

# 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













Maria Schechtl  
Managing Director



# PRODUCT FINDER

YOU WILL FIND THE RIGHT SHEAR FOR YOUR NEEDS  
WITH THE PERFECT COMBINATION OF WORKING LENGTH,  
CUTTING PERFORMANCE AND CONTROL.

1. WHICH MATERIALS AND THICKNESS DO YOU PRIMARILY CUT?
2. WHICH FORMAT DO YOU MAINLY CUT?
3. TO WHAT EXTENT DO YOU WANT TO AUTOMATE THE WORK STEPS ON YOUR SHEAR?
4. WHAT IS THE FOCUS OF YOUR PRODUCTION PROCESSES?

												
Machine type	HT			SMT			MSB			MSC		
Drive type	Manual			Motor								
Working length	Steel 400 N/mm <sup>2</sup>	Aluminum 250 N/mm <sup>2</sup>	Stainless steel 600 N/mm <sup>2</sup>	Steel 400 N/mm <sup>2</sup>	Aluminum 250 N/mm <sup>2</sup>	Stainless steel 600 N/mm <sup>2</sup>	Steel 400 N/mm <sup>2</sup>	Aluminum 250 N/mm <sup>2</sup>	Stainless steel 600 N/mm <sup>2</sup>	Steel 400 N/mm <sup>2</sup>	Aluminum 250 N/mm <sup>2</sup>	Stainless steel 600 N/mm <sup>2</sup>
1040	1.75	2.25	1.00	3.50	5.50	2.25	4.00	6.00	2.50			
1540	1.50	2.00	0.80	2.50	4.00	1.50	3.50	5.50	2.25			
2040	1.25	1.75	0.80	2.50	4.00	1.50	3.00	4.50	2.00	4.00	6.00	2.50
2540	1.00	1.50	0.60	2.00	3.00	1.25	2.50	4.00	1.50	3.50	5.50	2.25
3100	1.00	1.50	0.60	1.50	2.25	1.00	2.00	3.00	1.25	3.00	4.50	2.00
4040										2.50	4.00	1.50
4500										1.50	2.50	1.00
Control systems	manual			<div><div></div><div></div><div></div><div></div></div>						<div><div></div><div></div><div></div><div></div></div>		
Sheet support	manual (optional)			Pneumatics for BV, BVH, NC and NCH included								

Important to know:  
The choice of control system does not change the cutting performance of the machine model.

BV

BV CONTROL SYSTEM

Cutting material tray, front

- manual backgauge
- Metal sheet holder + tilting table

NC

NC CONTROL SYSTEM

Cutting material tray, front

- motorized backgauge
- programmable cutting control

BVH

BVH CONTROL SYSTEM

Cutting material tray, rear

- manual backgauge
- Metal sheet holder + tilting table

NCH

NCH CONTROL SYSTEM

Cutting material tray, rear

- motorized backgauge
- programmable cutting control

# 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.

## BENEFITS

### 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 1 m working length and ranges to the **HT 310** with a 3.10 m working length and a 1 mm steel plate cutting performance.

### 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

### EXTREMELY EASY OPERATION

- efficient and cost-saving one-man operation
- triggering of cutting movement without expenditure of force with only an 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 sheet support 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 metals plates firmly in place during the act

## TECHNICAL FEATURES

### 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)

Proven  
10.000  
times

# HT

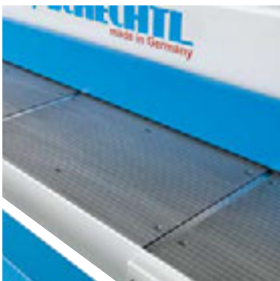
MANUAL



Angular stop, extended (optional)



Blank wagon (optional)



Supporting table with calibration and extendable sheet metal tray



BV control with electronic position indicator (option) see page 6



Sheet support, front delivery (optional)





# THERE'S A LOT TO DO ON THE ROOF AND EXTERIORS

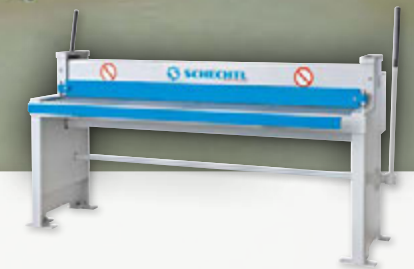
THE HT, SMT AND MSB ARE MADE FOR THIS KIND OF WORK.  
SO THAT YOU'RE ALWAYS ON TOP.

