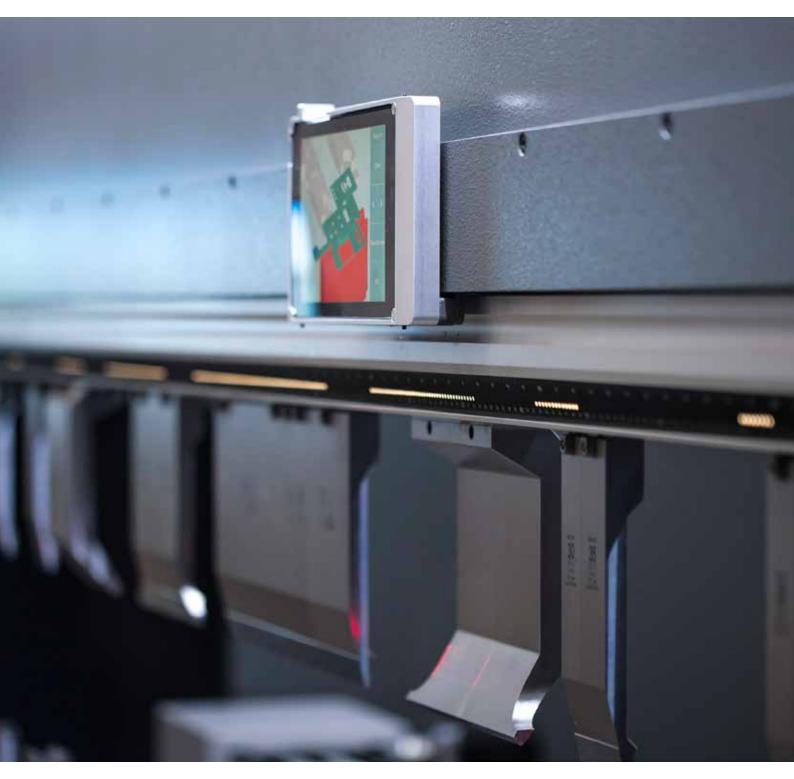


PRESS BRAKES



Press Brakes SynchroMaster EuroMaster-S PressMaster

Our Press Brakes Series

HACO's Affordable Bending Solutions to the Highest Standards

Always the right choice for your application

•	SynchroMaster Series	4
•	EuroMaster-S Series	1
•	PressMaster Series	18

Ed	quipment	
•	FastBEND-2D/3D MT Premium	24
•	New Standard Tooling System	26
•	Smart Tool Locator	27
•	Lazersafe Optical Safety Guards	28
•	Angle Measuring System Alfa-F	30
•	Angle Measuring System IRIS Plus	31
•	Sheet Following Systems	32
•	SyncView	34

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.



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 priceperformance 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.

FOLLOW THE HACO GROUP:

WWW.HACO.COM



TheHACOGroup



@haco_com



The HACO Group



hacogroup

SynchroMaster Series

Your entry-level machine

SynchroMaster Series

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 MTMulti Touch Screen control (optional)



ROL1 CLAMP3 (optional)



Model SRM 275 13 10 Flush Floor frame design for all models

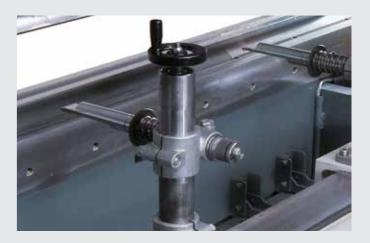
CROWNING TABLE (OPTIONAL)

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



4 5

ROL200 Manual or Pneumatic

(optional)

SynchroMaster Series

EasyBEND-2D T Control

EASYBEND-2D T CONTROL

- 18.5" colour graphic LCD display with Touch Screen Technology
- WIN10 loT 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



to CI

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.

