



**HACO-ATLANTIC, Inc.**  
**DBA ATLANTIC MACHINE TOOLS, Inc.**  
**Manufacturers of Sheet Metal Working Machinery**



Date : 8/2/11

Quote #

To: Rebuild CNC Press Brake

**PPES 135-12-10**

HACO "SYNCHROMASTER" HYDRAULIC PRESSBRAKE

**SPECIFICATIONS**

Tonnage . . . . .	135 tons
Capacity . . . . .	135 tons
Overall Bending Length . . . . .	144"
Clear Distance Between Housings . . . . .	124"
Maximum Stroke (Programmable). . . . .	5.1"
Throat . . . . .	9.8"
Open Height . . . . .	15.7"
H.P. Electric Motor . . . . .	20 HP
Voltage . . . . .	220/440 VAC
Rapid Approach Speed . . . . .	165"/min
Maximum Press Speed (Programmable) . . . . .	24"/min
Rapid Return Speed . . . . .	189"/min
Length . . . . .	162"
Overall Height. . . . .	98"
Front/Back . . . . .	67"
Weight. . . . .	19,400 lbs

**Machine equipped with new ATS 590 Graphics 2D Control (Dos).  
 Equipped with quick clamp system tool holders and manual European bottom holders  
 Compleet new Control & Electrical Box-panel, new cable wiring, resealed cilinders, rebuild  
 backgaug, fresh oil and filters and fresh paint.  
 Mfg. Year 1988.**

All HACO-ATLANTIC "SYNCHROMASTER" pressbrakes are built to conform to ANSI B11.3 "American National Standard for machine tools - power press brakes - safety requirements for construction, care, and use". The purchaser shall be responsible for the proper installation and continued use of point of operation guards and/or awareness barriers to assure required operator safety. Haco- Atlantic, Inc. recommends to check out your local safety regulations by OSHA. Haco- Atlantic, Inc. offers optional safety equipment such as two-hand control and light curtains.

Haco-Atlantic, Inc. reserves the right to change any specifications and prices without prior notice and reserves the right to correct any clerical and typographical errors.

# PPES

## HACO "SYNCHROMASTER" HYDRAULIC PRESSBRAKE

The HACO "SYNCHROMASTER" Press Brake quoted belongs to a new generation of steel fabricating equipment with several standard features which will provide your company with safe, accurate, dependable and high productive use which can put your company one step ahead of your competition.

HACO-ATLANTIC, Inc., member of the HACO International Group, builds **SAFE** machines conforming to ANSI B11.3 "American National Standard for machine tools -power press brakes- safety requirements for construction, care and use." We deliver our machine with a safety handbook, as well as interfacing capabilities for owner installed safety devices. Due to the multiple purposes of a press brake, point of operation guards should be installed by the purchaser in accordance with Federal Safety Requirements.

**PRODUCTIVITY** will be increased by installing an HACO "SYNCHROMASTER" Press Brake due to the versatility and easy operation of the machine. The press brake comes standard with an ATS 570 control.

Your company will gain customer confidence resulting from the **ACCURACY** the HACO Press Brake gives you. Our synchronized bed referenced linear scale design guarantees bending accuracy only limited to material differences or tooling inaccuracies.

Most importantly, your machine will be **DEPENDABLE**. The machine is built with top quality components.

We are confident that a decision to purchase an PPES Series Press Brake will be one of your company's wisest business decisions.

## **CONSTRUCTION**

Rugged all steel interlocked and welded construction for maximum strength and minimum deflection. All frames are stress relieved after welding to provide as near perfect surfaces as possible, which in turn results in better bends. The all-welded construction also resists torque twist that is sometimes found in bolt-together designs.

Flush floor mount. No pit or special foundation required.

Precision bed and ram. PPES press brakes use single, deep-sectioned plates for the bed and ram. The ram is fitted with more punch clamping plates and bolts than is commonly found on other machines. This enables the operator to easily and securely clamp small tooling segments if he is not using one long punch. The bed is an integral part of the machine frame and is machined in one set up in conjunction with the ram ways and cylinder mounts. This insures positive alignment relationships between the ram, bed and frame for guaranteed accuracy.

The bed has a removable table and can be re-machined in the event of accidental overload damage or eventual wear from the tooling. Crowning to suit your application is done by our service engineer upon installation of the machine. The amount of crown can easily be changed if necessary. Manual controlled crowning tables are offered as an option.

Full length die slot in removable table with set screws.

Large throat gaps in side frames and a unusually clear working space.

Machine comes standard with European System Tool tool holders. (European (Amada®) style tool holders with built-in wedge system)

The use of non-metallic gibs prevents galling of the bearing surfaces and permits minimum clearances for accurate ram guidance.

Rotating pendant mounted control.

