

▲ CNC Hydraulic Shears

▲ CNC Press Brakes

▲ CNC Turret Punching

▲ Fiber Laser Cutting



# DERATECH

Group

## Who is **DERATECH**

- ▲ Deratech group is specialized in designing and manufacturing sheet metal working machines. Headquarters for research, design and assembly are based in Belgium.
- ▲ Subsidiaries all over the world (Australia, China, Germany, Netherlands, Thailand, UAE, India,...) And carefully selected partners provide a world class advice, sales, installation and service team.
- ▲ Shanghai Deratech CNC Machine Tool Co. Ltd, is the new production & technology center of Deratech Group - Belgium in China.
- ▲ With our production facility of 18000m<sup>2</sup> expanding now to 40000m<sup>2</sup>, Deratech Group has now become a key player in the market... With production of more than 70 machines per month.
- ▲ The advanced European design, quality and technology of our R&D center in Belgium together with the experienced engineering team of Shanghai Deratech results in high quality production of sheet metal working machinery.
- ▲ To obtain high precision on all the manufactured machine components our technical department designs everything in 3D.
- ▲ Deratech group offer a complete range of products and solutions:
  - Fibre laser cutting
  - Punch Press (Electric)
  - Hybrid Press Brakes
  - Press Brakes
  - Shears
  - Robotics

# DERATECH

philosophy

## ▲ **No business is worth losing our ethics**

Our concern for the well-being of our staff and clients remains the focus of our organization.

## ▲ **Know-how**

Active thinking to offer the customer the solutions they require. We share our technical know-how within our company, through regular training sessions led by our knowledgeable management team. Also with our partners outside our company, through our technical seminars and daily interaction with our customers.

## ▲ **High quality machines with a perfect finish**

## ▲ **Competitive prices**

## ▲ **After sales service**

Quality components: Hoerbiger, Rexroth, Voith, Schneider, ESA, Cybelec, Delem, RSF (Heidenhein), Lazersafe.

# DERATECH Technology

## ▲ **D-Touch**

The new generation of CNC-controllers for shears, completely developed in house. Deratech has developed and designed a user friendly HMI.

## ▲ **D-Alpha**

The D-Alpha is a fully automatic, laser-assisted bend angle measurement system.

## ▲ **D-STM**

The automatic sheet thickness measurement device automatically measures the real sheet thickness before the first bend, then CNC-control automatically adapts all machine settings to the real thickness (also the required bending force, crowning...) so an accurate bending angle can be obtained from the first bend.

## ▲ **D-Crown**

Dynamic crowning with active sensors integrated in the upper and lower beams of the machine.



# DERATECH

## Press Brakes



### Compact Minibend

- ▶ CNC controlled compact hydraulic press brake
- ▶ Fast down speed: 250mm/s



### Ultima and Ultima Hybrid

- ▶ High-end machines with Dynamic Crowning
- ▶ CNC controlled Press Brake std in 5 Axis configuration (Y1Y2, X, R, V), optional till 16 CNC controlled axis.
- ▶ Tonnage: 35 - 2000ton
- ▶ Bending length: 1 to 12 meter and TANDEM or TRIDEM execution available
- ▶ ESA, Cybelec or DELEM CNC controller



### Big capacity Press Brakes in Tandem or Tridem execution.

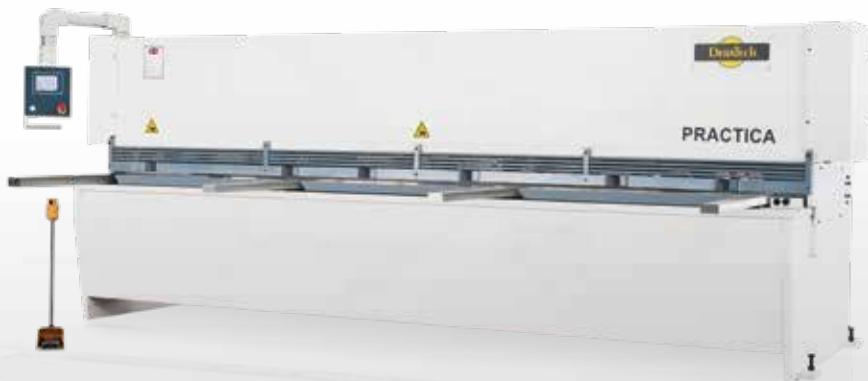
- ▶ Picture: 2x4m x 600ton = 8m 1200ton
- ▶ Daylight opening = 1250mm
- ▶ D-STM
- ▶ Automatic Bending Aid
- ▶ 16 Controlled CNC axis
- ▶ HD-Tooling and Clamping System

