PRESS BRAKES

Press Brakes
SynchroMaster
EuroMaster-S
PressMaster
HACO’s Affordable Bending Solutions to the Highest Standards

Always the right choice for your application
- SynchroMaster Series
- EuroMaster-S Series
- PressMaster Series

Equipment
- FastBEND-2D/3D MT Premium
- New Standard Tooling System
- Smart Tool Locator
- Lazersafe Optical Safety Guards
- Angle Measuring System Alfa-F
- Angle Measuring System IRIS Plus
- Sheet Following Systems
- SyncView

HACO’s pressbrake series are the result of a decades long tradition in designing and manufacturing affordable state-of-the-art bending machines for a wide variety of customers and applications.

HACO continues its policy of single source responsibility. Our in house developed CNC controls and software solutions have been recognized as being among the most user-friendly in the market.

The new generation Multi Touch controls sets a new standard for an intuitive and user-friendly operator interface, introducing innovations such as Smart Draft, Step Previewer and Combined Icons.

HACO’s attention for design and manufacturing quality has resulted in a worldwide reputation of long lasting production machines offering excellent reliability and precision.

FOLLOW THE HACO GROUP:
WWW.HACO.COM

SynchroMaster (SRM)
Entry Level Machine
Entry level pressbrake with basic execution for operation with European Standard Tooling. Possibility to extend with straightforward options. Attractive price/quality ratio. Standard with user friendly 2D graphical control.

EuroMaster-S (EMS)
Standard Multifunctional Allround machine
General level pressbrake with market oriented execution. Extensive choice of options, both basic and sophisticated. Innovative 2D Multi Touch graphical control. Excellent price-performance ratio. Integration of advanced safety equipment.

PressMaster (PM)
Top Level High-Spec machine
Top level pressbrake with high-end specifications and execution. Increased Daylight Opening and Beam Stroke for increased bending freedom. Increased beam and backgauge speeds for high productivity. Innovative 3D Multi Touch graphical control. Possibility for extension with sophisticated options. Features accurate bending characteristics. Integration of advanced safety equipment.
SynchroMaster Series
Your entry-level machine

BEAM CONTROL
Beam parallelism and depth stop setting by means of bed referenced linear encoders for accurate beam position measurement, synchro module and proportional valve hydraulics

EASYBEND-2D T
Touch Screen control

EASYBEND-2D MT
Multi Touch Screen control (optional)

CROWNING TABLE (OPTIONAL)
Compensates for ram and table deflection, ensuring consistent bending angles over the entire bending length. Manual operation and CNC controlled versions (V-axis)

STANDARD BACKGAUGE X
Rigid backgauge for accurate sheet positioning

STANDARD EUROPEAN
Quick Manual Upper clamping
Manual bottom clamping

ROL1 CLAMP3 (optional)
ROL200 Manual or Pneumatic (optional)

Model SRM 275 13 10
Flush Floor frame design for all models
SynchroMaster Series
EasyBEND-2D T Control

EASYBEND-2D T CONTROL
- 18.5" colour graphic LCD display with Touch Screen Technology
- WIN10 IoT operating system
- Multiple drawing methods
- Graphic simulation of work pieces with Multitasking Real Time solution Finding
- Automatic bending sequence calculation with collision control
- Automatic program generation
- Expandable up to 7 axes:
  - standard Y1 + Y2
  - standard X-axis
  - optional R-axis
  - optional X-R-Z/Z’ and X-R-Z1-Z2 axes
  - optional crowning (= V-axis)
- Material library up to 30 different materials
- Tool library with graphical visualisation for
- 30 upper and 30 lower tools
- Multi-language support
- USB Support (stick included) + Network board
- Remote diagnostics
- Programmable Beam Speed and Speed Change-Over Point
- Top Death Centre (TDC), Back gauge Positioning with retraction

SynchroMaster Series
Standard Execution

EUROPEAN STANDARD (ES)
top tooling with Quick Manual Clamping arrangement
The European Standard Tooling System has proven its flexibility, affordability and precision during the last decades in an infinite number of sheet metal working shops. A wide choice of a vast number of top and bottom tools allows for a unpredictable number of applications in various materials and thicknesses.

X BACKGAUGE, expandable to X-R,
X-R-Z/Z’ and X-R-Z1-Z2
The SynchroMaster is standard equipped with a rigid and accurate X backgauge featuring average travelling speeds. Optional X-R (height programming), X-R-Z/Z’ (symmetric finger programming) and X-R-Z1-Z2 (asymmetric finger programming) are available for increasing your range of applications.