The cylinders are manufactured by HACO, they used Parker Polypac and wiper seals. All hydraulic components are mounted on top of the machine free from debris and dirt. The hydraulic design is easy to service and the machine comes complete with hydraulic fluid. The hydraulics on the SYNCHROMASTER are simply, yet accurate and most importantly dependable. The system has a built-in safety relief valve. If an attempt is made to bend material incapable of being bent, the machine will automatically open the safety relief valves to release pressure and prevent machine overloads.

## **CONSTRUCTION**

Most hydraulic and electric components are standard industrial/commercial grade, off-the shelf items from major manufacturers such as Parker®, Vickers®, Rexroth® or Hoerbigger® hydraulics and Telemecanique® or ABB® electrics.

Movable foot pedal with handgrab, dual foot pedals for ram control. Second foot pedal and two- hand control are offered as an option.

## **CONTROL**

## **BACK GAUGE UNIT**

The machine comes standard with an X-axis. The standard back gauge has the following features:

- The X-axis comes standard with programmable position and manually adjustable finger height, finger width.
- The machine comes standard with a 20" high speed back gauge on ball screws. We use a fast DC servo driven backstop on our machines. The motor uses an optical encoder to ensure a very high positioning accuracy.
- A steel dovetail gauge bar spans the distance between side frames, allowing gauge fingers to be positioned manually along its length.
- Two gauge fingers are manually adjustable (4.1/2" in height) to accommodate different V-die heights. An elevating screw, adjustable with by a hand wheel, provides accurate height positioning.
- Over travel of the backstop is avoid by the use of two limit switches and the CNC control.
- Back gauge X-axis automatically references at the initial startup.
- Retraction is fully programmable. (Wait-Retract)

## **GENERAL**

- Machine can be wired for 220 or 440V, 3 phase, 60Hz
- Service tools included.
- Oil delivered with the machine.
- One safety, operator and service manual included.
- One year warranty on spare parts and labor, except tooling. Warranty shall be considered void if the machine is not used in a normal and proper manner, not properly maintained, or modified for any special use. No other warranty is either expressed or implied by HACO-ATLANTIC, Inc. or any of its representatives. For the sake of its expediency involving a minor failure, HACO-ATLANTIC, Inc. may at its option allow the user to purchase a needed part locally for which he will be reimbursed upon return of the defective part.
- Installation, start up and training are included.

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## PPES 150-12-10

### HACO "SYNCHROMASTER" HYDRAULIC PRESSBRAKE

#### OPTIONAL EQUIPMENT

29" front support arm with 2 T-slots and 1 tilting stop (Not recommended on system tools, manual or CNC anti deflection tables!)	\$ 470.00/each
Additional tilting stop for front support arm	\$ 90.00/each
Type 1: Adjustable front support system includes: *	N/A
- two 29" front support arms with 2 T-slots and 1 tilting stop	
- manually adjustable in width along full length of the machine	
Extra front support for above Type 1 front support system *	N/A
Type 2: Adjustable front support system includes: *	N/A
- two 19.5" front support arms with 2 T-slots and 1 tilting stop	
- manually adjustable in width along full length of the machine	
- manually adjustable in height with hand wheel	
Extra front support for above Type 2 front support system *	N/A
Second foot pedal in series with standard pedal *	\$ 1,400.00
Emergency stop button in specified location*	\$ 390.00
HACO Bend 2D off-line software for ATS 590 and FastBend	\$ 6,250.00

\* indicates factory installation only

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### **OPTIONAL EQUIPMENT (CONT.)**

Two hand control*	\$ 4,230.00
18" Triad Superlight V, Model TR18-4F-15 Infrared light curtain system	\$ 3,280.00
- 3/4" spaced light beam	
- one beam floating blank capacity	
Triad swing mount brackets for above, model 9000, price per pair	\$ 1,110.00
Laser Centry Safe Guarding	\$ 8,950.00
Close loop Air Conditioner for Electrical Enclosure (Recommended for HOT environments)	\$ 2,600.00
Extra operator's manual	\$ 80.00

### **BACK GAUGE OPTIONS**

More price for 39" back gauge in lieu of standard 31" *	N/A
More price for extra finger block	\$ 1,310.00
Heavy Duty R-Axis available only for ATS 590 and Fastbend controls* (Not possible with the ATS 570 and ATS 570 control!)	N/A

**This list only shows the most common options, please contact our sales office for information on additional options. Prices of optional equipment are valid only if ordered with the machine. For separate orders, please contact our sales office.**

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Machine:

Model: PPES  
Capacity: 150  
Length: 12  
CNC:

PAYMENT TERMS: 20% with order. 80% at installation

FOB: Houston, Tx.

DELIVERY: IN STOCK, Subject to prior sale.

VALIDITY OF OFFER: 60 days from 8/2/2011

Daniel Kint,  
Sales Manager,  
Haco-Atlantic, Inc.

DK/DK

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