

PRESS BRAKE

bending...

...has never been easier.



## [HIGH-QUALITY ACCURL PRESS BRAKES FOR THE MORE DEMANDING TASTE]

ACCURL® Top level EuroMaster hybrid press brake with high-end specifications and execution, with advanced motion technologies and impressively quiet with the integration of advanced safety equipment and options. The EuroMaster is the ultimate in creating complex parts.



WARRANTY\*

5 YEARS  
ACCURL

### WHY ACCURL PRESS BRAKE ?

#### Innovative Modular Design:

- <Our machines can also be combined with automation modules to create a complete system for the whole working process.
- <Customized solutions at a reasonable price, from basic to high end machine.

#### Experience

- <33 years of experience and more than 12,000 installed machines.
- <An expert R&D team committed to research the most competitive technology for our customers.

#### More Varied Solutions for Bending:

- <Sustainability and social responsibility are characteristics of modern companies and add to competitiveness.
- <Comprehensive range of basic tools in stock and modified solutions according to customer needs

#### ACCURL High Quality Equipment:

- <The critical parts of the Accurl press brakes are manufactured in Germany.
- <We rely on our quality and therefore give our press brakes a 5-year warranty.
- <The HOERBIGER hybrid system is an innovative servo drive for press brakes.

#### After-Sales Service:

- <Original ACCURL spare parts to guarantee full performance and prolonged durability.
- <Wide range of consultation services on machine operation, programming and maintenance.

SINCE  
1988

Sheet metal  
working  
machines



- RapidBend



- FlexSpeed



- SmartLink



- AutoSense

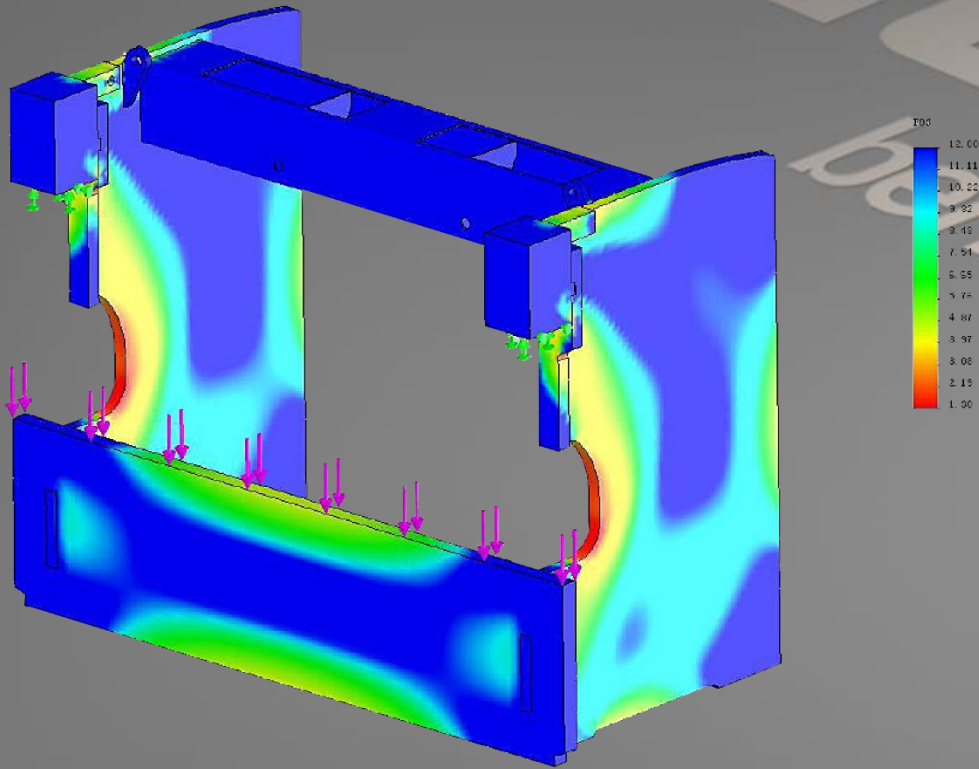


- BendShield

## ENGINEERING DESIGN AND R & D

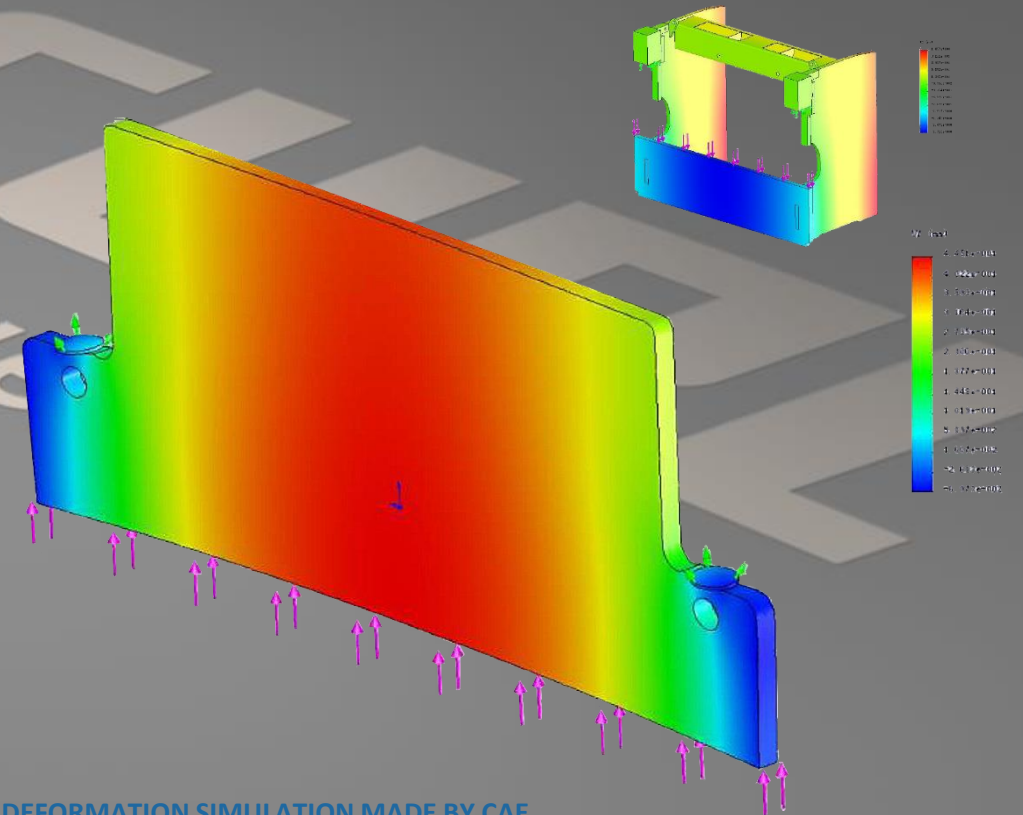


ACCURL have vast experience with R&D and designing components to very tight tolerances with SOLIDWORKS 3D CAD modelling techniques, and ACCURL Engineers are competent in designing with first principle calculations for the CNC press brake and laser cutting machine.



### FEA & STRESS ANALYSIS

The CAE software SOLIDWORKS used as the method to analyze the linear static construction, stress and deformation for machine frames. So for complicated structures, highly complex loading's, transient modelling and combinations of the above, FEA makes sense.



### DEFORMATION SIMULATION MADE BY CAE

The results of the Finite element analysis are summarized in a detailed report with all the pictures to highlight the high stress areas and where we think you may have problems and we will highlight changes in the design that can fix potential problems in a cost effective way.



