

# MOTORIZED BENDING

MACHINES FOR THE ENTIRE RANGE OF  
TOP-QUALITY SHEET METAL WORKING



# WE TRULY GO THE DISTANCE TO HELP YOU GET AHEAD

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 from 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 profiles.

Founded in 1910 as a simple blacksmith shop 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 metal sheets.

## 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.

## 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.



Maria Schechtl  
President



# PRODUCT FINDER

THE RIGHT COMBINATION OF WORKING LENGTH, BENDING CAPACITY AND CONTROL SYSTEM TYPE WILL HELP YOU FIND THE APPROPRIATE MACHINE.

## 1. WHAT MATERIAL TYPES AND THICKNESSES DO YOU MOSTLY PROCESS?

## 2. WHAT SHEET LENGTHS DO YOU MAINLY WORK WITH?

## 3. HOW MANY OF YOUR PROCESS STEPS DO YOU WANT TO AUTOMATE?

## 4. WHAT IS YOUR PRODUCTION FOCUSED ON?

- Sheet metal jobs requiring more than manual bending  
...→ go smart and get motorized: **MBM** (p. 4 - 5)
- Extensive sheet metal jobs for roofs and exteriors  
...→ we offer two solid efficiency packages: **MAX + MAB** (p. 8 - 9)
- Complex profiles and more industrially oriented work  
...→ here you'll find your powerful speedmasters: **MAZ + MAE** (p. 12 - 13)

Machine type	MBM			MAX			MAB			MAZ			MAE		
	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>	Steel 400 N/mm <sup>2</sup>	Aluminum 250 N/mm <sup>2</sup>	Stainless steel 600 N/mm <sup>2</sup>
Working length															
1040				3.50	5.00	2.00	4.00	5.00	2.50						
1540				3.00	4.50	2.00	3.50	5.00	2.25						
2040				2.50	4.00	1.50	3.00	4.50	2.00	3.50	5.50	2.25	4.00	6.00	2.50
2540				2.00	3.00	1.25	2.50	3.50	1.50	3.00	4.50	2.00	3.50	5.00	2.25
3100	1.00	1.50	0.80	1.50	2.00	1.00	2.00	3.00	1.25	2.50	4.00	1.50	3.00	4.50	2.00
4040				1.00	1.50	0.60	1.50	2.00	1.00	1.75	2.50	1.00	2.00	3.00	1.25
Control systems	ECT			STD	EC	ECT	CNC S-TOUCH		CNC S-TOUCH						

### STD STD CONTROL

standard function

- electronic adjustment for 1 bending angle via potentiometer

### ECT ECT CONTROL


save profile sets in tables and repeat bending sequences with precision

- includes control of motorized backgauge
- optionally available without motorized backgauge (EC)

### CNC S-TOUCH CNC S-TOUCH

full control of bending result and work processes

- visual control of all bending sequences and machine functions
- intuitive profile-drawing on the touch-sensitive graphics monitor
- optional upgrade for mobile data transmission: **S-Touch Mobile**

 Important to note when making your decision: Your choice of control system does not affect the model's bending performance.

# GO SMART AND GET MOTORIZED!

WHERE MANUAL BENDING MACHINES REACH THEIR LIMITS, THE **MBM 310 ECT** PROVIDES A HUGE INCREASE IN FUNCTIONALITY AND EFFICIENCY.

## MORE PRECISION. MORE TIME SAVED. MORE CONVENIENCE.

- work more professionally – produce entire profiles in one operation and repeat the process with precision at any time
- retrievable output values – continuous precision: thin-sheet processing for small batch production and recurring single-piece production
- efficient operability – single-user operation and monitor control make production conveniently simple

The ability to design profiles on a monitor offers full control of the machine functions and bending results.

Storing profiles electronically does away with paper documentation. The organized display of profile data in table format allows even complex profiles to be easily reproduced.

Simply load the profile data on the monitor and you're ready to go. The **MBM 310 ECT** is your easy-to-use workhorse for consistently accurate bending results and high efficiency.

## BENEFITS

### AREAS OF APPLICATION

Thin-sheet processing for steel up to 1 mm thick, small batch and recurring single-piece production.

### VERY EASY TO OPERATE

- designed for smooth and efficient one-man operation
- produce an entire profile in less time with just one cycle
- easy-to-understand visual user guidance
- low training time and consistently high bend quality, even for varying operating personnel
- manually adjustable crowning – configure bending precision for material strength and thickness

### DURABLE MACHINE VALUE

- wear-free and maintenance-free direct eccentric drive (no gear wheels, no chains)
- soft start of bending beam and backgauge
- space-saving design and Schechtl's sturdy, proven welded construction with optimally sized beam elements

## TECHNICAL FEATURES

### MACHINE DATA

- working length of 3100 mm
- capacity
  - 1.00 mm steel (400 N/mm<sup>2</sup>)
  - 1.50 mm aluminum (250 N/mm<sup>2</sup>)
  - 0.80 mm VA (600 N/mm<sup>2</sup>)
- easy-to-operate manual lowering of the bending beam
- adjustable crowning for maximal bending precision
- opening height of 130 mm
- considerable space at the clamping beam
- manual crowning of the bending beam
- space-saving location of electrical cabinet under the backgauge