*Modern cut on the old river -  
too bad you can only see such  
beautiful form from above*

*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*

HT



SMT



MSB





# 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 Schechtl 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.

## BENEFITS

### AREAS OF APPLICATION

- challenging requirements and recurring cutting profiles in thin sheet metalwork
- 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
- pneumatic sheet support and the optional sheet slide deposits the cutting material gently (**BV**, **BVH**, **NC** and **NCH** control system)

### 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** + **NCH** control system)
- angular stop with T-slot – for conical cuts as well (optionally available)
- thin cutting width possible
- quick and easy blade change

## TECHNICAL FEATURES

### 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 alternatively chrome steel

The **SMT** and **MSB** are available with the following control systems:



**BV CONTROL SYSTEM**  
cutting material tray, front



**BVH CONTROL SYSTEM**  
cutting material tray, rear



**NC CONTROL SYSTEM**  
cutting material tray, front



**NCH CONTROL SYSTEM**  
cutting material tray, rear

Control system details on p. 16–17

# SMT POWER



# MSB MORE POWER





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

*We can make our roofs more beautiful, and even the big city will have the perfect look from above*

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

**MSC**



## MODERN XXL ROOFS

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.

## BENEFITS

### 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

### BALANCE WITH DOUBLE THE FORCE

The **MSC** is driven by 2 motors. This principle creates the optimal balance of the cutting power throughout the entire working length. This means much easier guiding of the cutting bar, which in turn increases the cutting precision enormously.

### AREAS 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 Schechtel can be handled with cost-saving one-man operation
- link drive with 2 motors – balanced forces protect the machine and material

### OPTIMAL 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-sheet support variants ex works
- the pneumatic sheet support 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 (optionally) with the benefit of convenient transport are available

## TECHNICAL FEATURES

### HIGH SAFETY STANDARDS

- 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

### CONSIDERABLY SHORTER SETUP TIMES DURING MATERIAL CHANGE

- cutting clearance setting can be aligned without tools
- double-edged reversible blades are the standard

### STABLE CONSTRUCTION VALUES

- 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

The **MSC** can be delivered with the following control system:



**BV CONTROL SYSTEM**  
cutting material tray, front



**BVH CONTROL SYSTEM**  
cutting material tray, rear



**NC CONTROL SYSTEM**  
cutting material tray, front



**NCH CONTROL SYSTEM**  
cutting material tray, rear

Control system details on p. 16–17

# MSC



MOTOR



Blade light (LED)  
(optional)



Extended support arm with  
angular stop and T-slot  
(optional)



Cutting gap setting can  
be adjusted without tools



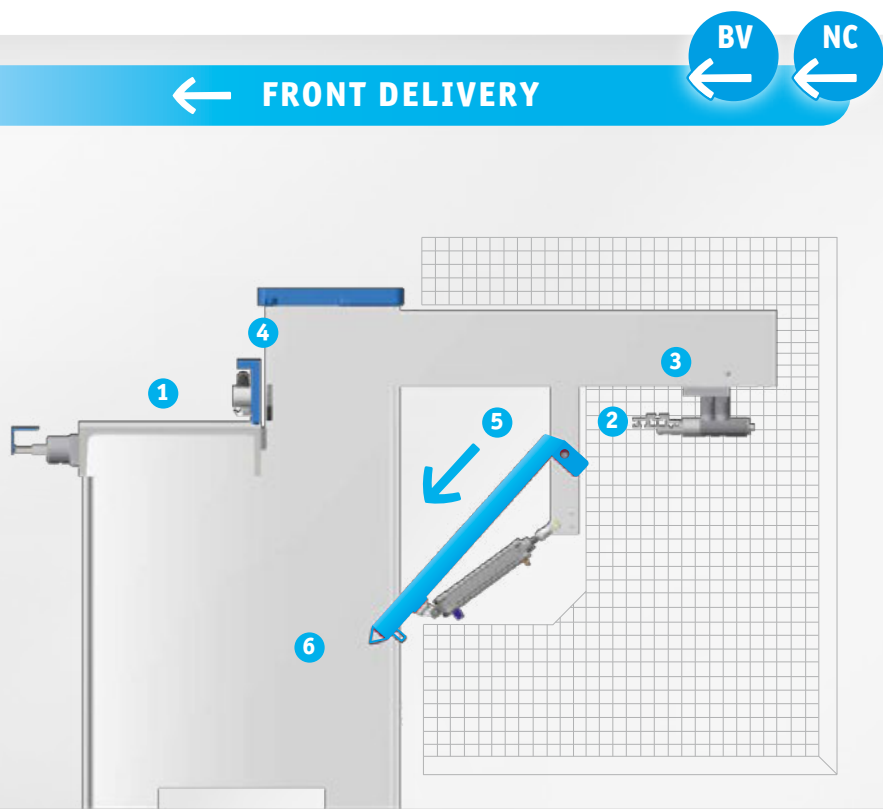
Exchangeable boxes for various  
cutting materials



Programmable cutting  
control system and data-  
base for cutting profiles  
and cutting sequences  
(NC+NCH control system  
variant)

# THE OPTIMAL SHEET SUPPORT 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.

BV

←

**BV CONTROL SYSTEM**  
cutting material tray, front

- manual backgauge 0 - 750 mm
- analog or digital display

NC

←

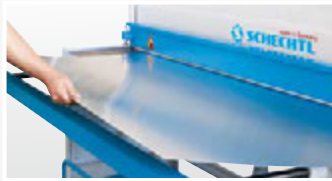
**NC CONTROL SYSTEM**  
cutting material tray, front

- motorized backgauge 0 - 750 mm
- programmable digital display

## 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. Extending table or support arm reduce the expenditure of force.




