



Press Brakes AHK V CNC 30175



SKU : 470651

NEW

AHK V press brakes fulfill the most demanding requirements in regards to rigidity, precision and lifespan. This series was developed using the most advanced design technology, manufactured on modern production lines, and equipped with premium components. The hydraulic system only runs on demand for maximum energy efficiency. All models of the AHK V series include a DELEM control with touchscreen that provides efficient CNC programming tools and control over the entire bending process.

- R-axis included in standard equipment
- Motorized crowning
- Delem control for advanced bending solutions
- Laser optical safety system at the tool
- Energy efficient hydraulic system with start-stop function

TECHNICAL SPECS

WORKING AREA

Pressure force	175 t
Brake length	3100 mm
Distance between columns	2600 mm
Throat	410 mm
Stroke	265 mm
Clear opening	480 mm
Table height	900 mm

MEASURES AND WEIGHTS

Hydraulic tank volume	230 l
Overall dimensions (length x width x height)	4.1 m x 2.55 m x 2.82 m
Weight	10500 kg

TRAVELS

Travel in X-axis	750 mm
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FEED

Bending speed	9 mm/s
Rapid feed	160 mm/s
Return speed	120 mm/s

DRIVE CAPACITY

Motor rating main drive	18.5 kW
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PRODUCT DETAILS



Machine Frame

- A steel frame made from certified raw material combined with a modern design, vast experience and extensive production know-how result in above average rigidity and accuracy
- All mounting surfaces of the carefully welded and strain-free steel construction are machined on modern high-end CNC machining centers
- The holder for the measuring system compensates for deformations at maximum loads to ensure constant reliable precision
- All components subject to tensile loads have been carefully constructed and designed with large radii to eliminate the risk of welding cracks
- The large top beam is prestressable, and therefore optimized for lowest possible deformation
- Guideways, piston bearings and seals are designed for optimum vertical load absorption ensuring long tool life

Work Area

- A large throat, long stroke, and narrow table ensure plenty of free space to accommodate complex bending sequences

Crowning

- The motorized crowning system compensates for any clamping bar deflection, which is very important when working with thicker plates in order to ensure precise bending results across the entire bending length

Hydraulics

- Hydraulic cylinders are custom designed for this machine's requirement and are manufactured and honed in-house
- Hydraulic pistons also are manufactured in-house from forged steel, then hardened, ground, and chrome-plated
- Hydraulic blocks and valves from renowned manufacturers ensure superior quality, performance, and reliability
- The powerful variable frequency drive allows precise control of hydraulic movements, is significantly more quiet, reduces wear and saves energy
- Construction and selection of hydraulic components has been carefully matched to this modern layout to achieve maximum efficiency
- Safety valves prevent overloads and damages to the system

Back Gauge

- The back gauge has two controlled axes (X+R) with manually positionable back gauge fingers
- It features a very robust design and is low maintenance
- The back gauge fingers can be quickly adjusted with a safety tool via direct access from the machine front

Front Support Arms

- A precision-stepped adjustment system allows quick vertical positioning of support arms
- The sides feature smooth running linear guideways with high load capacity and low maintenance
- Robust industrial-grade brushes are provided for easy positioning of metal sheets without mechanical forces affecting their surface

Bending Tools

- Promecam (European) tool mounts accommodate an extensive selection of bending tools
- All tools are hardened and ground, and allow precise setup

Safety and Productivity

- The AKAS laser safety system monitors safety at the tool without affecting its functionality
- Safety features are based on the latest CE regulations
- A light curtain at the rear of the machine and robust safety guards at the sides secure the work area

Standard Equipment

- Delem 53 T 2D control
- Energy saving Start-Stop function

- Back gauge on R and X axes with linear guide and preloaded ball screw
- Motorized lower crowning
- Quick-action clamping male die
- European tool mount
- EUROPEAN TYPE female die
- EUROPEAN TYPE male die
- AKAS LC II M FMSC Laser-Optical Safety System
- Light barrier
- Front Support Arms
- Back-gauge finger
- Foot pedal with emergency stop switch
- Operation manual