### BACKGAUGE

- motorized backgauge 6 - 750 mm
- 3/10 mm precision
- 6 backgauge fingers with safety device

## CONTROL SYSTEM

### ACCURATE REPRODUCIBILITY OF PROFILE QUALITY

- saving profile data and bending sequences in organized tables expedites planning and the manufacturing process
- profile data and bending sequences available at any time: save once, retrieve as often as you like
- copy and individually customize profile sets for new orders

- **ECT** – the most affordable option for switching to electronically controlled profile manufacturing
- decreased setup time – frees up valuable time for production
- inputs for bending angle, backgauge measure, lifting height, hemming and cut
- space for 250 saved profile sets
- 36 bending angles can be saved for each profile set

**MBM 310 ECT** is available with the following control system:

**ECT CONTROL**  
save profile sets and repeat bending sequences with precision

Control system details on p.15

# MBM 310 ECT

Bending beam adjustment



Opening height of 130 mm



Space-saving electrical cabinet location



Motorized backgauge



RSL Roller Shear



# THERE'S WORK TO BE DONE ON ROOFS AND EXTERIORS

MBM, MAX AND MAB ARE MADE FOR THE JOB. MAKING SURE YOU'RE ALWAYS ON TOP.

*Traditional seamed profiles on church roof in tip top shape*



*The chimney cap will look great! The chimney sweep's going to be happy...*



*Perfectly fitting gutters for those days when it's pouring buckets*



*Too bad something this beautiful can only be seen from above*



MBM



MAX



MAB



# TWO EFFICIENCY PACKAGES FOR ROOFS AND EXTERIORS

TWO TRUE EFFICIENCY PACKAGES. **MAX** AND **MAB** ARE IN THE ELITE CLASS OF MOTORIZED BENDING MACHINES, MAKING SURE YOU'RE ALWAYS AT THE FOREFRONT.

## STRONG. FAST. EXTREMELY EFFICIENT.

- two classic long-distance specialists offering decades of endurance and a high return on investment
- extremely productive, will tackle any metalworking challenge with speed and precision
- deliver reliably perfect results on roofs and exteriors for all typical sheet thicknesses

**MAX** and **MAB** are favorites among sheet metal workers and exterior contractors. This duo can handle a majority of all demands for sheet metal bending. A smart choice for guaranteed long-term success.

## BENEFITS

### MORE ORDERS IN LESS TIME

- strong performance under various single-piece production specifications
- ideal for heavy workloads, investment pays for itself quickly

### A LITTLE OIL EVERY NOW AND THEN DOES THE TRICK

- minimal maintenance work required, mechanical direct drive with no hydraulic components
- totally wear-free bending beam and adjustable clamping beam

### EXTREMELY EASY OPERATION

- incredibly simple startup: Set it up, plug it in, and you're on your way!
- single-user operation results in real time savings
- movable foot switch is always in the right position
- bending beam's soft start protects valuable surfaces

## TECHNICAL FEATURES

### GETS TOP MARKS FOR PERFORMANCE AND SPEED

- offers very high bending capacity while keeping energy costs low
- impressively short bending times thanks to an incredible swivel speed of 80°/s and a 50 mm/s opening speed for the clamping beam
- faster bending process: if bending angle is less than 90°, the clamping beam opens simultaneously
- high degree of production for sheet profiles on machines with control system and motorized backgauge

### DUAL ECCENTRIC SETS THE STANDARD FOR STABILITY AND BENDING PERFORMANCE

- stable drive thanks to the solid welded construction and highly rigid beam components
- **MAX**: bends sheet steel thicknesses up to 1.5 mm (at 3100 mm)
- **MAB**: bends aluminum thicknesses up to 3 mm (at 3100 mm)

## CONTROL SYSTEM

### VERSATILITY IN EVERY CONTROL SYSTEM

- **CNC S-Touch**: high-resolution touch-sensitive color display, intuitive profile creation with profile-drawing, sizing, and bending-sequence setting all by fingertip, includes control of all machine functions
- optional: data transmission from **S-Touch Mobile** – receive and store bending profiles directly from the job site
- **ECT**: save and retrieve profile sets in tables, includes direct control of the motorized backgauge
- **EC**: optional version without motorized backgauge
- **STD** Control: adjustment of 1 bending angle via potentiometer

**MAX** and **MAB** are available with the following control systems:

**CNC S-TOUCH**  
full control of bending results and work processes

**S-TOUCH MOBILE**  
optional: create and save bending profiles directly at the job site

**ECT**  
save profile sets in tables and repeat bending sequences with precision

**EC**  
without motorized backgauge

**STD**  
adjustment of 1 bending angle via potentiometer

Control system details on p.14-15

# MAX POWER



# MAB MORE POWER



# PRESERVE THE TRADITIONAL, CREATE THE INNOVATIVE

MAZ AND MAE, YOUR FIRST CHOICE FOR COMPLEX DEMANDS  
IN LIGHT METAL AND EXTERIOR CONSTRUCTION.