Your Competitive Edge
A. Excellent Value for Money
B. User Friendly EasyBEND-2D graphical control
C. Proven Profitability for Various Workload Conditions
### SynchroMaster Series
#### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Bending Height (in)</th>
<th>Capacity (lbs)</th>
<th>Distance between housings (in)</th>
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#### SynchroMaster

**EasyBEND-2D MT (Optional)**

- 18.5” multi colour Multi Touch screen
- Standard 2D visualisation
- Automatic or manual bending
- Execution of generated 2D-programs
- USB interface
- Network + offline functions
- Multi-language support
- Remote diagnostics

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**Specifications subject to modifications without prior notice**

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**SynchroMaster Series**

**Technical Specifications**

**EasyBEND-2D MT control**

- 18.5” multi colour Multi Touch screen
- Standard 2D visualisation
- Automatic or manual bending
- Execution of generated 2D-programs
- USB interface
- Network + offline functions
- Multi-language support
- Remote diagnostics

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**Point to Point** drawing method & Real Time solution calculation during building up the workpiece design

**STEP PREVIEWER:** bar with possibility of horizontally scrolling of the bending steps

**COMBINED ICONS:** multiple functionalities by means of one single icon

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**Intuitive Interface** with combined numerical-graphical user interface

**SMART DRAFT:** innovative drawing method for generating 2D workpieces

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**European Standard**
SynchroMaster
Optional equipment

X-R BACKGAUGE

MANUAL CROWNING
Manual Anti-Deflection table for European Standard Bottom tooling

CNC CROWNING
Motorised CNC controlled anti-deflection table for European Standard and single V-dies

SynchroMaster
Optional equipment

FRONT STOP TYPE I

OPTICAL SAFETY GUARDS
DSP AND FIESSLER AKAS ® LC-II M
The CE regulation allows only Fast Approach Speed when applying an optical safety guard moving with the closing beam.

This guard is mounted to the beam and can be adjusted manually in height.

When detecting an obstacle within the protected area around the tip of the upper tooling, the system interrupts the downward movement instantaneously.
EuroMaster-S Series
Your allround bending machine

BEAM CONTROL
Beam parallelism and depth stop setting by means of bed referenced linear encoders for accurate beam position measurement, synchro module and proportional valve hydraulics

INTUITIVE FASTBEND-2D MT PREMIUM CONTROL
- Multi Touch Technology on 21.5" screen
- Intuitive Operator Interface
- Smart Draft
- Multi-Tasking
- Step Previewer
- Combined Icons
- Auto Tooling
- Pendant arm with optional height adjustment

EUROPEAN STANDARD TOP TOOLING WITH QUICK MANUAL CLAMPING
Picture: New Standard Top and Bottom Tooling (optional)

CROWNING TABLE
Compensates for ram and table deflection, ensuring consistent bending angles over the entire bending length. Standard CNC controlled (V-axis).

2-AXES X-R BACKGAUGE
Rigid and High Speed backgauge for accurate sheet positioning

2 SHEET SUPPORTS WITH GUIDING

Model 275 13 10
Flush Floor frame design for all models

ROL1 CLAMP3
(optional)

ROL200 Manual or Pneumatic
(optional)
**EuroMaster-S Series**

**Standard Execution**

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**INTUITIVE FASTBEND-2D MT PREMIUM CONTROL**

The application of Multi Touch technology reduces the number of keyboard- and button actions to an absolute minimum. The innovative Smart Draft, Design/Bending Multitasking, Step Previewer and Combined Icons features allow the operator a straightforward, intuitive control of the entire production cycle.

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**EUROPEAN STANDARD (ES) TOP TOOLING**

with Quick Manual Clamping arrangement and CNC controlled Anti Deflection Table with clamping for ES dies

The European Standard Tooling System has proven its flexibility, affordability and precision during the last decades in an infinite number of sheet metal working shops. A wide choice of a vast number of top and bottom tools allows for an unpredictable number of applications in various materials and thicknesses.

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**HIGH SPEED X-R-BACKGAUGE**

A rigid and accurate backgauge is an absolute condition for precision. High speed is an absolute condition for production output and short cycle times. The EuroMaster’s X-R backgauge (and optional X-R-Z/Z’ and X-R-Z1-Z2 versions) offers both. Manual finger width adjustment from the front.

