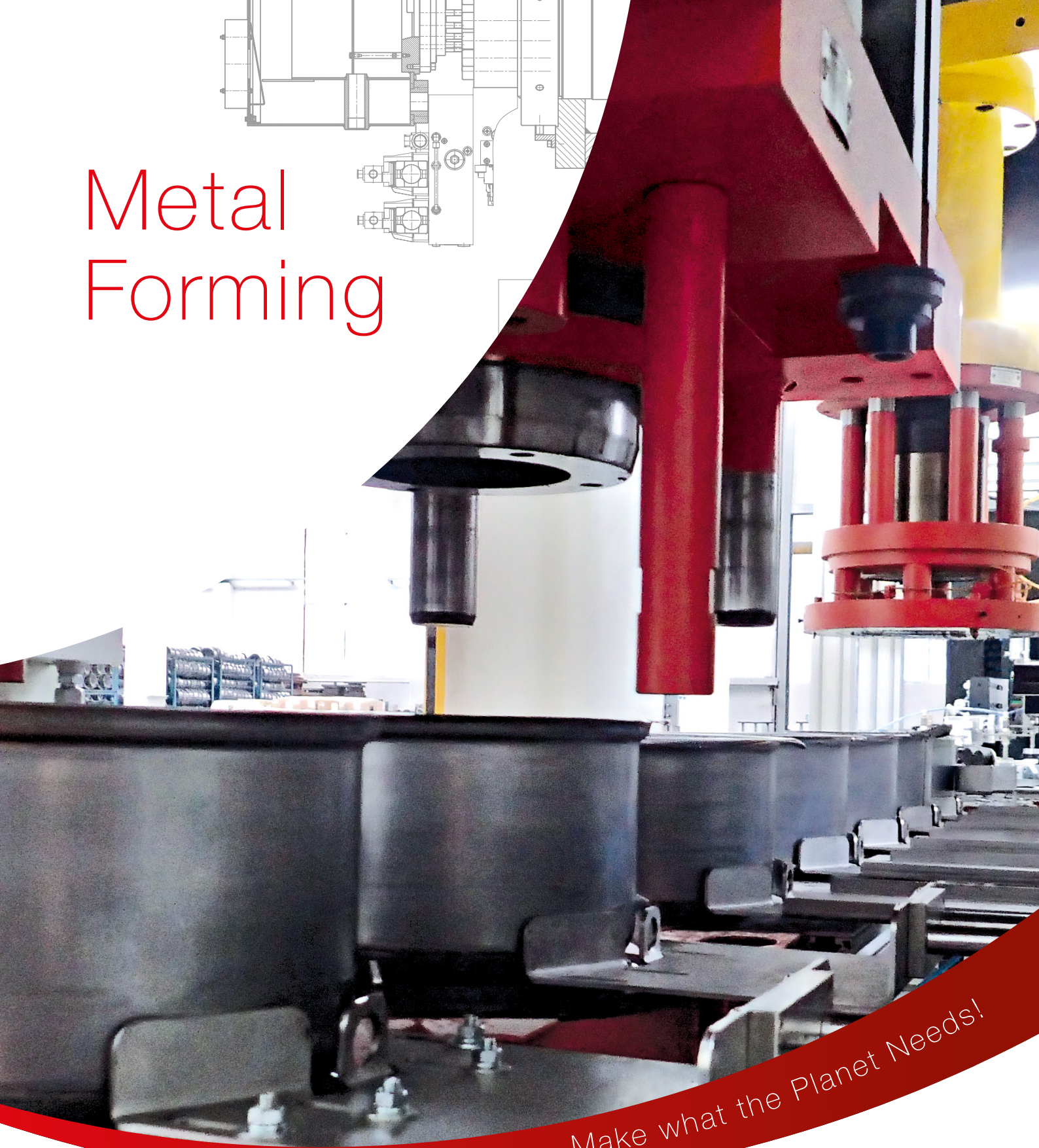


Metal Forming



Make what the Planet Needs!



VAPTECH

Welcome to VAPTECH!

VAPTECH is a global supplier of custom-made solutions and services for hydropower, metal forming and biomass processing industries.

For more than 100 years of existence VAPTECH has established the worldwide known trademarks



which stand for innovation, reliability and durability of custom made press lines and automation.

Only for the past 15 years more than 5 000 VAPTECH presses and complete production lines have been successfully installed all over the world.