## MECHANICAL PROCESSES



The machine frame goes through a heat treatment process for welding stress relief. Accurl machine frames are machined with 5 axis CNC machining centers with single reference fixing. This keeps all axis parallel and the surfaces of the machine precise which provides great accuracy and longevity to the machine.



### CNC BORING MACHINE FOR EXTREME PRECISION

\*Advantage:

- Very stiff and stable base frame
- Electric welding of high precision
- Usage of high-tech boring machines for extreme precision parts.



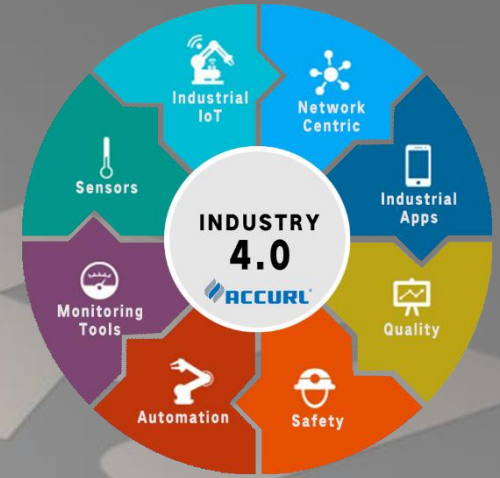
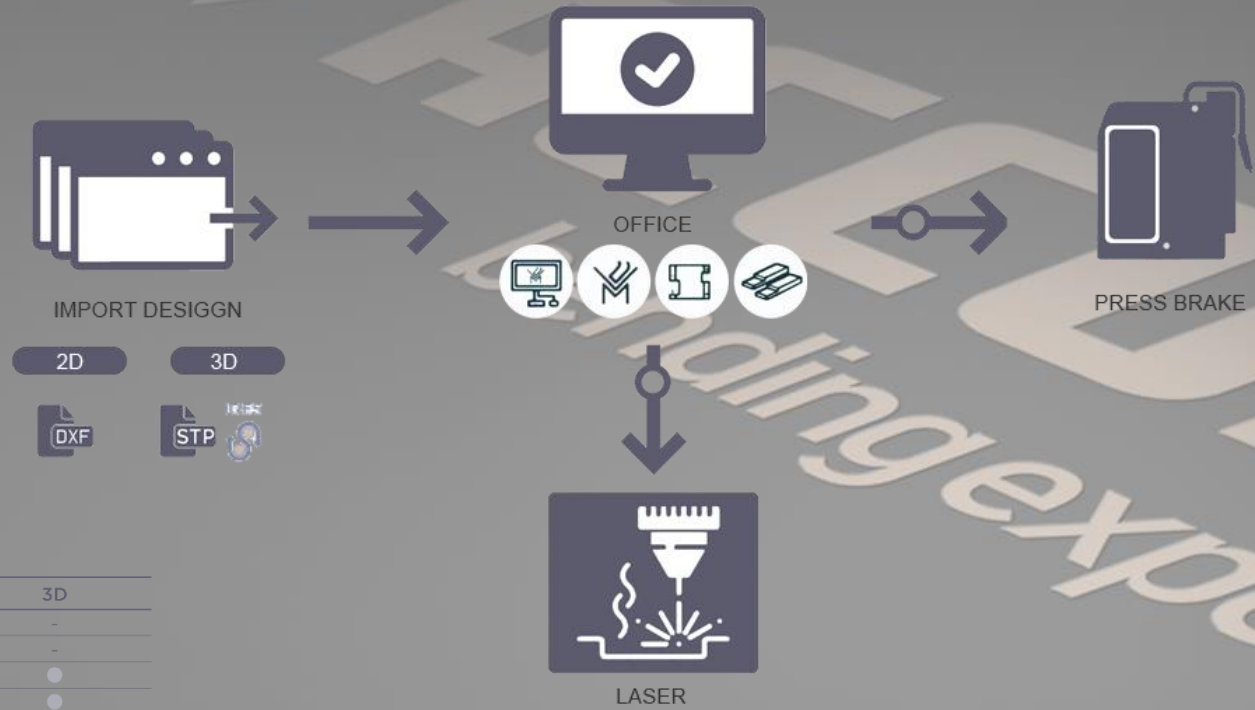
### HEAT TREATMENT PROCESSES

ACCURL press brake and laser cutting machine steel frames undergo annealing at over 600° to relieve stress and they are built to last years of heavy use without distortion.

# ACCURL INDUSTRY 4.0 within the Reach of Companies™

ACCURL® advocated its own new IoT technology as “Intelligent Internet of things factory”, termed the “Smart-Factory”.

# 4.0 INDUSTRY



	2D	3D
Profile TL	●	-
Profile T2D	●	-
Profile T3D	●	●
PC RA	●	●
Radbend	●	●

The Profile T3D offline software is an indispensable tool to increase the profitability of a machine.



### Productivity Monitor

Refresh time: Friday, October 20th 2017, 15:13  
 Start log time: Wednesday, February 1st 2017, 15:41  
 End log time: Tuesday, March 7th 2017, 8:45  
 Strokes in log: 5363 (today: 0)  
 Machine status: started (product Alu-26-004)  
 Current stockcounter: 2

**Filter**

Start:

End:

Quick:

### Product Overview

Product Name	Amount	Average Production Time [s]
1	6	99.5
121	5	424.7
123-002_1	1	193.0
123456789	1	52.3
5462	1	90.0
ABC-389-xx	13	1256.7
Alu-26-004	2	1607.1
Big radius	47	99.2
Box25	50	253.6
Box25 1	60	287.4