*Precision wall covers  
are the best way to  
protect traditional and  
modern accents*

*Top-notch craftsmanship:  
With this exterior, the master  
outshines the competition*

*Metalworkers love  
reproducing the best  
parts in series*

*Real beauty is  
on the outside...  
the metalworker  
makes it possible*

**MAZ**



**MAE**



# LIGHTNING-FAST SPEED. OUTSTANDING POWER. MAXIMUM VERSATILITY.

**MAZ** AND **MAE** STAND FOR PEAK PERFORMANCE  
IN TWO PROVEN CONSTRUCTION AREAS.

## INCREDIBLE PRODUCTIVITY WITH DIFFERENT TOOL SYSTEMS

- the team with exceptional versatility to meet the challenge of variable customer needs
- focused on three fundamental strengths: increasing versatility – enhancing the performance range – expediting order flows
- two powerful machines with a compact design deliver top results, reliably and at a series-production pace

With their individual performance classes, **MAZ** and **MAE** are the ideal equipment to handle particularly high-end jobs in your production lineup.

## ECCENTRIC DRIVE

The **MAZ** is the most powerful and versatile machine in our lineup of eccentric-drive machines.

## SPINDLE DRIVE

With its powerful spindle drive, only the **MAE** offers greater performance.

## BENEFITS

### MAIN AREAS OF APPLICATION

- industrially oriented metalworking trade
- specific, complex requirements in light metal and exterior construction
- series and contract production

### TOP MARKS FOR VERSATILITY, CONVENIENCE AND EFFICIENCY

- the most versatile and efficient motorized bending machines in their classes
- easy retrofitting of special tools at any time for individual customer specifications and that with just one operator
- adjustment-free material changes, automatic configuration of sheet thickness saves time
- minimal setup times expedite the flow of orders

## TECHNICAL FEATURES

### SETTING THE STANDARD FOR PRECISION AND BEND QUALITY

- extremely fast bending process thanks to dynamic method using 5 machine positions
- Click System comes standard, use for individual tool mounts
- optional tool-free changeover to segment-bending for box and pan shapes
- high stability with clamping beam driven from both sides
- consistent bending precision across the entire workpiece length, even for thick sheets
- solid, wear-free welded construction ensures machine durability, even under continuously high loads

## CONTROL SYSTEM

### INTUITIVE PROFILE CREATION WITH CNC S-TOUCH

- touch to create: profile-drawing by fingertip on the touch-sensitive monitor
- dimension and sequence profiles in record time
- control of all machine functions with precision reproducibility
- dynamic control of up to 5 axes enables high order throughput
- optional mobile upgrade: data transmission from **S-Touch Mobile**, receive and store bending profiles directly from the job site

**MAZ** and **MAE** are available with the following control systems:

CNC  
S-TOUCH

### CNC S-TOUCH

full control of bending results and work processes

S-TOUCH  
MOBILE

### S-TOUCH MOBILE

optional: Create and save bending profiles directly at the job site

Control system details on p. 14

# MAZ

ECCENTRIC




# MAE

SPINDLE



# CONTROL SYSTEMS

HOW MANY OF YOUR PROCESS STEPS DO YOU WANT TO AUTOMATE?  
YOUR NEED FOR VERSATILITY AND PRECISION  
DETERMINES YOUR DEGREE OF CONTROL CONVENIENCE.

 Important to note when making your decision: Your choice of control system does not affect the model's bending performance.

CNC  
S-TOUCH

## CNC S-TOUCH



### INTUITIVE. EASY. FASTER. FROM PROFILE CONCEPT TO BENDING PRECISION IN RECORD TIME

- convenient production computer: draw and implement complex bending sequences with your fingertips
- virtual laboratory: develop, test, and correct profile ideas intuitively, without using a single workpiece
- electronic notebook: document and save conceptual drawings on the fly and retrieve at any time

### TOUCH TO CREATE – HARD TO BELIEVE HOW REVOLUTIONARY THE SPEED AND SIMPLICITY ARE!

Creating new profiles with **CNC S-Touch** is easier than using a smartphone. There are only two requirements: your conceptual drawing of the finished profile and a fingertip.

**STEP 1** Draw your profile sketch on the touch-sensitive monitor using your fingertip; don't worry about exact lengths or angles yet.

**STEP 2** Now size the exact lengths and radii. You can specify the bend sequencing with the simple tap of a finger.

**STEP 3** Test the bending sequence without using a single workpiece. On the monitor, you'll see your profile concept turn into bending precision. If everything looks good, you can begin production.

**START** That's it, you're ready to go! **CNC S-Touch** automatically recognizes how to rotate, flip, and reset the workpiece and also what tools are required.