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**Your Competitive Edge**

- **A. Outstanding Price-Performance Ratio**
- **B. State-Of-The-Art User Friendly 2D Multi Touch Control**
- **C. Highest Part Precision**

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**EuroMaster-S Series**

**Standard Execution**

- FastBEND-2D MT Premium control
  - Smart Draft + MultiTasking + Step Previewer + Combined Icons + Auto Tooling
  - 21.5” Multi Touch screen
- High Speed X-R Backgauge for accurate sheet positioning
  - Stroke X = 32”, speed = 2362”/min
  - Stroke R = 10”, speed = 590”/min
- European Standard (ES) top clamping with Quick Manual Clamping Arrangement
- Intermediate clamping with height 6” (all models ≤ 350 Ton), height 5” HD version (all models = 440 Ton)
- CNC controlled Anti Deflection Table (Crowning) for ES dies, including nute for clamping single-V dies
- 2 Sheet Supports 29.5” with guiding, manually adjustable in height
- LED illumination of the bending area
## EuroMaster-S Series Technical Specifications

### Daylight Opening - Stroke - Gap

#### Basic European Standard (ES)

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#### Option ES High Specs

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#### Option NS High Specs

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### Technical Specifications Daylight Opening - Stroke - Gap

#### EuroMaster-S Series

- **Daylight Opening**: Stroke - Gap
- **Technical Specifications**: Subject to modifications without prior notice

#### Specifications

- **ES High Specs**: Option
- **NS High Specs**: Option

#### Data Tables

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</table>

#### Descriptions

- **ES High Specs**: Option
- **NS High Specs**: Option

**Specifications subject to modifications without prior notice**

* EuroMaster-S models with built-in side doors, SpectroMaster style (see drawing on page 4)
PressMaster Series
Your High Spec, High Performance bending machine

INCREASED DAYLIGHT OPENING (21,25”), STROKE (14,65”)

BEAM CONTROL
Beam parallelism and depth stop setting by means of bed referenced linear encoders for accurate beam position measurement, synchro module and proportional valve hydraulics

INTUITIVE FASTBEND-3D MT PREMIUM CONTROL
- Multi Touch Technology on 24” screen
- Intuitive Operator Interface
- Smart Draft
- Multi-Tasking
- Step Previewer
- Combined Icons
- Auto Tooling
- PartManager-3D

NEW STANDARD HYDRAULIC TOP TOOL CLAMPING

LAZERSAFE OPTICAL SAFETY GUARD (optional)

SyncView (optional)

CNC CROWNING TABLE WITH HYDRAULIC CLAMPING FOR NEW STANDARD BOTTOM TOOLING
Compensates for ram and table deflection, ensuring consistent bending angles over the entire bending length. CNC controlled (V-axis)

4-AXES X-R-Z1-Z2 BACKGAUGE
Rigid and High Speed backgauge for accurate sheet positioning

2 SHEET SUPPORTS WITH GUIDING

Model PRM 165 12 10 with SyncView option
Flush Floor frame design for all models
• FastBEND-3D MT Premium control
  - Smart Draft + MultiTasking + Step Previewer + Combined Icons + Auto Tooling +
  - Part Manager-3D
  - 24" Multi Touch screen
• Increased Daylight Opening (540mm), Stroke (370mm) and Gap (400mm)
• Increased Fast Approach Beam Speed (up to 200mm/s) and Fast Return Speed (up to 170mm/s)
• High Speed X-R-Z1-Z2 Backgauge for accurate sheet positioning
  - Stroke X = 32", speed = 2362"/min
  - Stroke R = 10", speed = 590"/min
  - Speed Z1 and Z2 axes = 2362"/min
• New Standard (NS) hydraulic top tool clamping
• CNC controlled Anti Deflection Table with hydraulic bottom tool clamping
  - The New Standard Tooling System has proven its flexibility and precision during the last decades in an infinite number of sheet metal working shops. A wide choice of a vast number of top and bottom tools allows for a unpredictable number of applications in various materials and thicknesses.
• LED illumination of the bending area
• Less Power Consumption through application of Variable Inverter Drive (= VID) for motor-pump unit.
  - The VID technology allows for higher beam return speeds in combination with 'no power consumption with stationary beam.'

INTUITIVE FASTBEND-3D MT PREMIUM CONTROL
The application of Multi Touch technology reduces the number of keyboard- and button actions to an absolute minimum. The innovative Smart Draft, Design/Bending Multitasking, Step Previewer and Combined Icons features allow the operator a straightforward, intuitive control of the entire production cycle.