Picture: X-R backgauge

- EasyBEND-2D control
- X Backgauge for accurate sheet positioning

Stroke X = 32", maximum speed = 945"/min Stroke R = 10", maximum speed = 236"/min (Optional)

- 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)

Your Competitive Edge

- A. Excellent Value for Money
- B. User Friendly EasyBEND-2D graphical control
- C. Proven Profitability for Various Workload Conditions

lacksquare

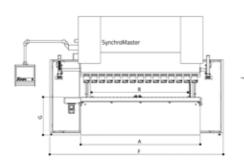
SynchroMaster Series

Technical Specifications

	Bending length	Capacity	Distance between housings	Gap	Daylight opening	Stroke	Table Height	Fast Approach Speed	Max. Bending Speed	Fast Return Speed	Motor Power	Length	Width	Height	Weight
	Α		В	С	D	E	G					F	I	J	
MODEL	"	Т						"/min	"/min	"/min	HP				Lbs
75 6 5	83	75	63	15,75	20,47	10,60	33	354	23,62	236	15	115	68	108	12346
7586	102	75	83	15,75	20,47	10,60	33	354	23,62	236	15	151	68	108	14991
75 10 8	122	75	102	15,75	20,47	10,60	33	354	23,62	236	15	171	68	108	16976
11086	102	110	83	15,75	20,47	10,60	36	472	23,62	295	15	136	69	115	15873
110 10 8	122	110	102	15,75	20,47	10,60	36	472	23,62	295	15	171	69	115	18519
110 12 10	144	110	124	15,75	20,47	10,60	36	472	23,62	295	15	193	69	115	22928
110 13 10	161	110	124	15,75	20,47	10,60	36	472	23,62	295	15	210	69	115	23369
110 14 12	169	110	148	15,75	20,47	10,60	36	472	23,62	295	15	218	69	115	26015
165 8 6	102	165	83	15,75	20,47	10,60	36	472	23,62	295	20	151	69	115	17196
165 10 8	122	165	102	15,75	20,47	10,60	36	472	23,62	295	20	174	69	115	20283
165 12 10	144	165	124	15,75	20,47	10,60	38	472	23,62	295	20	193	69	115	24251
165 13 10	161	165	124	15,75	20,47	10,60	38	472	23,62	295	20	211	69	115	24692
165 14 12	169	165	148	15,75	20,47	10,60	38	472	23,62	295	20	218	69	115	29101
220 8 6	102	220	83	15,75	20,47	10,60	36	378	18,90	283	25	151	81	115	21164
220 10 8	122	220	102	15,75	20,47	10,60	36	378	18,90	283	25	171	81	115	23589
220 12 10	144	220	124	15,75	20,47	10,60	36	378	18,90	283	25	193	81	115	26896
220 13 10	161	220	124	15,75	20,47	10,60	36	378	18,90	283	25	213	81	115	28881
220 14 12	169	220	148	15,75	20,47	10,60	36	378	18,90	283	25	218	81	115	36156
275 10 8	122	275	102	15,75	20,47	10,60	35	307	18,90	213	25	171	89	115	28660
275 12 10	144	275	124	15,75	20,47	10,60	35	307	18,90	213	25	193	89	115	30644
275 13 10	161	275	124	15,75	20,47	10,60	35	307	18,90	213	25	213	89	115	33731
275 14 12	169	275	148	15,75	20,47	10,60	35	307	18,90	213	25	218	89	115	36817
275 16 13	197	275	159	15,75	20,47	10,60	37	307	18,90	213	25	246	89	115	52470
275 20 16	236	275	199	15,75	20,47	10,60	43	307	18,90	213	25	285	89	115	67241
350 10 8	122	350	102	15,75	24,40	16,53	35	236	18,90	224	30	171	87	137	37479
350 12 10	144	350	124	15,75	24,40	16,53	35	236	18,90	224	30	193	87	137	42990
350 13 10	161	350	124	15,75	24,40	16,53	35	236	18,90	224	30	210	87	137	46297
350 14 12	169	350	148	15,75	24,40	16,53	35	236	18,90	224	30	218	87	137	50706
350 16 13	197	350	159	15,75	24,40	16,53	37	236	18,90	224	30	246	87	137	60627
350 20 16	236	350	199	15,75	24,40	16,53	43	236	18,90	224	30	285	87	137	71650
440 10 8	122	440	102	15,75	24,40	16,53	41	213	16,54	142	50	161	101	156	57320
440 12 10	144	440	124	15,75	24,40	16,53	41	213	16,54	142	50	183	101	156	63934
440 13 10	161	440	124	15,75	24,40	16,53	41	213	16,54	142	50	200	101	156	68343
440 14 12	169	440	124	15,75	24,40	16,53	41	213	16,54	142	50	208	101	156	70548