### CNC S-TOUCH – COMPATIBLE WITH MOBILE STANDARDS

- data transfer via WLAN and UMTS from **S-Touch Mobile**
- receive electronic profile sketches directly from the job site; then save, retrieve and begin production
- data transfer via LAN, USB and e-mail

S-TOUCH  
MOBILE

## S-TOUCH MOBILE



### THE "ELECTRONIC NOTEBOOK" FOR YOUR JOB SITES, AN OPTIONAL MOBILE SOFTWARE UPGRADE FOR CNC S-TOUCH

- revolutionizes the path from on-site measuring to ordering
- ensures quality of profile drawings and on-site measurements
- sends profile drawings directly to the machine from the job site in a matter of seconds; sketches are loaded using **CNC S-Touch**
- keeping profile data organized according to orders saves significant time during production

### PRODUCTION STARTS QUICKER THAN YOU CAN MAKE IT BACK TO THE OFFICE

**S-Touch Mobile** offers valuable increases in precision, dependability and efficiency.

### "TOUCH TO CREATE" AT THE JOB SITE

Draw your sketch using your fingertip, enter lengths and angles, add data on the materials. Do it all on a tablet computer.

### "SEND TO CREATE" FROM THE JOB SITE

Save the profile order and send it directly to the **CNC machine** with the tap of a finger. A matter of mere seconds.

### "TOUCH TO CREATE" ON THE SHOP FLOOR

Retrieve the edge profile right on the **CNC machine**. Enter bending sequence. That's it, start the job!

ECT

## ECT CONTROL



### DECREASED SETUP TIME – FREES UP VALUABLE TIME FOR PRODUCTION

- ideal for small batch and recurring single-piece production in the metalworking trade
- saving and loading the profile data in tables speeds up the production process

- greater bending precision and convenience through control of the motorized backgauge
- save the profile data once and it's available any time
- copy completed profile sets and individually customize for new orders

### THE MOST AFFORDABLE OPTION FOR SWITCHING TO ELECTRONICALLY CONTROLLED PROFILE MANUFACTURING.

- touch display, 7.5" color monitor
- space for 250 saved profile sets
- 36 bending angles can be saved for each profile set
- profile name can be assigned individually (in letters and numbers)
- copy function for profile sets
- input of bending angle, lifting height of clamping beam after bending and hemming
- rotate + flip function
- movable foot switch serves as an operating element

EC

## EC CONTROL

### OPTIONAL VERSION WITHOUT CONTROL OF MOTORIZED BACKGAUGE

- ideal for smaller metalworking jobs
- maintenance/repairs and occasional small batch production
- all of the **ECT** functions except for the backgauge

STD

## STD CONTROL



### FOR SIMPLE BENDING JOBS IN THE METALWORKING SHOP

- adjustable support rack for easy positioning of large-sized metal plates
- movable foot switch serves as an operating element for convenient one-man operation



# ACCESSORIES

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



## 1 EXTENDED MOTORIZED BACKGAUGE



- for processing large-sized sheets in single-piece and series production
- for **CNC controlled** production
- pneumatic version for faster positioning of support fingers

## 2 TAPER GAUGE FINGERS FOR MOTORIZED BACKGAUGE

- easy positioning for taper bends

## 3 BRUSH OR BALL-ROLLER REST FOR MOTORIZED BACKGAUGE

- protection for sensitive material surfaces
- gentle handling of workpieces
- prevents scratches and streaks

## 4 MANUAL BACKGAUGE



- for easy positioning of sheets
- used in connection with **STD Control**
- replaces the support tray

## 5 RSL ROLLER SHEAR FOR MOTORIZED MACHINES



- simple and space-saving technology for cutting sheets directly on the machine
- maximum cutting capacity: 0.8 mm steel

## 6 MANUAL CROWNING SYSTEM OF THE BENDING BEAM



- crowning can be adjusted manually by the operator
- bending precision adjustable based on thickness and type of material

## 7 SEGMENTED TOOL RAIL



- easiest way to bend boxes and cases
- **CLICK System**: insert, position, and change bending segments quickly and without any tools
- segments can be used across the entire working length, segments with small partitions and corner segments

## 8 BENDING BEAM ADJUSTMENT



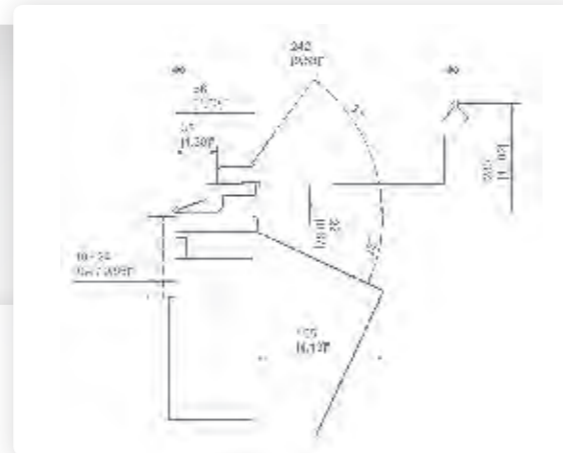
- the manual bending beam lowering function is quick and easy to use and comes standard on **MAX, MAB, MAZ, and MAE**
- with the optional motorized version, you get quicker bending processes and greater precision