NEW STANDARD (NS)
hydraulic top tool clamping and CNC controlled Anti Deflection Table with hydraulic bottom tool clamping
The New Standard Tooling System has proven its flexibility and precision during the last decades in an infinite number of sheet metal working shops. A wide choice of a vast number of top and bottom tools allows for a unpredictable number of applications in various materials and thicknesses.

HIGH SPEED X-R-Z1-Z2 BACKGAUGE
A rigid and accurate backgauge is an absolute condition for precision. High speed is an absolute condition for production output and short cycle times. The PressMaster’s X-R-Z1-Z2 backgauge offers both.

Your Competitive Edge

A. Ultimate Price-Quality Ratio

B. State-Of-The-Art User Friendly 3D Multi Touch Control

C. Lowest Cycle Times
## PressMaster Series

### Technical Specifications

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Specifications subject to modifications without prior notice.

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### Backgauges

**X-R-Z1-Z2 (standard)**
- Stroke X = 32"
- Max. Speed X = 2362"/min
- Stroke R = 10"
- Max. Speed R = 590"/min
- Max. Speed Z1-Z2 = 2362"/min

**X-R-Z1-Z2-X3 (optional)**
- Stroke X = 32"
- Max. Speed X = 2362"/min
- Stroke R = 10"
- Max. Speed R = 590"/min
- Max. Speed Z1-Z2 = 2362"/min
- Stroke X3 = -2"/+2"

**X1-X2-R1-R2-W1-W2 (optional)**
- Stroke X1-X2 = 23.6"
- Stroke R1-R2 = 5.3"

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**Diagram:**

- **NEW STANDARD**
- **PressMaster**
- **Backgauges**

---
The FastBEND-2D/3D MT Premium Controls set a new standard in the market for flexible, reliable and high precision sheet metal bending.

Driven by state-of-the-art PC-based hardware, the system allows for very fast data processing and highly accurate calculation of the optimal bending programs for hydraulic CNC press brakes.

**Intuitive Interface** with a minimum of interactions to draw the workpiece and generate the corresponding program.

**Multi Touch Technology** on 24" screen (FastBEND-3D MT Premium) 21,5" screen (FastBEND-2D MT Premium)

**MULTITASKING** : workpiece drawing with instantaneous collision detection and calculation of the bending sequence in the background.

**STEP PREVIEWER** : bar with possibility of horizontally scrolling of the bending steps.

**COMBINED ICONS** : multiple functionalities by means of one single icon.

**Point to Point and SMART DRAFT** : innovative drawing methods for generating 2D workpieces.

**FastBEND-2D/3D MT Premium**

Intuitive Bending
**New Standard Tooling System**
Standard for PressMaster, Optional for EuroMaster-S

Wila’s *New Standard* Tooling System has become market leader for precision, quality and flexibility. The selfseating and selfaligning features considerably improve your set up times and productivity of your pressbrake. Both bottom (OZU) and top (BIU) tooling are clamped hydraulically. The bottom clamping is integrated in the crowning table.

New Standard tooling is safe: the Safety-Click system (for top tools up to 55 Lbs) enables vertical loading and unloading of your top tooling without any risk. For tools with bigger weight, a safety pin or key is applied.

Working surfaces and bending radii of New Standard tooling are hardened and precision ground for maximum longevity.

**MAIN BENEFITS**

1. **Vertical loading and unloading**
2. **Self-seating and self-aligning**
3. **High precision and longevity**

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**Optional Smart Tool Locator**
Increase your pressbrake productivity

The Smart Tool Locator (STL) further increases your pressbrake productivity. The system indicates by means of built-in LED’s the right clamping position of your tooling during tool set up and indicates the active tool location in production mode. The Smart Tool Locator offers significant benefits in speed, precision and flexibility.

Available for all hydraulic New Standard Tool Holders for top and bottom tools.

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**NEW STANDARD PREMIUM AND PRO TOOLING**

Both top (BIU) and bottom (OZU) tools are available in a wide variety of shapes and dimensions.

For more detailed information, see the New Standard Tooling Catalogue.

Available for all hydraulic New Standard Tool Holders for top and bottom tools.
Lazersafe Optical Safety Guards

Advanced Safety

CE Safety Regulations require the application of an Optical Safety Guard (OSG) when operating at closing speed.

