

### SKU : 182642

The AHK M series was developed as a modern, inexpensive NC alternative to CNC press brakes. Many operators are familiar working without CNC programming, and this model series combines proven technology with modern safety standards. The back gauge in the X- and R-axes and the depth gauge in the cylinders can be positioned directly using the touchscreen, or bending sequences can be stored in the NC control for automatic operation. The series is convincing in the production of workpieces with recurring materials and contours.

- Stress-relieved welded steel construction
- Top beam with torsion shaft
- NC control with touch-screen HMI
- Back gauge with X and R axes
- European-style male die



## TECHNICAL SPECS

### WORKING AREA

Pressure force	60 t
Brake length	2100 mm
Distance between columns	1700 mm
Throat	320 mm
Stroke	160 mm
Clear opening	380 mm
Table width	100 mm

### TRAVELS

Travel in X-axis	600 mm
Travel in R-axis	140 mm

### FEED

Bending speed	10 mm/s
Rapid feed	75 mm/s
Return speed	55 mm/s

### DRIVE CAPACITY

Motor rating main drive	7.5 kW
Motor rating X-axis	0.75 kW
Motor rating R-axis	0.25 kW

### MEASURES AND WEIGHTS

Hydraulic tank volume	120 l
Overall dimensions (length x width x height)	2.45 m x 1.6 m x 2.23 m
Weight	4340 kg



A large throat and narrow table to ensure plenty of free space for complex bending



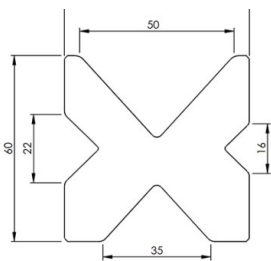
Intuitive controller with large touchscreen and three operating modes: manual/semi-auto/automatic



The rear side is protected by light curtains



Hydraulic unit positioned on the top of the machine for extra bending space.



ANK M 4510 2160

Machine is standard delivered with an European type bottom tool 4V

## PRODUCT DETAILS

### Machine Frame and Male Die

- The machine frame is made of a high-precision, stress-relieved steel weldment and features a rigid bending bar and hydraulic cylinders on both sides
- A large throat and narrow table ensure plenty of free space to accommodate complex bending sequences

### Hydraulics

- The hydraulic unit with reservoir is placed in the top part of the machine frame to save space and add to the rigidity of the construction
- Precise upper beam positioning is ensured by a torsion shaft that connects the depth stops of both cylinders

### Front Support Arms

- Each support arm can be adjusted in height and is extremely sturdy
- A stop ridge on the supporting surface helps with workpiece alignment

### Bending Tools

- Promecam tool mounts to accommodate an extensive selection of bending tools
- Manual quick-action clamping system for tool mount shortens tool changing times
- With 4 bending dies the die can handle a wide spectrum of workpieces

### Safety and Productivity

- Safety features are based on the latest CE regulations
- Light curtains around the work area provide reliable protection

### Control

- All functions are input and retrieved directly at the touchscreen
- In manual mode, all axes can be positioned via motorized motion and the set values are shown on the display
- In semi-automatic mode, the values entered by the user are directly selected
- In auto. mode, the programmed bending sequence is positioned automatically
- Each storage area holds 500 data sets, and programs can be stored externally and re-imported
- The axis position is maintained when the display is turned off
- In addition to a USB port, the machine also features a network port at the control panel

### Back Gauge

- The excellent stability of the NC-controlled back gauge is an important factor for achieving excellent machining precision
- Linear guides and large preloaded ball screws are low maintenance and extremely sturdy
- The motorized R-axis simplifies the precise stop-height set-up
- Lateral positioning of back gauge fingers on dual, smooth-running linear guides

## STANDARD EQUIPMENT

Weintek 7" NC-control  
 Motorized backgauge X-axis  
 Motorized backgauge R-axis  
 European type bottom tool 4V  
 Upper tool H European style H = 67 mm (segmented)  
 Laser optical safety system  
 Light curtain  
 Sliding front support arms (2 pcs)  
 Foot pedal with emergency stop switch  
 Operator instructions

## OPTIONAL EQUIPMENT

- Motorized crwoning, SKU : 253726

- extended backgauge for X-axis (1540 NC / 2160 NC), SKU : 253659
- additional backgauge finger (pc), SKU : 253660



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**