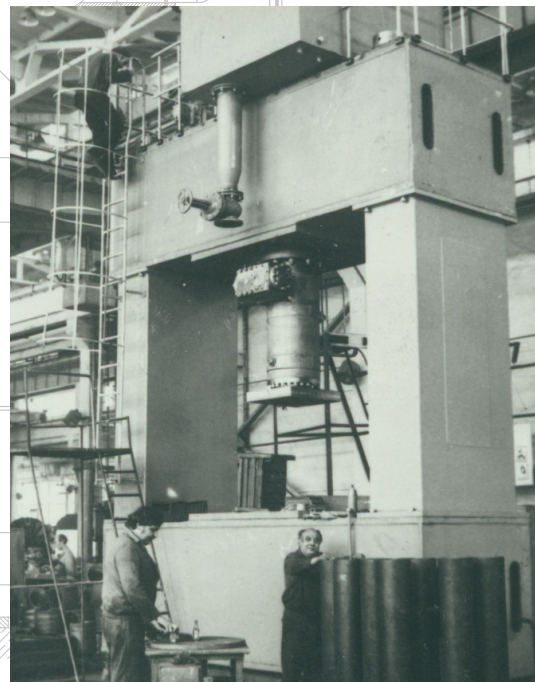
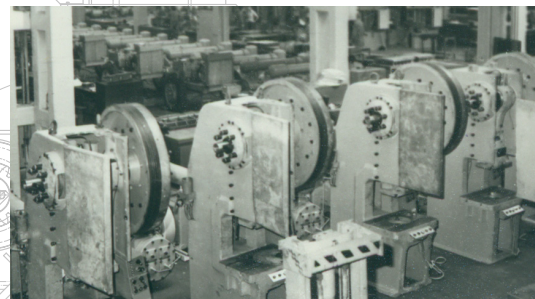


VAPTECH is certified:

ISO 9001:2008
Quality standard

ISO 14001:2004
Environment standard

BS OHSAS 18001:2007
Occupational health and safety standard



Metal Forming

VAPTECH delivers high quality metal forming equipment and optimal production technologies for a number of industries: automobile, consumer electronics, defense, furniture, home appliances, metal packing, storage and biomass, among others.

VAPTECH develops, designs, manufactures and installs intelligent high-performance solutions which ensure reliable and efficient production of small, medium and large parts.

VAPTECH' solutions are suitable for numerous metal forming processes:

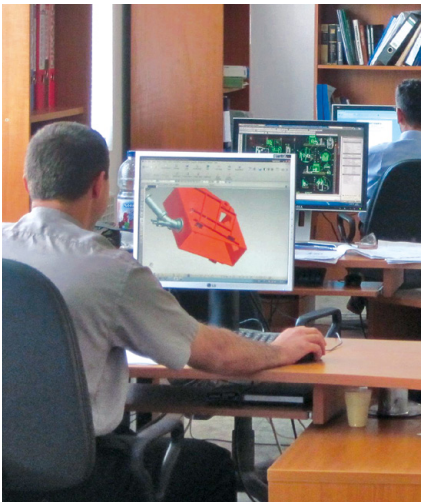
- Precise cutting
- Stamping
- Forging
- Blanking
- Deep-draw forming
- Progressive and transfer tool processing, among many other.

VAPTECH' Quality

As a global manufacturing company VAPTECH cares about the quality of production and its impact on the ecosystems and the employees. In this regard VAPTECH constantly improves products, working conditions, performance and it has implemented the principle of **LEAN technology** for continuous improvement of production and productivity.