### Products in Time



▶▶ NEXT

**EUROMASTER**

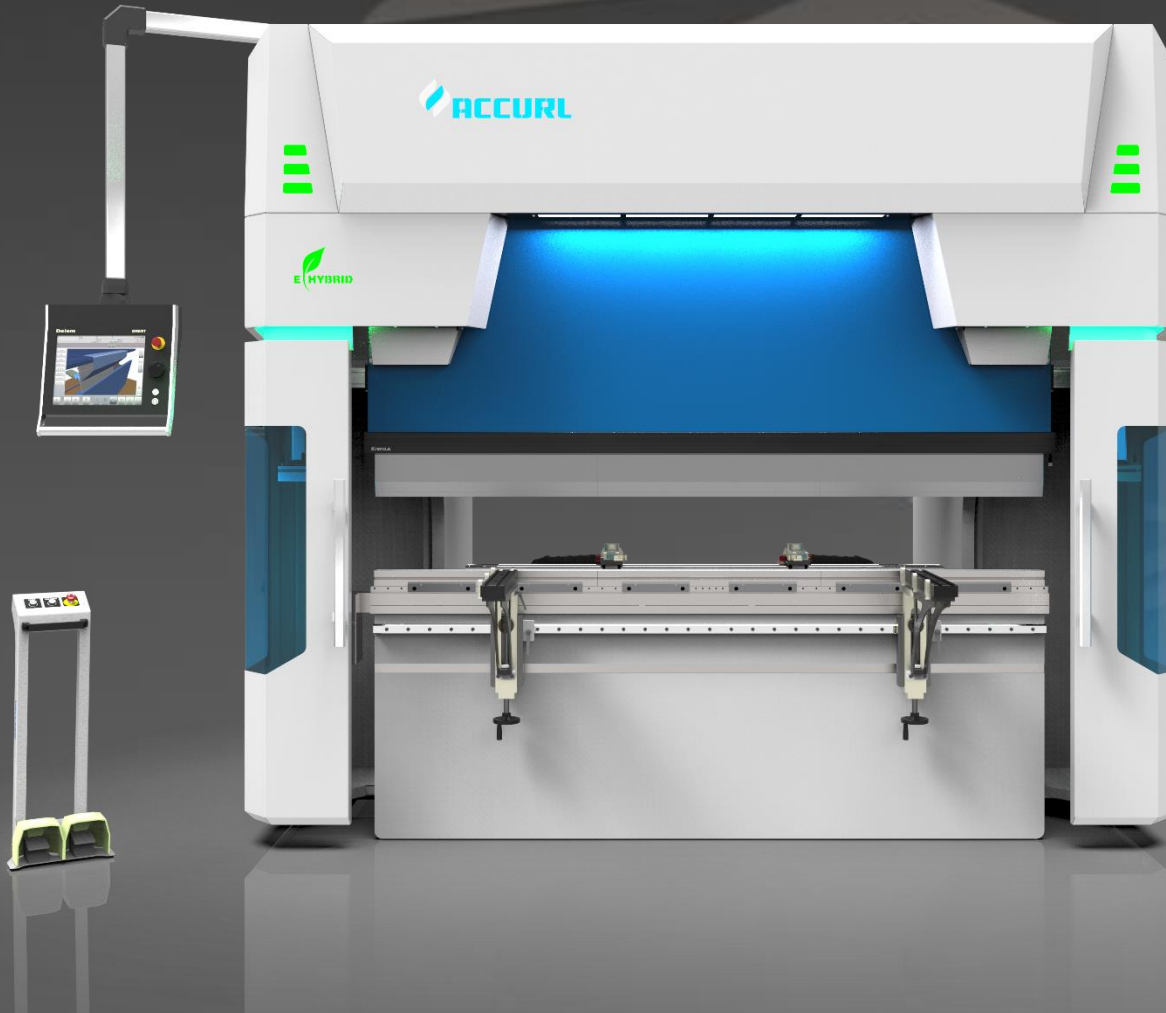
<< Press Brake that combines reliability and return on investment.



# ▶▶ NEXT

Independent Electrohydraulic all-in-one drive Plug and Work – Fast – Precise – Energy efficient.

 **ACCURL®**



## INDUSTRY 4.0 READY

- <Connection to company LAN and ERP
- <Interface to other machine tools
- <Remote assistance and diagnostics



## NEW DESIGN

- <More ergonomic
- <New coded security doors
- <High-gloss anti-dirt water-based paint



## GREEN HYBRID SERVO

- <Up to 60% Energy Saving
- <Maximum CO2 and oil reduction
- <Maximum return on your investment



## HIGH PERFORMANCES

- <More than 35% higher productivity
- <Ram Speed 250 mm/s
- <Z-axis Speed 1000 mm/s



## ENVIRONMENTALLY FRIENDLY

- <Considerably Reduced oil tank volume up to 90%



## QUIET OPERATION

- <Lowered sound pressure level at 45 dB.

**WARRANTY\***

**5**  
YEARS  
ACCURL

**BSM**  
BEND SPEED MANAGEMENT

**DAC**  
DYNAMIC ANGLE CONTROL

**AAC**  
ACTIVE ANGLE CONTROL

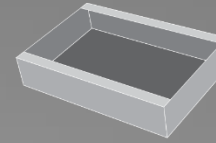
 - RapidBend  - FlexSpeed  - SmartLink  - AutoSense  - BendShield

## Familiar name, innovative technology(Comparison of Hydraulic and hybrid):

ACCURL – for years, this name has been representative of quality, reliability and flexibility.



The highly flexible all-round CNC press brake EuroMaster is the latest development of the company. include new technical innovations in combination with the already well proven technology and know-how from many years of experience and passion coming from ACCURL.A highly dynamic hybrid-servo drive system and the user-friendly control are only two of the outstanding properties of our new EuroMaster CNC pressbrake.



### Time cycle comparison

Bending time necessary to realize this 6 bend box - only machine time.



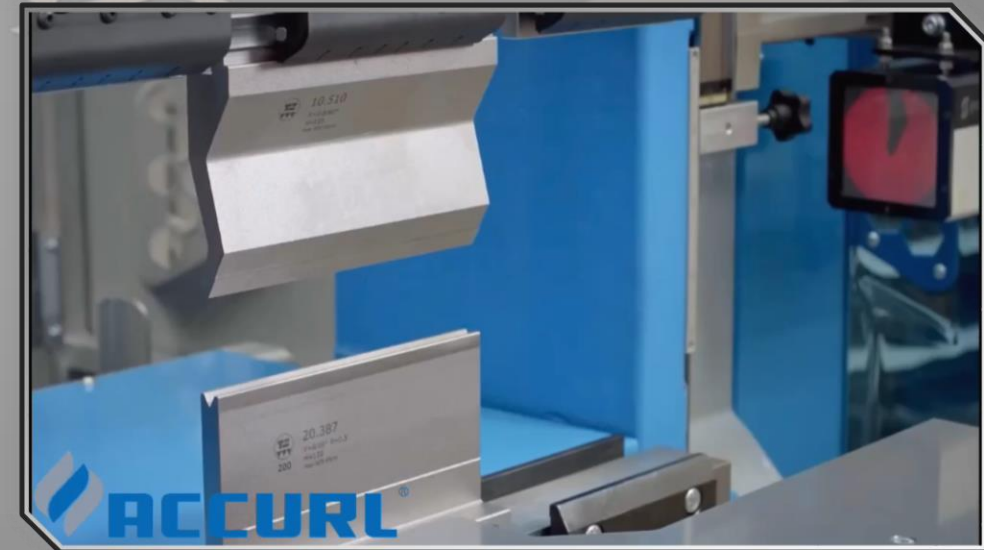
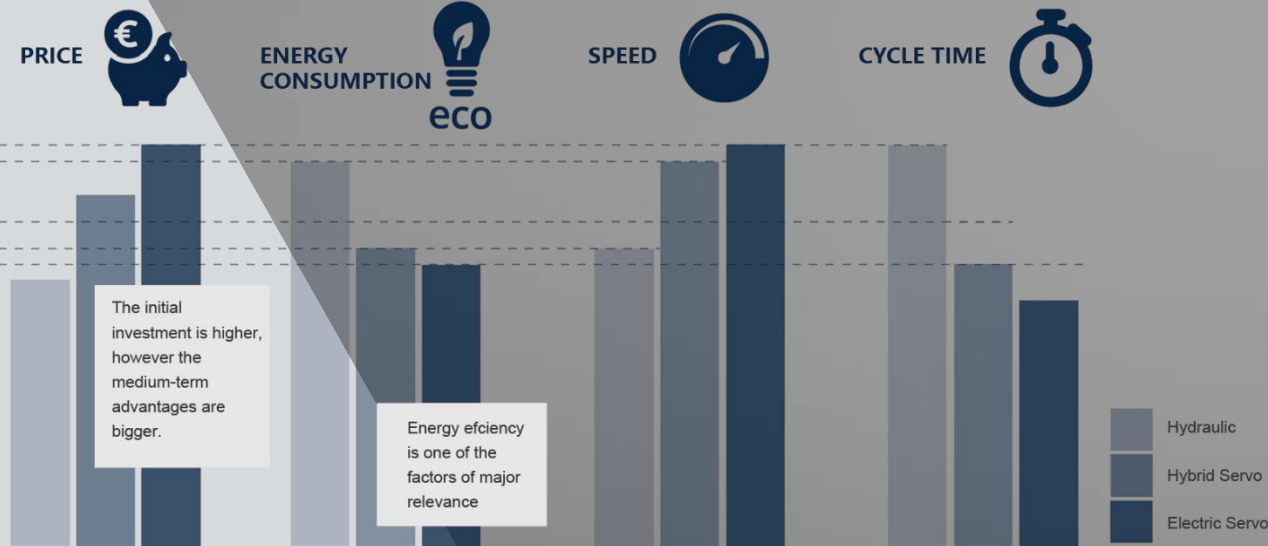
Genius Hydraulic  
180 mm/s



