

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 Schechtel, 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, Schechtel 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.

Schechtel 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 Schechtel

Maria Schechtel
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. WHICH SHEET LENGTHS DO YOU MAINLY WANT TO PROCESS?

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 | | |
|-----------------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|------------------------------|
| Working length | Steel 400 N/mm² | Aluminum 250 N/mm² | Stainless steel 600 N/mm² | Steel 400 N/mm² | Aluminum 250 N/mm² | Stainless steel 600 N/mm² | Steel 400 N/mm² | Aluminum 250 N/mm² | Stainless steel 600 N/mm² | Steel 400 N/mm² | Aluminum 250 N/mm² | Stainless steel 600 N/mm² | Steel 400 N/mm² | Aluminum 250 N/mm² | Stainless steel 600 N/mm² |
| 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 | 1.00 | 1.50 | 0.60 | 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 | 0.60 | 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 | | | 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

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: PC offline software for creating and editing profiles on the PC

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** 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 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 2,540 mm and 3,100 mm
- capacity
1.00 mm steel (400 N/mm²)
1.50 mm aluminum (250 N/mm²)
0.60 mm VA (600 N/mm²)
- 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

The **MBM** is available with the following control system:

ECT

ECT CONTROL

save profile sets and repeat bending sequences with precision

Control system details on p. 14-15

MBM



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.

BENEFITS

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.

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 3,100 mm)
- **MAB**: bends aluminum thicknesses up to 3 mm (at 3,100 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: PC offline software for creating and editing profiles on the PC
- **ECT**: save and retrieve profile sets in tables, includes direct control of the motorized backgauge
- **STD** Control: adjustment of 1 bending angle via potentiometer

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

CNC S-TOUCH

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

ECT

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

STD

STD CONTROL
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: PC offline software for creating and editing profiles on the PC

The machines MAZ and MAE are available with the following control systems:

CNC
S-TOUCH

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

Control system details on p. 14-15

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 know: The choice of control system does not affect the bending capacity of the machine model.

CNC
S-TOUCH

CNC S-TOUCH



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

- convenient production center – 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.

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
- ideal for smaller metalworking jobs
- save the profile data once and it's available any time
- copy completed profile sets and individually customize for new orders

HARDWARE

- very clear and modern 10.4" display
- fast and precise stop with servo drive in back gauge
- dynamic movement of the axes due to new control of the drives

SOFTWARE

- Look&Feel as usual with the Schechtel S-Touch control
- simple input of profiles
- additional functions such as bending beam dwell time, Teach-In of the bending beam
- material, profile and tool management in the local database or network database
- possibility to exchange profiles between the Schechtel CNC and EC(T)
- extensive diagnostic options
- remote maintenance options (fast and easy to understand)

STD

STD CONTROL



FOR SIMPLY BENDING JOBS IN THE METALWORKING SHOP

- support rack (adjustable in depth) for easy positioning of large-sized metal sheets
- movable foot switch serves as an operating element for convenient single-user operation

S-TOUCH CONNECT DIGITALLY NETWORKED WORK PROCESSES

BENEFIT FROM THE DIGITALLY NETWORKED WORK PROCESSES FOR SHEET METAL WORKING AND THE MANAGEMENT OF YOUR PROJECTS

In the office. With PC software.

Project planning and order processing in every phase of work.

- ✓ Detailed simulation of profiles.
- ✓ Pre- and post-processing of profile data.

S-TOUCH PLAN

SEMA
SOFTWARE

CAD
software

Bendex

Data exchange:
Up- and downloads

Data exchange:
Up- and downloads

At the construction site.

Using mobile end devices.

Profile and order entry on-site.

- ✓ Enter and send the required file format on-site.

IT
smart
& digital

Bendex

Other
software solutions

Digital storage location.

Enter, change and save orders and profiles at the construction site, in the office or in the machine.

- ✓ Data always current
- ✓ The networked documentation synchronizes production with planning

S-TOUCH BOX

Company
server

Cloud
on the web

Data exchange:
Up- and downloads

On your machine. Third-party product.

Exchange of profile data possible between any manufacturers.

- ✓ Access to all profile data.
- ✓ Directly entered profiles are available for the entire S-TOUCH CONNECT

On your Schechtl machine. With S-TouchCNC 3.0 control system.