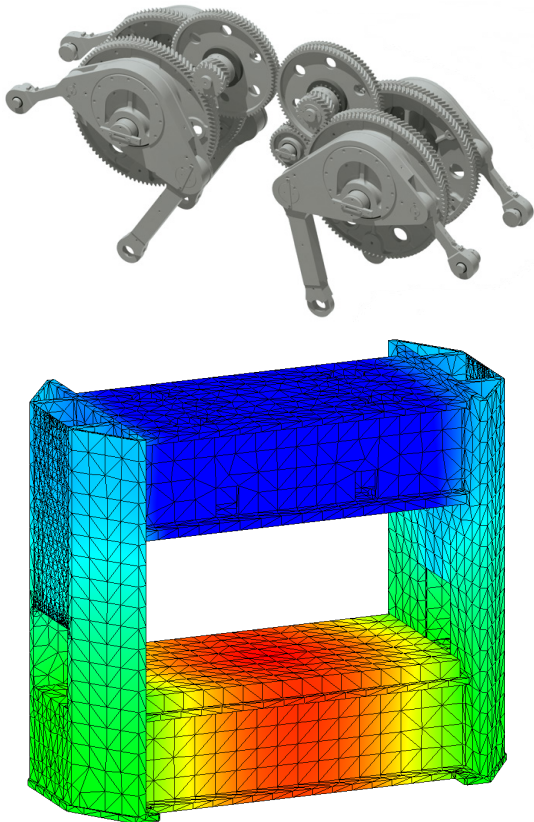
Project management

At VAPTECH we don't go half the way, we work till full satisfaction of our customers – from the beginning right through to the end of a project. The successful realization of a project requires a permanent coordination partner who knows all the details of a project and works closely with the customers in order to achieve clear communication, adequate feedback and realistic deadline agreements. VAPTECH' project managers make sure that the project run smoothly and keep the costumer informed through regular progress reporting.



Design

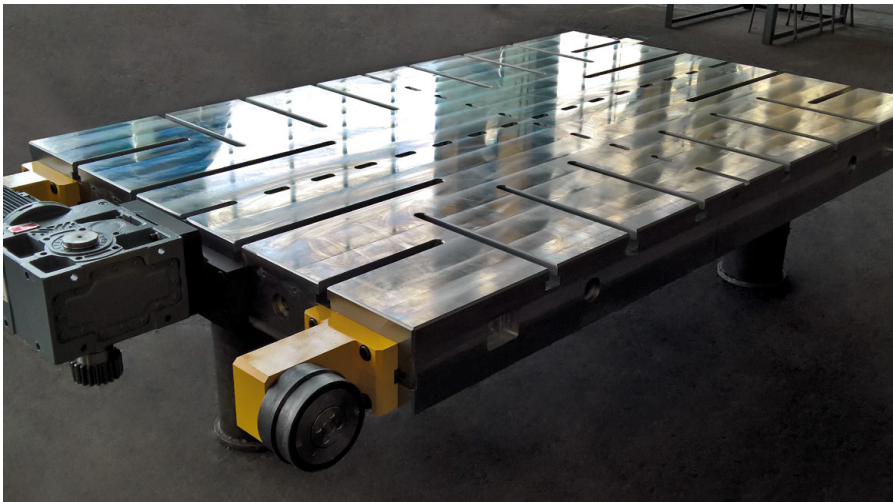
VAPTECH' design team is always ready to develop the most efficient metal forming solution according to specific requests. VAPTECH uses latest software and methodology that guarantee high efficiency and productivity such as 3D modeling, Linear Static Stress Analysis, Frequency & Buckling Analysis, Dynamic Analysis, Non-Linear Analysis, Analysis of Composites, Fatigue Analysis, CFD Fluid Flow Analysis, ASME Stress Analysis, Design Optimization, FEA.



Manufacturing

VAPTECH has its own mechanical workshop located on more than 40 000 sq.m. of production area. The workshop is equipped and capable of closing the entire production process for heavy welded and machined steel structures including procurement of materials, flame cutting, plate bending, welding, post-welding heat treatment, non-destructive testing, machining, surface treatment, among others.

Every product manufactured at VAPTECH is installed in-house and goes through a series of functional tests and tests to ensure rapid installation and commissioning on site.



Everything from one single source

At VAPTECH we have the right expertise to combine equipment into one working unit in order to guarantee the functionality, efficiency and quality of the production line and the capacity of all of its parts.

Highlights:

- Single source responsibility
- Welded steel structure of the press frame, heat treated, sand blasted and painted. The heat treatment provides stress relief of the press frame, guaranteeing maximum stiffness and rigidity.
- Centralized automatic lubrication, providing oil to all necessary points like sliding bearings, slide guides and pivot bolt.
- Oil recirculation – used oil is returned back into the lubrication system, filtered and used again.



Custom-made Presses

VAPTECH develops and manufactures high quality presses according to specific customer requirements that ensure a safe and dependable forming of a wide variety of materials, such as stainless steel, aluminum, steel, nickel and copper, along with many others.

