Ultimate Solutions

Company Profile

13 YEARS OF EXPERIENCE
ULTIMATE SOLUTIONS
MAKING DIFFERENCE

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With more than 13 years of experience and expertise, **Ultimate Solutions** has succeeded in becoming a market leader in product Development and Machinery Solutions. Ultimate Solutions developed a reputation for providing diversified technology and engineering Solutions, and giving access to state of the art know how and cutting edge technological tools.

We help our clients through the entire PLM process by providing the advantages of the fourth industrial revolution (**Industry 4.0**) while easing the transformation of their business in product innovation all the way through product manufacturing. Thanks to our team’s quality standards and our partnerships with leading companies worldwide.

In January 2018, **Global Dimension** became the strategic partner for Ultimate Solutions in Saudi Arabia, to take the lead in bringing INDUSTRY 4.0 to the kingdom and reach VISION 2030. Global Dimension is part from Almojel Group of Companies, solutions offered by Global Dimension are a complete integrated set of engineering practices that transfer high – end engineering expertise to all industry clients, and gives them access to state of the art know how, and cutting-edge technological tools.

Website: www.gd.sa

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**INTRODUCTION**

- **CNC milling solutions**
- **CNC turning solutions**
- **Band Saws**
- **CNC Tube processing solutions**
  - Bending Machines
  - Fiber Laser Cutting
  - Tube & Bar Cutting Machines
- **Machines Tools**

**Product Development**

- Additive Manufacturing solutions (3D printing)
- 3D scanning Solutions
- Reverse engineering and inspection solutions
- CAD CAM CAE solutions

**Manufacture Solutions**

- **CNC sheet metal processing solutions**
- Laser cutting solutions
- Plasma cutting solutions
- Press Brakes Solutions
- Punch Press Solutions
- Shear Machines
- Roll Forming Machines
- Bending Machine
- Deep Drawing Presses
- Machines Tools

**Sheet Metal Solutions**

- **Additive Manufacturing solutions (3D printing)**
- 3D scanning Solutions
- Reverse engineering and inspection solutions
- CAD CAM CAE solutions
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We depend on our business model in enabling the engineers to develop their products in the shortest time, with the best quality and at minimum cost. We cover the product development cycle by four engineering solutions:

1. Metrology Solutions
   - Reverse Engineering
   - Inspection

2. 3D Experience Virtual Product Design Solutions
   - CAD, CAM & CAE
   - PLM

3. 3D printing and Additive Manufacturing Solutions

4. Virtual Reality Solutions
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3. 3D printing and Additive Manufacturing Solutions
4. Virtual Reality Solutions

**CONCEPT OF WORK**

**3D Laser scanners, 3D white light scanners and portable CMM arm free probing system**

**3D Portable Scanners**

**CREAFORM**

**TRUaccuracy**  **TRUportability**  **TRUsimplicity**

**Creaf orm** metrology solutions are a proven and trusted patented metrology-grade 3D scanner. Optimized to meet the needs of design, manufacturing and metrology professionals, it provides the most effective and reliable way to acquire accurate 3D measurements of physical objects anywhere.

Portable, accurate and simple to use, the Creaform 3D scanning systems features unmatched speed that captures high-quality measurements. Since it performs regardless of environment changes or part movement, it represents the ideal tool for quality assurance and product development applications.

**ACCURACY OF** **0.025 mm**

**SCAN-TO-MESH IN SECONDS**

**CERTIFIED ISO 17025**

**WORLDWIDE SUPPORT**

**LARGE SCANNING AREA**

**PATENTED TECHNOLOGY**

- Origin: Canada
- Website: www.creaform3d.com
The LK Metrology range of Coordinate Measuring Machines deliver the ability to perform dimensional, positional and surface measurement in a single system. Designed and manufactured using only the highest quality materials. Combined with a complete range of contact and non-contact sensors, LK Metrology CMMs provide true multi-sensor capability. Sensors can be quickly changed to combine geometric and surface measurement into a single inspection routine.

A versatile CMM platform with a wide range of standard sizes and choice of probing technology to suit every application and budget. A new generation of CMM for quality and production use.

Made for large scale metrology applications with its elevated rails. Offering high accuracy with maximum volume and full support for a variety of probing solutions including touch-trigger digital, analogue and laser options. A truly flexible and reliable CMM when size really matters.