Innovative machine control system: Create profile and bending sequences on the machine using the touch screen.

- ✓ Direct acquisition of profiles from planning, resulting in quicker production without sources of error

S-TOUCH CNC

PLANNING

MANAGEMENT

PRODUCTION.

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 BACK GAUGE
WITH SWIVELING
FINGERS & SUPPORT GRID



- 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
WITH CLICK SYSTEM



- 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



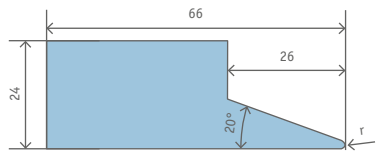
- the manual bending beam lowering function is quick and easy to use and comes standard on **MAX, MAB, MAZ,** and **MAE**
- with the optional motorized version, you get quicker bending processes and greater precision



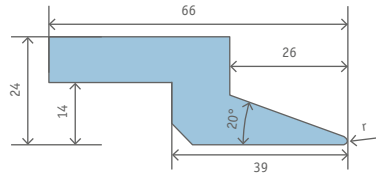
| | MBM | MAX + MAB | | | | | | | | | | | | MAZ | | | | MAE | | | |
|---|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-------------|-----|-----|-----|
| | | STD | | | | | | | | ECT | | | | CNC S-Touch | | | | CNC S-Touch | | | |
| | | 250 | 310 | 100 | 150 | 200 | 250 | 310 | 400 | 100 | 150 | 200 | 250 | 310 | 400 | 100 | 150 | 200 | 250 | 310 | 400 |
| Eccentric drive | | | | | | | | | | | | | | | | | | | | | |
| Spindle drive | | | | | | | | | | | | | | | | | | | | | |
| Click System | | | | | | | | | | | | | | | | | | | | | |
| 5 Roller shear, type RSL | | | | | | | | | | | | | | | | | | | | | |
| 8 MBA motorized bending beam adjustment | | | | | | | | | | | | | | | | | | | | | |
| 6 VSP manual crowning system for bending beam, only available on MAB, MAZ + MAE | | | | | | | | | | | | | | | | | | | | | |
| MSA multistage backgauge | | | | | | | | | | | | | | | | | | | | | |
| 4 Manual back gauge 750 mm with swiveling fingers & support grid | | | | | | | | | | | | | | | | | | | | | |
| 2 taper gauge fingers | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=1 mm | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=1 mm, offset | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=1,5 mm | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=1,5 mm, offset | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 45° | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 45°, offset | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=2 mm | | | | | | | | | | | | | | | | | | | | | |
| Sharp rail 20°, r=2 mm, offset | | | | | | | | | | | | | | | | | | | | | |
| Round rail, r=1.5/2/2.5/3/4/5/6/7/8/9/10/11/12 mm | | | | | | | | | | | | | | | | | | | | | |
| Round rail, wide, offset, r=2/3/4/5/6/7/8/9/10/11/12 mm | | | | | | | | | | | | | | | | | | | | | |
| Insert rail 68/10 | | | | | | | | | | | | | | | | | | | | | |
| Insert rail 68/14 | | | | | | | | | | | | | | | | | | | | | |
| Insert rail 68/24 | | | | | | | | | | | | | | | | | | | | | |
| Flat rail 68/24 | | | | | | | | | | | | | | | | | | | | | |
| Angled rail 85° | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 55 mm, w/ support rail | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 93 mm, w/ support rail | | | | | | | | | | | | | | | | | | | | | |
| 7 Support rail for clamping beam Click System | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 107 mm high, r=1,5 mm, Click System (offset in front) | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 107 mm high, r=1,5 mm, Click System (offset at back) | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 157 mm high, r=1,5 mm, Click System (offset in front) | | | | | | | | | | | | | | | | | | | | | |
| Segmented tool rail, 157 mm high, r=1,5 mm, Click System (offset at back) | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | |

PROFILE AND RETAINING CLAMP RAILS FOR MOTORIZED BENDING MACHINES

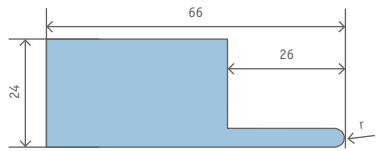
SHARP RAIL 66/24 20°



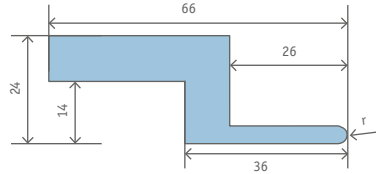
SHARP RAIL 66/24 20°, OFFSET



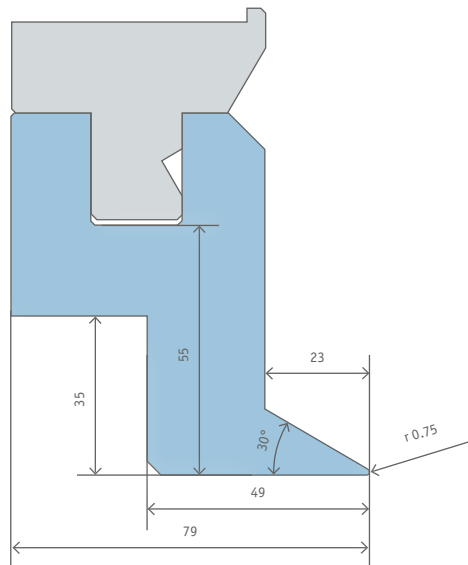
ROUND RAIL 66/24 R = 1.5 - 12



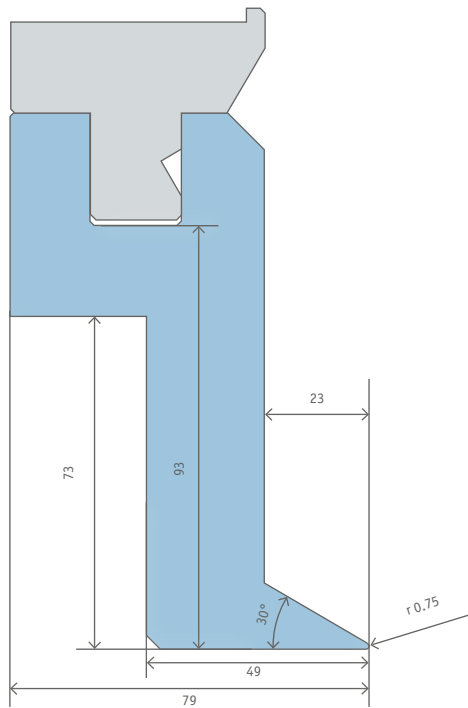
ROUND RAIL 66/24 WIDE, OFFSET



RETAINING CLAMP RAIL, 55 MM WITH SUPPORT RAIL

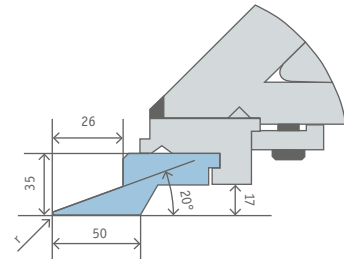


RETAINING CLAMP RAIL, 93 MM WITH SUPPORT RAIL

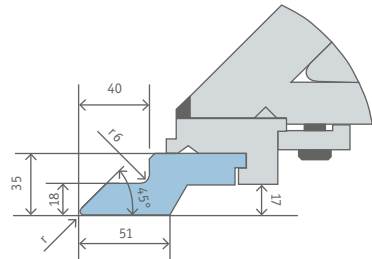


CLICK SYSTEM

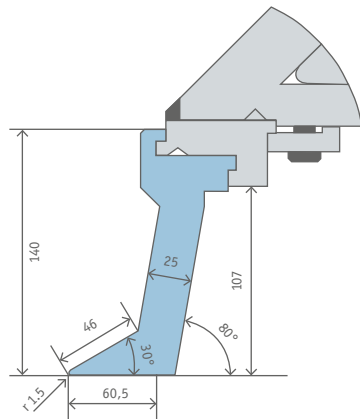
SHARP RAIL 20° R = 1 - 2 WITH CLICK SYSTEM