EuroMaster Hybrid  
220 mm/s



eB Icon Electric Servo  
220 mm/s





# CHOOSE AND CONFIGURE YOUR PRESS BRAKE:

We aim at making bending and cutting sheet metal a quick, precise and reliable process. We try to make our Clients more productive and competitive. We aim to become the constant point of reference in the theory and practice of press braking and shearing.



## 1. LAZERSAFE WITH IRIS

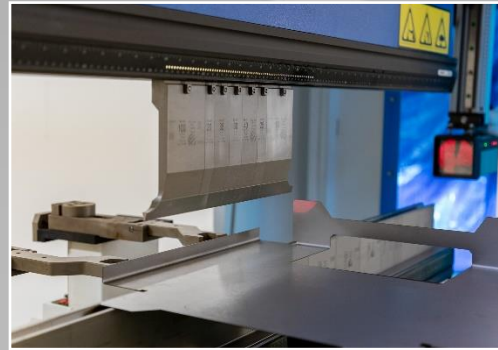
With Tray mode is designed for bending tray or box shaped work pieces where the side flanges block the front or rear sensors.

## 2. ACCURL BGA-6 for X1/X2, R1/R2, Z1/Z2-

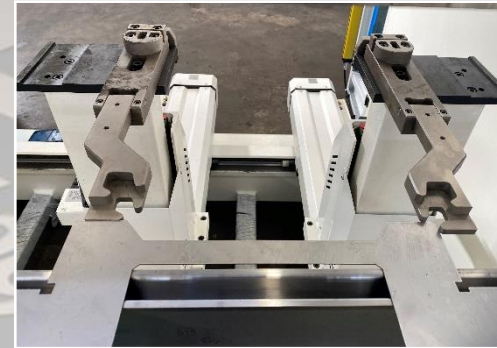
Maximum precision and versatility to make conical bends and complex profiles with no errors.

## 3. WIRELESS FOOT PEDAL

This is the evolution of the standard Accurl foot controls. It has been designed for those customers who do not want the hassle of connecting cables on the floor in front of the machine.



LAZERSAFE WITH TRAY /BOX MODE



ACCURL BGA-6-AXIS CNC BACKGAGE



WIRELESS FOOT PEDAL

## 4. DAYLIGHT

The daylight is the opening between bench and ram. The Box version allows to form boxes without the need for special punches.

## 4. LAZERSAFE WITH IRIS PLUS

IRIS Plus real time angle correction An important device for the most demanding applications with automatic angle measurement and automatic correction of the bending angle.

## 6. ePrAX GREEN HYBRID SERVO SYSTEM

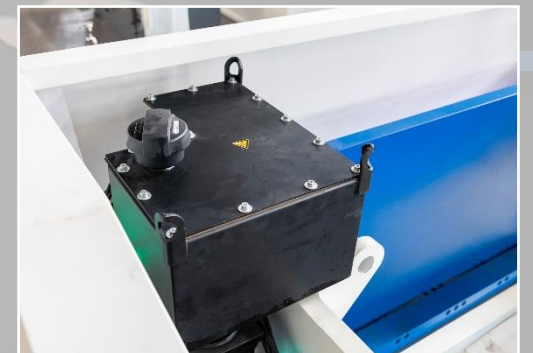
The ePrAX<sup>®</sup> Hybrid Servo System- improving energy efficiency of up to 73 % compared to conventional systems.



DAYLIGHT 600MM



LAZERSAFE WITH IRIS PLUS



ePrAX GREEN Hybrid Servo System

# DELEM CNC CONTROL UNIT:



ACCURL® has chosen the very powerful new generation DELEM DA69T offers an higher level of efficiency in programming and control of press brakes.

## DELEM

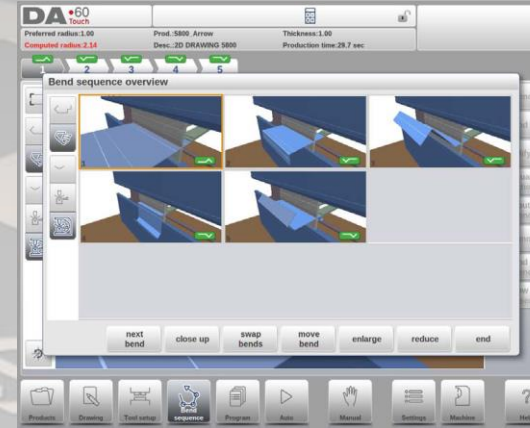
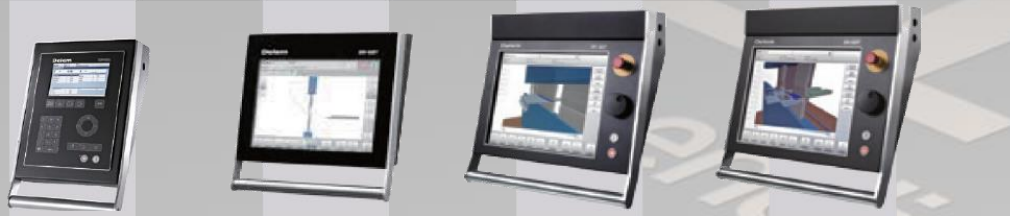
DA -52s

DA -58T <sup>S</sup>

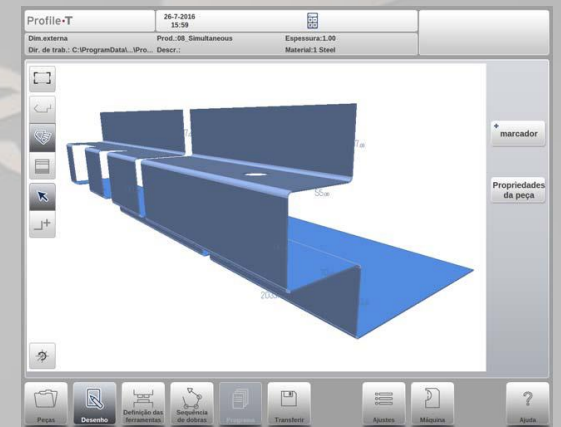
DA -66T

DA -69T

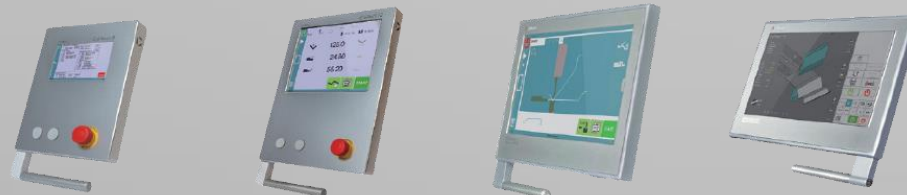
Delem



Axes	4	4	4	4	8	8	8	8
Screen	10"	7"	15"	12"	7"	19"	17"	15"
2D graphic view	-	-	●	●	●	●	●	●
3D graphic view	-	-	-	-	●	○	●	●
3D programming	-	-	-	-	-	○	●	●
Auto tooling selection	-	-	-	●	●	-	●	●
Touch screen	●	●	●	●	●	●	●	●
USB ports	1	1	1	1	2	1	2	1
2D DXF import	-	-	-	-	-	-	●	●
3D IGES/STEP import	-	-	-	-	-	-	●	●
3D Offline import	-	-	-	-	○	-	●	●
Export DXF 2D FP	-	-	-	-	-	-	●	●
Offline software	Profile TL	PC Modeva	Profile TL	PC Modeva	Profile TL	PC Modeva	Profile T3D	PCRA Premium



