

A new generation of CNC press-brakes. Highprecision, European design,  
efficient and reliable. Probably the bestprice / quality ratioin the world.

## ULTIMA TECHNICA MINI BEND



**DERATECH**

# DERATECH

Company  
Introduction

**PROBABLY THE BEST PRICE/  
QUALITY RATIO IN THE WORLD !**





## DERATECH GROUP

Deratech is specialized in designing and manufacturing sheet metal working machines. The Deratech headquarters for research, design and assembly are based in Belgium. Subsidiaries all over the world (Australia, China, Germany, Netherlands, Thailand,...) and carefully selected partners provide a world class advice, sales installation and service.

Shanghai Deratech CNC Machine Tool Co. Ltd, is the new production & technology center of Deratech – Belgium in China. The advanced European design, quality and technology of our R&D center in Belgium together the experienced engineering team of Shanghai Deratech will result in high quality production of sheet metal working machinery. All processing is designed in 3D by our technical department to obtain a high precision on all the manufactured machine parts.

Deratech is your partner in sheet metal working machinery.

# NEXT GENERATION ULTIMA HYBRID CNC PRESS BRAKE

The Ultima hybrid is a new generation of press brake, powered by AC servo motors and variable speed pumps.

The Ultima Hybrid is a fast, precise, energy saving and environmentally friendly state of the art press brake.

De Ultima Hybrid can save up to 60% energy in contrast to a standard Ultima in same execution, this without losing any speed or production capacity. There will be only a little energy consumption when the machine is idle, only from the operator pushes the foot pedal till the upper beam is back in the up position the motors will be powered on and will use energy. So no flows of oil to the tank when the machine is idle, resulting in not heating the oil.

The flow rate of the hydraulic pump operates proportionally to the drive speed of the electric motor. The CNC controller transfers the pressure/volume flow target values to the control during the running operation, system pressure is measured by a pressure transducer and is also sent to the servo controller. Based on the control deviation, the built-in PID controller calculates the required motor speed and adapts it accordingly to the existing system requirements of flow rate and pressure.

Deratech Ultima Hybrid in std. execution: Y1-Y2,X,R,V with Touch Screen controller.

As option the Hybrid can be equipped with Z1-Z2, X3, X1-X2/R1-R2/Z1-Z2, Cnc bending aid, automatic sheet thickness measuring, angle measuring....

invest in the future now. Due to increasing energy costs, variable speed pump machines solutions are on the rise... with energy savings between 30% and 60%... Reliability of powerful hydraulics, as well as energy efficiency and dynamics of compact electronics play hand in hand with the variable speed pumps.



# UBB

HYBRID CNC PRESS BRAKE



**Energy-saving**



**Green technology**



**High efficiency**



**Low noise**

# PRODUCT FEATURES



## 1 HOERBIGER ePrAX®

Germany HOERBIGER ePrAX® control new electrical servo drive system ePrAX is Intelligent, no oil tube, fully closed electrical servo drive system High efficiency and energy saving, oil tank capacity reduced by 70% Fast-performance and duty cycle reduction 10% Compared with the traditional system, energy efficiency 50% up The positioning accuracy of precision-up to 5 μm Integrated servo pump, lower-noise at work Integrated pressure filters ensures high stability and long service life.



## 2 SYSTEM



### CNC S650W

**Versatile Pc, gorgeous 15"**

**4:3 High-resolution touch screen**

No limit in both performances and flexibility.

The powerful built-in Pc allows having on the machine a real 3D cad cam (metallix, radan, esa.) Finger-tip work piece design. Direct import of tools shapes (.dxf files) and management of tool library. Tool and die holders management. Angle measurement and correction with all existing devices is available.

### CNC S660W

**The widest touch screen**

**available on press brake CNC 19" multi touch**

A totally renewed interface, specifically designed for multi touch screen, is available as an alternative to the well-known Esa interface used on S650W. Make the best of any 3D cad cam you would like to install in the CNC. Finger-tip work piece design. Finger-tip work piece design. Direct import of tools shapes (.dxf files) and management of tool library. Tool and die holders management. Angle measurement and correction with all existing devices is available.