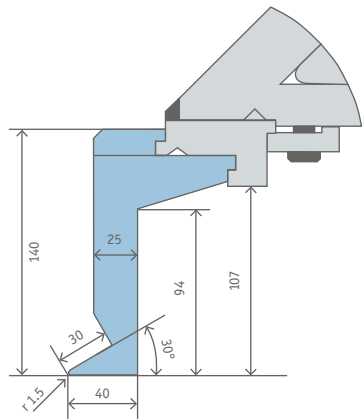
SHARP RAIL 45° R = 2 WITH CLICK SYSTEM



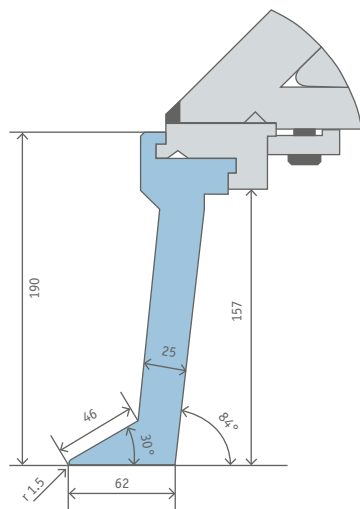
RETAINING CLAMP CLICK SYSTEM 107 MM, FREE AT FRONT



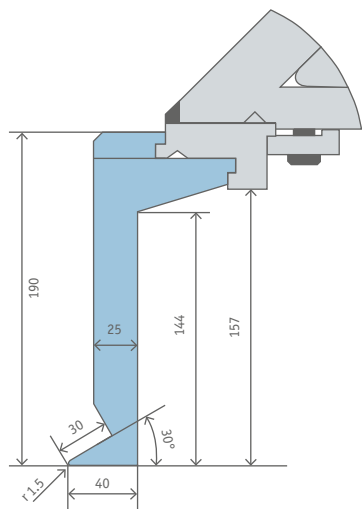
RETAINING CLAMP CLICK SYSTEM 107 MM, FREE AT REAR



RETAINING CLAMP CLICK SYSTEM 157 MM, FREE AT FRONT



RETAINING CLAMP CLICK SYSTEM 157 MM, FREE AT REAR



TECHNICAL DATA

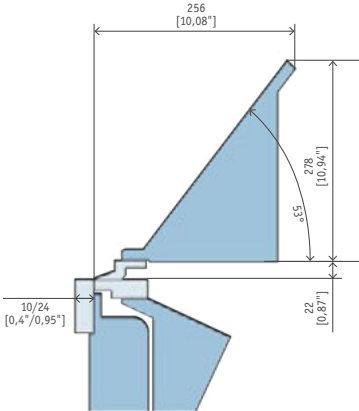
PERFORMANCE, DIMENSIONS AND WEIGHT.
SECTIONAL DRAWINGS FOR BEAM ELEMENTS.



MBM

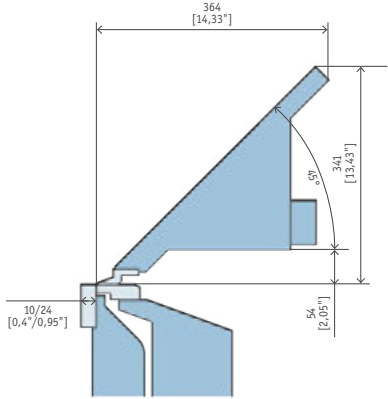
ECT CONTROL

| | | | |
|--|---------------|------------|-----------|
| Model | | 250 | 310 |
| Working length | mm | 2,500 | 3,100 |
| Bending capacity | | | |
| Steel 400 N/mm² | mm | 1.00 | 1.00 |
| Aluminum 250 N/mm² | mm | 1.50 | 1.50 |
| VA 600 N/mm² | mm | 0.60 | 0.60 |
| Bending beam motor power rating | kW | 0.55 | 0.55 |
| Clamping beam motor power rating | kW | 0.37 | 0.37 |
| Max. opening height | mm | 130 | 130 |
| Max. clamping beam speed | mm/s | 5.7 | 5.7 |
| Max. bending beam speed | °/s | 95 | 95 |
| Overall dimensions | | | |
| Length | mm | 3,325 | 3,825 |
| Width with 750 mm motorized backgauge | mm | 1,690 | 1,690 |
| Working height | mm | 931 | 931 |
| Total height | mm | 1,645 | 1,645 |
| Weight | kg | 1,700 | 1,860 |
| Connecting data | | | |
| Connecting load | kVA | 2.27 | 2.27 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | |
| Recommended RCD tripping current | mA | 30 | 30 |
| supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 |