CYBELEC



CybTouch 8 PS

CybTouch 12 PS

VisiTouch 19

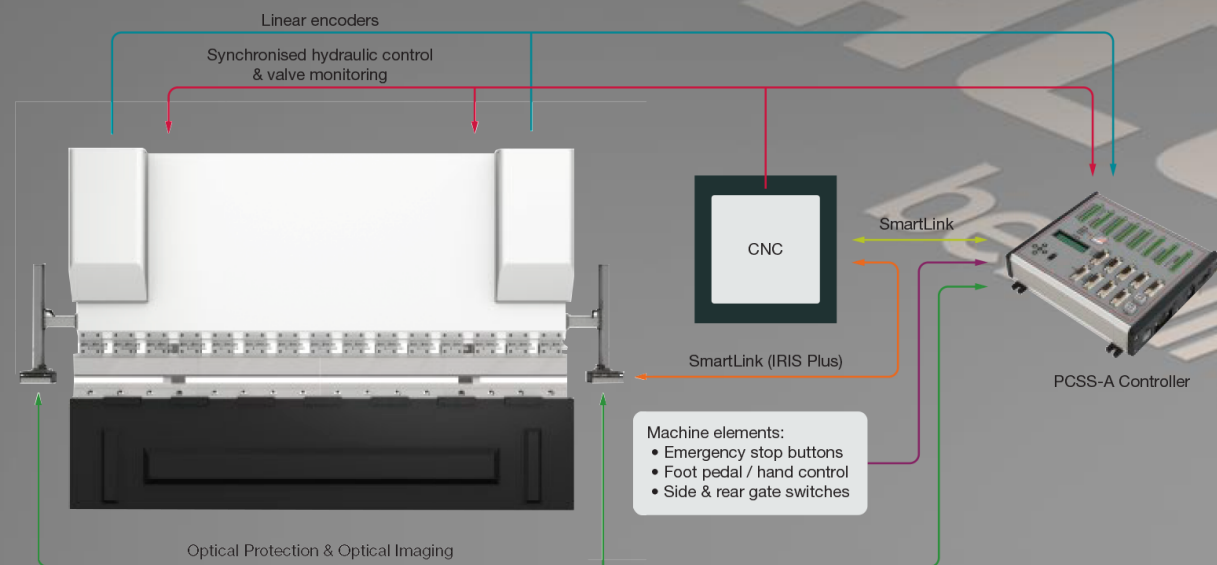
ModEva 19 RA

# LAZERSAFE SAFETY CONTROLLERS SYSTEM – ADVANCED

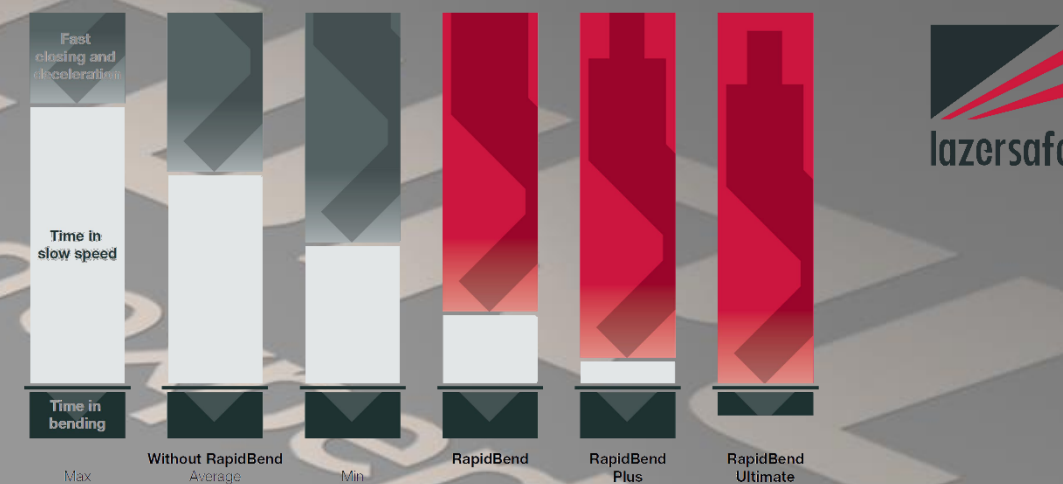


The state of the art in combining safety, productivity and precision™

PCSS-A provides an efficient and cost effective platform with fewer components, reduced wiring, simplified interface and CE Certified hardware and software to minimise engineering and build time.

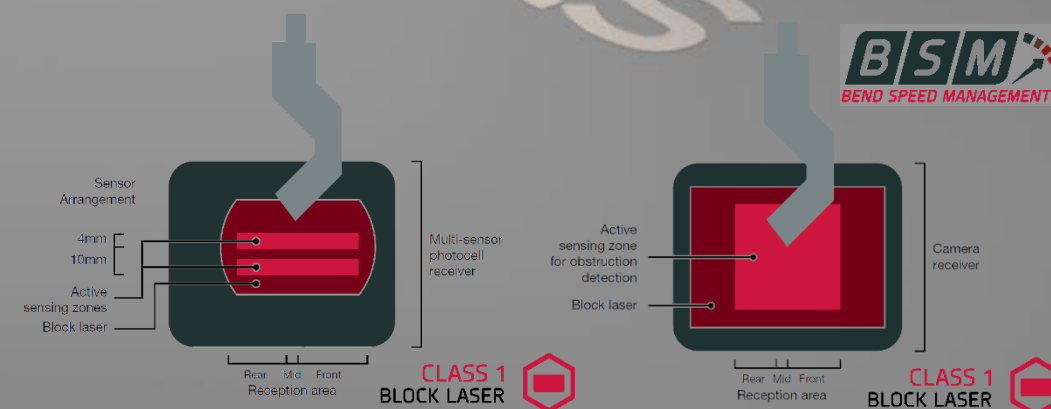


ACCURL® using the all functions of the optical protection Lasersafe system including mute point management, mode selection and user messages are embedded within the CNC system (via SmartLink).



•The IRIS System safety equipment by Lasersafe represents the most advanced safety solution for press brakes in terms of productivity and protection level. Its unique features increase the competitiveness of the Genius Press Brake.