Mechanical presses
Press force: 150 – 15 000 kN
Connection rods: 1 – 4
Stroke: 40 – 400 mm
Speed: 20 – 120 spm
Table lengths: 500 – 6 000 mm
Eccentric shaft, eccentric gear
Link-drive, knuckle joint
O-frame presses
Press force: 150 – 1 500 kN
Fixed stroke: 60 – 150 mm
Speed: 60 – 200 spm
Hydraulic presses
Press force: 600 – 20 000 kN
Stroke: 400 – 1 000 mm
Working speed: 5 – 30 mm/s
Fast speed: 250 – 600 mm/s
Table lengths: 500 – 6 000 mm
Servo presses
Press force: 1 600 – 15 000 kN
Table lengths: 500 – 6 000 mm



Complete production lines

VAPTECH invests all its extensive experience in designing and manufacturing metal forming turnkey solutions in order to ensure high-volume production and maximum flexibility. With its automated press lines for metal processing VAPTECH delivers to its customers complete solutions and optimal production technologies.

Highlights:

- More than 100 years' of experience in engineering and manufacturing
- Fully tested integration system
- Short installation time
- Short commissioning time
- Training of customer' operating personal
- CE Certification



Progressive die-Lines

VAPTECH' progressive die-lines combine punching, coining, bending and several other processes of modifying metal raw material, combined with an automatic feeding system.

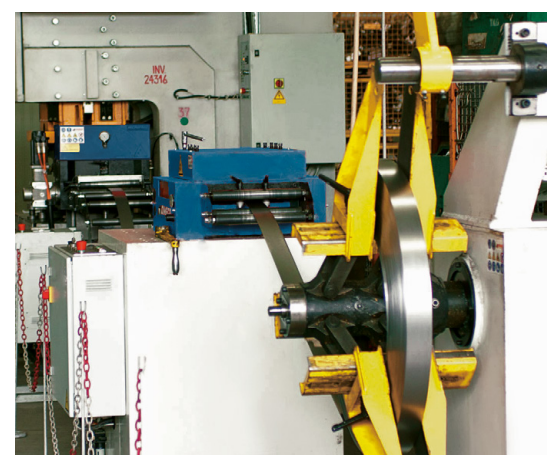
Feeding lines

According to the specific needs of the press lines, VAPTECH provides:

- Uncoiling devices with coil load bearing capacities: 0.5 – 150 kN
- Straightening devices:
 - Straightening rollers: 5 – 19 pcs.
 - Strip widths: 50 – 1 500 mm
 - Strip thickness: 0.15 – 6 mm
- Feeding devices with pneumatic, linear or servo feeding equipment and strip widths: 50 – 1 500 mm
- Systems for part handling
- Scrap removal systems
- Unloading systems
- Tooling

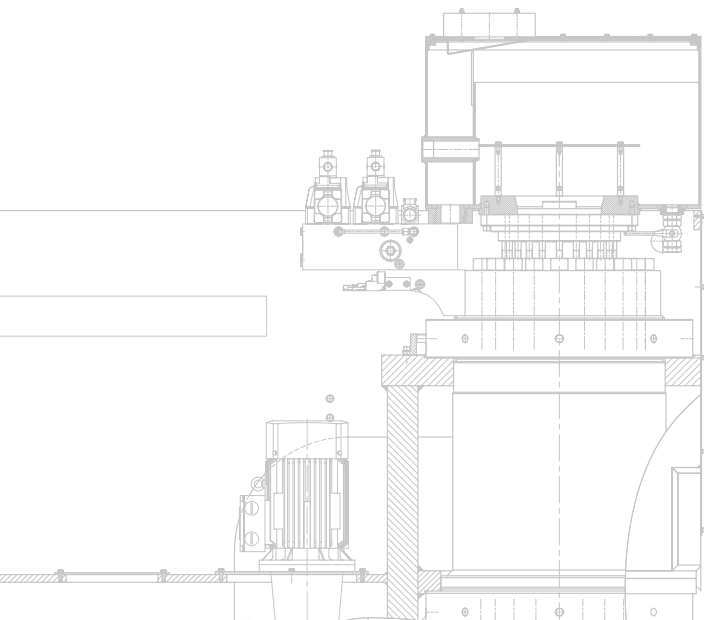
Transfer and Blanking Lines Link-drive

VAPTECH' transfer and blanking lines are used for stamping and cutting processes from large coils, ensuring the maximum use of the material and efficient production. The lines can be equipped with feeding lines, transfer/blanking press, tacking system, gripper system.



