MANUAL & MOTORIZED SHEARS
MACHINES FOR THE ENTIRE RANGE OF TOP-QUALITY SHEET METAL WORK
WE WORK HARD TO MAKE SURE YOU CAN MAKE THE BEST CUT

PIONEERING SPIRIT AND INNOVATION.
BORN OF PASSION FOR THE SHEET METAL TRADE.

WE PLACE A HIGH PRIORITY ON THE SUCCESS OF OUR CUSTOMERS

At Schechtl, we aim to find ideas and solutions that make life easier for those who work in the sheet metal trade. And it’s been this way since the very beginning. Since then, this aspiration has given rise to numerous innovations: from the invention of bending technology to mobile data transfer for finished edge profiles.

Founded in 1910 as a simple smithing outfit and guided by loads of pioneering spirit, Schechtl now ranks among the world’s leading manufacturers of bending machines and shears for the processing of thin sheet metal.

LOYALTY COUNTS

We take our seal of quality (“Made in Germany”) very seriously. We produce and assemble all of our machine parts exclusively in Germany. Our commitment to our location is also particularly evident in our longstanding close ties to partners and suppliers in the region.

Schechtl is a family business, owner-operated for over 100 years and now in its fourth generation. A combination of healthy growth and strong economic stability means that our corporate development strategy is geared towards the long haul.

THANK YOU FOR YOUR CONFIDENCE

Very high quality, incredible durability, and outstanding reliability – that’s what generations of clients in Germany and abroad have said about our products. While we’re extremely honored by these words, they also motivate us to keep our standard of quality at a high level.

That’s why we not only invest in technology, but also in creating an atmosphere of positivity and trust as well as in the knowledge of our employees. Because ultimately, the thing that truly helps a business get ahead is the commitment and competence of the people who determine its path. Satisfied employees are more committed, a fact that our customers can observe daily.

Maria Schechtl
Managing Director

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THE PERFECT CUT
MANUAL. EASY. PRECISE.

THE HIGHEST QUALITY SHEET METAL CUTTING.
WITH THE HT Manual Shears, you will make
the perfect cut for any project.

ECONOMIC. DURABLE. EXTREMELY CLEVER.
• Quality of the basic equipment sets high standards
• Precise cutting quality at the level of Schechtl motorized shears
• Simple – easy to use and reliable for the last 40 years

THE HT OFFERS EXTENSIVE ACCESSORIES FOR MANUAL SHEARS
Whether in a metalworking shop, long-term job sites or for repair work, sheet metal workers, roofers and carpenters will find the right model for their requirements with the HT series shears.
The line of profiles starts with the HT 100 with a 1m working length and ranges to the HT 310 with a 3.10m working length and a 1mm steel plate cutting performance.

BENEFITS

AREAS OF APPLICATION
• Cutting of thin sheet metal for all sheet metal work on roofs and exteriors
• Can be used anywhere power supply is not possible or necessary
• Compact dimensions, ideal for sites with limited space

EXTREME EASY OPERATION
• Efficient and cost-saving one-man operation
• Triggering of cutting movement without expenditure of force with only one operating lever on the left or right side
• Ergonomic working height eliminates back strain
• The extending table makes it easier to guide large-sized metal plates onto the table
• The mechanical tilting table gently deposits the cutting material to the front (optionally available)
• Collect and conveniently transport cutting material on the optional blank wagon
• Quick, easy blade exchange

PRECISION WORK FOR ALL CUTTING SIZES
• Flexible measuring at any point – easily readable, rust-resistant measuring tapes and dimensioning lines in the supporting table
• Angular stop for mitre cuts with measuring scale and detent (optionally available)
• The manual backgauge ensures comfortable and precise positioning of the cutting material
• No slipping and sliding – the automatic hold-down device with hard rubber insert holds the metal plates firmly in place during the act

MACHINE DATA
• Sturdy and compact steel construction
• All bearings and guides maintenance-free
• Cutter bar made of profile steel, drive via eccentric unit
• Triggering of cutting movement via one of the operating levers on either side
• Weight balancing for the cutter bar with tension springs in the two side stands
• High-quality, durable blade made of steel or optionally of chrome steel
• Optionally extended support arms and angular stop
• Optional blade light (requires electrical connection)

TECHNICAL FEATURES

HT

Angular stop, extended (optional)  Blank wagon (optional)  Supporting table with calibration and extendable sheet metal tray  Manual backgauge with tilting table (optional)  Tilting table, front delivery (optional)
Modern cut on the old river - too bad you can only see such beautiful form from above.