Providing unequalled performance in speed, accuracy and repeatability. The LK horizontal arm CMMs offer stability at high velocity and acceleration, providing access to the measuring envelope and can be supplied as subfloor or floor level installations, or as part of fully-automated measurement cells.
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**CATIA** Reverse Engineering makes it possible to quickly capture and enhance physical prototype shapes, making the 3D virtual model the design reference. While also providing powerful technologies embedded within CATIA that allow the easy manipulation of clouds of points or meshes, and quickly transform them into high-end 3D surface shapes.

Website: [www.3ds.com](http://www.3ds.com)

**PolyWorks** is a powerful industrial 3D metrology software solution to control tool or part dimensions, diagnose and prevent manufacturing and assembly issues, guide assembly building through real-time measurements, and oversee the quality of assembled products by using non-contact point cloud digitizers and single-point contact-based probing devices.

Website: [www.innovmetric.com](http://www.innovmetric.com)

**VXmodel** is a post-treatment software that directly integrates into VXelements, and enables finalizing 3D scan data to use directly in any 3D printing or CAD software. VXmodel provides the simplest and fastest path from 3D scans to your computer-aided design or additive manufacturing workflow.

**VXinspect™** is an intuitive and powerful 3D inspection software designed for first article inspection (FAI) and production quality control. Directly integrated into VXelements, it provides the simplest integration of probing, 3D scanning and photogrammetry measurements into quality control workflows.
Dassault Systèmes Solutions:
Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading 3D design software, 3D Digital Mock-Up and Product Lifecycle Management (PLM) solutions transform the way products are designed, produced, and supported.
Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries around the globe.

Product Design and Innovation
CATIA® goes far beyond traditional 3D CAD software tools to offer a unique Digital Product Experience, based on the 3DEXPERIENCE platform. Sustainable development is driving companies around the globe to create a constant stream of innovative and inspiring smart products. Engineering, Design, Systems Architecture and Systems Engineering of these products becomes more demanding. Learn more at:
www.3ds.com/products/catia/

Realistic Simulation Applications
SIMULIA® is defining new standards to establish Finite Element Analysis and realistic simulation softwares as an integral business process in the engineering value chain. A powerful and complete solution for performing virtual tests with realistic simulation which helps reduce product development time and costs, while improving reliability. Learn more at:
www.3ds.com/products/simulia/
Digital Manufacturing & Production
Product innovation requires production innovation. DELMIA’s Products and Solutions for the manufacturing communities drive manufacturing innovation by virtually Machining, defining, planning, creating, monitoring and controlling all production processes. Plan, with comprehensive 3D process and resource planning tools to create and optimize build-to-order and lean production manufacturing systems.
Learn more at: www.3ds.com/products/delmia/

3D Technical Communication & 3D Virtual Reality
Effective communication requires much more than a simple presentation. It requires a new way of connecting with your audience, one that is effective, engaging, and real. 3DVIA helps professionals in sales, marketing, training, and support to effectively explain and promote their ideas by leveraging the 3DEXPERIENCE Platform with a powerful suite of authoring and publishing applications for desktop, web, and mobile delivery.
Learn more at: www.3ds.com/products/3dvia/

Collaborative Innovation Platform Data Management
Innovation increasingly means global teams collaborating with global information in a social context – and doing so with clarity, confidence and consistency. Powered by the 3DEXPERIENCE Platform™, ENOVIA enables your innovators to benefit from the true rewards of collaboration. Easy to acquire, quick to learn and effortless to master, ENOVIA is reliable and robust enough to manage even the most sensitive and mission-critical data.
Learn more at: www.3ds.com/products/enovia/
The strength and stiffness of carbon fiber meet the versatility of tough nylon. Engineering class parts that are 20% stronger and 40% stiffer than ABS. For load-bearing applications that require real strength, these parts make the grade. Now you can print parts faster and cheaper than machining metal.

Exceptionally strong, supremely stiff, ultra lightweight, and incredibly versatile - X7 parts deliver unparalleled performance without compromise.

### Onyx Series

**Onyx One**: Built on the DNA of our Industrial Series and designed from the ground up for quality and reliability, the Onyx One is the desktop 3D printer for professionals.