Specifications subject to modifications without prior notice







SynchroMaster

EasyBEND-2D MT (Optional)

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



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



Intuitive Interface with combined numerical-graphical user interface



SMART DRAFT: innovative drawing method for generating 2D workpieces



COMBINED ICONS: multiple functionalities by means of one single icon



Intuitive Interface with program overview and possibility of operator messages

SynchroMaster

Optional equipment

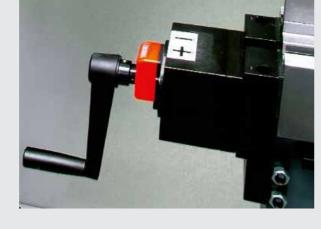
SynchroMaster Optional equipment

X-R BACKGAUGE



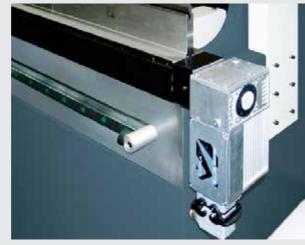
MANUAL CROWNING

Manual Anti-Deflection table for European Standard Bottom tooling



CNC CROWNING

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



FRONT STOP TYPE I

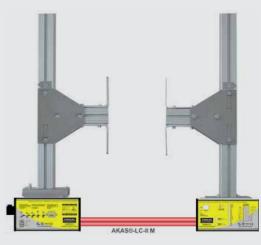


OPTICAL SAFETY GUARDS DSP AND FIESSLER AKAS ® LC-II M

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

EuroMaster-S Series



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)





ROL1 CLAMP3 (optional)



ROL200 Manual or Pneumatic (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



EuroMaster-S Series

Standard Execution

EuroMaster-S Series

Standard Execution



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.



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.



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.

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

Your Competitive Edge

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

EuroMaster-S Series

Technical Specifications

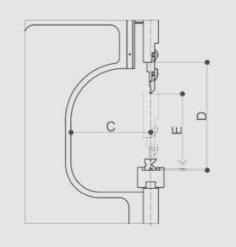
Daylight Opening - Stroke - Gap

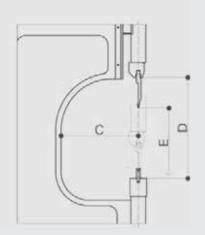
EuroMaster-S Series

Technical Specifications

(Valid for Basic European Standard)

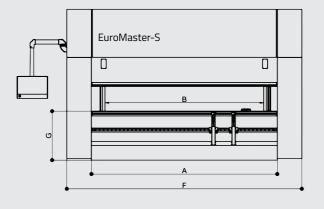
		ic Europ andard (I		Option ES High Specs			Option	New Sta	andard	Option NS High Specs			
	Daylight Opening	STROKE	GAP	Daylight Opening	STROKE	GAP	Daylight Opening	STROKE	GAP	Daylight Opening	STROKE	GAP	
	D	E	С	D	E	С	D	Е	С	D	Е	С	
	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	
75 T	20.47	10.6	15.75	24.41	15.56	15.75	17.32	10.6	15.75	21.25	14.57	15.75	
110 T	20.47	10.6	15.75	24.41	15.56	15.75	17.32	10.6	15.75	21.25	14.57	15.75	
165 T	20.47	10.6	15.75	24.41	15.56	15.75	17.32	10.6	15.75	21.25	14.57	15.75	
220 T	20.47	10.6	15.75	24.41	15.56	15.75	17.32	10.6	15.75	21.25	14.57	15.75	
275 T	20.47	10.6	15.75	24.41	15.56	15.75	17.32	10.6	15.75	21.25	14.57	15.75	
350 T	24.41	16.54	15.75	-	-	-	21.25	16.54	15.75	-	-	-	
440 T	24.41	16.54	15.75	-	-	-	21.25	16.54	15.75	-	-	-	