## ULTIMA-UBB (2016)

Mode	Nominal pressure (kN)	Max. bending width (mm)	Distance between uprights (mm)	Opening height (mm)	Throat depth (mm)	Cylinder stroke (mm)	Main power (kw)	Oil volume (L)	Speed (mm/s)			Dimensions (mm)			Weight (kg)
									Approaching speed	Working speed	Returning speed	Length	Width	Height	
UBB-100/3200	1000	3200	2700	555	400	280	6x2	34.5x2	200	10	200	3790	1950	2940	9000
UBB-100/4100	1000	4100	3600	555	400	280	6x2	34.5x2	200	10	200	4690	1950	2940	10500



### 3 High precision mechanical crowning device

A Precision quick-clamping device: set-up fast and convenient, reduce labor intensity and improve production efficiency.



### 4 High precision and stable back gauge systems

Unique dual linear guide rail structure, ensuring excellent positioning accuracy. Design of multistage gear, increase the positioning range, excellent value.



### 5 Patented throat distortion compensation device

Precise measured amount of distortion and feedback, ensure that the bending precision. And can effectively prevent the non-standard collision linear scale of the workpiece.



### 6 High precision mechanical crowning device

High-precision wedge compensation device by CNC control, got the precise compensation, ensuring high quality bending accuracy.

### 7 Moveable front support system

to help you to bend, make a comfortable and efficient working

**A NEW GENERATION  
OF CNC PRESS-BRAKES.  
HIGH PRECISION,  
EUROPEAN DESIGN,  
EFFICIENT AND RELIABLE.**

Ultima is a precision CNC-controlled press brake with hydraulic crowning in a basic but very complete configuration. The Ultima is equipped with 5 CNC-controlled axes (Y1-Y2, X, R, V).

Ultima offers the user a heavily built, reliable, precision CNC press brake at an economical price. Optional up to 11 CNC-controlled axis.

The high precision digital encoders at both sides of the machine continuously measure the movement and position of the upper beam (axes Y1-Y2).

The data is processed and monitored by the CNC controller which controls the hydraulic valves.

An extremely high level of accuracy is obtained during the movement and final positioning of the upper beam due to the continuous monitoring and feedback of the encoder measuring data. Using this technology, a repeatability of approximately 100% (+/- 0.01 mm) can be guaranteed.

The synchro system permits two or more machines to be connected together in tandem to provide working lengths of 20 meters or longer.