2

The sheet support 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

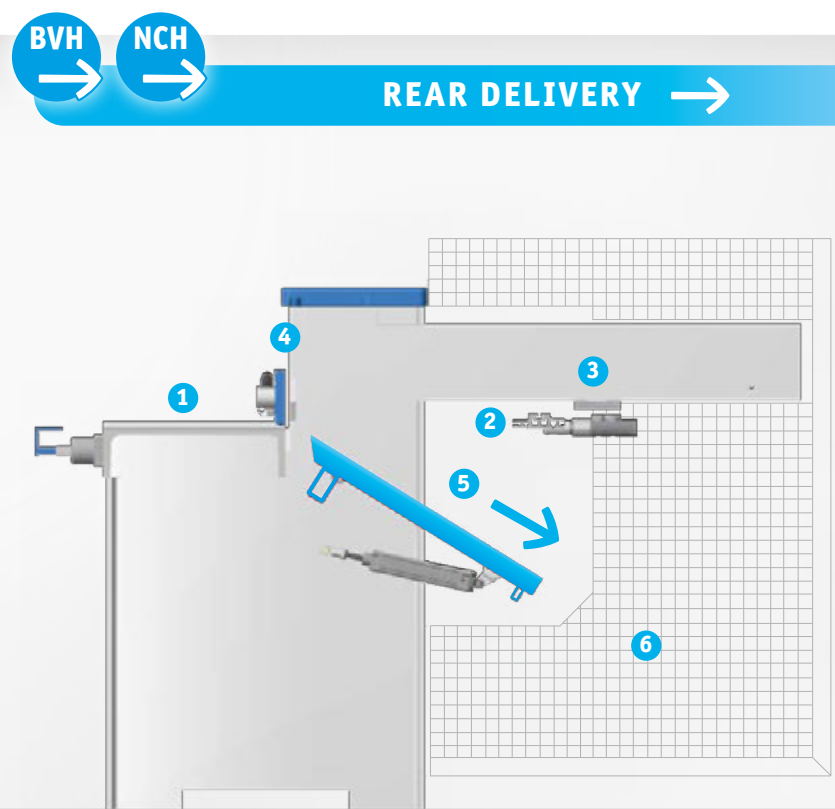
Then the pneumatic sheet support takes over: it automatically swivels downwards. The cutting material slides carefully and gently into the sheet tray. Then the sheet support rises and lowers back into the initial position, simultaneously with the cutting bar.



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.
  - And: 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.

BVH

→

**BVH CONTROL SYSTEM**  
cutting material tray, rear

- manual backgauge 0 - 750 mm
- analog or digital display

NCH

→

**NCH CONTROL SYSTEM**  
cutting material tray, rear

- motorized backgauge 0 - 750 mm
- programmable digital display



# 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:

- pneumatic sheet support which guides the material to the backgauge
- 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 - 750 mm



#### ANALOG DISPLAY

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



#### DIGITAL DISPLAY

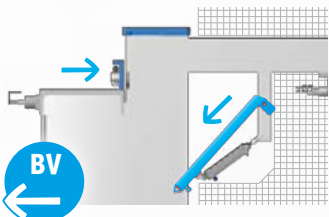
- the position of the stop bar can be read off much more clearly with this display – down to the tenth of a millimeter
- the desired position of the back-gauge is approached with the hand wheel and fixed in places with a lever

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

#### SAFETY FOR OPERATING PERSONNEL

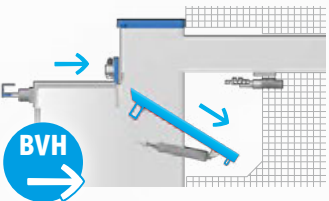
- three-sided safety cage around the backgauge (**BV**)
- optional: Light barrier combined with protected grille on both sides for rear deposit and backgauge (**BVH**)

### PNEUMATIC SHEET SUPPORT requires available compressed air supply



#### SHEET SUPPORT, 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.



#### SHEET SUPPORT, 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.



## 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 reoccurring 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 sheet support
- quantity shutdown

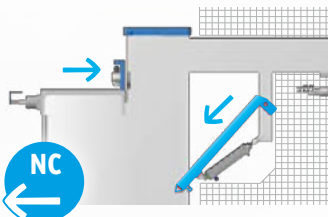
#### PRECISE REPEATABILITY

- storage space for 99 cutting sets
- 6 positions per cutting set
- entry and selection of the cutting sequence
- digital display

#### SAFETY FOR OPERATING PERSONNEL

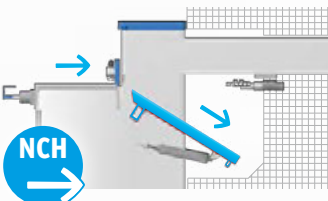
- three-sided safety cage around the backgauge (**NC**)
- optional: Light barrier combined with protected grille on both sides for rear deposit and backgauge (**NCH**)

### PNEUMATIC SHEET SUPPORT requires available compressed air supply



#### SHEET SUPPORT, 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.



#### SHEET SUPPORT, 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.



ACCESSORIES

OPTIMIZE WORK PROCESSES TO INCREASE PRODUCTIVITY AND  
SAVE MORE TIME. OUR OPTIONAL ACCESSORIES PROVIDE GREATER CONVENIENCE,  
PRECISION, AND VERSATILITY.