There's a lot to do on the roof and exteriors. The HT, SMT and MSB are made for this kind of work, so that you're always on top.

A huge playground from house to house.

Cat on a hot tin roof.

The wind cuts through the clean metal roofs of the historical city center with Venetian flair.
THE DUO FOR THE PERFECT START IN THE MOTORIZED CLASS

BREAK DOWN BARRIERS TO PERFORMANCE WITH THE SMT AND MSB MOTORIZED SHEARS. THE FIRST CHOICE FOR CHALLENGING SHEET METAL WORK ON ROOFS AND EXTERIORS.

HIGH ENERGY SAVING MODEL WITH OPTIMAL ENERGY BALANCE
- High flexibility in production processes due to highly-variable equipment
- The SMT and MSB are two particularly compact shears for the highest efficiency in the tightest of spaces
- Cutting of sheet metal and many other materials.

EASY AND MORE THAN YOU EXPECT
As with all Schecht motorized machines, we remain true to our strategy and deliver the SMT and MSB to you with comprehensive basic equipment. So you can get to work right away. If you would like to optimize your individual production processes even more, supplement this model with accessories suitable for your requirements.

AREAS OF APPLICATION
- Challenging requirements and recurring cutting profiles in thin sheet metal work
- Sheet metal workers, carpenters, roof and exterior handiwork

EXTREMELY EASY OPERATION
- Convenient equipment for ergonomic one-man operation at low cost
- Extending table for work that is gentle on the back, particularly with large-sized metals plates
- Automatic hold-down device with slip-resistant hard rubber insert holds the cutting material firmly in position

OPTIMAL ADJUSTMENT TO YOUR PRODUCTION PROCESSES
- Depending on the material flow in your workshop, you decide whether your shears should deposit the cutting material to the front or the rear – both models are available ex works (BV, BVH, NC and NCH control system)
- With the optional blank wagon, you can move the cutted material gently and comfortably

CLEAN CUT
- Clear view of the cutting position – the optional blade light eliminates disruptive shadows
- Exact measurements at any position – minimal recessed stainless steel bands in the table makes this possible
- Precise positioning with motor backgauge (NC and NCH control system)
- Angular stops – for conical cuts as well (optionally available)
- Thin cutting width possible
- Quick and easy blade change

HIGH STANDARD OF SAFETY
- Fastening of the cutting material with automatic hold-down device with intrusion protection
- Triggering of cut with movable foot switch
- Emergency stop button
- Rear safety cage protects against unauthorized access

THE PRINCIPLE OF PREMIUM QUALITY
- Sturdy, high-quality steel construction
- Slotted guide system and eccentric drive
- High power yield even with thick plates
- Low energy consumption
- Torsion-free cuts
- Powerful, quiet gear motors
- Energy-saving model, energy consumption only during cutting
- Very quiet, durable and precise
- Blade made of steel or chrome steel

THE SMT and MSB are available with the following control systems:

- BV CONTROL SYSTEM
- BVH CONTROL SYSTEM
- NC CONTROL SYSTEM
- NCH CONTROL SYSTEM
- STD CONTROL SYSTEM

Cutting material tray, rear
Cutting material tray, front
Manual backgauge

High quality steel construction
Energy-saving model
Precise positioning
Clear view of the cutting position
Comprehensive basic equipment
Compact shears
Energy-saving model
Energy-consuming cuts
Precise positioning
Minimal recessed stainless steel bands
Torsion-free cuts

EASY AND MORE THAN YOU EXPECT

STANDARD EQUIPMENT
- High quality steel construction
- Energy-saving model
- Precise positioning
- Clear view of the cutting position
- Comprehensive basic equipment
- Compact shears
- Energy-consuming cuts
- Torsion-free cuts
- Blade made of steel or chrome steel

TECHNICAL FEATURES

SMT POWER

MSB MORE POWER
We can make our roofs more beautiful, and even the big city will have the perfect look from above.