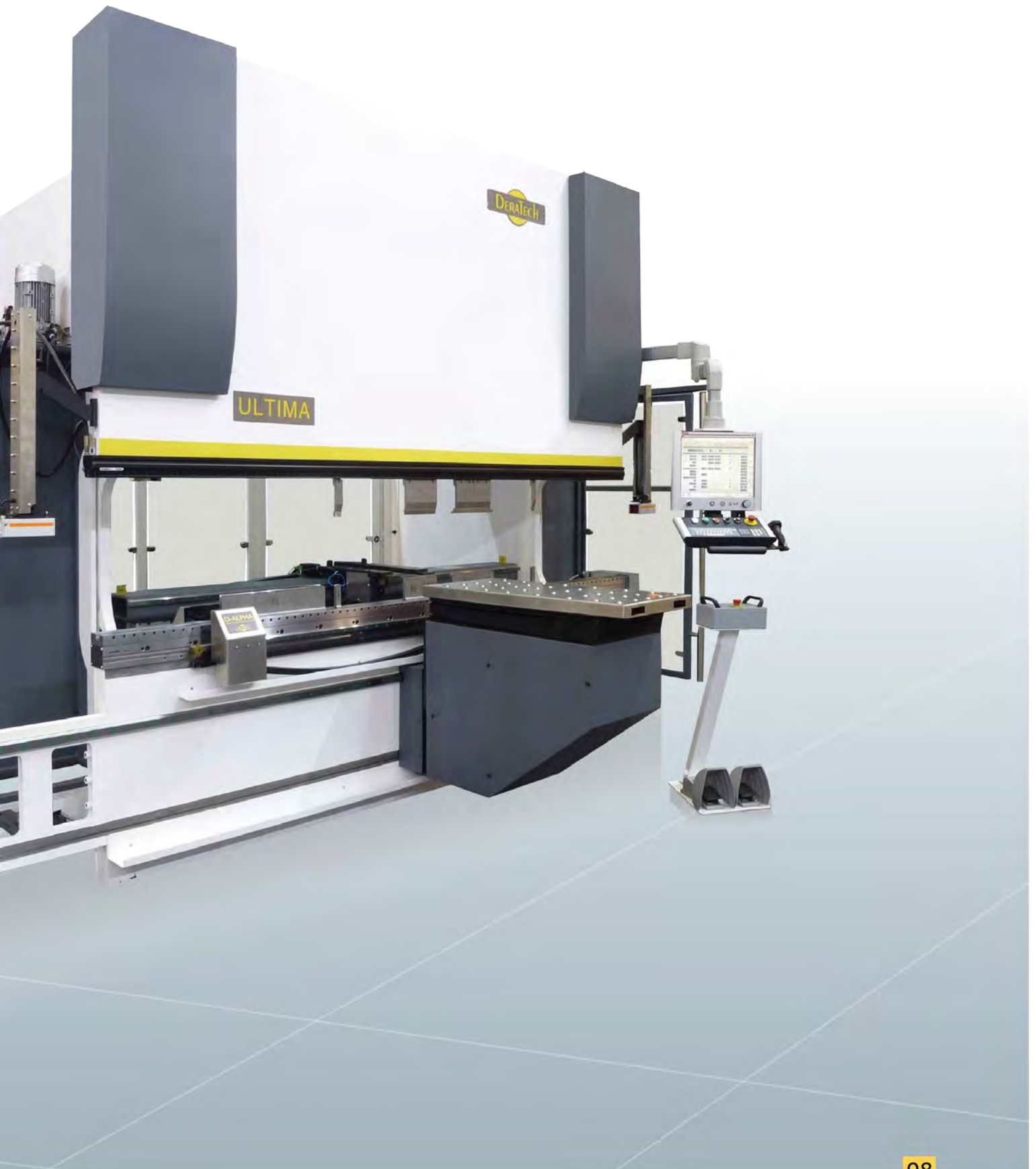
In this tandem configuration, the individual machines can still be used separately.





# ULTIMA

HYDRAULIC PRESS BRAKES



# PRODUCT FEATURES

1

The ESA 550 is a 2D/3D graphical Windows-based controller with a 17 or optional 19 inch Touch Screen. Programming the machine is made fast and easy, within seconds the operator is able to bend a high quality part.



2

A heavily built, rigid, precision back gauge on ball screws with linear guiding insures fast and precise positioning. Adjustment in width is on a precision linear guide way.

3

Front support arms on a linear guide ensure optimum product support during bending.



## 4

Precision digital encoders at both ends of the machine ensure highly accurate positioning of the upper beam.

The independently mounted encoder mounting frames automatically compensate for the minimal deflection of the press brake side frames, ensuring perfect bending results. The ram accuracy is guaranteed to  $\pm 0.01\text{mm}$ .

Bending is a physical process subject to significant elastic deflection (springback) and can be influenced by many factors. Due to the elastic deformation from both the upper and lower beams of the press brake during the bending process, the bending angle is not constant over the entire bending (plate) length. The CNC-controlled hydraulic crowning device compensates for its deformation so an equal bending angle is obtained over the full bending length.



## 5

Ergonomic rotating arm for CNC controller Reasonable radius of rotation, more flexible easier operation.



# PRODUCT FEATURES



6

High quality German hydraulic system with high frequency positioning valves. Smooth running of the machine is achieved with high speed machine operation.

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7

Hydraulic tank made of special oil corrosion resistant materials, insuring a perfect clean hydraulic system.

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### **DERATECH patented clean hydraulic system**

According to our experience in after sales service, 85% of the problems with the hydraulic system are caused by contamination of hydraulic circuit. Deratech has committed to reduce such failures and resolve this from the source by implementation of our patented clean hydraulic system.