1 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.

2 ANGULAR STOP FOR MITRE CUTS



Sheet metal workers can make exact mitre cuts with a special angular stop. Stop rod and dial scale are fastened conveniently and securely with a clamping lever.

3 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 surface is protected from scratches.

4 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 innovate solution from Schechtl is called blade light. This light strip is positioned into the hold-down device and mounted with energy-saving LEDs. The pleasing light from the LEDs lights up the area that really matters and creates a clear view for precise cuts.

5 MANUAL BACKGAUGE



**500 or 750 mm length**  
The manually adjustable backgauge is used in the **HT models**. It ensures easy and 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.

6 MANUAL BACKGAUGE WITH SHEET SUPPORT, FRONT DELIVERY



The sheet support is an excellent extension of the manually adjustable backgauge for the **HT model** which deposits the cutting material gently to the front. From there, it can be conveniently removed or transported with the blank wagon.

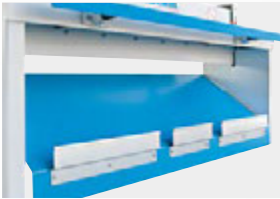
	HT					SMT + MSB										MSC									
						BV, BVH					NC, NCH					BV, BVH					NC, NCH				
	100	150	200	250	310	100	150	200	250	310	100	150	200	250	310	200	250	310	400	450	200	250	310	400	450
1 pair of steel blades																									
1 pair of chrome steel blades																									
Electronic position indicator for BV or BVH						BV	BV	BV	BV	BV															
1 Stroke counter																									
2 Angular stop for mitre cuts, with scale division																									
3 Pneumatic hold-down device																									
4 Blade light via LED assembled in hold-down device																									
5 Manual backgauge, 0-750 mm																									
6 Manual backgauge, 0-750 mm with manual sheet support, front delivery																									
7 Blank wagon, light, lifting capacity max. 300 kg																									
Blank wagon, heavy, lifting capacity max. 1000 kg																									
8 Sheet slide																									
9 Extended angular stop, left or right, T-slot from table, measuring tape from blade																									
Support arm with T-slot from table, measuring tape from blade																									
T-slot in table from blade with measuring tape																									
Extended angular stop, left or right with measuring tape (fixed installation, without T-slot)																									
Extended angular stop, left or right with T-slot and articulating stop with measuring tape																									
10 Light Barrier																									

7 BLANK WAGON, LIGHT AND HEAVY



Sheets can quickly become impossible to carry. This is particularly true for thick sheets and large-sized cutting materials. The blank wagon is available in two versions for different maximum weights. This makes it possible for the operator to transport heavy cutting material alone and in a manner gentle for the material to the next manufacturing step.

8 SHEET SLIDE



The cutting material is automatically and gently collected on the sheet slide. Cutting material deposited to the front can be removed conveniently from this point. The sheet slide is attached firmly to the shear.

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



A helping hand for the perfect cut: support arm in various lengths are indispensable for processing large-sized metal plates. They are equipped with adjustable and exchangeable sheet metal trays made of rust-free steel as well as recessed grips for comfortable handling of the sheets. Readjustable stop rails ensure the correct angle to the blade. If a front stop is required, a slot stone is wedged into the T-slot.

10 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 hazard area. The cutting material can be accessed via a door. In the comfort version with light barrier, grills protect the lateral hazard area. The shears are accessible from the rear and the operator can remove the cutting material comfortably.

**Safety:** If someone enters the hazard area during cutting, the light barrier stops the cutting process and immediately switches the shears off.

We strongly recommend a light barrier for BVH + NCH control systems.



# TECHNICAL DATA

PERFORMANCE, DIMENSIONS AND WEIGHT.



## HT

Model		100	150	200	250	310
Working length	mm	1,040	1,540	2,040	2,540	3,140
Cutting performance						
Steel 400 N/mm²	mm	1.75	1.50	1.25	1.00	1.00
Aluminum 250 N/mm²	mm	2.25	2.00	1.75	1.50	1.50
Stainless steel 600 N/mm²	mm	1.00	0.80	0.80	0.60	0.60
Cutting angle		4.40°	2.96°	2.22°	1.79°	1.43°
Overall dimensions						
Length	mm	1,442	1,942	2,442	2,942	3,524
Depth	mm	905	905	905	905	985
Depth with backgauge	mm	1,330	1,330	1,330	1,330	1,330
Table height	mm	860	860	860	860	860
Total height (with operating lever)	mm	1,500	1,500	1,500	1,500	1,500
Weight						
HT	kg	470	560	650	740	920