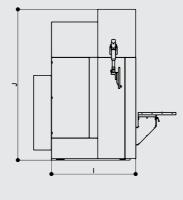




EUROPEAN STANDARD

NEW STANDARD





	Bending length	Capacity	Distance between housings B	Table Height G	Fast Approach Speed	Max. Bending Speed	Fast Return Speed	Motor Power	Length	Width	Height	Weight
MODEL		_						LID			,	
MODEL		Т			"/min	"/min	"/min	HP				Lbs
75 6 5°	83	75	63	36	354	23,62	236	15	122	62	115	13007
75 8 6°	102	75	83	36	354	23,62	236	15	141	62	115	16535
75 10 8°	122	75	102	36	354	23,62	236	15	161	62	115	17637
110 8 6°	102	110	83	36	472	23,62	295	15	141	62	115	16535
110 10 8°	122	110	102	36	472	23,62	295	15	161	62	115	20503
110 12 10°	144	110	124	36	472	23,62	295	15	177	62	115	23149
110 13 10°	161	110	124	36	472	23,62	295	15	200	62	115	23810
110 14 12°	169	110	148	36	472	23,62	295	15	208	62	115	26676
165 8 6°	102	165	83	36	472	23,62	295	20	141	67	115	18519
165 10 8°	122	165	102	36	472	23,62	295	20	161	67	115	22267
165 12 10°	144	165	124	38	472	23,62	295	20	182	67	115	25574
165 13 10°	161	165	124	38	472	23,62	295	20	201	67	115	26235
165 14 12°	169	165	148	38	472	23,62	295	20	208	67	115	29762
22086°	102	220	83	36	378	18,90	283	25	141	72	115	22928
220 10 8°	122	220	102	36	378	18,90	283	25	161	72	115	24692
220 12 10°	144	220	124	36	378	18,90	283	25	177	72	115	28219
220 13 10°	161	220	124	36	378	18,90	283	25	200	72	115	30203
220 14 12°	169	220	148	36	378	18,90	283	25	208	72	115	37038
275 10 8°	122	275	102	35	307	18,90	213	25	161	80	115	29101
275 12 10°	144	275	124	35	307	18,90	213	25	182	80	115	32628
275 13 10°	161	275	124	35	307	18,90	213	25	200	80	115	35715
275 14 12°	169	275	148	35	307	18,90	213	25	208	80	115	37699
275 16 13*	197	275	159	37	307	18,90	213	25	246	89	137	53572
275 20 16*	236	275	199	43	307	18,90	213	25	285	89	137	68343
350 10 8*	122	350	102	35	236	18,90	224	30	171	87	137	38581
350 12 10*	144	350	124	35	236	18,90	224	30	193	87	137	44092
350 13 10*	161	350	124	35	236	18,90	224	30	210	87	137	47399
350 14 12*	169	350	148	35	236	18,90	224	30	218	87	137	51809
350 16 13*	197	350	159	37	236	18,90	224	30	246	87	137	61729
350 20 16*	236	350	199	43	236	18,90	224	30	285	87	137	72753
440 10 8*	122	440	102	41	213	16,54	142	50	161	101	156	58422
440 12 10*	144	440	124	41	213	16,54	142	50	183	101	156	65036
440 13 10*	161	440	124	41	213	16,54	142	50	200	101	156	69446
440 14 12*	169	440	124	41	213	16,54	142	50	208	101	156	71650

Specifications subject to modifications without prior notice
° Euromaster-S models with built-in side doors
* Euromaster-S models with free-standing side doors, SynchroMaster style (see drawing on page 8)

PressMaster Series

Your High Spec, High Performance bending machine

PressMaster Series



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

NEW STANDARD HYDRAULIC TOP TOOL CLAMPING

LAZERSAFE OPTICAL SAFETY GUARD (optional)

- · Intuitive Operator Interface
- Smart Draft
- Multi-Tasking
- Step Previewer
- Combined Icons
- Auto Tooling
- PartManager-3D



Model PRM 165 12 10 with SyncView option Flush Floor frame design for all models

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

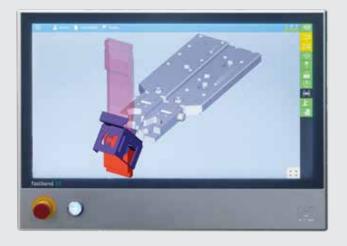


PressMaster Series

Standard Execution

PressMaster Series

Standard Execution



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.

· 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 (Crowning) for NS dies
- · 2 Sheet Supports with guiding, manually adjustable in height
- · 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.