## BENDING AID

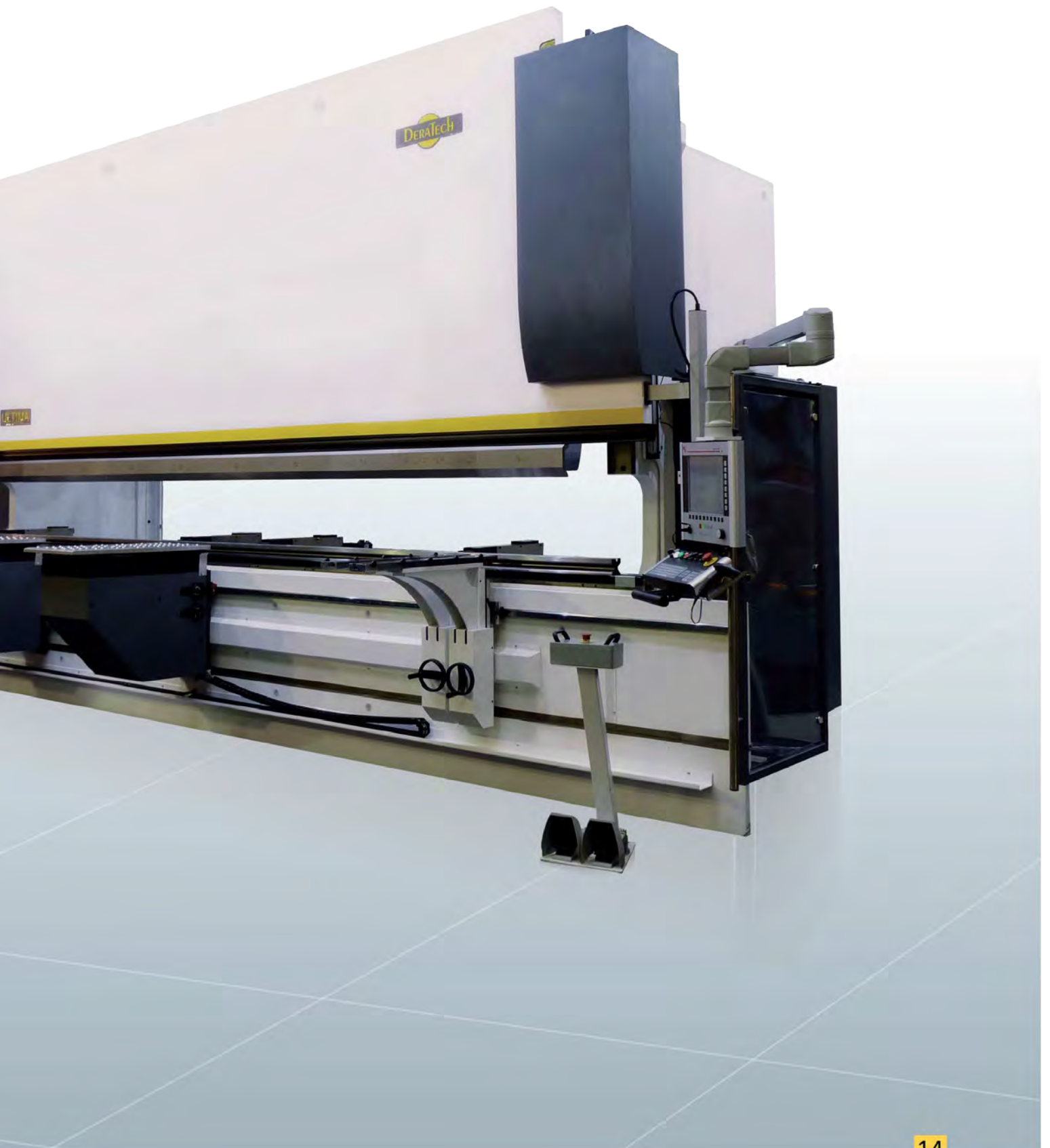
The CNC-controlled bending aid from Deratech is preventing angle deviations during the bending of thin sheets with large dimensions.

The HEAVY-DUTY version is capable to handle heavy sheet weights.

Handling large plates is often not an easy job for one operator, especially with the return movement of the upper beam. In the return movement, the plate is completely loose and the operator has to handle the full weight of the sheet, it's resulting that sometimes two people are working on one machine. The Deratech bending aid is a much more efficient and both ergonomic solution.

