate	650 mm x 650 mm
Cutting force	300kN, 500 kN

Standard equipment

- cutting die holder
- Automatic cutting die height adjustment
- Mechanical low point stops
- S7 control with touch panel

Accessories optional

- Rotary drive
- Cutting board shifting device



Crosshead

2071

Table width [mm]	2400, 2600, 2800, 3200
Table depth [mm]	700, 900, 1100, 3200
Cutting plate	550 mm x 550 mm 1200 mm x 1000 mm
Cutting force [kN]	300, 500, 750, 1000

Standard equipment

- Cutting die holder

Accessories optional

- Motorized low point stops
- Linear motion drive
- Pneumatic product ejector
- Automatic cutting board shifting device
- Special accessories for various applications



Feed devices optional

- Automatic sliding table
- Roll feeder
- Clamping beam feeder
- Cutting belt system
- Cardboard cutting belt system
- Suction belt conveyor

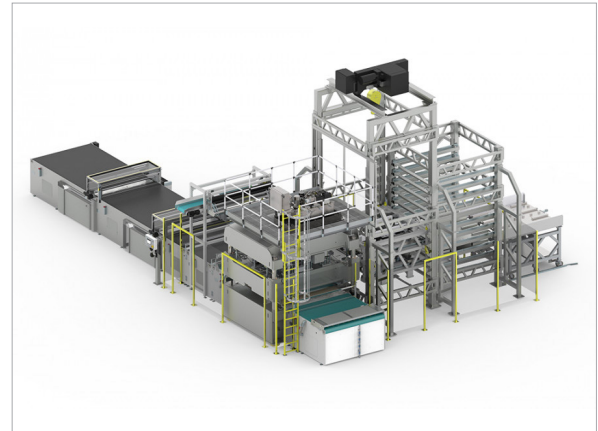
Downstroke

6140

Table width	1800 mm - 3300 mm
Table depth	1000 mm - 2100 mm
Cutting force	1500 kN - 4000 kN

Advantages

- Built with 4-column construction with lowering beams
- The lowering beam is guided with maintenance-free sliding elements made of copper alloys with solid lubricant
- The hydraulic cylinders act directly on the lowering beam, ensuring a uniform distribution of force
- 4 mechanical low point stops with automatic central adjustment limits the lowest level of the beam during the cutting process and thus enables the accurate setup of the die in 0.1 mm increments



Large Area

5050

Table width [mm]	1800, 2200, 2500
Table depth [mm]	1050, 1250, 1600, 2100
Cutting force [kN]	1250, 1600, 2000, 2400

Advantages

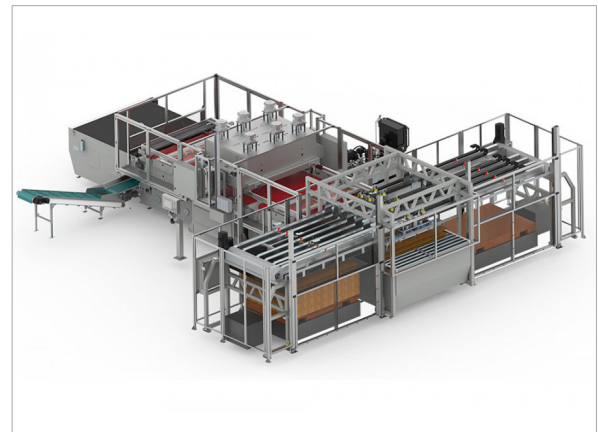
Various table dimensions are available

Accessories optional

- Die holder stationary or adjustable
- Die clamping device, manual or pneumatic
- Increased daylight
- Automatic cutting plate displacement
- changing rails / Die changing rails
- Steel cutting plate

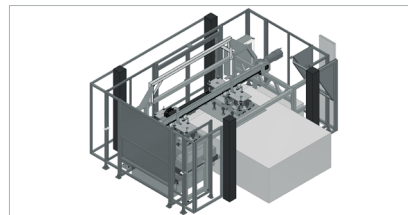
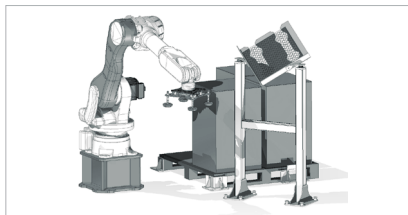
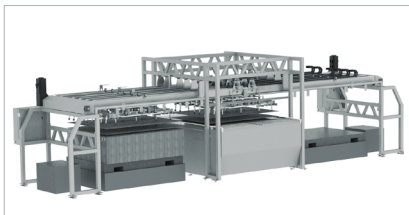
Feed devices optional