## SMT

Model		100	150	200	250	310
Working length	mm	1,040	1,540	2,040	2,540	3,140
Cutting performance						
Steel 400 N/mm²	mm	3.50	2.50	2.50	2.00	1.50
Aluminum 250 N/mm²	mm	5.50	4.00	4.00	3.00	2.25
Stainless steel 600 N/mm²	mm	2.25	1.50	1.50	1.25	1.00
Cuts per minute		35	35	35	35	35
Cutting angle		2.25°	2.93°	2.20°	1.76°	1.45°
Power rating	kW	3.0	3.0	3.0	3.0	3.0
Overall dimensions						
Length	mm	1,392	1,892	2,392	2,892	3,492
Depth with backgauge + safety cage	mm	1,965	1,965	1,965	1,965	1,965
Table height	mm	850	850	850	850	850
Total height with safety cage	mm	1,450	1,450	1,450	1,450	1,450
Weight						
SMT BV / H	kg	910	1,030	1,180	1,330	1,520
SMT NC / H	kg	1,110	1,130	1,280	1,430	1,620
Connecting data EU						
Connecting load without type NC	kVA	4.9	4.9	4.9	4.9	4.9
Connecting load with type NC	kVA	6.1	6.1	6.1	6.1	6.1
Recommendedfuse protection 3 xslow blow	A	25	25	25	25	25
Connector plug CEE.. A 5-pole		32	32	32	32	32
Recommended RCD without type NC		no specification				
Recommended RCD tripping current without type NC	mA	30	30	30	30	30
Recommended RCD with type NC	Doepke	DFS 4 B SK				
Recommended RCD tripping current without type NC	mA	300	300	300	300	300
supply voltage	AC 50 Hz	380 - 420	380 - 420	380 - 420	380 - 420	380 - 420
compressed air connection		min. 6 bar, max. 10 bar - circa 50 l/min.				
Connecting data USA						
Connecting load without type NC	kVA	6.2	6.2	6.2	6.2	6.2
Connecting load with type NC	kVA	7.4	7.4	7.4	7.4	7.4
Recommendedfuse protection 3 xslow blow	A	35	35	35	35	35
Recommended RCD without type NC		no specification				
Recommended RCD with type NC		no specification				
supply voltage	AC 60 Hz	210 - 250	210 - 250	210 - 250	210 - 250	210 - 250
compressed air connection		min. 6 bar, max. 10 bar - circa 50 l/min.				



# TECHNICAL DATA

PERFORMANCE, DIMENSIONS AND WEIGHT.



## MSB

Model		100	150	200	250	310
Working length	mm	1,040	1,540	2,040	2,540	3,140
Cutting performance						
Steel 400 N/mm²	mm	4.00	3.50	3.00	2.50	2.00
Aluminum 250 N/mm²	mm	6.00	5.50	4.50	4.00	3.00
Stainless steel 600 N/mm²	mm	2.50	2.25	2.00	1.50	1.25
Cuts per minute		35	35	35	35	35
Cutting angle		2.69°	2.88°	2.18°	1.76°	1.43°
Power rating	kW	3.0	3.0	3.0	3.0	3.0
Overall dimensions						
Length	mm	1,392	1,892	2,392	2,892	3,492
Depth with backgauge + safety cage	mm	1,965	1,965	1,965	1,965	1,965
Table height	mm	850	850	850	850	850
Total height with safety cage	mm	1,450	1,450	1,450	1,450	1,450
Weight						
MSB BV / H	kg	1,000	1,190	1,360	1,540	1,860
MSB NC / H	kg	1,100	1,300	1,460	1,640	1,960
Connecting data EU						
Connecting load without type NC	kVA	4.9	4.9	4.9	4.9	4.9
Connecting load with type NC	kVA	6.1	6.1	6.1	6.1	6.1
Recommendedfuse protection 3xslow blow	A	25	25	25	25	25
Connector plug CEE.. A 5-pole		32	32	32	32	32
Recommended RCD without type NC		no specification				
Recommended RCD tripping current without type NC	mA	30	30	30	30	30
Recommended RCD with type NC	Doepke	DFS 4 B SK				
Recommended RCD tripping current without type NC	mA	300	300	300	300	300
supply voltage	AC 50 Hz	380 - 420	380 - 420	380 - 420	380 - 420	380 - 420
compressed air connection		min. 6 bar, max. 10 bar - circa 50l/min.				
Connecting data USA						
Connecting load without type NC	kVA	6.2	6.2	6.2	6.2	6.2
Connecting load with type NC	kVA	7.4	7.4	7.4	7.4	7.4
Recommendedfuse protection 3xslow blow	A	35	35	35	35	35
Recommended RCD without type NC		no specification				
Recommended RCD with type NC		no specification				
supply voltage	AC 60 Hz	210 - 250	210 - 250	210 - 250	210 - 250	210 - 250
compressed air connection		min. 6 bar, max. 10 bar - circa 50l/min.				



