

Data Sheet – A 50 TNCB

The A50 TNCB is a single axis NC tube bender for accurate bending of relatively simple tubular components requiring limited control over distance between beds and rotation. The bending head drive is provided by hydraulics. Linear movements and rotations are performed manually by the operator. The machine is designed to offer flexibility and accuracy.

Model illustrated right is the A89 TNCB



TubeMart Tube Bending Machines:

Machine Model A50 TNCB

Standard features:

Powered Follower Slide
Right Hand Bending
Single Stack for Draw Bending
Y, B Axes – manually controlled Feeding and Rotation
C Axis – (Bending) Driven hydraulically. NC controlled for the degree of bend (D.O.B.).
Moveable foot pedal control with emergency stop, machine start, and bend arm return functions.
Operation of the machine allows bending to be done with or without the mandrel function.
Foot Pedal Cycle start. For additional security, safety mats are included.
Wiper die Bracket
Operation and Maintenance Manual
CE Certification

Controller:

PLC base 10" B & W LCD Touch Screen control - Easy and fast programming. Control panel is touch type. The use of icons overcomes any language barrier, and a person can be trained to use this system within minutes.
100 Programs can be pre-programmed and each program can have up to 10 bends. Battery backup ensures that the programs can be stored in memory for at least six months in the event that the power is disconnected.

Technical Specifications: Model A50 TNCB

Bending Capacity / Round Tube / Mild Steel (S=40kgf/mm ²)	50.8 x 3.0mm	DBB (Feeding) speed	manual
Bending Capacity / Round Tube / Non-Ferrous S=25kgf/mm ²)	50.8 x 5.0mm	Accuracy of DBB (Feeding)	Manual to flag stops
Bending Capacity / Round Tube / Stainless S=60kgf/mm ²)	50.8 x 1.8mm	POB (Rotation) Speed	manual
Bending Capacity / Square Tube / Mild Steel (S=40kgf/mm ²)	40 x 3mm	Accuracy of POB (Rotation)	manual
Bending Capacity / Solid Bar / Mild Steel (S=40kgf/mm ²)	25 mm	Motor for Hydraulic	5.5 Kw
Max. Bending Radius	30 – 250mm	Total Power	5.5 Kw
Max. Bending Angle	190 degrees	Max. Pressure	140 kgf / cm ²
Max. Length over Mandrel	2200mm	Hydraulic Tank Capacity	140 Litres
Working Height	1000mm	Machine Length	3000mm
Tooling Centre Line Height	40mm	Machine Width	1000mm
DOB (Bending) Speed	80 deg / sec.	Machine Height	1200mm
Accuracy of DOB (Bending)	±0.15 degrees	Machine Weight	950 kgs

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