# ULTIMA

HYDRAULIC PRESS BRAKES



# CONTROLLER



The ESA550 is graphical controllers, available both in 2D or 3D. The 17 or 19 inch touch screen control guides you through clear, easy to understand, programming phases. A bending program is drawn with in seconds with simulations of the bending process in 2 and/ or 3 D. The operator only needs to put the right tools to be ready to bend. Experience tells us, average time from program to production takes less than 1 minute ! The controller is fitted with an ETHERNET UTP network connection as standard.



DNC15 CNC system is the update version of famous system DNC880S, powerful and easy-to-use 15 inches touch screen. According to the software, DNC15 can control CNC hydraulic press brake and torsion bar press brake. Modern and ergonomic design, user friendly HMI with a powerful performance.



Delem 66T CNC controllers, available in 2D and 3D. A bending program is drawn with in seconds with simulations of the bending process in 2 and/ or 3 D. The operator only needs to put the right tools to be ready to bend. Experience tells us, average time from program to production takes less than 1 minute ! The controller is fitted with an ETHERNET UTP network connection as standard.





D-Remote Assistance is a feature of the ESA550 , that allows a Deratech technician to temporarily log-on to the controller of the machine over a network or internet. This to provide help or resolve issues without directly touching the machine. This feature is simple to set-up, secure and only taking a few moments for our engineer to connect and begin the support session, resulting in time and cost saving solution for the end-user.

## REMOTE ASSISTANCE

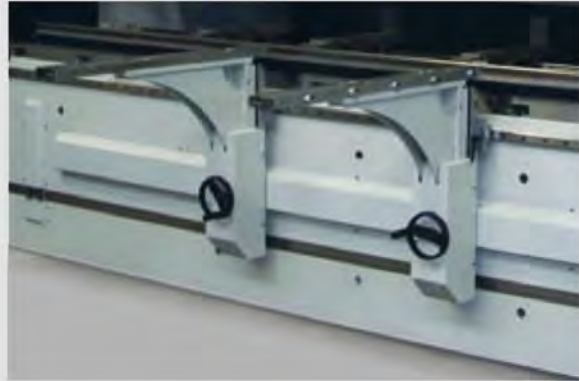
# BACKGAUGE



- 1
- 2
- 3

## Back-gauges

1. 5-axis back-gauge X-R-Z1-Z2-X'
2. 6-axis back-gauge  
X1-X2-R1-R2-Z1-Z2
3. Backgauge with pneumatic brush  
support for thin sheet



## Front Support

1. Front support ram on linear guide with parking places and fast height-adjustment.
2. Heavy duty front arms on linear rail.
3. Custom made front support arms with CNC height control

1 | 2  
3 |



**FRONT SUPPORT**



## **SHEET THICKNESS MEASURING DEVICE**

Automatic Sheet MeasuringThe “D-STM” sheet thickness measuring system is integrated in the backgauge finger. The D-STM measures the sheet thickness to an accuracy of  $\pm 0,01\text{mm}$ , applicable up to 20mm of material thickness. The measuring cycle takes only tenths of a second, the measured data will be send in real time to the CNC and the bending program will be adjusted.



## D-Alpha

D-Alpha angle measurement system a fully automatic, laser-assisted bend angle measurement system. Irrespective of the properties such as spring back or lamination direction from the material as well as tolerances from the thickness of the material, the D-Alpha enables an exact determination of the bend angle with an accuracy of better than 0,1°.

The position of the sensors along the bending line need to be adjusted manually.



1



2



3



4

## Tooling

1. Manual fast clamping with eccentric handle
2. Pneumatic fast clamping
3. Hydraulic fast clamping
4. Manual or pneumatic quick release clamps with vertical tool change

## Possibilities

- Bigger daylight-opening
- Bigger stroke
- Bigger throat depth

**TOOLING**



## CUSTOM MADE MACHINE

Our experienced engineers can design customized features and functions according to customer's product and requirements, the maximum to meet customer's requirements, to help customers improve efficiency, productivity.