MAX

| | | | | |
|----------------------------------|-----|-------|-------|-------|
| Model | | 250 | 310 | 400 |
| Working length | mm | 2,540 | 3,100 | 4,040 |
| Bending capacity | | | | |
| Steel 400 N/mm² | mm | 2.00 | 1.50 | 1.00 |
| Aluminum 250 N/mm² | mm | 3.00 | 2.00 | 1.50 |
| VA 600 N/mm² | mm | 1.25 | 1.00 | 0.60 |
| Bending beam motor power rating | kW | 1.1 | 1.1 | 1.1 |
| Clamping beam motor power rating | kW | 0.75 | 0.75 | 0.75 |
| Max. opening height | mm | 140 | 140 | 140 |
| Max. bending beam speed | °/s | 70 | 70 | 70 |



STD CONTROL

| | | | | |
|--|---------------|------------------|-----------|-----------|
| Overall dimensions: Length | mm | 3,423 | 3,983 | 4,923 |
| Width | mm | 663 | 663 | 663 |
| Width with 500 mm manual backgauge | mm | 956 | 956 | 956 |
| Working height | mm | 845 | 845 | 845 |
| Total height | mm | 1,193 | 1,193 | 1,193 |
| Weight | kg | 2,135 | 2,325 | 2,700 |
| Connecting data | | | | |
| Connecting load | kVA | 2.3 | 2.3 | 2.3 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 |
| Recommended RCD type | | no specification | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 |

ECT CONTROL

| | | | | |
|--|---------------|------------|-----------|-----------|
| Overall dimensions: Length | mm | 3,442 | 4,002 | 4,942 |
| Width | mm | 760 | 760 | 760 |
| Width with 750 mm motorized backgauge | mm | 1,588 | 1,588 | 1,588 |
| Working height | mm | 860 | 860 | 860 |
| Total height | mm | 1,260 | 1,260 | 1,260 |
| Weight | kg | 2,235 | 2,465 | 2,850 |
| Connecting data | | | | |
| Connecting load | kVA | 2.87 | 2.87 | 2.87 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 |

CNC S-TOUCH CONTROL

| | | | | |
|--|---------------|------------|-----------|-----------|
| Overall dimensions: Length | mm | 3,500 | 4,050 | 5,000 |
| Width with 1,000 mm motorized backgauge | mm | 1,903 | 1,903 | 1,903 |
| Working height | mm | 860 | 860 | 860 |
| Total height | mm | 1,674 | 1,674 | 1,674 |
| Weight | kg | 2,235 | 2,465 | 2,850 |
| Connecting data | | | | |
| Connecting load | kVA | 3.6 | 3.6 | 3.6 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 |

TECHNICAL DATA

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



MAB

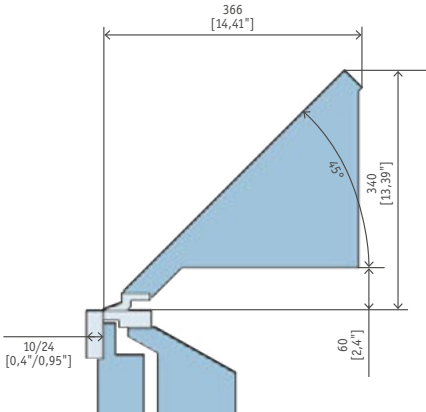
| | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|
| Model | | 100 | 150 | 200 | 250 | 310 | 400 |
| Working length | mm | 1,040 | 1,540 | 2,040 | 2,540 | 3,100 | 4,040 |
| Bending capacity | | | | | | | |
| Steel 400 N/mm² | mm | 4.00 | 3.50 | 3.00 | 2.50 | 2.00 | 1.50 |
| Aluminum 250 N/mm² | mm | 5.00 | 5.00 | 4.50 | 3.50 | 3.00 | 2.00 |
| VA 600 N/mm² | 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 |
| Connecting data | | | | | | | |
| Connecting load | kVA | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 | 16 | 16 | 16 |
| Recommended RCD type | | no specification | | | | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 |