Your Competitive Edge

- A. Ultimate Price-Quality Ratio
- B. State-Of-The-Art User Friendly 3D Multi Touch Control

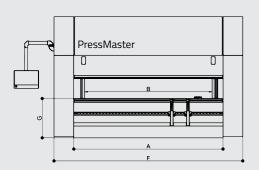
C. Lowest Cycle Times

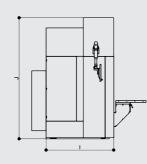
PressMaster Series

Technical Specifications

	Bending length	Capacity	Distance between housings	Gap	Daylight opening	Stroke	Table Height	Fast Approach Speed	Max. Bending Speed	Fast Return Speed	Motor Power	Length	Width	Height	Weight
	А		В	С	D	E	G					F	1	J	
MODEL		Т						"/min	"/min	"/min	HP				Lbs
75 6 5	80	75	63	15,75	21,25	14,56	36	354	23,60	354	15	122	62	115	13228
7586	100	75	83	15,75	21,25	14,56	36	354	23,60	354	15	141	62	115	16976
75 10 8	120	75	102	15,75	21,25	14,56	36	354	23,60	354	15	161	62	115	18078
11086	100	110	83	15,75	21,25	14,56	36	472	23,60	401	15	141	62	117	17857
110 10 8	120	110	102	15,75	21,25	14,56	36	472	23,60	401	15	161	62	117	21164
110 12 10	144	110	124	15,75	21,25	14,56	36	472	23,60	401	15	177	62	117	23810
110 13 10	161	110	124	15,75	21,25	14,56	36	472	23,60	401	15	200	62	117	25794
110 14 10	167	110	148	15,75	21,25	14,56	36	472	23,60	401	15	208	62	117	28219
165 8 6	100	165	83	15,75	21,25	14,56	36	472	23,60	401	20	141	67	117	19180
165 10 8	120	165	102	15,75	21,25	14,56	36	472	23,60	401	20	161	67	117	24251
165 12 10	144	165	124	15,75	21,25	14,56	36	472	23,60	401	20	183	67	117	26455
165 13 10	161	165	124	15,75	21,25	14,56	36	472	23,60	401	20	200	67	117	28881
165 14 12	167	165	148	15,75	21,25	14,56	36	472	23,60	401	20	208	67	117	32187
22086	100	220	83	15,75	21,25	14,56	36	472	18,90	401	25	141	72	117	23810
220 10 8	120	220	102	15,75	21,25	14,56	36	472	18,90	401	25	161	72	117	26455
220 12 10	144	220	124	15,75	21,25	14,56	36	472	18,90	401	25	177	72	117	28881
220 13 10	161	220	124	15,75	21,25	14,56	36	472	18,90	401	25	200	72	117	30644
220 14 12	167	220	148	15,75	21,25	14,56	36	472	18,90	401	25	208	72	117	37479
275 10 8	120	275	102	15,75	21,25	14,56	35	307	18,90	212	25	161	80	117	31306
275 12 10	144	275	124	15,75	21,25	14,56	35	307	18,90	212	25	177	80	117	34172
275 13 10	161	275	124	15,75	21,25	14,56	35	307	18,90	212	25	200	80	117	36156
275 14 12	167	275	148	15,75	21,25	14,56	35	307	18,90	212	25	208	80	117	39463

Specifications subject to modifications without prior notice







BackgaugesStandard and optional



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"

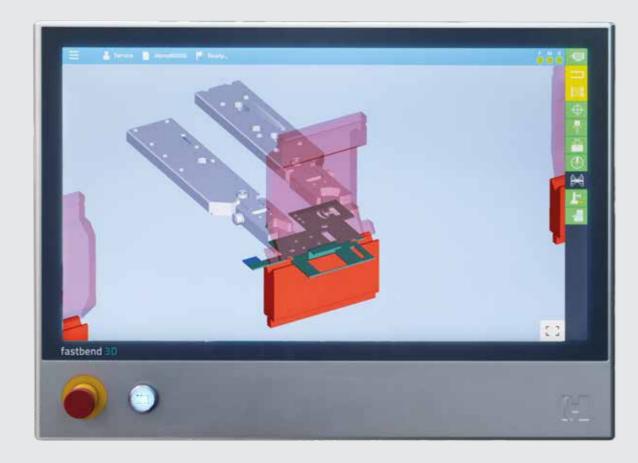
FastBEND-2D/3D MT Premium

Intuitive Bending

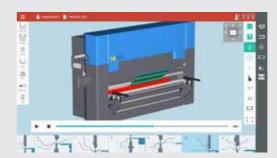
Intuitive Bending

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

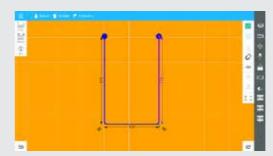
Driven by **state-of-the-art PC-based hardware**, the system allows for very fast data processing and highly accurate calculation of the optimal bending programs for hydraulic CNC press brakes.