### Technica

- ▶ CNC controlled Press Brake std in 4 axis configuration... more optional.
- ▶ Tonnage: 35 - 320ton
- ▶ Bending length: 1 to 6 meter and TANDEM
- ▶ ESA, Cybelec or DELEM CNC controller

# DERATECH

Shears



## Practica

- ▲ CNC hydraulic shear with oscillating knife beam are sound, heavily built machines
- ▲ Design and construction guarantee reliable functioning

## Varia

- ▲ CNC hydraulic guillotine shear heavily built to ensure a high precision cutting function, available with RTS function.
- ▲ Auto blade gap, cutting angle are std. features on the VARIA
- ▲ Stacking and sorting devices available as option
- ▲ Available from 2 to 10 meter cutting length, 4 to 30mm cutting capacity.

# DERATECH

## CNC Punching

### Dinamica

- ▶ Servo Electric: 20 or 30ton
- ▶ Thick turret system with 2 or 4 Auto Index stations
- ▶ Siemens CNC control
- ▶ Standard size: - 1250 x 2500mm (5000)  
- 1500 x 2500mm (5000)  
- 2350 x 2500mm (5000)



# DERATECH

Fiber Laser

## Supera

- ▲ XXL cutting size available up to 12m long and up to 3m wide
- ▲ Available from 1 - 12kW, in IPG or Precitec laser source
- ▲ Precitec cutting head (Pro or Light cutter)
- ▲ LTi Controller
- ▲ 23" CNC control with user Friendly HMI
- ▲ Standard size: - 1500 x 3000mm  
- 2000 x 4000mm  
- 2200 x 6000mm





# DERATECH

Punch/lazer

## Punch/lazer combi

- ▲ Fiber laser technology combined with servo electric punching
- ▲ 20 ton or 30 ton punching force
- ▲ Thick Turret tooling system
- ▲ 2 or 4 Auto Index
- ▲ Heavy Duty O-Frame
- ▲ Dynamic laser cutting axis up to 4kW by IPG
- ▲ Precitec cutting head
- ▲ Deratech User friendly HMI
- ▲ Part sorting drop door 500mm x 1500mm
- ▲ Programmable sorting conveyor

## Available options

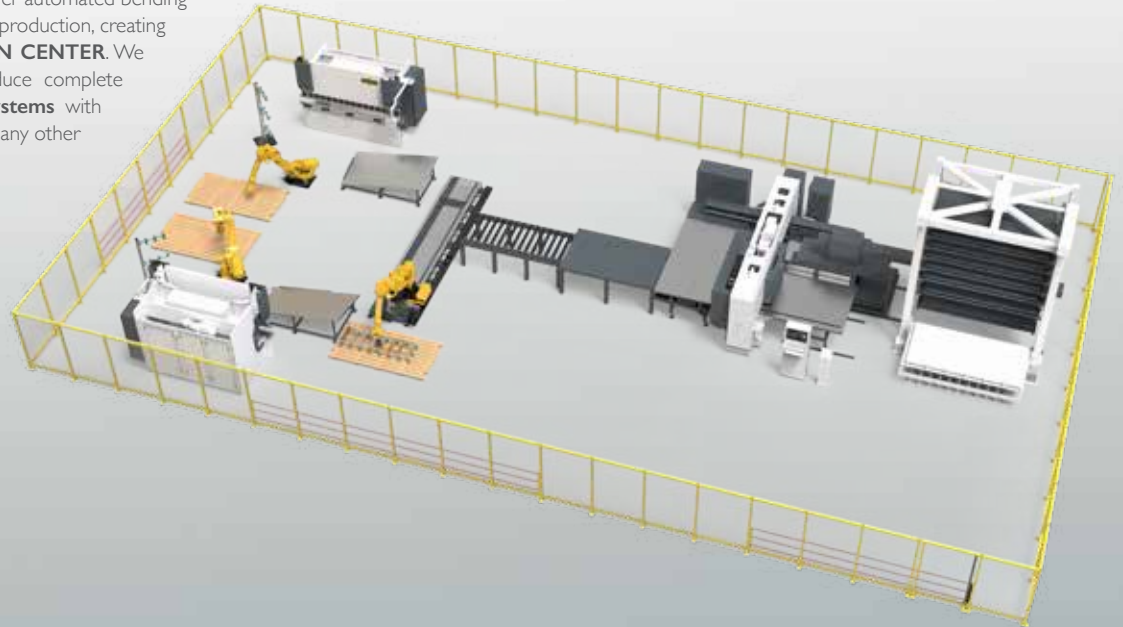
- ▲ 2 or 4 auto Index
- ▲ Automatic sheet clamps
- ▲ Vacuum slug system
- ▲ Loading and unloading system
- ▲ Parts
- ▲ Available with a throat depth of 1500 or 2500 mm