## DERATECH ULTIMA ( 2016 )

Mode	Nominal pressure (kN)	Max. bending width (mm)	Distance between uprights (mm)	Opening height (mm)	Throat depth (mm)	Cylinder stroke (mm)	Main power (kw)	Oil volume (L)	Speed (mm/s)			Dimensions(mm)			Weight (kg)
									Approaching speed	Working speed	Returning speed	Length	Width	Height	
UAN-35/1050	350	1050	900	470	200	160	4	140	200	10	165	1650	1450	2510	2750
UAN-50/1500	500	1500	1200	470	300	160	4	140	200	10	165	2170	1700	2400	4200
UAD-80/2500	800	2500	2000	550	300	250	7.5	300	200	10	165	3080	1780	2550	6500
UAD-100/2500	1000	2500	2000	550	400	250	7.5	300	200	10	165	3470	1850	2650	7600
UAD-100/3200	1000	3200	2700	550	400	250	7.5	300	200	10	165	4170	1850	2650	8600
UAD-100/4100	1000	4100	3600	550	400	250	7.5	300	200	10	165	5070	1850	2650	10200
UAD-130/2500	1300	2500	2000	550	400	250	11	300	200	10	165	3480	1900	2670	7800
UAD-130/3200	1300	3200	2700	550	400	250	11	300	200	10	165	4180	1900	2670	8800
UAD-130/4100	1300	4100	3600	550	400	250	11	300	200	10	165	5080	1900	2670	10400
UAD-130/5100	1300	5100	4600	550	400	250	11	400	200	10	165	6080	1900	2770	14800
UAD-130/6100	1300	6100	5600	550	400	250	11	400	200	10	165	7080	1900	2770	17200
UAD-170/2500	1700	2500	2000	550	400	250	15	300	200	10	165	3500	1900	2680	9000
UAD-170/3200	1700	3200	2700	550	400	250	15	300	200	10	165	4200	1900	2680	10400
UAD-170/4100	1700	4100	3600	550	400	250	15	300	200	10	165	5100	1900	2680	12200
UAD-170/5100	1700	5100	4600	550	400	250	15	400	200	10	165	6100	1960	2790	16900
UAD-170/6100	1700	6100	5600	550	400	250	15	400	200	10	165	7100	1960	2790	20200
UAD-250/2500	2500	2500	2000	550	400	250	18.5	460	200	10	165	3520	2070	2860	12400
UAD-250/3200	2500	3200	2700	550	400	250	18.5	460	200	10	165	4220	2070	2860	14300
UAD-250/4100	2500	4100	3600	550	400	250	18.5	460	200	10	165	5120	2070	2860	16600
UAD-250/5100	2500	5100	4600	550	400	250	18.5	460	200	10	165	6120	2070	2900	20400
UAD-250/6100	2500	6100	5600	550	400	250	18.5	460	200	10	165	7120	2070	3050	24600
UAD-320/3200	3200	3200	2700	600	400	300	22	600	200	10	165	4240	2150	3150	18100
UAD-320/4100	3200	4100	3600	600	400	300	22	600	200	10	165	5140	2150	3150	21400
UAD-320/5100	3200	5100	4600	600	400	300	22	600	200	10	165	6140	2190	3450	26300
UAD-320/6100	3200	6100	5600	600	400	300	22	600	200	10	165	7140	2190	3550	31200

If you need more product specification please contact with us.

REMARK: Other capacities up to 1250 ton or other technical specifications are available upon request.

**A NEW GENERATION  
OF CNC PRESS-BRAKES.  
HIGH PRECISION,  
EUROPEAN DESIGN,  
EFFICIENT AND RELIABLE.**

Technica is a precision CNC-controlled press brake with crowning in a basic but very complete configuration, equipped with 4 CNC-controlled axes (Y1-Y2, X, V). Technica offers the user a heavily built, reliable, precision CNC press brake at an economical price. The high precision digital encoders at both sides of the machine continuously measure the movement and position of the upper beam (axes Y1-Y2). The data is processed and monitored by the CNC controller which controls the hydraulic valves. An extremely high level of accuracy is obtained during the movement and final positioning of the upper beam due to the continuous monitoring and feedback of the encoder measuring data. Using this technology, a repeatability of approximately 100% ( $\pm 0.01$  mm) can be guaranteed. The synchro system permits two or more machines to be connected together in tandem to provide working lengths of 20 meters or longer.