Classic forms in the church tower – finely cut from the best sheet metal.

The harmonic combination of tradition and modernity creates a streamlined look.

ATTRACTIVE SHEET METAL AND LARGE FORMATS ARE THE PASSION OF THE MSC. IT CAN HELP YOU REACH GREAT HEIGHTS.
DOUBLE THE STRENGTH EFFECTIVE IN SO MANY WAYS. PRECISION THAT SETS NEW STANDARDS.

YOUR BEST BET FOR PARTICULARLY HIGH-QUALITY THIN SHEET METAL APPLICATIONS.

THE MSC OFFERS PEAK PERFORMANCE FOR MOTORIZED SHEARS.

**THIS STURDY PACKAGE MAKES THE CUT IN TERMS OF PROFITABILITY**
- Cost-saving model with high degree of effectiveness
- Top cutting performance with low energy requirements
- Most extensive basic equipment of the motorized shears

**ARMS OF APPLICATION**
- Specific, complex requirements in light metal and exterior construction
- Industrially oriented metalworking trade
- Continuous operation, rapidly changing cutting profiles and serial production

**WITH AN EYE TO THE PERFECT CUT**
- Scales on both sides for easy adjustment of the cutting gap in various sheet thicknesses
- The blade light gives clear view of the cutting position (optionally available)
- Automatic hold-down device and slip-resistant hard rubber insert hold the cutting material firmly in place
- Backgauge and angular stops with T-slot position the cutting material precisely throughout the entire working length
- Adjustable and extendable support arm on the shear table facilitate work with large-sized metals plates
- Exchangeable stainless steel boxes make it possible to adapt to different materials
- Quick and easy exchange of the blade knives by single stroke tilt operation

**ECONOMIC CONVENIENCE PACKAGE**
- Even the strongest motorized shears from Schrätkl can be handled with cost-saving one-man operation
- Link drive with 2 motors – balanced forces protect the machine and material

**OBTAIN ADJUSTMENT TO YOUR PRODUCTION PROCESSES**
- You can perfectly adjust the cutting material tray to the material flow of your workshop – you select the front- or rear-titting table variants ex works
- The pneumatic tilting table can be operated from the front with both variants
- It is most convenient to deposit cutting material made of heavy and large-sized metals plates to the rear, as this facilitates removal and reduces setup times
- If you prefer cutting material be deposited to the front, the sheet slide with integrated sheet capture or the blank wagon with the benefit of convenient transport are optionally available

**HIGH SAFETY STANDARDS**
- Force-absorbing, specially-dimensioned and torsion-free box construction made of steel
- Maintenance-free slotted guide system
- High efficiency with low energy needs
- Minimum surface load
- Torsion-free cuts
- Durability in long-term use
- Powerful, very quiet gear motors
- Energy-saving model despite drive with two motors
- Energy consumption only during cutting
- Durable and precise

**STABLE CONSTRUCTION VALUES**
- Force-absorbing, specially-dimensioned and torsion-free box construction made of steel
- Maintenance-free slotted guide system
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- Torsion-free cuts
- Durability in long-term use
- Powerful, very quiet gear motors
- Energy-saving model despite drive with two motors
- Energy consumption only during cutting
- Durable and precise

**BENEFITS**
- Your best bet for particularly high-quality thin sheet metal applications.

**TECHNICAL FEATURES**
- The MSC can be delivered with the following control system:
  - BV: Cutting material tray, front
  - BVH: Cutting material tray, rear
  - NC: Cutting material tray, front
  - NCH: Cutting material tray, rear

**MSC**

[Images of MSC and its features: Blade light, Extended support arm, Cutting gap setting, Exchangeable boxes for various cutting materials, Programmable cutting control system and database for cutting profiles and cutting sequences (NC control system variant).]