# DERATECH

Automatic systems

Deratech Group is able to design and produce **robot bending cells**, manipulators and other automated bending lines that can be integrated in your production, creating your **NON STOP PRODUCTION CENTER**. We are also able to design and produce complete **shearing, laser and punching systems** with picking, stacking, manipulators, and many other types of functionality.



## Ultima

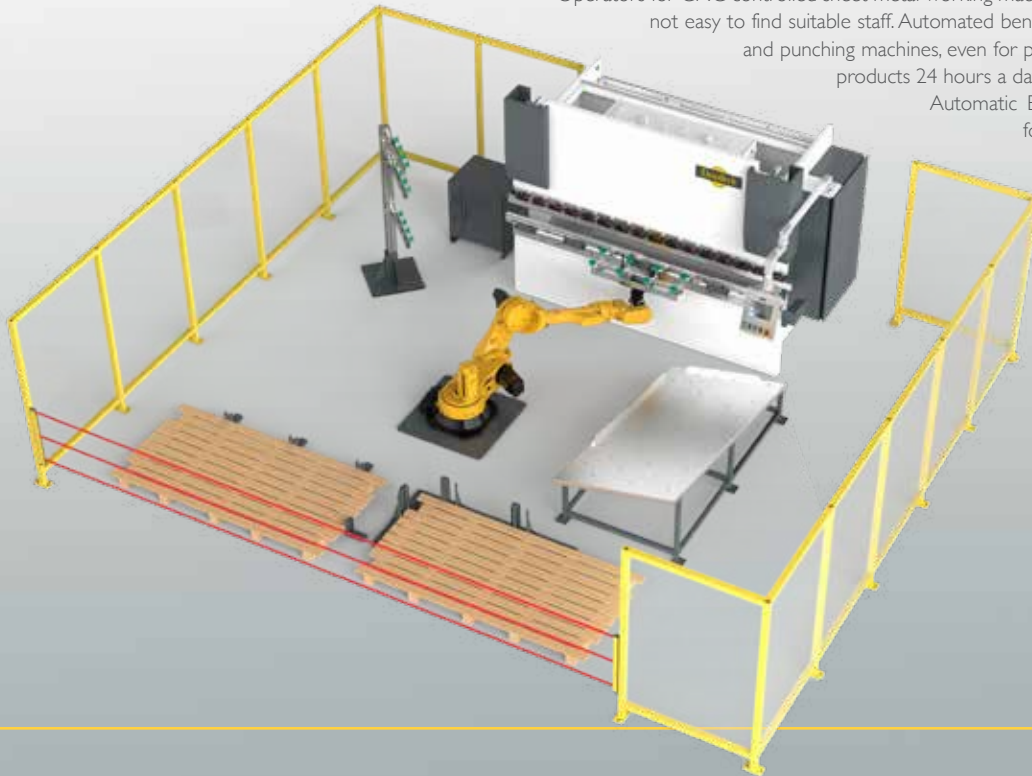
- ▶ More efficiency
- ▶ More output 24/7
- ▶ Less down time
- ▶ Constant quality
- ▶ Remote programming
- ▶ Automatic qc check

The help of intelligent systems will already create the basis for a successful future today... **ROBOT Integration or loading/unloading systems, sorting systems, Industry 4.0 will be the key to your production flow in the future.**

We all need to be ready to compensate economic fluctuations and our production methods should be able to deploy your resources with high flexibility.

Operators for CNC controlled sheet metal working machinery, need a very specific set of skills, this makes it not easy to find suitable staff. Automated bending cells, Loading and unloading solutions for laser and punching machines, even for production of complex parts, will deliver top quality products 24 hours a day and 7 days a week.

Automatic Bending centers are the key in the process, ideal for large volume productions but also designed to be flexible to be ideal for smaller volumes of components with high quality and repeatability. Our Automatic bending centers can be integrated in a Fully Automated punching or laser system.



**INVEST IN THE FUTURE AND STAY  
AHEAD OF THE COMPETITION WITH  
AUTOMATION POWERED BY  
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