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 |



ECT CONTROL

| | | | | | | | |
|--|---------------|------------|-----------|-----------|-----------|-----------|-----------|
| Connecting data | | | | | | | |
| Connecting load | kVA | 3.47 | 3.47 | 3.47 | 3.47 | 3.47 | 3.47 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 | 16 | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | | | | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 |

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 |
| Connecting data | | | | | | | |
| Connecting load | kVA | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 | 16 | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | | | | | |
| Recommended RCD tripping current | mA | 30 | 30 | 30 | 30 | 30 | 30 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 |

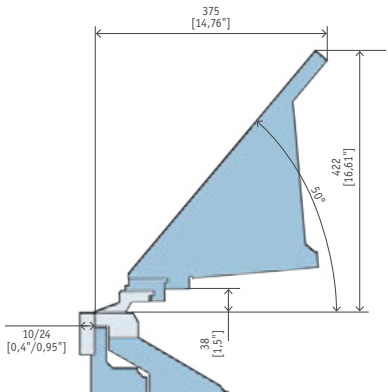
TECHNICAL DATA

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

MAZ

CNC S-TOUCH CONTROL

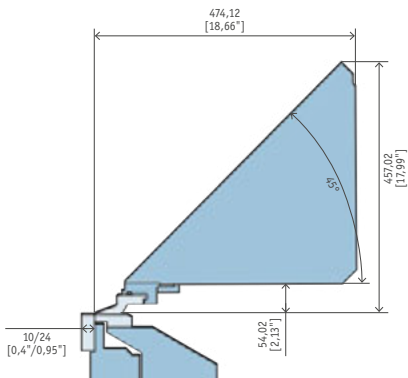
| | | | | | |
|--|---------------|------------|-----------|-----------|-----------|
| Model | | 200 | 250 | 310 | 400 |
| Working length | mm | 2,040 | 2,540 | 3,100 | 4,040 |
| Bending capacity | | | | | |
| Steel 400 N/mm² | mm | 3.50 | 3.00 | 2.50 | 1.75 |
| Aluminum 250 N/mm² | mm | 5.00 | 4.50 | 4.00 | 2.50 |
| VA 600 N/mm² | mm | 2.25 | 2.00 | 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 | 56 | 56 | 56 | 56 |
| 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 |
| Connecting data | | | | | |
| Connecting load | kVA | 8.4 | 8.4 | 8.4 | 8.4 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 32 | 32 | 32 | 32 |
| Recommended RCD type | Doepke | DFS 4 B SK | | | |
| Recommended RCD tripping current | mA | 300 | 300 | 300 | 300 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 |



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/mm² | mm | 4.00 | 3.50 | 3.00 | 2.00 |
| Aluminum 250 N/mm² | mm | 6.00 | 5.00 | 4.50 | 3.00 |
| VA 600 N/mm² | mm | 2.50 | 2.25 | 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 |
| Connecting data | | | | | |
| Connecting load | kVA | 8.4 | 8.4 | 8.4 | 8.4 |
| Recommended fuse protection EU 3 x slow blow | A | 16 | 16 | 16 | 16 |
| Connector plug CEE.. A 5-pole | | 16 | 16 | 16 | 16 |
| Recommended RCD type | Doepke | DFS 4 B SK | | | |
| Recommended RCD tripping current | mA | 300 | 300 | 300 | 300 |
| Supply voltage EU 3 x | AC 50 - 60 Hz | 380 - 420 | 380 - 420 | 380 - 420 | 380 - 420 |



LINE-UP OF MACHINES


MACHINES FOR THE ENTIRE
RANGE OF TOP-QUALITY METALWORKING
AS OF 08/2019

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




SB

- shingle specialist
- two operations in one
- time saving of approx. 70 %




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

MOTORIZED BENDING MACHINES



MAXI STD
MAXI CNC S-Touch

MAXI

- Convenient motorized segment-bending
- Split segments: lower/clamping/bending beams
- Tool-free click system saves time