## MSC


Model		200	250	310	400	450
Working length	mm	2,040	2,540	3,140	4,040	4,540
Cutting performance						
Steel 400 N/mm²	mm	4.00	3.50	3.00	2.50	1.50
Aluminum 250 N/mm²	mm	6.00	5.50	4.50	4.00	2.50
Stainless steel 600 N/mm²	mm	2.50	2.25	2.00	1.50	1.00
Cuts per minute		25	25	25		
Cutting angle		2.17°	1.75°	1.41°	1.11°	0.99°
Power rating	kW	3.7	3.7	3.7	3.0	3.0
Overall dimensions						
Length	mm	2,585	3,085	3,710	4,585	5,085
Depth with backgauge + safety cage	mm	2,592	2,592	2,592	2,592	2,592
Table height	mm	920	920	920	920	920
Total height with safety cage	mm	1,430	1,430	1,430	1,430	1,430
Weight						
MSC BV / H	kg	2,350	2,550	2,900	3,350	3,650
MSC NC / H	kg	2,450	2,650	3,000	3,450	
Connecting data EU						
Connecting load without type NC	kVA	6.2	6.2	6.2	5.3	5.3
Connecting load with type NC	kVA	7.4	7.4	7.4	6.5	6.5
Recommendedfuse protection 3 xslow blow	A	25	25	25	25	25
Connector plug CEE.. A 5-pole		32	32	32	32	32
Recommended RCD without type NC		no specification				
Recommended RCD tripping current without type NC	mA	30	30	30	30	30
Recommended RCD with type NC	Doepke	DFS 4 B SK				
Recommended RCD tripping current without type NC	mA	300	300	300	300	300
supply voltage	AC 50 Hz	380 - 420	380 - 420	380 - 420	380 - 420	380 - 420
compressed air connection		min. 6 bar, max. 10 bar - circa 50l/min.				
Connecting data USA						
Connecting load without type NC	kVA	6.2	6.2	6.2	5.3	5.3
Connecting load with type NC	kVA	7.4	7.4	7.4	6.5	6.5
Recommendedfuse protection 3 xslow blow	A	35	35	35	35	35
Recommended RCD without type NC		no specification				
Recommended RCD with type NC		no specification				
supply voltage	AC 60 Hz	210 - 250	210 - 250	210 - 250	210 - 250	210 - 250
compressed air connection		min. 6 bar, max. 10 bar - circa 50l/min.				



# LINE-UP OF MACHINES


MACHINES FOR THE ENTIRE  
RANGE OF TOP-QUALITY METALWORKING  
AS OF 02/2023

## MANUAL BENDING MACHINES




### TBX

- Single-user lightweight for the job site
- Max. portability, solid, ready to use in 2 min
- Unique X stand, foldable, on wheels




### LBT

- Construction convenience: bending, cutting, beading
- Portable, wheel locks, smooth-running
- Versatile options for clamping beam rail




### LBX

- Compact and powerful on-site bending
- Pretensioning for material type and thickness
- Optimal bending result across the working width




### TBS

- Smart segment-bending at the job site
- Tool-free adjustment, many fold shapes
- Unique X stand, light, max. portability




### UK

- Smart segment-bending, proven 10,000 times
- Combine elements without tools
- Foot pedal, frees up hands for positioning




### UKV

- Segment-bending even more powerful/versatile
- Fast and tool-free segment adjustment
- Hands stay free for precision positioning




### UKF

- Segment bending of large special forms
- Extra high standards for use – XXL freedom
- Maximum flexibility, highest comfort




### KS

- Incredibly versatile, fast, cost-effective
- Easy and convenient for creative profiles
- World's best-selling swivel bending machine




### KSV

- Award-winning, cost-effective, versatile
- Handles many materials and thicknesses
- Produces remarkable profiles




### HBM

- Special profiles only possible here
- Precise positioning of workpieces
- Simple lowering of bending beam



### HA

- Sturdy package for single-user operation
- Specially designed for thick sheets
- Ideal configuration for recurring bends



### SB50

- For the production of roof and facade shingles
- Only one work step for two 180° edges
- Time saving of approx. 70 %

## MOTORIZED BENDING MACHINES



### MBM ECT

- Smart move to motor and monitor system
- Precision reproduction of complex profiles
- Single-user operation, sturdy, time-efficient



MAX STD  
MAX ECT  
MAX CNC S-Touch

### MAX

- Motorized model with best custom versatility
- Sturdy construction, high bending capacity
- The classic for 90 % of all bending jobs



GEOMETRY  
MAX-F ECT  
MAX-F CNC

### MAX-F

- Maximum bending free space
- 14 mm free space behind the pivot point
- More space for profile geometries



MAB STD  
MAB ECT  
MAB CNC S-Touch

### MAB

- More power than MAX, better performance
- Powerful machine for roofs and exteriors
- Sturdy construction, minimal maintenance