**Onyx Pro**: The Onyx Pro prints composite parts that are 10x the strength of plastic by reinforcing chopped-carbon nylon with continuous strands of fiberglass.

**Mark Two**: The world’s only desktop continuous carbon fiber printer. Print incredibly strong continuous carbon fiber parts.

### TechViz

TechViz 4-sided immersive room is a fully integrated solution for VR and 3D visualizations. Developed with long-term partners, all experts in their field, this is your fast track to 3D Virtual Reality.

**Features**

**Virtual Reviews**

- Digital Mock Up
- Video Recording
- Automated Reporting

**Collaboration**

- Clone-model collaboration
- Cloud&Viz
- Plug&Viz

**Human Integration**

- Virtual Assembly
- Virtual Manikin
- Body Tracking
- Finger Tracking

**Advanced Features**

- Fusion
- Interactive Image Integration
- TVZLIB API
- 3D Model Customization

**Head-Mounted**

AR/VR headsets used with Share&Viz

Share&Viz software can display your CAD applications on any AR/VR headsets for a complete immersive experience.

With TechViz, the user can visualize a 3D model – even the largest ones – in real-time in a HMD. Compatible with more than 250 industrial applications.

**Powerwalls**

A visualization solution to create an immersive 3D experience.

TechViz 4-sided immersive room is a fully integrated solution for VR and 3D visualizations. Developed with long-term partners, all experts in their field, this is your fast track to 3D Virtual Reality.

**Immersive Room**

Best VR display for collaboration

A Powerwall allows many workers to attend a review at the same time. With the MultiView technology from Barco, Christie and Digital Projection, up to 6 people can be tracked to visualize the model from their own perspective.

**3D Printer**

**MetalX**

3D Printer • Origin: USA
The strength and stiffness of carbon fiber meet the versatility of tough nylon. Engineering class parts that are 20% stronger and 40% stiffer than ABS.

For load-bearing applications that require real strength, these parts make the grade. Now you can print parts faster and cheaper than machining metal.

Exceptionally strong, supremely stiff, ultra lightweight, and incredibly versatile - X7 parts deliver unparalleled performance without compromise.

The Onyx Pro prints composite parts that are 10x the strength of plastic by reinforcing chopped-carbon nylon with continuous strands of fiberglass.

The Mark Two is the world’s only desktop continuous carbon fiber printer. Print incredibly strong continuous carbon fiber parts.
SLM Solutions Group AG is a leading provider of metal-based additive manufacturing technology. SLM Solutions focuses on the development, assembly and sale of machines and integrated system solutions in the field of selective laser melting. SLM® technology offers diverse options in the metal-based additive manufacturing of parts, such as a new design and geometric freedom, lightweight construction through the reduction of metal part weight, significant advantages in terms of production speed and the manufacturing of internal undercut parts in low quantities.

### SLM®125
Accurate, compact and highly-efficient machine for the R&D sector as well as for the production of smaller build parts

### SLM®280 2.0
High-performance machine with highest productivity for series production and one-off production with individual parameters

### SLM®500
High-Performance machine with patented multi-beam technology for use in the production environment

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Discover new possibilities with additive manufacturing of injection moulding silicone

The L320 3D printer from the Liquid Additive Manufacturing (LAM) series by German RepRap is a real “Game Changer”. For the first time it is possible to 3D print with injection...
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The L320 3D printer from the Liquid Additive Manufacturing (LAM) series by German RepRap is a real “Game Changer”. For the first time it is possible to 3D print with injection moulding silicone. The L320 is a real “Game Changer”. For the first time it is possible to 3D print with injection moulding silicone.

**X400**

The x400 combines both precision and speed. It has a generous pressure chamber, which offers a volume of over 43 liters. It provides stable process reliability. This machine is perfect in the range from precision industrial products to large-volume components and series production.

**X500**

The x500 is the answer for high-performance. In addition to the large construction volume of X500, it offers solutions for industrial use. With its solid steel frame and a total weight of over 180 kg, the machine offers extremely high stability and smoothness.