- Automatic sliding table
- Roll feeder
- Clamping beam feeder
- Cutting belt system
- Cardboard cutting belt system
- Suction belt conveyor

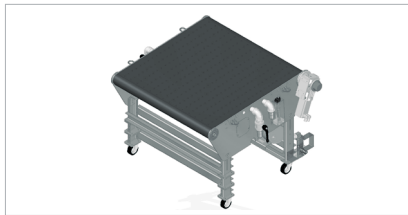
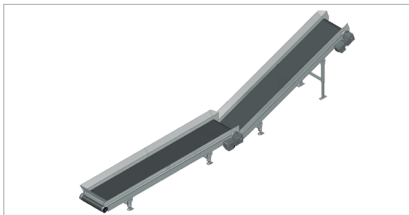


Periphery

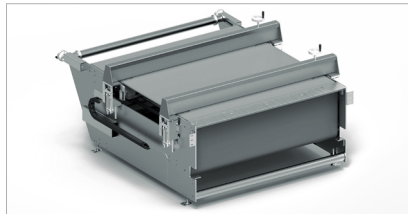
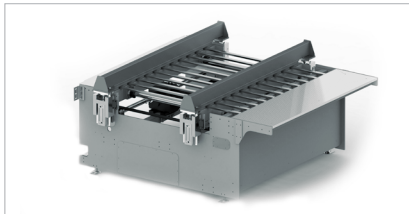
Attachment and removal device



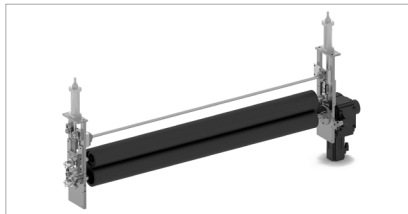
Material handling



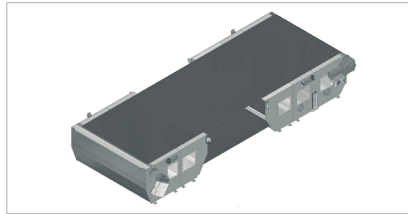
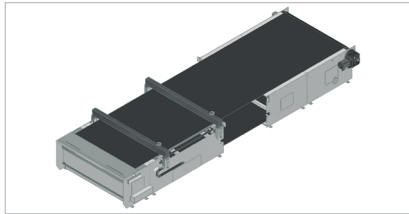
Clamping beam feeders



Roll feeders



Cutting belt systems

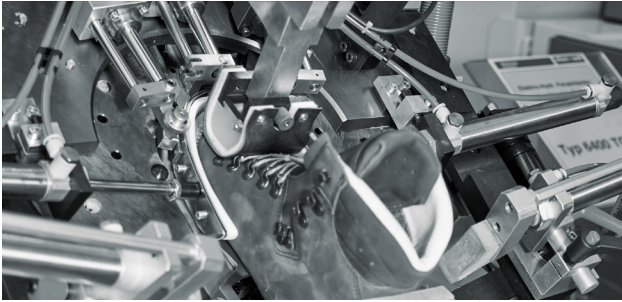


Sliding table



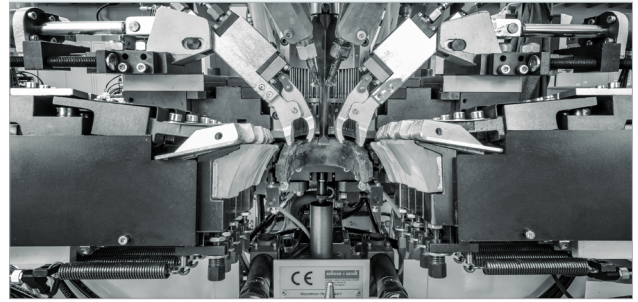
Additional Periphery
on request!