[Control system details on p. 16–17]
THE OPTIMAL TILTING TABLE MODELS IN THE MATERIAL FLOW OF YOUR PRODUCTION PROCESSES

TWO PROVEN OPERATING CONCEPTS SUPPORT PRODUCTIVITY.

STARTING FROM THE BEGINNING – BENEFITS OF SHORT PATHS

Shears with BV- and NC control systems are continuously operated from the front. This affects all functions, loading of the shears, depositing and removal of the cutting material. This variant is a good choice for tight spaces.

Large-sized sheets are heavy and hard to carry. Our shears support you with this challenge every day with ease. Our principle of one-man operation applies for all shears. One operator masters all work processes precisely and in minimal time.

EVERYTHING WITH ONE-MAN OPERATION

1. The operator lays the metal plates on the shear table and guides it through the cut opening through the hold-down device. Mounting bracket or support arm reduce the expenditure of force.

2. The tilting table bars elevate the sheets somewhat. This makes it easier for the operator to move large-sized sheets and position them precisely on the backgauge throughout the entire cutting widths.

3. After the exact positioning process the operator controls the cutting position. The optional blade light placed in the hold-down device lights up the cutting area and creates a clear view for precise cuts.

4. The operator triggers the cutting process with the foot pedal. This fastens the metal plates with the automatic hold-down device. After the cut, the cutting bar moves back to the initial position.

5. Then the pneumatic tilting table takes over: It automatically swivels downwards. The cutting material slides carefully and gently into the sheet tray. Then the tilting table rises and lowers back into the initial position, simultaneously with the cutting bar.

6. The cutting material is stacked plate-on-plate in the sheet slide, or even better in the blank wagon, which the operator can use to transport it to the next production step.

THE NEW TASK AT THE FRONT – THE PROCESS CONTINUES AT THE BACK

Shears with BVH and NCH control systems are loaded with metal plates from the front, while the cutting material is taken from the rear side of the machine.

This variant offers the operator many benefits:

- Setup for the next task on the shear table and removal of the cutting material on the rear side can be done at the same time. This gives the operator more freedom of movement and reduces downtimes.
- Longer and thicker sheets can be deposited to the rear with much less effort.
- The entire material flow is quicker and more convenient – a significant advantage, not only in the industrial trade sector.

EVERYTHING WITH ONE-MAN OPERATION

- Manual backgauge
- Position control
- Motorized backgauge
- Programmable cutting control

THE OPTIMAL TILTING TABLE MODELS IN THE MATERIAL FLOW OF YOUR PRODUCTION PROCESSES

TWO PROVEN OPERATING CONCEPTS SUPPORT PRODUCTIVITY.
CONTROL SYSTEMS

TO WHAT EXTENT WOULD YOU LIKE TO AUTOMATE THE CUTTING OF THIN PLATES?
SELECT THE IDEAL CONTROL SYSTEM TYPE FOR YOUR REQUIREMENTS FROM THE DIFFERENT VARIANTS.

BV CONTROL SYSTEMS

MORE CONVENIENT FUNCTIONS AND REDUCTION OF TIME REQUIRED FOR WORK
With the BV and BVH control system for your motorized shears, you save valuable production time when setting the manual backgauge. The advantages compared to the standard control system are:

- The positioning wheel for moving the stop bar is located on the front side of the machine, thereby significantly reducing travel paths.
- The position of the cutting bar does not need to be read out on the measuring tape of the fitting table, as it is also displayed more clearly from the front, or alternatively via an analog counter (standard) or optionally with a digital display.
- Backgauge position of 0 to 750 mm
- Pneumatic tilting table

ANALOG DISPLAY
- The mechanical counter runs while the position wheel is turned.
- The set position of the stop bar is fastened with a lever.

The form of the display is independent of whether the pneumatic tilting table is to deposit the cutting material to the front (BV) or the rear (BVH). Analog and digital display are available for both variants.