**X1000**

The x1000 3D printer with a huge volume of 480 liters is tailored to the needs of professional industrial customers. It offers features such as dual-extruder technology, filament monitoring and an intuitive operating system. The field of application of the x1000 extends from large objects over prototypes to small series in industrial quality.
We depend on our business model in enabling factories and workshops to develop their products, in the shortest time with the best quality and at minimum cost.

We are covering four sections in manufacturing solutions.

1. Machining and metal cutting
2. Metal forming and sheet metal processing
3. Pipe and Tube Processing
4. Cutting tools.
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CUTTING TOOLS

Milling Tools

• Solid Carbide End Mills
• Indexable End Mills (Inserts)
• Ball Nose End Mills
• Applications: Facing, Pocketing, Chamfering-Slotting, Shouldering, Profiling

Turning Tools

• OD Turning and Boring
• OD & ID Threading
• OD & ID Grooving
• Cut Off
• Inserts

Drilling & Tapping Tools

• U-Drills
• Solid Drills (Carbide - HSS)
• Deep Hole Drills
• Taps
CUTTING TOOLS

Specs.
• Wide range of Sizes and Grades of Carbide and HSS Drills covering all machining requirements.

Specs.
• Top Quality Inserts in Different Grades and Chip Breakers
• Holders Covering all Applications, Geometries and Conditions
Takumi MACHINERY INDUSTRY CO., LTD.
Specs.
• Vertical and High speed Machine Centers
• Working surface: 500 to 3200 mm
• Spindle speed: 6000 to 50000 RPM
• 3-Axis Up to 5-Axis
DAHLIH MACHINERY INDUSTRY CO., LTD.
Specs.
• Vertical and Double column Machine Centers
• Working surface: 720 to 4200 mm
• Spindle speed: 4500 to 15000 RPM
• 3-Axis Up to 5-Axis
High Productivity Turning Machine Specs.

- Swiss type and production CNC lathe
- Machining diameter: 20 to 320 mm
- Machining length: 45 to 500 mm
- Bar capacity: $\Phi$ 20 to $\Phi$ 60

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**JSL-20RB/20RBY**
- Deep Hole Drilling Device
- The sub-spindle side is available to equip with deep hole drilling device with coolant through drill
- Choice of live or fixed drill

**JSL-20RBY**
- Main Spindle and Tooling System
- OD tool holder: 6 tools
- ID tool holder: 4 tools
- Cross line tool holder: 5 tools

**JSL-20RBY**
- Sub-Spindle Tooling System
- The sub-spindle tooling system allows the machine to perform back side machining on a part

**Fanuc 32B CNC Control**
- Control panel can be moved and swiveled for upgrading convenience of operation.

**JSL-20RBY**
- Sub-spindle Tooling System
- The sub-spindle tooling system allows the machine to perform back side machining on a part.

**JSL-20RBY**
- Rotary Guide Bushing Holder
- For use on the sliding head lathe to increase stability and surface finish in long part machining.
YIDA Precision Machinery CO., LTD.
Specs.
- General Purpose CNC lathe
- Machining diameter: 320 to 720 mm
- Machining length: 320 to 1500 mm
- Bar capacity: Φ 45 to Φ 116
- C-axis, Y-Axis & Sub-spindle

Casing Pipes    Drill Collar    Big Diameter Flange
Left and Right Tube Bending capabilities in the same cycle.

Pipe bender may equipped with shearing and punching unit:
Allowing bending, rolling, punching and shearing on the same tube

Bending Stacks:
Multi-stacks + Multi-Radius up to 6 stacks with different bending radius

Capacity: Up to 168mm tube diameter

Axis: Up to 12 Electric servo controlled axes.
Fiber Laser Cutting for Tubes and Profiles

Cutting Lengths up to 6000mm
Capacity up to O.D. 180 mm
Wall thickness up to 6 mm

Equipped with 1 kW or 2 kW Laser Resonator
Multi-Axis CNC Controls with Touch Screen Interface
Straight and angle cutting, slotting, Marking, notching and hole marking

Tube and Bar Cutting Machines

Capacity up to 152mm
Ferrous and Nonferrous cutting
Loading and unloading system can be equipped with the machine
**Band Saws**