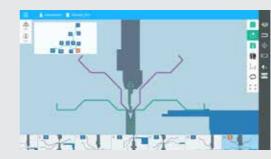
Intuitive Interface with a minimum of interactions to draw the workpiece and generate the corresponding program



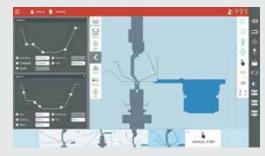
Multi Touch Technology on 24" screen (FastBEND-3D MT Premium) 21,5" screen (FastBEND-2D MT Premium)



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

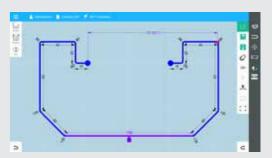


STEP PREVIEWER: bar with possibility of horizontally scrolling of the bending steps

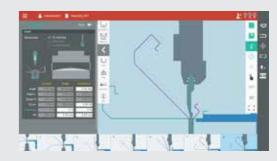


FastBEND-2D/3D MT Premium

Intuitive Interface with combined numerical-graphical user interface



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



COMBINED ICONS: multiple functionalities by means of one single icon

New Standard Tooling System

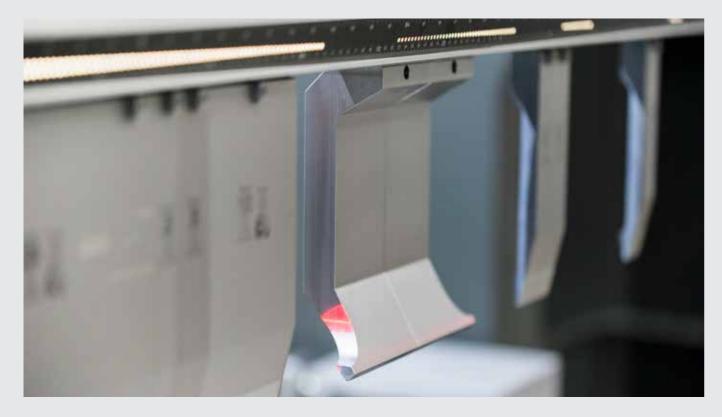
Standard for PressMaster, Optional for EuroMaster-S

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

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.



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



PM

Lazersafe Optical Safety Guards IRIS Features

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.

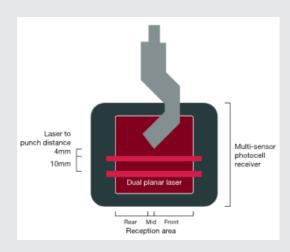
EuroMaster-S and PressMaster can be equipped with LazerSafe LZS-LG-HS with mute point 6mm (RapidBend) or with LazerSafe IRIS (RapidBend Ultimate) with mute point 0 mm.

BOTH SYSTEMS GUARANTEE

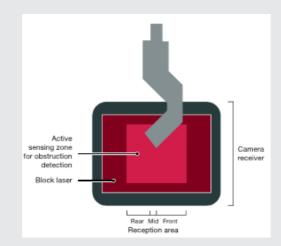
a high level of safety for the operator

a high level of machine productivity

security against tooling collision at high speeds



Lazersafe LZS-L6-HS

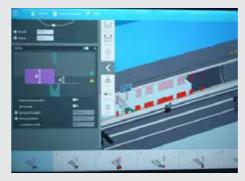


Lazersafe IRIS

- Optimal Speed Change Over Point
- Fast Closing Speed in safe conditions (monitoring till mute point 0 mm)

EMS

- **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 infeed of the workpiece.

Angle Measuring System Alfa-F

Angle Measurement











Angle Measuring System IRIS Plus

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 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.

Automatic angle measurement and automatic correction of the bending angle



Active Angle control is a highly accurate angle control process that calculates spring back for each individual bend, then controls the bend depth with Live Angle Bending to achieve the correct angle.