DIGITAL DISPLAY
- The position of the stop bar can be read off much more clearly with this display—down to the tenth of a millimeter.
- The desired position of the backgauge is approached with the hand wheel and fixed in places with a lever.

PNEUMATIC TILTING TABLE
requires available compressed air supply

TILTING TABLE, FRONT DELIVERY
The cutting material is deposited to the front and can be removed easily from the shears or transported to the next production step with the blank wagon.

TILTING TABLE, REAR DELIVERY
For continuous production processes, the cutting material is deposited to the rear and is available for the next production step. The operator can then immediately start working on the next cutting task.

SAFETY FOR OPERATING PERSONNEL
- Three-sided safety cage around the backgauge (BV)
- Optional: Light barrier combined with protected grille on both sides for rear deposit and backgauge (BVH)

NC CONTROL SYSTEMS

CONTROL CHALLENGING PRODUCTION TASKS WITH EASE
The programmable NC/NCH control systems for motorized shears are the ideal choice for high-quality thin sheet metalwork. They score points particularly in the manufacture of challenging plates for roofs and exteriors as well as for recurring cutting profiles in industrial and serial-oriented trades.

With these control system variants, you can cut plates quickly, economically and with great range of movement for changing conditions. With the NC/NCH control systems, you control all machine functions of your shears.

CONTROL OF CENTRAL FUNCTIONS
- Approaching the cutting positions
- Motorized backgauge
- Pneumatic tilting table
- Quantity shutdown

PRECISE REPEATABILITY
- Storage space for 99 cutting sets
- 6 positions per cutting set
- Entry and selection of the cutting sequence
- Digital display

SAFETY FOR OPERATING PERSONNEL
- Three-sided safety cage around the backgauge (NC)
- Optional: Light barrier combined with protected grille on both sides for rear deposit and backgauge (NCH)

TILTING TABLE, FRONT DELIVERY
The cutting material is deposited to the front and removed comfortably from this point. The optional blank wagon carries it to the next production step with ease.

TILTING TABLE, REAR DELIVERY
The cutting material is deposited to the rear for quick production processes. The operator can immediately set up the shears for the next cutting task.

STD CONTROL SYSTEM

BASIC EQUIPMENT
- Standard version with manual backgauge for easy sheet metal work and sites without compressed air supply
- Three-sided safety cage around the backgauge
OPTIMIZE WORK PROCESSES TO INCREASE PRODUCTIVITY AND
SAVE MORE TIME. OUR OPTIONAL ACCESSORIES PROVIDE GREATER CONVENIENCE,
PRECISION, AND VERSATILITY.

STROKE COUNTER
The stroke counter counts the cutting movements of the shears in succession. The counter with reset function is set manually and can be used by the operator for a variety of functions. E.g., the stroke counter counts the number of cuts already made per task and records the cutting movements per day, week, and month for statistical evaluations.

BLADE LIGHT (LED)
The workshop illumination gives out diffuse light and the cutting bar creates dark shadows. Both make it harder for the operator to see the cutting position well.
The innovative solution from Schechtl is called blade light. This light strip is positioned into the hold-down device and mounted with energy-saving LEDs. The illuminating light from the LEDs lights up the area that really matters and creates a clear view for precise cuts.

ANGULAR STOP FOR MITRE CUTS
Sheet metal workers can make exact mitre cuts with a special angular stop. The stop and dial scale are fastened conveniently and securely with a clamping lever.

MANUAL BACKGAUGE
500 or 750 mm length
The manually adjustable backgauge is primarily used in the HT models and the STD (standard) motorized shear models. It ensures the stable positioning of the sheet metal. The gauge length is set on the rear side of the shears using the crank wheel. The gauge is fastened using the clamping lever.

PNEUMATIC HOLD-DOWN DEVICE
The operator therefore has the cutting material firmly in grasp at the press of a button without manual expenditure of force. The hold-down device holds the cutting material comfortably and securely in place.
In connection with the slip-proof hard rubber insert, the cutting material is protected from scratches.