### MAZ CNC

- Best in series production and light metal
- Speed king: outstanding productivity
- Shortest setup times, rapid bending sequences



### MAE CNC

- Economical in the industrial trade
- Most adaptable changeover system / 1-click
- Minimal setup times, versatile, compact



GEOMETRY

### MAF CNC

- Maximum bending free space – without special tools
- 14 mm free space behind the pivot point
- Low risk of collision on the bending beam

## MANUAL SHEARS




### HT

- Resiliently sturdy: lasts for generations
- Single-user operation, economical precision
- Space-saving, maintenance-free, lots of accessories

## MOTORIZED SHEARS


SMT BV  
SMT BVH  
SMT NC  
SMT NCH



### SMT

- Smallest 3-meter motorized squaring shear
- For thin sheets to strong materials
- Saves energy, space and time


MSB BV  
MSB BVH  
MSB NC  
MSB NCH



### MSB

- Small size of SMT with much more power
- Even more performance in single-user operation
- The powerful and cost-effective choice

MSC BV  
MSC BVH  
MSC NC  
MSC NCH



### MSC


- The pro for thin sheets and exterior work
- Two motors, equal power distribution
- High efficiency, min. energy consumption

## SHEARS FOR CUT-TO-LENGTH LINE SYSTEMS



### MT

- Integrated automatic shearing system
- For continuous operation in the production process
- Individually adaptable, minimal maintenance



### ST

- Shearing system with best configurability
- Integration into serial production equipment
- For many other materials besides sheet metals