IRIS Plus comprises a laser transmitter and receiver set mounted to the upper beam of the press brake. It includes a high speed digital camera and image data processing system contained within the receiver unit.



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

- Compact assembly guarantees an optimal working space for operator and material
- · Possibility of measuring on workpieces with apertures
- · Guaranteed precision

Sheet Following Systems

For bending long and thin sheets



Optional parking stations

Sheet Following Systems

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.





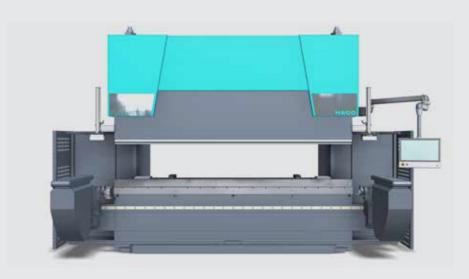
They can be adjusted vertically in order to suit different die heights.







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.



SyncView

Optional time saving equipment

EMS PM

SyncView

Optional time saving equipment

SYNCVIEW: BENDING EFFICIENCY

SyncView was invented from the notion that it would be ideal to **watch both screen and workpiece simultaneously** during the bending process. This innovative solution consists of a tablet screen that is automatically positioned at the **optimal location**: where the piece is actually positioned by the operator.

SYNCVIEW SPECIFICATIONS:

- 8" display
- fast, automated positioning to the correct tool location
- Multi-Touch interface
- automated wireless charging



SYNCVIEW'S ADVANTAGES

Time-savings & efficiency

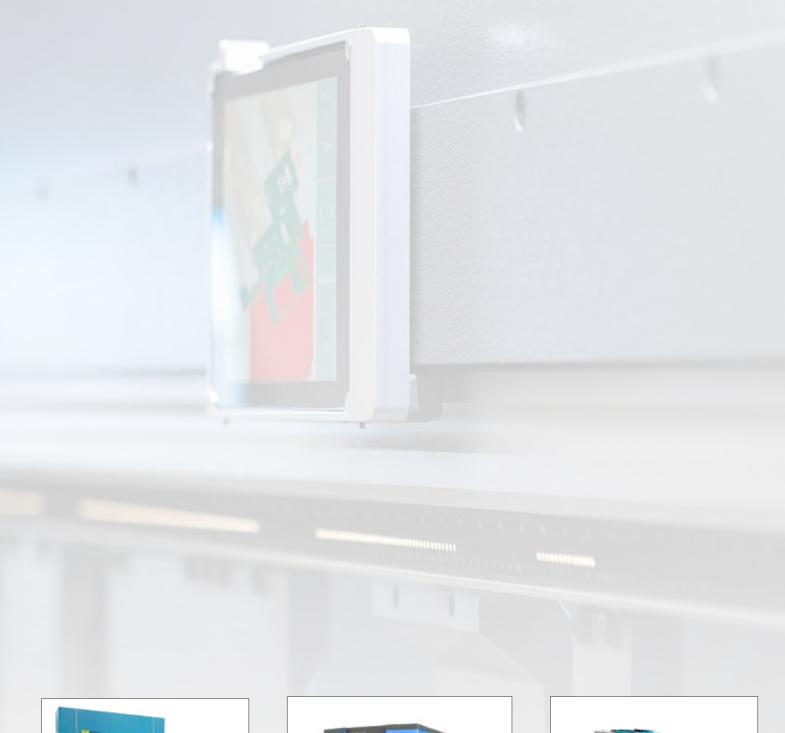
The operator no longer has to look at a fixed 3D image on the screen – sometimes meters away from him – time is no longer wasted when bending (complex) parts. With this innovation– in which the 3D image of the bending steps is always right in front of the user – he can understand and carry out the steps quicker during the bending sequence. In addition, the 3D images on the screen can be rotated, without the operator having to leave the work position. This enables an even better and faster evaluation of complex pieces than is possible from a single perspective. User tests indicate time-savings of up to 25% during the actual bending process.

Ergonomics & physical comfort

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.

Safety & user-friendliness

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.





Robot Bending



Fiber Laser Cutting



Punching

JATAS Machinery Sales Inc. 503 Frontage Ave. W Underwood, MN 56586 218-826-6464 Cell: 218-929-1577 Tony Heck

SynchroMaster EuroMaster-S PressMaster

For Impressive Performances