# TECHNICA

HYDRAULIC PRESS BRAKES



# PRODUCT FEATURES

1

High precision and fast clamping system:  
Fast and easy to change the tooling,  
decreasing labour strength and enhance productivity.



2

High precision and stable back gauge system:  
New and unique double linear guide construction,  
to ensure the excellent positioning accuracy.  
Design of multistage stops,  
to increase the Positioning Range.



3

Precision digital encoders at both ends of the machine  
ensure highly accurate positioning of the upper beam.  
The independently mounted encoder mounting frames  
automatically compensate for the minimal deflection  
of the press brake side frames, ensuring perfect bending  
results. The ram accuracy is guaranteed to  $\pm 0.01\text{mm}$ .  
Bending is a physical process subject to significant elastic  
deflection (springback) and can be influenced by many factors.





## 4

Due to the elastic deformation from both the upper and lower beams of the press brake during the bending process, the bending angle is not constant over the entire bending(plate)length. The CNC-controlled crowning device compensates for is deformation so an equal bending angle is obtained over the full bending length.



## 5

Front support arms on a linear guide ensure optimum product support during bending.

# PRODUCT FEATURES

6

High quality press brake tooling:  
Durable, fully hardened high precision  
CNC Press Brake Tooling.



## Unique technical characteristics



7

High quality German Hydraulic System:  
High frequency hydraulic system,  
low failure rate, fast stable and reliable.



8

High quality Stainless Steel Hydraulic  
Tank aids in the eliminating contamination

# ESA 525 ESA 530

## ESA 525

Programming of the axes position in tabular mode with automatic syntactical checks, automatic calculation of the bending and crowning tonnage.

All programs, tool description, parameters can be stored on the internal memory stick. These files can be exchanged with other CNC and PC through USB memory stick.

## ESA 530

2D graphic editing for punches and dies.

2D graphic preview for part pieces.

Programming of the axes position in tabular mode with automatic syntactical checks, angular programming, automatic calculation of the R and A position and of the bending and crowning tonnage.



## TECHNICA ( 2016 )

Mode	Nominal pressure (kN)	Max. bending width (mm)	Distance between uprights (mm)	Opening height (mm)	Throat depth (mm)	Cylinder stroke (mm)	Main power (kw)	Oil volume (L)	Speed (mm/s)			Dimensions(mm)			Weight (kg)
									Approaching speed	Working speed	Returning speed	Length	Width	Height	
TAM-50/1500*	500	1500	1200	410	300	160	7.5	230	140	10	110	1750	1600	2400	4200
TAM-60/2000*	600	2000	1700	410	300	160	7.5	260	140	10	110	2250	1600	2400	4800
TAM-70/2500	700	2500	2000	425	300	160	7.5	300	140	10	110	2750	1700	2485	6400
TAM-100/2500	1000	2500	2000	475	400	200	7.5	300	140	10	110	2800	1700	2635	7500
TAM-100/3200	1000	3200	2700	475	400	200	7.5	300	140	10	110	3500	1700	2635	8500
TAM-100/4100	1000	4100	3600	475	400	200	7.5	300	140	10	110	4400	1700	2685	10000
TAM-130/2500	1300	2500	2000	475	400	200	11	300	140	10	110	2850	1750	2635	7700
TAM-130/3200	1300	3200	2700	475	400	200	11	300	140	10	110	3550	1750	2635	8800
TAM-130/4100	1300	4100	3600	475	400	200	11	300	140	10	110	4450	1750	2685	10700
TAM-130/5100	1300	5100	4600	525	400	250	11	450	140	10	110	5450	1900	2875	14800
TAM-130/6100	1300	6100	5600	525	400	250	11	450	140	10	110	6450	1900	3010	17300
TAM-170/2500	1700	2500	2000	475	400	200	15	300	140	10	110	2900	1800	2685	8600
TAM-170/3200	1700	3200	2700	475	400	200	15	300	140	10	110	3600	1800	2685	9800
TAM-170/4100	1700	4100	3600	475	400	200	15	300	140	10	110	4500	1800	2685	11600
TAM-170/5100	1700	5100	4600	525	400	250	15	450	140	10	110	5500	1960	2860	16500
TAM-170/6100	1700	6100	5600	525	400	250	15	450	140	10	110	6500	1960	3060	19500
TAM-250/2500	2500	2500	2000	525	400	250	18.5	460	140	10	110	2900	2000	2975	11700
TAM-250/3200	2500	3200	2700	525	400	250	18.5	460	140	10	110	3600	2000	2975	13500
TAM-250/4100	2500	4100	3600	525	400	250	18.5	460	140	10	110	4500	2000	2975	15500
TAM-250/5100	2500	5100	4600	525	400	250	18.5	500	140	10	110	5500	2050	3000	20700
TAM-250/6100	2500	6100	5600	525	400	250	18.5	500	140	10	110	6500	2050	3200	24000
TAM-320/3200	3200	3200	2700	575	400	300	22	600	140	10	110	3700	2150	3205	17200
TAM-320/4100	3200	4100	3600	575	400	300	22	600	140	10	110	4600	2100	3205	19800
TAM-320/5100	3200	5100	4600	575	400	300	22	700	140	10	110	5600	2150	3540	25500
TAM-320/6100	3200	6100	5600	575	400	300	22	700	140	10	110	6600	2150	3705	29700