	MBM	MAX + MAB												MAZ				MAE															
		ECT	STD						EC						CNC S-Touch						CNC S-Touch												
			310	100	150	200	250	310	400	100	150	200	250	310	400	100	150	200	250	310	400	200	250	310	400	200	250	310	400				
Eccentric drive																																	
Spindle drive																																	
<b>CLICK System</b>																																	
Roller shear, type RS																																	
5 Roller shear, type RSL																																	
8 MBA motorized bending beam adjustment																																	
6 VSP manual crowning system for bending beam, only available on <b>MAB, MAZ + MAE</b>										MAB	MAB	MAB	MAB		MAB	MAB	MAB	MAB		MAB	MAB	MAB	MAB										
MSA multistage backgauge																																	
4 Manual backgauge, 500 mm																																	
Manual backgauge, 750 mm																																	
Manual backgauge, 500 mm with support grid & swiveling fingers																																	
Manual backgauge, 750 mm with support grid & swiveling fingers																																	
2 taper gauge fingers																																	
Sharp rail 20°, r=1 mm																																	
Sharp rail 20°, r=1 mm, offset, <b>CLICK System</b>																									C	C	C	C	C	C	C	C	
Sharp rail 45°																																	
Sharp rail 45°, offset, <b>CLICK System</b>																										C	C	C	C	C	C	C	C
Sharp rail 20°, r=2 mm																																	
Sharp rail 20°, r=2 mm, offset, <b>CLICK System</b>																										C	C	C	C	C	C	C	C
Round rail, r=1.5/2/2.5/3/4/5/6/7/8/9/10/11/12 mm, <b>CLICK system</b>																										C	C	C	C	C	C	C	C
Round rail, narrow, offset, r=2/3/4/5/6/7/8/9/10/11/12 mm, <b>CLICK System</b>																										C	C	C	C	C	C	C	C
Round rail, wide, offset, r=2/3/4/5/6/7/8/9/10/11/12 mm, <b>CLICK System</b>																										C	C	C	C	C	C	C	C
Insert rail 68/10																																	
Insert rail 68/14																																	
Insert rail 68/24																																	
Flat rail 68/24																																	
Angled rail 85°, <b>CLICK System</b>																											C	C	C	C	C	C	C
7 Segmented tool rail, 55 mm, w/ support rail																																	
Segmented tool rail, 93 mm, w/ support rail																																	
Support rail for clamping beam <b>CLICK System</b>																																	
Segmented tool rail, 107 mm, Click VF																																	
Segmented tool rail, 107 mm, Click HF																																	
Segmented tool rail, 157 mm, Click VF																																	
Segmented tool rail, 157 mm, Click HF																																	
Second foot switch for two-man operation																																	
1 Extended motorized backgauge w/o pneumatics, up to 2 m																																	
Extended motorized backgauge w pneumatics, up to 2 m																																	
Extended motorized backgauge as multistage stop, up to 4 m																																	
Split bending beam																																	
Split lower beam																																	
3 Brush or ball-roller rest for backgauge																																	

■ = standard ■ = optional C = only with Click System MAB = only possible for MAB ■ = only available on original equipment

# TECHNICAL DATA

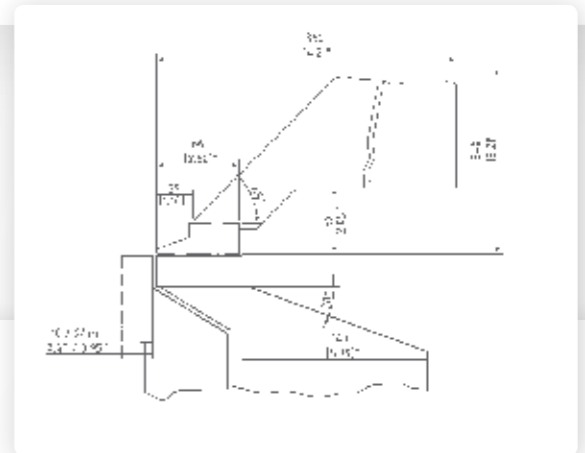
PERFORMANCE, DIMENSIONS AND WEIGHT.  
SECTIONAL DRAWINGS FOR BEAM ELEMENTS.



## MBM

### ECT CONTROL

Model		310
Working length	mm	3,100
Bending capacity		
Steel 400 N/mm <sup>2</sup>	mm	1.00
Aluminum 250 N/mm <sup>2</sup>	mm	1.50
VA 600 N/mm <sup>2</sup>	mm	0.80
Bending beam motor power rating	kW	0.55
Clamping beam motor power rating	kW	0.22 / 0.4
Max. opening height	mm	130
Max. clamping beam speed	mm/s	5.7
Max. bending beam speed	°/s	95
Overall dimensions		
Length	mm	3,862
Width with 750 mm motorized backgauge	mm	1,579
Working height	mm	900
Total height	mm	1,747
Weight	kg	1,550



## MAX

Model		100	150	200	250	310	400
Working length	mm	1,040	1,540	2,040	2,540	3,100	4,040
Bending capacity							
Steel 400 N/mm <sup>2</sup>	mm	3.50	3.00	2.50	2.00	1.50	1.00
Aluminum 250 N/mm <sup>2</sup>	mm	5.00	4.50	4.00	3.00	2.00	1.50
VA 600 N/mm <sup>2</sup>	mm	2.00	2.00	1.50	1.25	1.00	0.60
Bending beam motor power rating	kW	1.1	1.1	1.1	1.1	1.1	1.1
Clamping beam motor power rating	kW	0.75	0.75	0.75	0.75	0.75	0.75
Max. opening height	mm	140	140	140	140	140	140
Max. bending beam speed	°/s	70	70	70	70	70	70