•IRIS System	0.2
•Lasersafe LZS-HS	0.6
•Unguarded Machine	1.2 (min)
Other light or laser guarding systems	1.9 (average)
	2.2 (max)



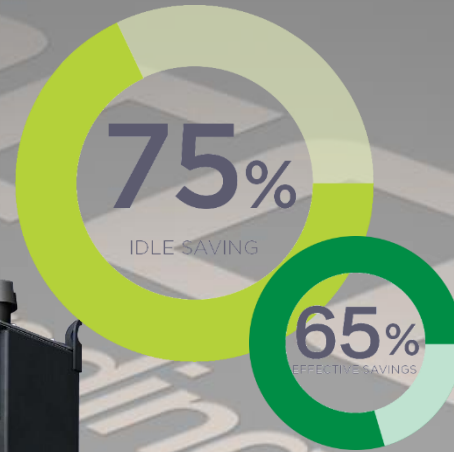


# The ePrAX® Hybrid Servo System

Improving energy efficiency of up to 73 % compared to conventional systems.



## SERVO PRESS BRAKE



**Maximum stamina!** 

↗ It bends and bends and bends ....

**Lower energy consumption!** 

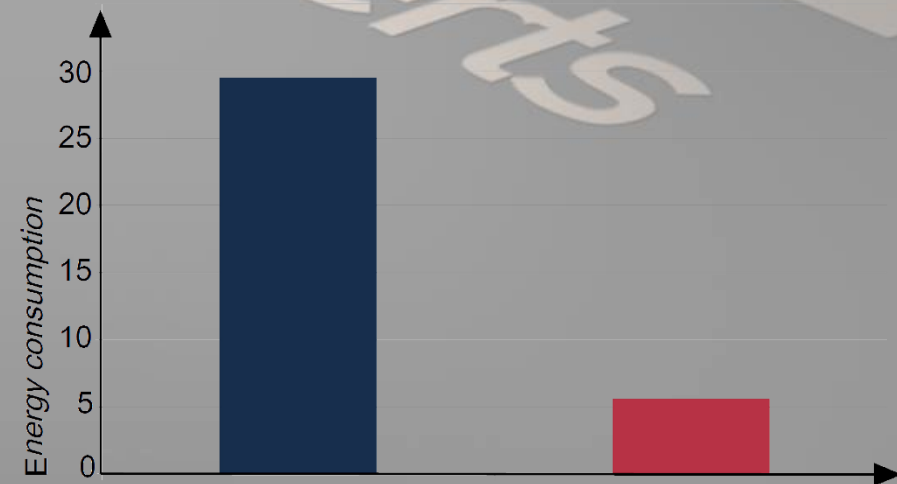
Quality ↗ Silent working mode ↗

**Faster & more efficient!** 

Speed ↗ more than %90 Oil Save ↗

**More faster-on-time!** 

Save time and costs..... ↗



## WILSON® EXPRESS AIR™ | EUROPEAN AS OPTIONAL:

This innovative fast clamping system can satisfy any needs, the Express Air clamping reduces press brake setup time and therefore it represents the best choice for users that frequently change punches on their press brake.

### \*Advantage:

- Clamps and seats European punches with flat tangs with a safety slot
- Interchangeable with most OEM holders
- Z2, Z1 and American mounting
- Interlocking wedge system
- Nitrex® enhanced to 70 HRC
- Wireless or Manual Air control



## WILSON® EXPRESS CROWNING™ SYSTEM AS OPTIONAL :

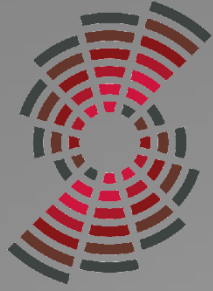
By avoiding machine deflection, the Express Crowning™ System creates precise parts, consistently parallel with every run. Featuring spot-on crowning and micro tuning ability — giving you options for controlling crowning power and securing the die.

### \*Advantage:

- OEM or aftermarket mounting
- Hand crank with digital readout or CNC electric drive connected direct to the machine
- Hardened to 28–32 HRC which makes it substantially tougher than the competition
- Micro crowning every 200mm
- T & Y adjustable 0–0.76mm (0–0.030")



## IRIS PLUS AI ANGLE MEASUREMENT SYSTEM



**IRIS**  
PLUS

INTEGRATED  
REAL-TIME  
IMAGING SYSTEM



**DAC**  
DYNAMIC ANGLE CONTROL



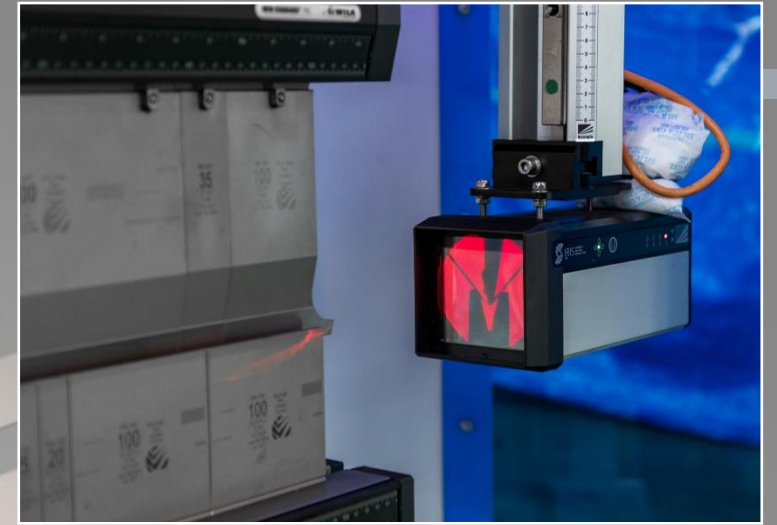
**BSM**  
BEND SPEED MANAGEMENT

Dynamic Angle Control uses real time angle data plus the recorded spring back value to automatically and accurately control the bending depth. The dynamic angle control is a high speed process that ensures accuracy and consistency between parts with no delay to the bending operation.

