

CLINCHING PRESS SERIES

AZIMUTH MACHINERY

Punch presses manufacturer since 1975



CLINCHING PRESSES MODELS

Custom machine for your unique application

Upon your request, Azimuth customize your machine, the way you need it !

Send us your sample today for a free evaluation & recommendation for your application.



AZIMUTH PRESSES

LEADING MANUFACTURER CLINCHING AND PUNCH PRESSES

AZIMUTH MACHINERY LTD, is a leading manufacturing of air clutch, clinching presses and mechanical or custom build presses. AZIMUTH is renowned for the quality, its ability to supply custom built presses based on customers' unique specifications, and its outstanding customer and after-sales services.

All AZIMUTH's presses are manufactured &/ or assembled in our plant, increasing our competitiveness in offering the best possible quality at the best possible prices. AZIMUTH keeps a wide range of replacement parts in inventory for all AZIMUTH clinching and air clutch presses as well as for Taloc and Alceco presses allowing us to provide fast and efficient after-sale services.

MAIN FEATURES		OTHER CLINCHING PRESS MANUFACTURER
ACTUATION TYPE	Fully electrical (servo motorized)	Air over-oil system Air / Hydraulic
SPEED OF OPERATION	Up to 400 SPM	Max 150SPM
STROKE	Adjustable 1.5" stroke	Fix stroke 2-3"
MACHINE INTERFACE	Yes	No
MODE OF OPERATION	Safety mode Automatic / Single stroke	Single Stroke only
BUILT-IN SAFETY FEATURES	Yes	Optional
WARRANTY	5 years	From 1-3 years

GEN III

The first fully electrical servo motorized clinching press in the industry, our GEN III now meets speed of operation, safety standards & consistency within your clinching joints. Backed up with an outstanding 5 years warranty, you won't have to worry about your clinching unit for a very long time.



EASY INSTALLATION

Fully electrical (220VAC)



INCREASED PRODUCTIVITY

Programmable HMI allows the operator to program JOB & speed of operation



FASTEST MACHINE IN THE INDUSTRY

up 600 strokes per minutes



SAFETY INCLUDED

Safety intelligent stroke provides safety for operator



SELF MONITORING SYSTEMS

Built-in procedure for easy maintenance of the machine & adjustment



TROUBLE FREE

5 years warranty

CLINCHING PRESS HORN TYPE

Azimuth wide variety of clinching presses offer the possibility to cover your whole product range. Commonly used for duct type product.

	H612	H618	H624	H632
Requirement	208VAC-1Ph			
Full depth from punch center	12,25"	18,25"	24,25"	32,25"
Minimum diameter Full depth	5,5"	8,75"	10,75"	14,75"
Minimum capacity	2 plies of 0.010"			
Maximum capacity	2 plies of .0625"			
Stroke per minutes	Adjustable speed from 30SPM to 400SPM			



For more specific dimension, download the Technical brochure at www.azimuthpress.com

CLINCHING PRESS TABLE TYPE

Commonly known as Channel letter, these machines offer a good versatility to clinch Boxes or flanged products that require depth.



	CL1830	CL2430
Requirement	208VAC-1Ph 40PSI for retractable options	
Full depth from punch center	18,25"	24,25"
Table adjustment	0-11"	
Minimum capacity	2 plies of 0.010"	
Maximum capacity	2 plies of .0625"	
Stroke per minutes	Adjustable speed from 30SPM to 400SPM	

For more specific dimension, download the Technical brochure at www.azimuthpress.com

CLINCHING PROCESS



STEP 1 : CLAMP

The stripper clamps the sheet metal parts to be joined.



STEP 2 : DRAW

The punch draws the sheet metal into the die and the metals expand when they hit the die anvil.



STEP 3 : LOCK

The metals, unable to continue their downward expansion, are compressed against the anvil and are forced to expand laterally, forming an interlock below the bottom sheet. The die blades expand, allowing this interlock to occur.

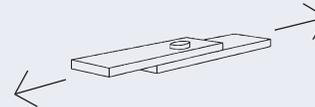
ADVANTAGES

- Vibration-Resistant & Leak proof
- Do not destroy material coating
- Consistent & reliable joint
- May join different thicknesses together
- Long tool life of approximately 300,000 cycles

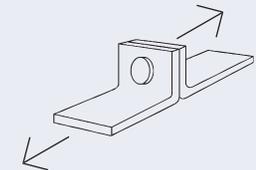
CAN MY MATERIAL BE CLINCHED ?

Mild Steel (galvanized, pre-painted material) or Aluminum are standard materials. Stainless steel & multiple layers of material requires optional tooling.

SHEAR STRENGTH



FROM 225 lbs. (thinner material)
to 600 lbs (thicker material)



FROM 30 lbs. (thinner material)
to 250 lbs (thicker material)