- Cutting diameter: Φ 10 to Φ 1600 mm
- Index length: 400 to 1800 mm
- United Construction-(Bar feed and saw are on one base).
- Shuttle type automatic feed.
- P.L.C. control for all electric and hydraulic function.
- Hydraulically controlled dual vise clamping system.
- Floating shuttle vise system.
- Split front vise.
- Infinitely variable speed control by inverter.
- Blade speed tachometer.
- Hydraulic blade tensioning.
- Roller bearing with carbide blade guide system.
- Automatic work height control by fast approach bar sensor.
- Multiple indexing (9 times).
- Nesting fixture for bundle cutting.
- Power driven blade cleaning brush.
- Idler wheel motion detector with blade stalling and breakage shut off.
- Flushing hose for machine cleaning.
- Work light
- Roller stock table 2M long.
- One M42 bi-metal saw blade.
- One set of tools and tool box.
- Automatic chip conveyor.
- Variable vise pressure.
- User friendly touch screen control with selfdiagnostic system.
- Full stroke vise clamping system.
- Preset cut counter with shut off.
- Out-of-stock shut off.
ENGINEERING SERVICES CENTER

Because of our experience and up-to-date knowledge in various engineering fields, we were glad to take the initiative of providing advanced services & trainings to ensure the continuous progress of Egypt & the Middle East through INDUSTRY 4.0 & support businesses in every possible way.

REVERSE ENGINEERING & INSPECTION SERVICE

Our reverse engineering service will convert any physical object you have into a precise digital model to help you make high quality, innovative products while reducing your production cost!

• Lab / on-site 3D scanning.
• Mesh processing
• Reverse engineering
• FEA testing
• Tooling validation
• Metrology
• Quality inspection
We depend on our business model in enabling factories and workshops to develop their products, in the shortest time with the best quality and at minimum cost.

We are covering four sections in manufacturing solutions.

**CONCEPT OF WORK**

- Laser Cutting
- Shear Machines
- Plasma Cutting
- Punch Press
- Press Brakes

**CNC Sheet Metal Machines**

- Press Brakes Tools
- Punching Tools

**Laser & Plasma Consumables**

- Deep Drawing Presses
- Roll Forming Machines
- Plate & Section Rolling Machine

**Forming Machines**

- CNC Sheet Metal Machines
  - Forming

**Customized Automation**

- Robots
- Material Handling Systems

**Sheet Metal Solutions**
We depend on our business model in enabling factories and workshops to develop their products, in the shortest time with the best quality and at minimum cost. We are covering four sections in manufacturing solutions.
Laser Cutting Machines

• Innovative Design.
• Capacity from 0.5 to 12 KW.
• Life cut table dimension from 3000mm to 18000mm.
• User friendly beckhoff CNC controller.
• Programmable by Integrated CNC controller.
• Excellent price/performance ratio.
• Low energy consumption.
• Low running costs.
• High accuracy.
• Easy Set-up.

BADIMSAN
INNOVATIVE TECHNOLOGIES

• Origin: Turkey
• Website: www.ermaksan.com.tr/
The new Servo press brake has less energy consumption than hydraulic press brakes. No hydraulic oil is required for the operation of the machine.

Maintenance costs are at minimum level. With the precise linear bearing and the sliding front support arms, the sheet can be easily controlled by the operator from the front.

Specs:
- Machine stroke 300mm
- Daylight 590mm
- No need for crowning
- Standard machine powers: 40, 65, 80, 100 tons
- Standard 4 axis backgauge. X: 800 mm, R: 250 mm, Z1, Z2
- 8 axis backgauge options
A new generation of CNC shear machines, high precision, European design, efficient and reliable, high performance, hydraulic swing beam shear and variable angle shearing machine.

**Specs:**
- Cutting thickness: 0.5 to 40 mm.
- Cutting length: from 2000 to 8000 mm.

**Plasma Cutting Machines**

- 19" LCD industrial type touch screen
- Phoenix interface
- Ermak THC automatic height control system
- Metric and inch gauges
- New hyper therm automatic gas console
- New hyper therm technology XPR & HPR
- Plasma marking
- from 3 to 5 axis cutting head
- 400 mm standard stroke
- ProNest® CAD/CAM software
- Nozzle Sensor
- Edge core console
- Tube cutting
CNC Hydraulic Turret Punch Press

- Max. Sheet size without reposition:
  - 30 Ton (1500x2500)
  - 30 Ton (1500x3000)
  - 20 Ton (1250x2000)
  - 20 Ton (1250x2500)

- Maximum thickness: 6 mm
- No. of stations: from 27 to 33 station
- Controlling axis: 4 axis

Servo Drive CNC Turret Punch Press

- Maximum thickness: 6 mm.
- Max. Sheet size (without reposition):
  - 30 Ton (1500x2500)
  - 30 Ton (1500x3000)
- No. of stations: 33 station.
- Controlling axis: 5 axis.