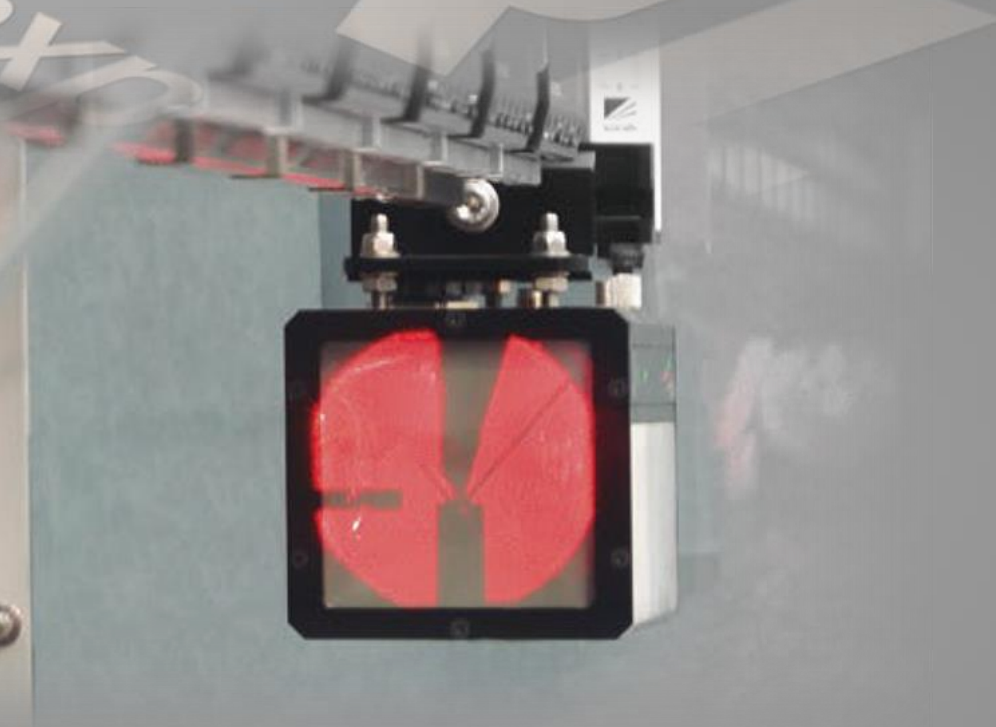


**AAC**  
ACTIVE ANGLE CONTROL

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 Angle Measuring System





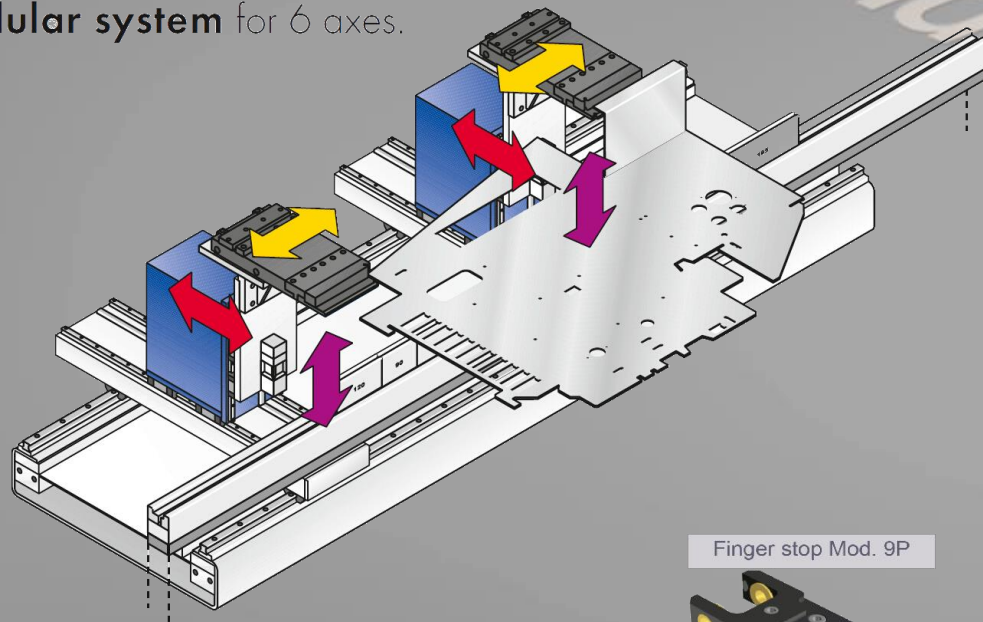
## ACCURL® BGA Series CNC BACKGAUGE SYSTEM:

ACCURL® press brake are provided are equipped with BGA-5 CNC backgauge constituted by a solid structure in order to assure the best repetitiveness and high precision in axes positioning.

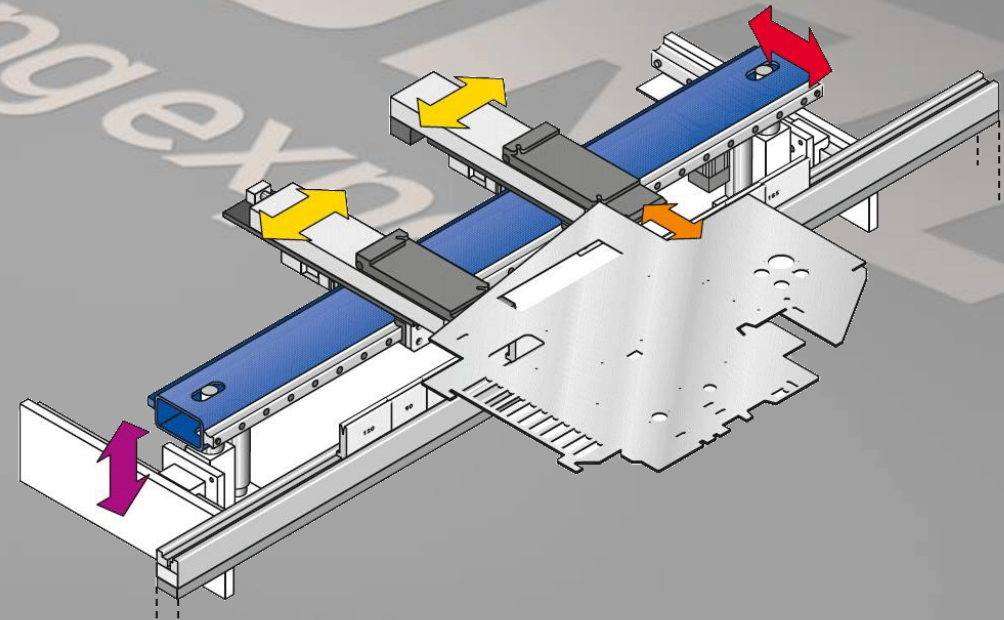


# BGA

Modular system for 6 axes.



Finger stop Mod. 9P



BGA-5 for X,X2,R,Z1,Z2-axis

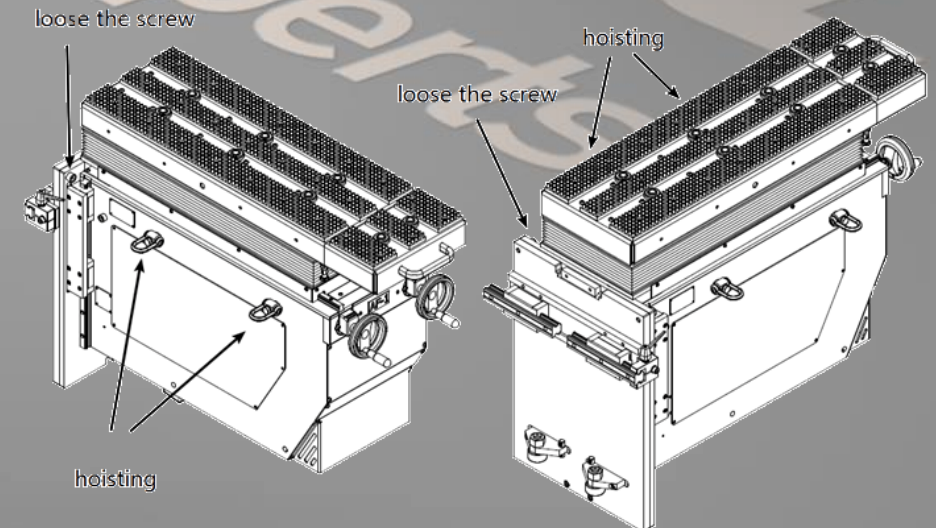
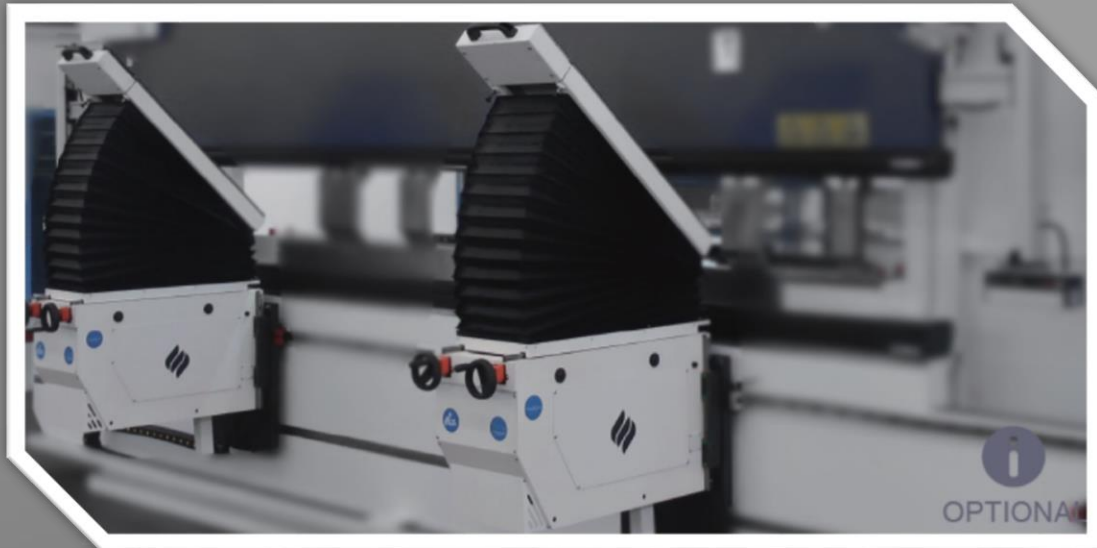
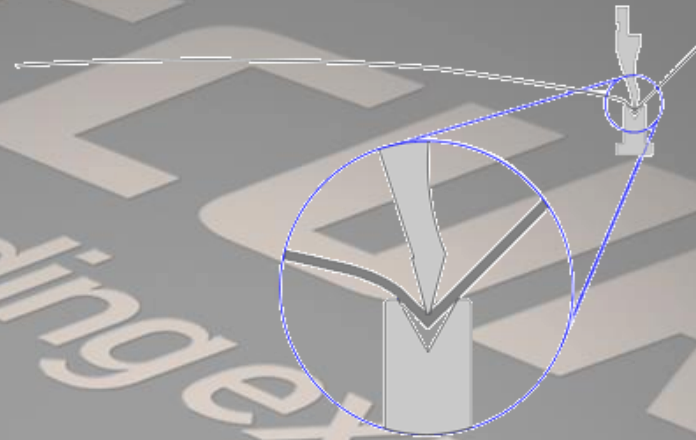
## ACCURL® CNC Bending Follower Supports System:



