

# Press Brakes

## AHK M 2160 NC



### SKU : 182660

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
- Measure the bend angle directly
- 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 depth             | 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

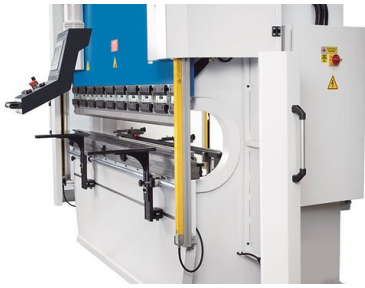
|               |         |
|---------------|---------|
| Bending speed | 10 mm/s |
| Rapid feed    | 75 mm/s |
| Return speed  | 55 mm/s |

### 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*



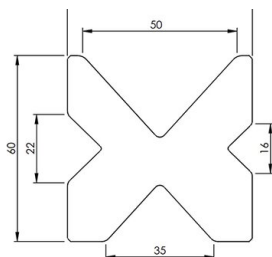
*Intuitive controller with large touchscreen and three operating modes: manual/semi-auto/automatic*



*The rear side is protected by light curtains*



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



**ALUM 4540 2460**

*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

- Die Bedienung der Maschine erfolgt über einen übersichtlichen Touchscreen, der alle Funktionen übersichtlich anzeigt
- Einzigartig für eine konventionelle Abkantpresse ist, dass der Bediener den gewünschten Biegewinkel in Grad direkt eingeben kann
- Zusammen mit der Blechstärke und anhand der hinterlegten Werkzeugdaten berechnet die NC-Steuerung automatisch die erforderliche Position des Tiefenanschlages
- Dadurch wird ein deutlich schnelleres Einrichten der Maschine ermöglicht sowie eine hohe Genauigkeit und reproduzierbare Biegeergebnisse sichergestellt
- Die Maschine kann in drei Betriebsarten verwendet werden
- In manual mode, all axes can be positioned via motorized motion and the set values are shown on the display
- Im halbautomatischen Betrieb fährt die Steuerung die vom Bediener eingegebenen Werte selbstständig an
- Im automatischen Betrieb werden zuvor programmierte Biegefolgen automatisch abgearbeitet
- Für wiederkehrende Aufgaben können bis zu 500 Datensätze im internen Speicher abgelegt werden
- Zusätzlich besteht die Möglichkeit, Programme extern zu speichern, zu sichern und bei Bedarf wieder zu importieren
- Neben einer USB-Schnittstelle verfügt die Maschine hierfür auch über einen Netzwerkanschluss am Bedienpult, sodass eine komfortable Datensicherung und Programmverwaltung gewährleistet ist

### 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)  
Drei Positionen Fußschalter mit Not-Aus-Schalter  
Operating manual

## OPTIONAL EQUIPMENT

- Motorized crwoning, SKU : 253726
- extended backgauge for X-axis (1540 NC / 2160 NC), SKU : 253659
- additional backgauge finger (pc), SKU : 253660