### STD CONTROL

Overall dimensions: Length	mm	1,923	2,423	2,923	3,423	3,983	4,923
Width	mm	663	663	663	663	663	663
Width with 500 mm manual backgauge	mm	956	956	956	956	956	956
Working height	mm	845	845	845	845	845	845
Total height	mm	1,193	1,193	1,193	1,193	1,193	1,193
Weight	kg	1,550	1,740	1,940	2,135	2,325	2,700

### EC, ECT CONTROL

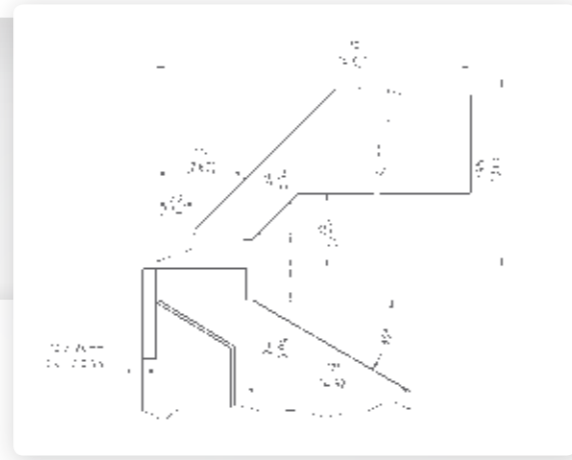
Overall dimensions: Length	mm	1,942	2,442	2,942	3,442	4,002	4,942
Width	mm	760	760	760	760	760	760
Width with 750 mm motorized backgauge	mm	1,588	1,588	1,588	1,588	1,588	1,588
Working height	mm	860	860	860	860	860	860
Total height	mm	1,260	1,260	1,260	1,260	1,260	1,260
Weight	kg	1,618	1,823	2,030	2,235	2,465	2,850

### CNC S-TOUCH CONTROL

Overall dimensions: Length	mm	2,000	2,500	3,000	3,500	4,050	5,000
Width with 1,000 mm motorized backgauge	mm	1,903	1,903	1,903	1,903	1,903	1,903
Working height	mm	860	860	860	860	860	860
Total height	mm	1,674	1,674	1,674	1,674	1,674	1,674
Weight	kg	1,618	1,823	2,030	2,235	2,465	2,850

# TECHNICAL DATA

PERFORMANCE, DIMENSIONS AND WEIGHT.  
SECTIONAL DRAWINGS FOR BEAM ELEMENTS.



## MAB

Model		100	150	200	250	310	400
Working length	mm	1,040	1,540	2,040	2,540	3,100	4,040
Bending capacity							
Steel 400 N/mm <sup>2</sup>	mm	4.00	3.50	3.00	2.50	2.00	1.50
Aluminum 250 N/mm <sup>2</sup>	mm	5.00	5.00	4.50	3.50	3.00	2.00
VA 600 N/mm <sup>2</sup>	mm	2.50	2.25	2.00	1.50	1.25	1.00
Bending beam motor power rating	kW	1.5	1.5	1.5	1.5	1.5	1.5
Clamping beam motor power rating	kW	1.1	1.1	1.1	1.1	1.1	1.1
Max. opening height	mm	140	140	140	140	140	140
Max. bending beam speed	°/s	70	70	70	70	70	70

### STD CONTROL

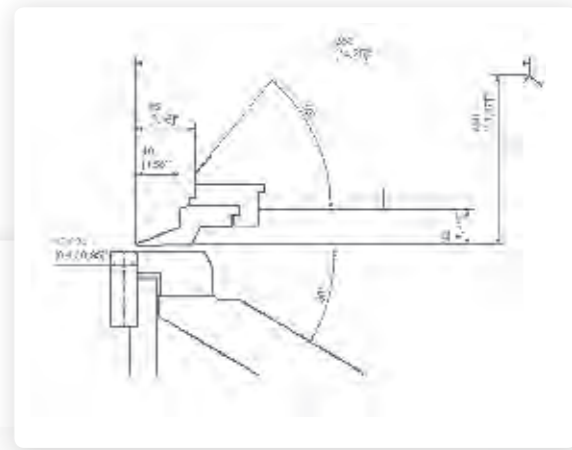
Overall dimensions: Length	mm	1,965	2,465	2,965	3,465	3,965	4,965
Width	mm	720	720	720	720	720	720
Width with 500 mm manual backgauge	mm	960	960	960	960	960	960
Working height	mm	900	900	900	900	900	900
Total height	mm	1,220	1,220	1,220	1,220	1,220	1,220
Weight	kg	2,160	2,450	2,730	3,020	3,310	3,950