Footwear machines



We also have decades of experience in development and production of our lasting machines, not at least due to our location in the former heartland of the German shoe industry and the close ties we have developed throughout the industry over the years.

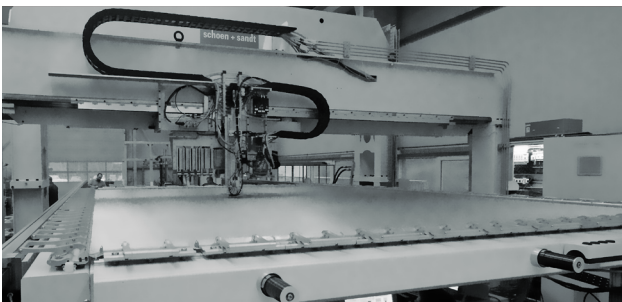
Our machines enjoy an excellent international reputation since many years. They are easy to



operate, flexible, i.e. capable of producing a wide range of styles, easy to maintain, ergonomically designed, durable and highly efficient.

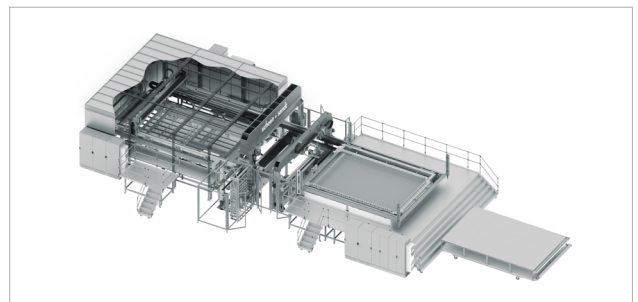
We manufacture forepart lasting machines, heel seat lasting machines and accessory for shoe factories.

Equipment for mold workshop



Machines and installations for the production of screen covers for use in security paper making for the production of watermark paper.

We offer you the complete equipment for the screening workshop from a single source. At the heart of this is a patented embossing unit with a turret, under which a clamping frame driven by linear direct drives moves with the highest positioning accuracy.



In conjunction with the likewise patented E-type welding robot and a laser cutting machine, this is the highest-tech equipment available for the production of screens used in security paper-making machines for the production of watermark paper.

Hotline



Our service team will help you quickly and competently.

- Troubleshoot by phone
- Common diagnosis and troubleshooting
- Rapid introduction of necessary measures:
 - Spare parts order
 - Service technicians use



Remote-Service

Does your system have a VPN connection?
This minimizes unplanned downtime!

- Fast support through direct access to your system
- Targeted fault diagnosis
- Control-side errors / operating errors can be corrected directly
- by pre-diagnosis targeted service technician use

Maintenance



Whether regular maintenance, inspection or accident prevention. Take advantage of our extensive offer to keep your machine or plant in a top condition.

- Annual safety and accident prevention inspections
- Inspection and maintenance of mechanic, hydraulic and pneumatic components



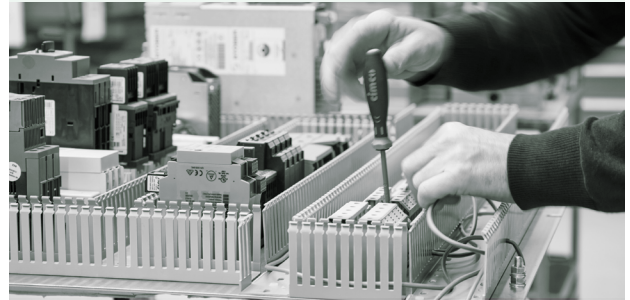
Preventive maintenance

Benefit from the execution of a maintenance contract with our annual maintenance concept and discounted travel packages.

For an annual package, we take care of everything related to the maintenance of your schoen + sandt system.

After Sales

Upgrades



Bring your schoen + sandt system up to the state of the art. We offer individual upgrades for controls, hydraulics, safety and automation.

- Retrofitting to the state of the art
- Control upgrades / replacement of discontinued components
- Performance / output increases
- Increased safety / protection of your employees

After Sales

Spare parts



Our After Sales Service will provide you with original manufacturers spare parts - or their successors - for hydraulics, pneumatics, electrical and mechanical.

- Spare parts also available for older machines
- Common spare parts from stock
- Quick identification
- Short reaction times

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