STROKE COUNTER
STROKE

BLADE LIGHT (LED)

ANGULAR STOP FOR MITRE CUTS
500 or 750 mm length

MANUAL BACKGAUGE

PNEUMATIC HOLD-DOWN DEVICE

ACCESSORIES

STRIKE COUNTER

BLADE LIGHT (LED)

ANGULAR STOP FOR MITRE CUTS

MANUAL BACKGAUGE

PNEUMATIC HOLD-DOWN DEVICE

BLANK WAGON, LIGHT AND HEAVY

SHEET SLIDE

SUPPORT ARM AND ANGULAR STOP WITH T-SLOT CAN BE FREELY ALIGNED

LIGHT BARRIER

The safety version with light barrier combines comfort with maximum protection for operating personnel.

Comfort: The standard version features a safety cage around the hazardous area. The cutting material can be accessed via a door. In the comfort version with light barrier, grills protect the lateral hazardous area. The shears are accessible from the rear and the operator can remove the cutting material comfortably.

Safety: If someone enters the hazardous area during cutting, the light barrier stops the cutting processes and immediately switches the shears off.
## TECHNICAL DATA

### PERFORMANCE, DIMENSIONS, AND WEIGHT.

### HT

<table>
<thead>
<tr>
<th>Model</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>310</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working length</td>
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### MSB

<table>
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<td>Cutting performance</td>
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<td>Cuts per minute</td>
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<tr>
<td>HT</td>
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### SMT

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<th>250</th>
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<td>Steel 400 N/mm²</td>
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</tr>
<tr>
<td>Cutting angle</td>
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### MSC

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<tr>
<td>Cuts per minute</td>
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### Weight

<table>
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<td>580</td>
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<td>1,310</td>
<td>1,520</td>
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<tr>
<td>SMT</td>
<td>kg</td>
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<td>1,100</td>
<td>1,300</td>
<td>1,500</td>
</tr>
<tr>
<td>MSC</td>
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<td>1,400</td>
<td>1,600</td>
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OVERVIEW OF MACHINES
AS OF 03/2014

SWIVEL BENDING MACHINES AND SQUARING SHEARS
FOR THE ENTIRE RANGE OF TOP-QUALITY METALWORKING.

MANUAL SWIVEL BENDING MACHINES

TBX
- Single user lightweight for the job site
- Portable, foldable, on wheels

LBT
- Contractors convenient bending, setting, bending
- Portable, with wheel castors, smooth manoeuvring

LBX
- Compact and powerful for on-site bending
- Perfect for material, angle and thickness
- Reliable bending results across the working width

BA
- The most powerful manual on the market
- Robust and user-friendly on site
- Extra visibility for aligned bending

MOTORIZED SWIVEL BENDING MACHINES

MAXI
- Easy to use, high performance
- Bending forms up to 2400 mm

MINI
- Easy to use, high performance
- Bending forms up to 1200 mm

MAZ CNC-S
- Economical in the industrial trade
- A large selection of bending tools
- Reliable machine, robust, compact

MAE CNC-S
- Economical in the industrial trade
- A large selection of bending tools
- Reliable machine, robust, compact

SHEARING SYSTEMS

HT
- Reliable, sturdy, lasts for generations
- Single-user operation, economical production
- Sleek design, maintenance-free, lots of accessories

SMT
- Powerful, 10 mm maximum sheet thickness
- Simple operation, minimum finishing
- Economical in the industrial trade

MSB
- Easy to handle, 10 mm maximum sheet thickness
- Single user operation, economical production
- Economical in the industrial trade

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- Powerful, 10 mm maximum sheet thickness
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PROFILING MACHINES

SHEARING SYSTEMS

MT
- Integrated automatic shearing
- Dynamic operation in the production process
- Highly adjustable, economical production
- Highly adjustable, economical production

ST
- Compact, adjustable, economical
- Dynamic operation in the production process
- Highly adjustable, economical production
- Highly adjustable, economical production

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