## MODULAR COIL-HANDLING



### MCH

- Metal sheets are always available
- Modular design
- Customizable

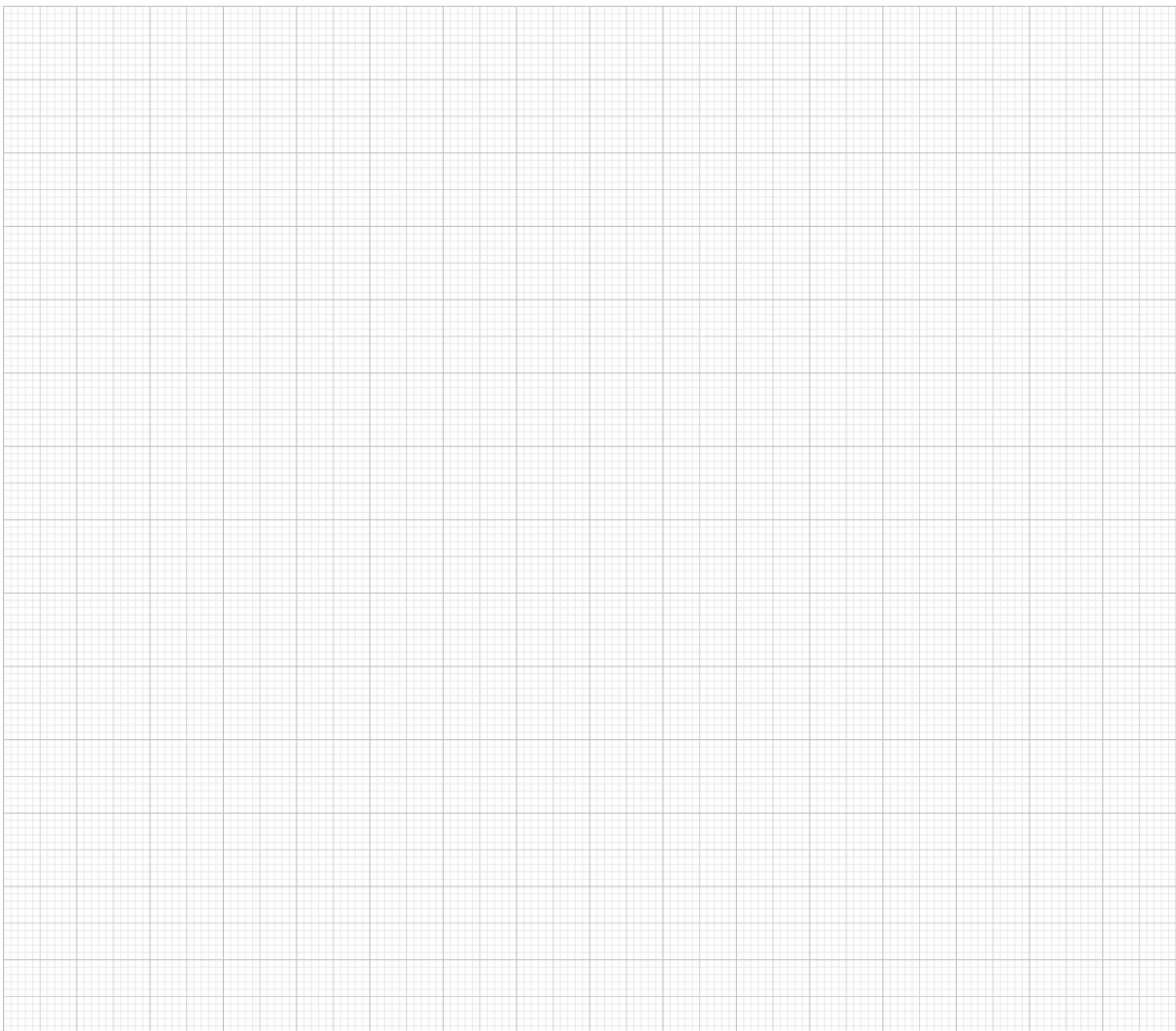
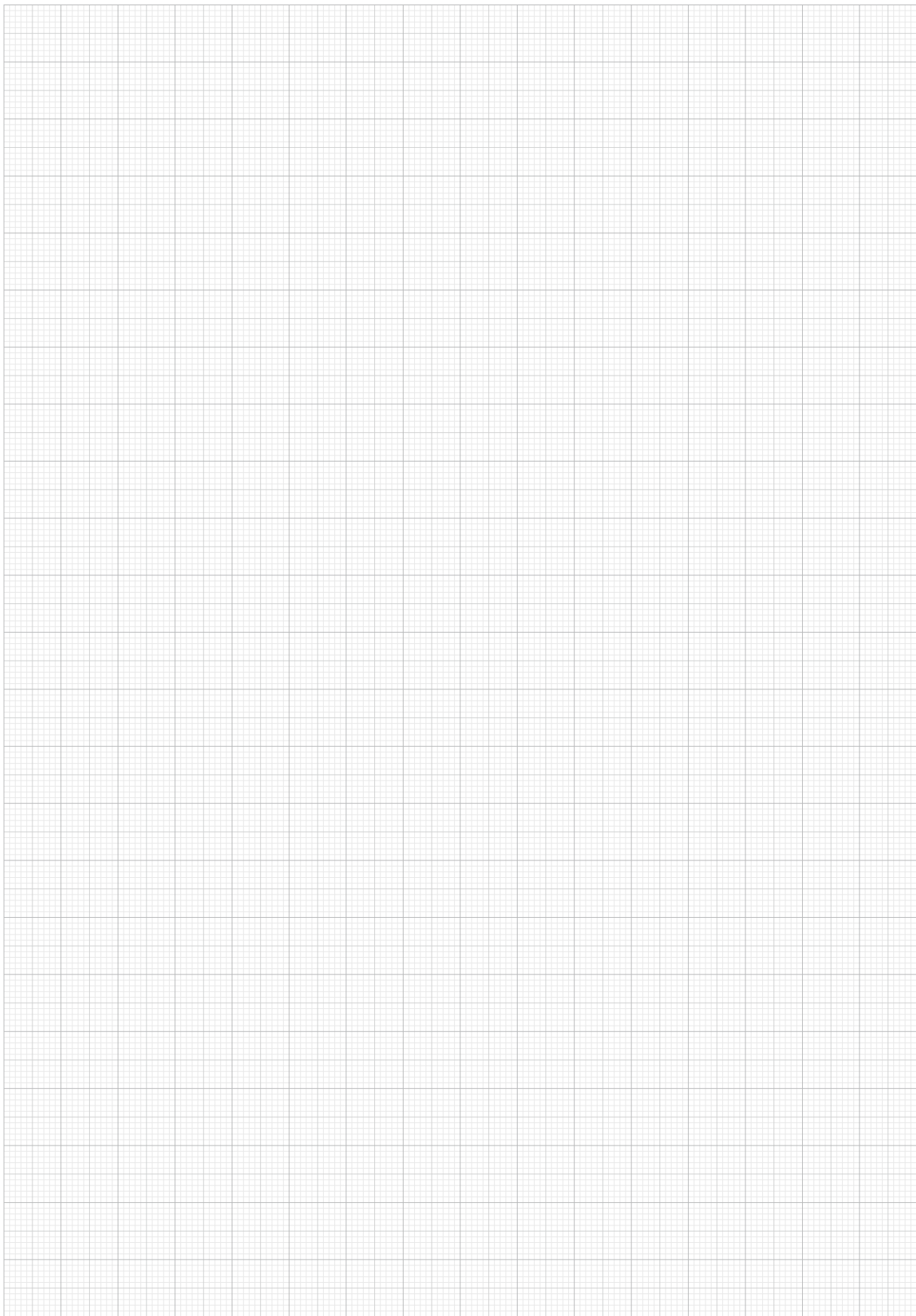
## PROFILING MACHINES



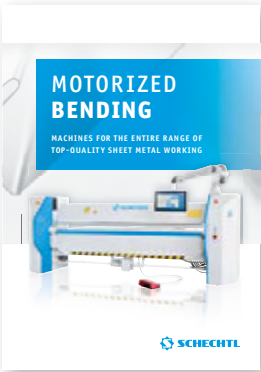
### SZP

- Extra-long and very solid in ventilation work
- Straight-line profiling without distortion
- High operating cycle speed





FURTHER PRODUCTINFORMATION







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