• Origin: Turkey
• Website: www.ermaksan.com.tr/
Customized Automation Process

Fully Automatic System
System may operate as fully automatic by loading the suitable sheet and suitable cutting parameters automatically for each type of material. So, you may perform mass production and minimize the loss of time in this way.

Material Handling Systems & Robots

- Operates with full compliance to Fibermark.
- Full automatic loading and unloading of the sheet metal.
- Zero time lost while switching work.
- Work list and work repetition features.
- Cut sheet metal storage area.
- Blank sheet metal storage area.

Robots
EVO III Hybrid Press Brake

EVO III Series is a Electro-mechanical press brakes machines redesigned based on users preferences to become a unique machine with its Individual electronic and mechanical features. It increases the productivity and keep costs at minimum level with its user friendly CNC controller and low cost hydraulic OIL.

Specs:
- Tonnage force: 100 to 260 ton
- Bending length: 2600 to 4270 mm
- 6 axes (Y1, Y2, X, R, Z1, Z2)
- Option up to 8 axis back gauge.

ENERGY CONSUMPTION

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>60%</td>
<td>ENERGY SAVE</td>
</tr>
<tr>
<td>95% less</td>
<td>WHILE STANDING FOR BENDING</td>
</tr>
<tr>
<td>70% less</td>
<td>WHILE FREE FALL</td>
</tr>
<tr>
<td>84% less</td>
<td>WHILE IRONING</td>
</tr>
<tr>
<td>70% less</td>
<td>WHILE RETURN MOVEMENT</td>
</tr>
<tr>
<td>70% less</td>
<td>OIL VOLUME</td>
</tr>
</tbody>
</table>
Section and Pipe Bending Machine

Specs:
- Steel construction welded frame
- 3 Rolls powered by planetary gearbox with hydromotor (Each 3 rolls powered with planetary gearbox separately)
- Hardened standard rolls
- Mobile control panel
- Horizontal and vertical working position
- Two speed working system
- Digital Read-Outs (2 pcs)
- 3 Axis hydraulic lateral angle guide rolls
- 3R - 4R Plate Role Technology

BENDING MACHINES

Plate Rolling Machine

Specs:
- Pinch roll and lateral rolls move pyramidal linear with hydraulic pistons
- Top Roll and Lateral Rolls are powered by hydromotor and planetary gearbox (3 roll driven system)
- Three digital readouts for easy roll positioning
- Hydraulic tiltable Drop-End for easy removal of finished ferrule
- Easy operation with mobile control panel
- Welded steel frames
- Conical bending device
- Central lubrication system
- Double speed working system
- Linear guide system. Pistons use all power for bending material

saHINLER
METAL MAKİNA ENDÜSTRİ A.Ş
- Origin: Turkey
- Website: www.sahinlermetal.com
Special Deep Drawing Presses

Deep Drawing Presses are the main machines used in fields like Automotive, White Appliances and Natural Gas. These type of presses are generally known as ‘Double Effect Presses’ because they apply the pressure from the up and work with the cushion cylinders from the down.

This process is made by giving shape to sheet metal materials in various thickness and different characteristics (steel, stainless steel, alloy sheet etc.) with high pressure between a male and female mould.