Optical modules (transmitter and receiver) mounted to the ram of the machine monitor the downward movement in the area underneath the top tooling tip. During the fast closing speed, the beam movement is instantaneously stopped when the system detects an obstacle.

EuroMaster-S and PressMaster can be equipped with Lazersafe LZS-LG-HS with mute point 6 mm (RapidBend) or with Lazersafe IRIS (RapidBend Ultimate) with mute point 0 mm.

BOTH SYSTEMS GUARANTEE

- a high level of safety for the operator
- a high level of machine productivity
- security against tooling collision at high speeds

Lazersafe Optical Safety Guards IRIS

Features

- Optimal Speed Change Over Point
- Fast Closing Speed in safe conditions (monitoring till mute point 0 mm)
- Faster cycle times
- Ultimate Operator Safety
- Security against tooling damage
- Full Integration in the CNC System
- Automatic Alignment

NORMAL MODE

All sensors + 3 zones active
Fast Approach Speed till mute punt
Followed by Working Speed
(unless interruption by obstacle)

BOX MODE WITH PROGRAMMABLE FLANGE HEIGHT

Programmable flange height
Extra deliberately foot pedal command
Front and Rear zone switched off at flange height

MUTE STOP MODE

Applicable for workpieces with flanges which interrupt the monitored zone in normal mode operation. Initial fast approach till mute point, consequently operator infed of the workpiece.
**FEATURES ALFA-F**

- Different V-openings and dies are applicable, preferable single V’s with minimal height of 4”
- Quick manual adjustment along the machine length (optional CNC-positioning)
- Optional parking station if system is not in operation

**FEATURES IRIS PLUS**

- Different V-openings (0.31” until 1.38”) and dies are applicable, only single V’s
- Recommendable limitation on the working length: ca. 142”
- Most optimal accuracy results (10 ft or less)
- Never collision with workpiece

**FEATURES ALFA-F AND IRIS PLUS**

- Standard tooling is applicable - no extra cost for internal measuring units
- No contact elements - no mechanical wear
- Contactless angle measurement principle guarantees a reliable system even in heavy duty circumstances.

**Angle Measuring System Alfa-F**

**Angle Measurement**

System consisting of 2 laser beam transmitters and 2 camera’s on both sides of the workpiece.

Principle:

**Angle Measurement**

Force reduction + calculation of the springback

Automatic angle correction (taking into account the calculated springback)

**FEATURES ALFA-F**

- Different V-openings and dies are applicable, preferable single-V’s with minimal height of 4”
- Quick manual adjustment along the machine length (optional CNC-positioning)
- Optional parking station if system is not in operation

**FEATURES IRIS PLUS**

- Different V-openings (0.31” until 1.38”) and dies are applicable, only single V’s
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**FEATURES ALFA-F AND IRIS PLUS**

- Standard tooling is applicable - no extra cost for internal measuring units
- No contact elements - no mechanical wear
- Contactless angle measurement principle guarantees a reliable system even in heavy duty circumstances.
Sheet Following Systems
For bending long and thin sheets

Sheet Following Systems are especially recommended when bending long and thin sheets as they support as well as prevent second bends in your part.

They are very efficient in supporting heavy parts during decompression and the beam return movement.

The Sheet Following Units are operating electro-mechanically by means of servo motors, with adjustable speed as a function of the applied V-opening.

They can be adjusted vertically in order to suit different die heights.

Optional parking stations at right and/or left hand side of your pressbrake allow for parking your sheet following system when not operational. The system is moved out of the bending zone enhancing ergonomics and safety.

Picture: control panel at the right hand side is optional

Picture below:
Special Customized Sheet Following System with 1 telescopic arm inclusive width adjustment of the support surface and height adjustment of the following arm.
The operator no longer has to constantly keep turning his head between the screen and the workpiece. Eliminating repetitive torsional movements of the neck and torso reduces long-term health risks. Now, the operator can look in the same direction at both the screen and the workpiece, which simply requires eye movement – producing a more pleasant, natural and comfortable interaction.

What’s more, should something go wrong, the operator now recognizes it quickly. This is a safety benefit particularly when positioning the piece. The operator is no longer occupied either with the screen or with the workpiece. The workflow becomes one, so to speak – enabling the operator to focus 100% on the bending process itself.

**SYNCVIEW SPECIFICATIONS:**
- 8” display
- fast, automated positioning to the correct tool location
- Multi-Touch interface
- automated wireless charging