Press Brakes

AHK M 1540 NC

SKU : 182659

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	40 t
Brake length	1550 mm
Distance between columns	1260 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	80 mm/s
Return speed	60 mm/s

DRIVE CAPACITY

Motor rating main drive	5.5 kW
Motor rating X-axis	0.75 kW
Motor rating R-axis	0.25 kW

MEASURES AND WEIGHTS

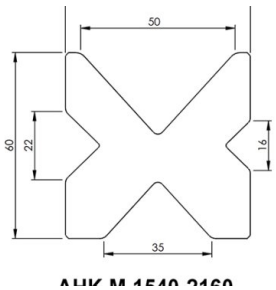
Hydraulic tank volume	120 l
Overall dimensions (length x width x height)	2 m x 1.6 m x 2.23 m
Weight	3450 kg

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.



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 crowning, SKU : 253657
- extended backgauge for X-axis (1540 NC / 2160 NC), SKU : 253659
- additional backgauge finger (pc), SKU : 253660