### EC, ECT CONTROL

Overall dimensions: Length	mm	2,020	2,520	3,020	3,520	4,080	5,020
Width	mm	822	822	822	822	822	822
Width with 750 mm motorized backgauge	mm	1,633	1,633	1,633	1,633	1,633	1,633
Working height	mm	910	910	910	910	910	910
Total height	mm	1,300	1,300	1,300	1,300	1,300	1,300
Weight	kg	2,160	2,450	2,730	3,020	3,310	3,950

### CNC S-TOUCH

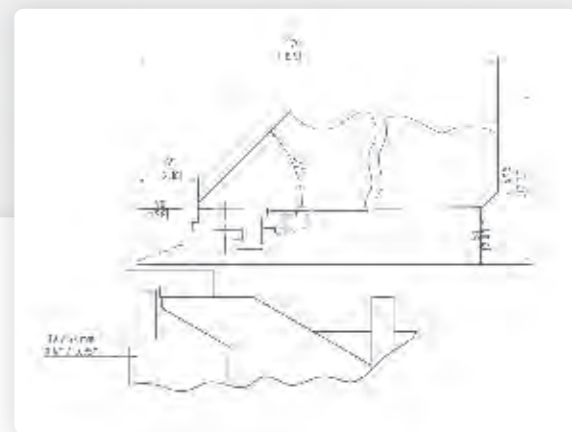
Overall dimensions: Length	mm	2,100	2,600	3,100	3,600	4,160	5,100
Width with 1,000 mm motorized backgauge	mm	1,810	1,810	1,810	1,810	1,810	1,810
Working height	mm	910	910	910	910	910	910
Total height	mm	1,750	1,750	1,750	1,750	1,750	1,750
Weight	kg	2,200	2,500	2,750	3,050	3,350	4,000



## MAZ

### CNC S-TOUCH CONTROL

Model		200	250	310	400
Working length	mm	2,040	2,540	3,100	4,040
Bending capacity					
Steel 400 N/mm <sup>2</sup>	mm	3.50	3.00	2.50	1.75
Aluminum 250 N/mm <sup>2</sup>	mm	5.00	4.00	3.50	2.50
VA 600 N/mm <sup>2</sup>	mm	2.25	2.25	1.50	1.00
Bending beam motor power rating	kW	2*2.2	2*2.2	2*2.2	2*2.2
Clamping beam motor power rating	kW	1.5	1.5	1.5	1.5
Power rating of motor for lowering of bending beam	kW	2*0.12	2*0.12	2*0.12	2*0.12
Max. opening height	mm	140	140	140	140
Max. opening height + spindle travel	mm	155	155	155	155
Max. clamping beam speed	mm/s	25	25	25	25
Max. bending beam speed	°/s	90	90	90	90
Overall dimensions: Length	mm	3,350	3,850	4,600	5,350
Width with 1000 mm motorized backgauge	mm	2,200	2,200	2,200	2,200
Working height	mm	925	925	925	925
Total height	mm	2,030	2,030	2,030	2,030
Weight	kg	3,200	3,350	3,750	4,700



## MAE

### CNC S-TOUCH CONTROL













Model		200	250	310	400
Working length	mm	2,040	2,540	3,100	4,040
Bending capacity					
Steel 400 N/mm <sup>2</sup>	mm	4.00	3.50	3.00	2.00
Aluminum 250 N/mm <sup>2</sup>	mm	5.50	4.50	4.00	3.00
VA 600 N/mm <sup>2</sup>	mm	2.25	2.00	2.00	1.25
Bending beam motor power rating	kW	2*1.5	2*1.5	2*1.5	2*1.5
Clamping beam motor power rating	kW	4	4	4	4
Power rating of motor for bending beam lowering	kW	2*0.12	2*0.12	2*0.12	2*0.12
Max. opening height	mm	225	225	225	225
Max. clamping beam speed	mm/s	20	20	20	20
Max. bending beam speed	°/s	70	70	70	70
Overall dimensions: Length	mm	3,190	3,690	4,250	5,190
Width with 1000 mm motorized backgauge	mm	1,790	1,790	1,790	1,790
Working height	mm	900	900	900	900
Total height	mm	1,560	1,560	1,560	1,560
Weight	kg	3,500	3,900	4,300	5,000

