

MASTEEL CNC HYDRAULIC BRAKES

 [Printable Version \(PDF\)](#)

MBHSA-10090

List Price:

Max. Capacity Tons	90
Max. Bending Length	10'
Distance between Frames	98"
Height of Bed	34"
Bed Below Floor	—
Depth of Throat	12 – ¾"
Length of Ram Stroke	8"
Fast Approach Speed IPM	275
Press Speed IPM	25
Fast Return Speed IPM	245
Max. Open Height	14-1/6"
Main Motor	10
Back gauge Travel	28"
Weight Lbs	13,500
Dimensions L x W x H	116 x 44 x 74



STANDARD CONTROL FEATURES:

- ▣ **Standard SIEMENS TP-700 control with 6" Touch Screen display**
- ▣ **SIEMENS Two Axis CNC controls on back gauge and ram bending position**
 - Bosch-Rexroth Closed-loop proportional Hydraulic position control:
repeatability standard at ± 0.0006 ", optional at ± 0.0004 "
 - Backgauge position control:
Standard CNC backgauge: speed at 200 IPM as per Demo Video; repeatability at ± 0.003 "
Programmable backgauge retract feature
- ▣ **CNC bending angle control –Only** inputs of bending angle, material thickness & die opening
- ▣ **Two-way bending calibration controls** -allow inexperienced operator to achieve desired angles with no time consuming multiple test bends. Save on costly skilled labour and test bend material.
 - By correction of test-bending angle, control system automatically sets itself to achieve desired angle.
 - By correction of bending position calculated automatically by control system.
- ▣ **Dual ram position feedbacks with hydraulic Synchronized control compensates for uneven force on the bend**
- ▣ **Tool memory for quick recall of tool setup**
- ▣ **200 Job memory with average of 30 bends in each program**
- ▣ **Programmable pressure control**
- ▣ **Programmable ram delay control at bending position under adjustable pressure for bump bending or special heavy bending application**
- ▣ **Maintenance plan auto-prompts service schedule**

- ☑ Operating hour meter
- ☑ Operating prompts and Trouble shooting messages
- ☑ Inch / MM conversion

OPERATING FUNCTION:

- ☑ **Ram speed control:**
 - Rapid approach and return speeds insure more efficient production.
 - Slow bending speed for better control of bending accuracy
- ☑ **Ram stroke control:**
 - Programmable ram top stop limit for more efficient production
 - Programmable slow working speed position and second stop position
- ☑ **Four Operating Modes:**
 - Jog mode: inching control of ram for tool setup
 - Single mode: one full bend cycle per control input.
 - Double stop mode: excellent for sight bend operations.
 - Follow bend mode: easy to follow bending and ram return on large sheet or with crane handling

QUALITY & VALUE STANDARD EQUIPMENT:

- ☑ Two axis back gauge
 - One axis Siemens CNC control: X – axis
 - One axis manual adjustment: R – axis
 - Precision-made backgauge fingers can be easily & accurately positioned along gauge bar
- ☑ Compact SIEMENS control system provides hydraulic, electrical and CNC control in one for best reliable performance.
- ☑ Push button rapid and fine adjustments on backgauge and bending position.
- ☑ Fully equipped with Masteel tooling and clamping system.
 - Floating-adjustable die clamping system for various die application
 - Hardened and precision ground tool steel gooseneck punch: 53-58RC; 100Ton/M(33Ton/Ft) capacity
 - Hardened and precision ground Masteel 10 openings, 4-way die: HB190-260.
- ☑ Masteel Crown Device for easy-adjusting tooling and machine wear intolerances with no cost
- ☑ Deep throat depth with swing up clearance allows full length bend over bed up to 12"
- ☑ T- slotted bed for support arms or custom setups
- ☑ 2 - Front support arms
- ☑ Standard SIEMENS two-axis CNC controller
- ☑ North-American made hydraulic & electrical system
- ☑ North-American standard hydraulic fittings and hoses

OPTIONAL EQUIPMENTS:

- ☑ KV-2004 or Delem control DA-56 or up model
- ☑ Offline program software for KV-2004 or Delem control
- ☑ Servo CNC back gauge with ball screw and linear guide way
- ☑ Optional multi axis control: R, Z1, Z2 up to 6 axis
- ☑ Manual WILA Anti-Deflection system,
- ☑ Safety light curtain
- ☑ Laser protection system for die area,
- ☑ Hydraulic top and bottom tool holding system,
- ☑ Quick- set front sheet support arm with linear bearing rollers,
- ☑ Hydraulic oil coolant,

- ▣ One-shot slide greasing system,
- ▣ Special throat depth (500,600 and 750 mm),
- ▣ Special top and bottom tools