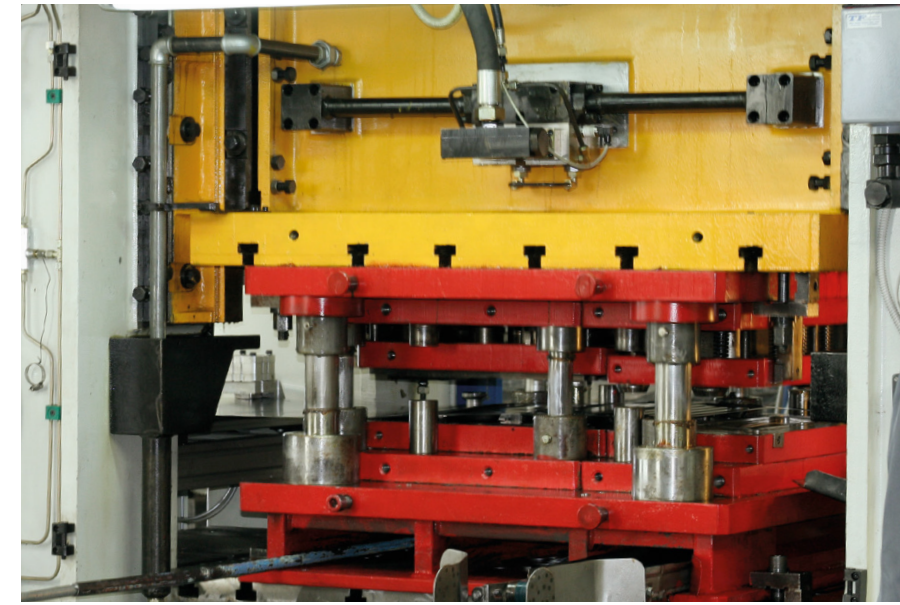
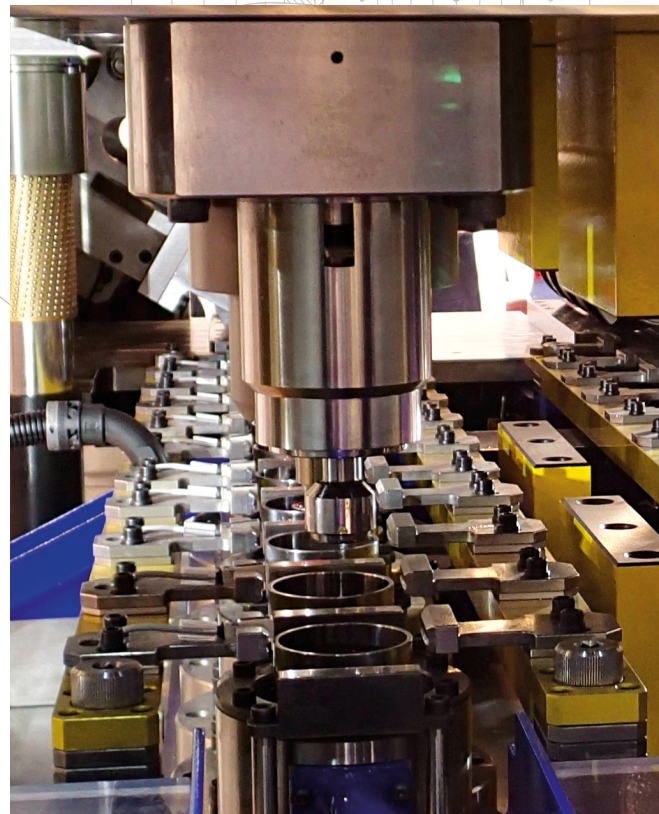
Automation

VAPTECH' metal forming solutions are equipped with automation designed to provide maximum regulation, interaction and synchronization of each and every component of the production line.



Highlights:

- The automation algorithm is developed by VAPTECH' experts and is intended to deliver smooth operation of the entire production line.
- Control panel with SIEMENS PLC for the adjustment of all settings and Pilz safety devices.



Modernization & Renewal

VAPTECH provides services for refurbishment and modernization of existing metal forming solutions and presses:

- Diagnostics and analysis
- Spare parts
- Repair
- Modernization of the hydraulic and control system
- Modifications according to customer' specifications
- Complete Press Refurbishment
Electrical modernization and update

Highlights:

VAPTECH service centre

is available to you on **+359886223535**

and **service@vaptech.bg**





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