- Table Size 1300 * 1600 mm
- Pressing Force 300 - 4000 tons
RODSTEIN

- Origin: Finland
- Website: www.rodstein.com

Punching and Cutting Machines

**RodFLAT**

- Servo-electric flat bar punch press
- Maximum ram force: 550 kN
- Automatic tool lubrication
- Beckhoff AC-servo-drives and motors
- Fully adjustable punch depth control
- CE safety approved
- Graphical user interface with Windows® touch screen operation
- Rodstein CNC-system built on Beckhoff open-control platform
- Tool magazine for 9 fully configurable stations, up to 24 tools
- USB port and Ethernet connection for program transfer
- Flat bar width 15 - 260 mm and thickness 3 - 20 mm
- Teleservice

Bending Machines

**RodFORM**

- Servo-electric bending machine
- Control Rodstein NC- software build on Beckhoff open-control platform
- Automatic bending angle verification and correction based on machine vision
- Modern easy-to-use touch screen operator interface.
- Low maintenance requirement.
- Flexibly customizable 4 tool turret.
- Servo drives and motors: Beckhoff.
- Bending force 400 kN.
- Energy efficiency.
- Flat bar width 15 - 260 mm and thickness 3 - 20 mm.
- Automatic tool magazine
Punching Machining Tooling

**DMW Punching and Cutting Machines RodFLAT**

- **Origin:** Germany
- **Website:** www.dmw-gmbh.com

**Servo-electric flat bar punch press**
- **Maximum ram force:** 550 kN
- **Automatic tool lubrication**
- **Beckhoff AC-servo-drives and motors**
- **Fully adjustable punch depth control**
- **CE safety approved**
- **Graphical user interface with Windows® touch screen operation**
- **Rodstein CNC-system built on Beckhoff open-control platform**
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- **USB port and Ethernet connection for program transfer**
- **Flat bar width:** 15 - 260 mm and thickness 3 - 20 mm

**Bending Machines**

- **Servo-electric bending machine.**
- **Control Rodstein NC- software built on Beckhoff open-control platform**
- **Automatic bending angle verification and correction based on machine vision.**
- **Modern easy-to-use touch screen operator interface.**
- **Low maintenance requirement.**
- **Flexibly customizable 4 tool turret.**
- **Servo drives and motors: Beckhoff.**
- **Bending force:** 400 kN
- **Energy efficiency.**
- **Flat bar width:** 15 - 260 mm and thickness 3 - 20 mm

**Automatic tool magazine RodFORM**

<table>
<thead>
<tr>
<th>System</th>
<th>Trumpf</th>
<th>Benschart</th>
<th>Ansada</th>
<th>Primapower</th>
<th>LVC</th>
<th>Euromisc</th>
<th>Durma</th>
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<th>Pröbst</th>
<th>Rankin</th>
<th>Behrens</th>
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<td>DMW Trumpf Standard &amp; Sonder</td>
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<td>DMW Trumpf Multitool</td>
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<td>DMW Allround 2005 für Standard &amp; Sonder</td>
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<td>DMW Allround 2000 für Standard &amp; Sonder</td>
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<td>DMW Russian System Standard &amp; Sonder</td>
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<td>DMW Behrens System Standard &amp; Sonder</td>
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Our tooling system includes a variety of punches, dies and accessories available in segmented, full length and half-length sizes to suit nearly any metal bending application.

Press brake tooling system designed for those who demand the best and have exacting standards.

All our press brake tooling is manufactured from premium tool steel with the “business end” of the punch induction heat treated for extra durability.

Our tooling forming technology is designed to enable high quality sheet metal forming. The result is a clean bend with minimal to no marking of the sheet metal.
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- Origin: Italy
- Website: www.gennelliallori.it/
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A new Generation of CNC shear. High Precision, European made, Efficient and reliable.

**Shear Specs:**
- Cutting Thickness: 0.5 to 25 mm
- Cutting Length: 2000 to 8000 mm

**Practica**
High performance hydraulic swing beam shear machine.

**Varia**
High performance variable angle shearing machine.

Bending Machines

ULTIMA

**Press breaks Specs:**
- Tonnage force: 35 to 1250 Ton
- Bending length: 1000 to 6000 mm
- Standard 5 axis Y1,Y2,X,R,V
- Option up to 8 axis back gauge

**The Ultima Minibend is ergonomically designed:**
- Movable footpedal
- Pivoting control pane
- 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.
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Because of our experience and up-to-date knowledge in various engineering fields, we were glad to take the initiative of providing advanced services & trainings to ensure the continuous progress of Egypt & the Middle East through INDUSTRY 4.0 & support businesses in every possible way.

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Our reverse engineering service will convert any physical object you have into a precise digital model to help you make high quality, innovative products while reducing your production cost!

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