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



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-S

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



MAE CNC-S

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

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

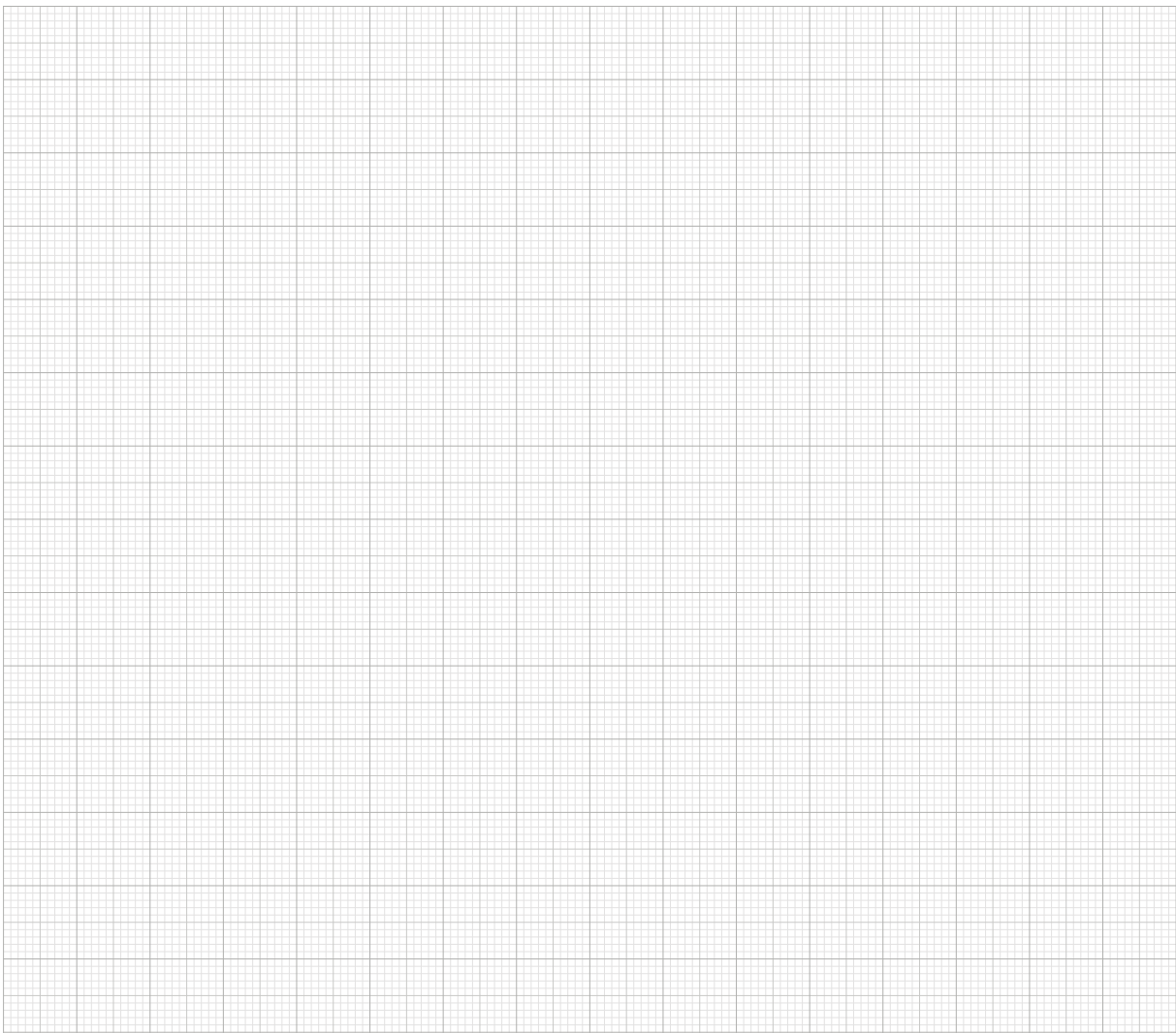