# LINEUP OF MACHINES

AS OF 03/2014

BENDING MACHINES AND SHEERS FOR THE ENTIRE RANGE OF TOP-QUALITY METALWORKING

## MANUAL BENDING MACHINES

 <p><b>TBX</b></p> <ul style="list-style-type: none"> <li>Single-user lightweight for the job site</li> <li>Max. portability, solid, ready to use in 2 min</li> <li>Unique X stand, foldable, on wheels</li> </ul>	 <p><b>LBT</b></p> <ul style="list-style-type: none"> <li>Construction convenience: bending, cutting, beading</li> <li>Portable, wheel locks, smooth-running</li> <li>Versatile options for clamping beam rail</li> </ul>	 <p><b>LBX</b></p> <ul style="list-style-type: none"> <li>Compact and powerful on-site bending</li> <li>Pretensioning for material type and thickness</li> <li>Optimal bending result across the working width</li> </ul>	 <p><b>BA</b></p> <ul style="list-style-type: none"> <li>The most powerful manual on-site model</li> <li>Universal use at the job site or on the shop floor</li> <li>Incredibly adaptable for special profiles</li> </ul>
 <p><b>TBS</b></p> <ul style="list-style-type: none"> <li>Smart segment-bending at the job site</li> <li>Tool-free adjustment, many fold shapes</li> <li>Unique X stand, light, max. portability</li> </ul>	 <p><b>UK</b></p> <ul style="list-style-type: none"> <li>Smart segment-bending, proven 10,000 times</li> <li>Combine elements without tools</li> <li>Foot pedal, frees up hands for positioning</li> </ul>	 <p><b>UKV</b></p> <ul style="list-style-type: none"> <li>Segment-bending even more powerful/versatile</li> <li>Fast and tool-free segment adjustment</li> <li>Hands stay free for precision positioning</li> </ul>	 <p><b>UKF</b></p> <ul style="list-style-type: none"> <li>Segment bending of large special forms</li> <li>Extra high standards for use – XXL freedom</li> <li>Maximum flexibility, highest comfort</li> </ul>
 <p><b>KS</b></p> <ul style="list-style-type: none"> <li>Incredibly versatile, fast, cost-effective</li> <li>Easy and convenient for creative profiles</li> <li>World's best-selling swivel bending machine</li> </ul>	 <p><b>KSV</b></p> <ul style="list-style-type: none"> <li>Award-winning, cost-effective, versatile</li> <li>Handles many materials and thicknesses</li> <li>Produces remarkable profiles</li> </ul>	 <p><b>HBM</b></p> <ul style="list-style-type: none"> <li>Special profiles only possible here</li> <li>Precise positioning of workpieces</li> <li>Simple lowering of bending beam</li> </ul>	 <p><b>HA</b></p> <ul style="list-style-type: none"> <li>Sturdy package for single-user operation</li> <li>Specially designed for thick sheets</li> <li>Ideal configuration for recurring bends</li> </ul>

## MOTORIZED BENDING MACHINES

<p>MAXI STD MAXI EC MAXI CNC S-Touch</p>  <p><b>MAXI</b></p> <ul style="list-style-type: none"> <li>Convenient motorized segment-bending</li> <li>Split segments: lower/clamping/bending beams</li> <li>Tool-free Click System saves time</li> </ul>	<p>MAXI STD MAXI EC MAXI CNC S-Touch</p>  <p><b>MBM ETC</b></p> <ul style="list-style-type: none"> <li>Smart move to motor and monitor system</li> <li>Precision reproduction of complex profiles</li> <li>Single-user operation, sturdy, time-efficient</li> </ul>	<p>MAXI STD MAXI EC MAXI CNC S-Touch</p>  <p><b>MAX</b></p> <ul style="list-style-type: none"> <li>Motorized model w/ best custom versatility</li> <li>Sturdy construction, high bending capacity</li> <li>The classic for 90% of all bending jobs</li> </ul>	<p>MAB STD MAB EC MAB ECT MAB CNC S-Touch</p>  <p><b>MAB</b></p> <ul style="list-style-type: none"> <li>More power than MAX, better performance</li> <li>Powerful machine for roofs and exteriors</li> <li>Sturdy construction, minimal maintenance</li> </ul>
 <p><b>MAZ CNC-S</b></p> <ul style="list-style-type: none"> <li>Best in series production and light metal</li> <li>Speed King: outstanding productivity</li> <li>Shortest setup times, rapid bending sequences</li> </ul>	 <p><b>MAE CNC-S</b></p> <ul style="list-style-type: none"> <li>Economical in the industrial trade</li> <li>Most adaptable changeover system / 1-click</li> <li>Minimal setup times, versatile, compact</li> </ul>		




## MANUAL SHEARS





**HT**

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

## MOTORIZED SHEARS

<p>SMT STD SMT BV SMT BVH SMT NC SMT NCH</p>  <p><b>SMT</b></p> <ul style="list-style-type: none"> <li>Smallest 3-meter motorized squaring shear</li> <li>For thin sheets to strong materials</li> <li>Saves energy, space and time</li> </ul>	<p>MSB STD MSB BV MSB BVH MSB NC MSB NCH</p>  <p><b>MSB</b></p> <ul style="list-style-type: none"> <li>Small size of SMT with much more power</li> <li>Even more performance in single-user operation</li> <li>The powerful and cost-effective choice</li> </ul>	<p>MSC BV MSC BVH MSC NC MSC NCH</p>  <p><b>MSC</b></p> <ul style="list-style-type: none"> <li>The pro for thin sheets and exterior work</li> <li>Two motors, equal power distribution</li> <li>High efficiency, min. energy consumption</li> </ul>
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## SHEARS FOR CUT-TO-LENGTH LINE SYSTEMS

 <p><b>MT</b></p> <ul style="list-style-type: none"> <li>Integrated automatic shearing system</li> <li>For continuous operation in the production process</li> <li>Individually adaptable, minimal maintenance</li> </ul>	 <p><b>ST</b></p> <ul style="list-style-type: none"> <li>Shearing system with best configurability</li> <li>Integration into serial production equipment</li> <li>For many other materials besides sheet metals</li> </ul>
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## PROFILING MACHINES



**SZP**

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



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