It basically consists of a pair of sheet supports placed on the front of the machine at the height of the bending line (bottom tool). Supports are controlled by the CNC, following and supporting the sheet during the bending process.

Advantage:

- Automatic bending follower supports;
- AP1 - AP2 CNC-controlled interpolated axes;
- Recommended for heavy parts or large thin plate;
- bend as closed as 70°
- Load capacity – 180 kg per support.
- Brush and support shaft dim 350x900 up to 1200 mm.



It can be moved to other Press brake lower beam to achieve easy installation.

## WILA PRO CLAMPING SYSTEM:

The Wila's 'New Standard' Tooling System has become market leader for precision, quality and flexibility for the Accurl press brake. the WILA's state-of-the-art clamp system



•The Wila's 'New Standard' Tooling System has become market leader for precision, quality and flexibility for the Accurl press brake. the WILA's state-of-the-art clamp systems offer optional for the ultimate efficiently changing tools with Smart Tool Locator® (STL)\* have made the changeover process easier and safer. and Premium is available as an option.

Advantage:

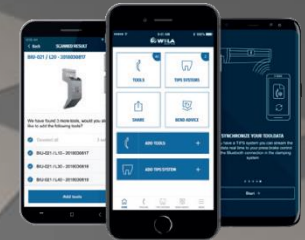
- Hydraulic power source
- Quick clamping for europe style tooling
- Simple push-button loading
- Max. load head/shoulders 180 t/m



WILA PRO SERIES TOOLING SYSTEM



WILA PREMIUM TOOLING (MADE IN HOLLAND)





## TOOL HOLDERS New Standard Pro:

This WILA system enables the user to offset deformations of the beam while bending. thus, the angle is keeping constant along the entire plate length



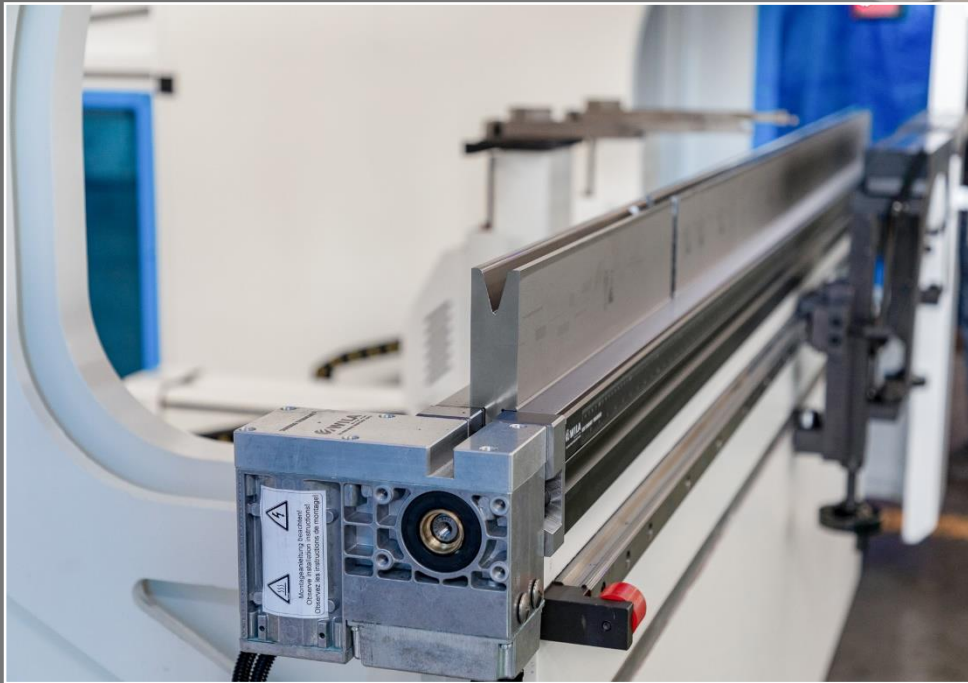
This WILA® system enables the user to offset deformations of the beam while bending. thus, the angle is keeping constant along the entire plate length.

Advantage:

- Easy reversibility of tools
- Hydraulic Clamping
- Quick clamping for the dies

Standard:

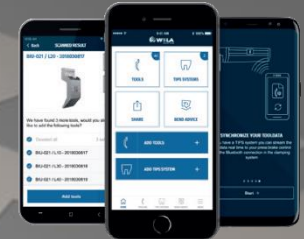
- Tool slot CNC-Dee-phardened®
- Drive unit CNC, Motor at one end
- Designed for press brakes with UPB-II hole pattern



WILA CROWNING & HOLDER SYSTEM



WILA PREMIUM TOOLING (MADE IN HOLLAND)



ACCURL®



TOP CUSTOMISATION fully configurable following the customer's need, and the standard range features models with capacities varying from 30 to 2000 ton, this versatility goes from sizing to optional equipment.

Explore the Press Brake Showroom.



salvagnini



Visit the Showroom





WARRANTY\*  
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YEARS  
ACCURL

**NEW**

# EuroMaster NEXT >>>

High-quality Accurl Press Brakes For The More Demanding Taste



Considerably reduced oil tank volume (up to 90%)



Quiet operation



High Performances



High Reliability