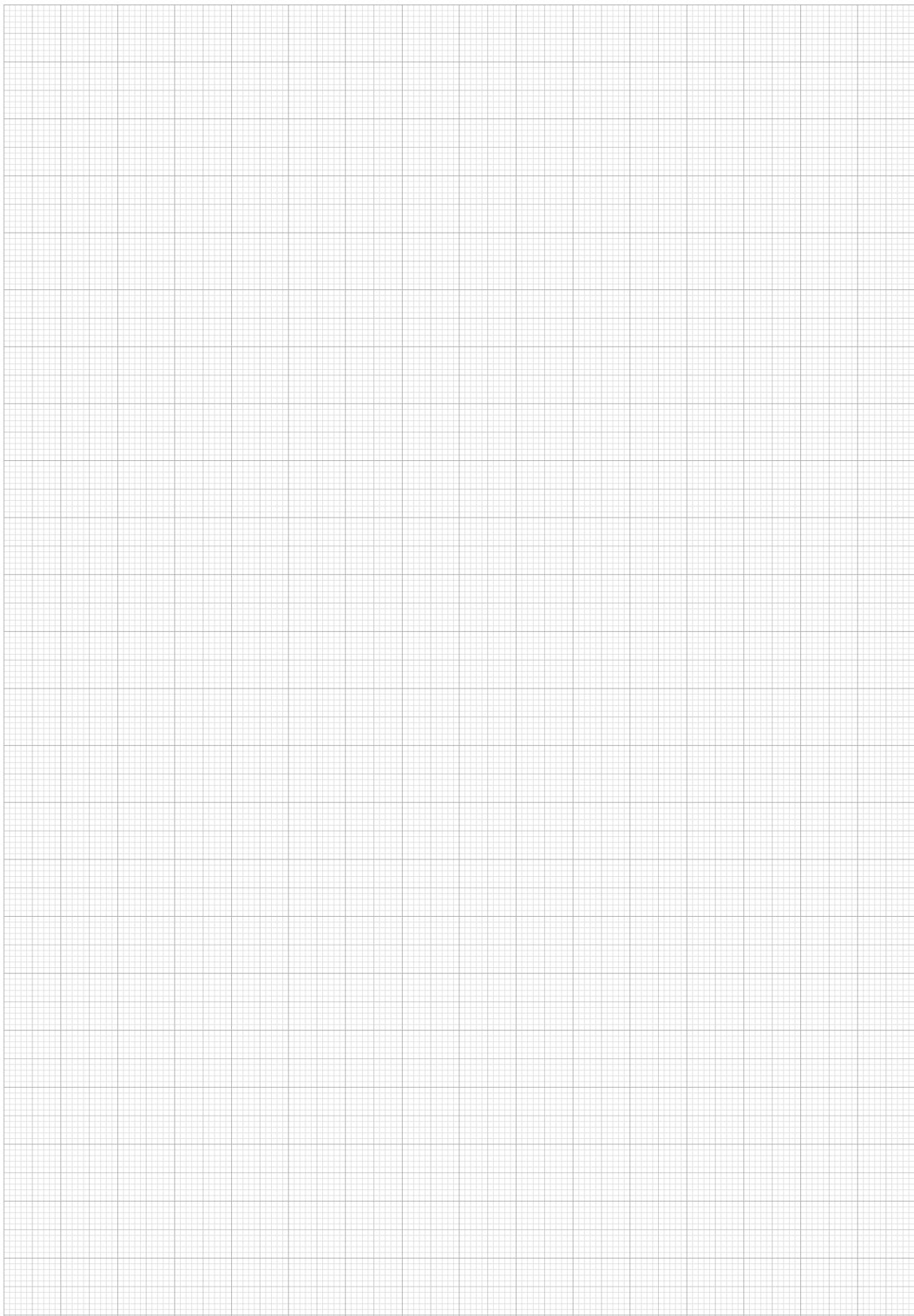
- Metal sheets are always available
- Modular design
- Customizable

PROFILING MACHINES

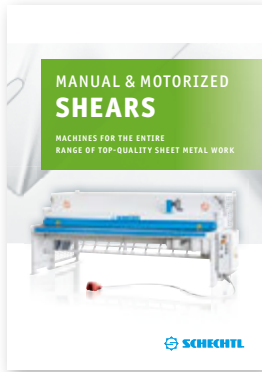


SZP

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



FURTHER PRODUCTINFORMATION





www.Djermester.de www.Arrisma.de

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