# Press Brakes

## SKU : 182655

The AHK V CNC series models fulfill the most demanding requirements for modern press brakes according to European standards. These models were developed with advanced design technology and built on modern production lines resulting in superior quality, precision and reliability. All AHK V CNC series models feature a DELEM graphical touchscreen that provides efficient CNC programming tools and control over the entire bending process. Various back gauge options are available so these press brakes easily can be adapted for a wide spectrum of requirements.

- Superior machining quality
- Premium hydraulic and electronic components
- Modern DELEM graphical touchscreen
- Laser optical safety system at the tool
- Time-saving detailing solutions

## TECHNICAL SPECS

### WORKING AREA

| | |
|---|---|
| Pressure force | 400 t |
| Brake length | 3100 mm |
| Distance between columns | 2500 mm |
| Throat depth | 510 mm |
| Stroke | 310 mm |
| Clear opening | 525 mm |
| Table width | 154 mm |
| Table height | 1000 mm |

### TRAVELS

| | |
|---|---|
| Travel in X-axis | 750 mm |

### FEED

| | |
|---|---|
| Bending speed | 8 mm/s |
| Rapid feed | 120 mm/s |
| Return speed | 130 mm/s |
| Feed speed X-axis | 600 mm/s |

### DRIVE CAPACITY

| | |
|---|---|
| Motor rating main drive | 37 kW |

### MEASURES AND WEIGHTS

| | |
|---|---|
| Hydraulic tank volume | 350 l |
| Overall dimensions (length x width x height) | 4.3 m x 2.95 m x 3.2 m |
| Weight | 20000 kg |



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*The compact DA-53T is a highly advanced touchscreen control solution for synchronized press brakes. The Delem touchscreen graphic user interface makes programming very easy.*

*The rigid front support arms feature a ratchet mechanism for quick height adjustments*

*Motorized crowning included in standard equipment (optional for AHK V 13040)*

*Option: Back gauge with controlled R axis*

*European tool mount*

## 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
- 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
- The measuring system holder features a smart design and compensates for deformations at maximum loads to ensure constant reliable precision
- 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 lower crowning ensures precise bending results across the entire bending length when machining thicker sheet metals

### Hydraulic system

- 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 lasting reliability
- Safety valves prevent damages to the system in case of overload conditions

### Back Gauge

- The back gauge 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

- Rigid support arms travel smoothly in a linear guideway and can be clamped at the desired position
- Gear racks allow quick vertical positioning of support arms
- Robust industrial brushes simplify the handling of metal sheets and protect their surfaces

### 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 Policy based on the latest CE standards
- 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 touch control
X-axis backgauge with linear guide and recirculating ball screw
Motorised crowning
Quick clamping upper tool
AKAS laser-optical safety system
Light barrier



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European tool clamping system
EUROPEAN TYPE upper tool (835 mm segmented)
EUROPEAN TYPE Bottom tool 4V H: 60x60 mm
Foot pedal with emergency stop switch
2 front support arms / movable
2 height-adjustable backgauge fingers
ECO mode energy-saving function
Operating manual

## OPTIONAL EQUIPMENT

- Back gauge system for X- and R-axis for AHK V, SKU : 254223
- Extension rear stop X axle for AHK V, SKU : 254226
- Additional back gauge finger (piece) for AHK V, SKU : 254227
- Additional support arm (piece) for AHK V, SKU : 254228
- Air conditioning for electrical switch cabinet for AHK V, SKU : 254229
- Add-on Delem DA58 2D TX (4 axles) for towbar V, SKU : 254230
- Surcharge Delem DA66T 3D (7 axles) for AHK V, SKU : 254231
- Add-on Delem DA69T 3D (7 axles) for AHK V, SKU : 254232
- X-,R-,Z1-,Z2-axle back gauge for AHK V up to 3,700 mm, SKU : 254224
- Upgrade upper tool from H=67.6 mm to h=105 mm for 3,100 mm, SKU : 254234


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