If you need more product specification please contact with us.

# MINIBEND CNC PRESS BRAKE

The Ultima Minibend is a good example of efficient interaction between operator and machine. By providing the best working conditions to the operator and creating a user friendly environment, will result in outstanding productivity at every stage of the job.

The Ultima Minibend is ergonomically designed: movable footpedal, pivoting control panel, seated or semi-seated operation...

The machine frame can be designed to the ergonomic needs of the operator, this to achieve the best possible working conditions in any application possible.

The Ultima Minibend is engineered to produce parts common found in the production of electrical equipment, medical instruments, vending machines,... this is a fast and cost effectively way.



# ULTIMA

MINIBEND CNC PRESS BRAKES

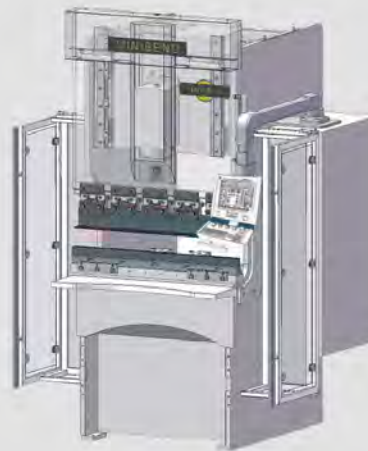


# PRODUCT FEATURES



1

The ESA 550 is a 2D / 3D graphical Windows-based controller with a 17 or 19 inch Touch Screen. Programming the machine is made fast and easy, within seconds the operator is able to bend a high quality part.



2

The Ultima Minibend is a single cylinder hydraulic pressbrake, especially designed torsionally stiff welded machine frame, upper beam guided by high precision linear guides for the production of small parts in the productive way possible. Available in bending length of 1020mm and bending force of 30ton. Back gauge X/R is CNC-controlled and manual finger adjustment.



**Green technology,  
energy saving system**

## ULTIMA-MINIBEND ( 2016 )

Mode	Nominal pressure (kN)	Max. bending width (mm)	Distance between uprights (mm)	Opening height (mm)	Throat depth (mm)	Cylinder stroke (mm)	Main power (kw)	Oil volume (L)	Speed (mm/s)			Dimensions(mm)			Weight (kg)
									Approaching speed	Working speed	Returning speed	Length	Width	Height	
MINIBEND	350	1050	900	410	200	160	4	140	200	15	200	1650	1450	2510	2750



3

A heavily built, rigid, precision back gauge on ball screws with linear guiding insures fast and precise positioning. Adjustment in width is on a precision linear guide way. Option for 4-axis back-gauge X-R-Z1-Z2 or more...



4

D-Remote Assistance is a feature of the ESA550, that allows a Deratech technician to temporarily log-on to the controller of the machine over a network or internet. This to provide help or resolve issues without directly touching the machine. This feature is simple to set-up, secure and only taking a few moments for our engineer to connect and begin the support session, resulting in time and cost saving solution for the end-user.

5

Manual fast clamping with vertical tool change



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