



Die manufacturing and metalworking



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01

COMPANY



Set up in 1980 by two professionals with considerable experience in the field of cold-forming of sheet metal, GPB is a cutting-edge company operating in the small/medium metal forming sector. GPB has always offered tailored solutions to meet its customers' needs: special working of items made from iron, steel, aluminium, copper, brass and bronze using progressive, transfer and block dies.



The items are created via shearing, forming, bending, drawing, trimming, punching and then assembled by either welding or riveting.

The company not only works metals, but also uses the very latest technology to construct dies.

GPB also has a network of suppliers responsible for metalworking, heat treatment, surface finishing and equipment.

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ACTIVITIES

PUNCHING AND BENDING

Due to constant growth in its output, the company has invested in new machinery to meet the demanding needs of its customers and so has added punching to complement its other activities, such as shearing and forming. Special precision machines punch out the intricate designs, at depths of up to 6 mm in the sheet metal, with a working area of 1525x2500 mm.

In most cases, bending takes place after punching: in fact, items produced on the punching machine can then be bent by an automated pressing machine to meet customer specifications.



The image shows a large industrial machine, likely a press, with a green and yellow color scheme. The word 'otipRESSE' is written in white on a green background at the top left. A large green number '7' is prominently displayed in the center. The machine has various control panels, buttons, and a digital display. The background shows a factory setting with other equipment and a worker in the distance.

otipRESSE

SHEARING – FORMING

The machinery installed at GPB also includes a series of friction presses (20 - 250 t) with onboard PLCs for adjusting and recognising the dies. The technology used makes it possible to reduce set-up times. Then there is also a special 10-stroke monobar transfer press with adjustable stepping (50 - 250 mm).

Slave devices let us produce items of various sizes, from strips just 0.1 - 6 mm wide to items some 500 mm wide.

DRAWING

G.P.B. has the capacity to draw various materials using hydraulic and mechanical presses (100, 200, 250 T) fitted with PLCs to control the drawing speed, the pressure of the mobile plate and the pressure bar with electronic decreasing. By varying the pressure applied by the pressure bar we can produce complex items that would otherwise involve a far more time-intensive drawing process.

ASSEMBLY

In order to meet the most demanding of our customers' requirements, who often want pre-assembled products, not only does G.P.B. form and finish the items, but can also weld and rivet them together or simply assemble them by hand using screws and rivets.

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SERVICES

Our skilled, expert personnel guarantee numerous services, including forming, shearing, bending and punching using new generation machinery.



DIES

In addition to producing metal-worked products, GPB is also a die manufacturer using advanced technology. Here it specialises small/medium sized dies (up to 900 mm) for cold shearing and small/medium drawing. The product range includes progressive dies for shearing/drawing, transfer dies and block dies.

The company's highly qualified personnel is regularly updated on the latest die technology: from drawings and prototypes to the design and construction of the dies.

GPB also offers its customers the chance to keep their dies in a special tool store designed to protect these from all possible risks. It also looks after all aspects of die maintenance and any modifications to these as required.



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OUR EQUIPMENT

GPB has a complete range of machinery that lets it perform all stages in the production process in-house. It has punching end bending machines; friction presses ranging from 20 to 250 t for shearing and forming; hydraulic and mechanical presses for welding and riveting to assemble the finished items.





- PUNCHING MACHINE EMZ 3610 NT AMADA
- LOADING AND UNLOADING MP SHEETCAT 3015 AMADA
- BENDING PRESS HFP 130-30 NT AMADA
- ROBOT FOR BENDING APR 30/6 ANTIL
- BENDING PRESS HD 8025 NT AMADA
- ECCENTRIC PRESS 40 t MANZONI PRESSE
- ECCENTRIC PRESS 80 t MANZONI PRESSE
- ECCENTRIC PRESS 120 t MANZONI PRESSE
- ECCENTRIC PRESS 25 t BALCONI
- ECCENTRIC PRESS 50 t BALCONI
- ECCENTRIC PRESS 40 t LOSA M.
- ECCENTRIC PRESS 100 t LOSA M.
- ECCENTRIC PRESS 128 t OTI PRESSE
- ECCENTRIC PRESS 84 t OTI PRESSE
- ECCENTRIC PRESS 128 t OTI PRESSE
- ECCENTRIC PRESS 168 t OTI PRESSE
- ECCENTRIC PRESS 250 t OTI PRESSE
- TRANSFER PRESS 120 t EQUIPPED UP TO 10 STATIONS OTI PRESSE
- PRESS 63 t COLOMBO A.
- HYDRAULIC PRESS 100 t WMW
- HYDRAULIC PRESS 100 t HYDROMECC
- RIVETING WITH ROTARY TABLE 8 STATIONS BALTEC
- RIVETING RN 231 BALTEC
- PARALLEL LATHE SAG210 GRAZIANO TORTONA
- TANGENTIAL GRINDING MINI 9 CAMUT
- GRINDING RUR7000
- TANGENTIAL GRINDING MOD. 1400 SHIPMAN
- TANGENTIAL GRINDING OR-1000 RIBON 1000
- MILLING N10 GABIN
- MILLING MH 600P MAHO
- WORK CENTER CNC VCP600 MIKRON
- MILLING CNC WF 72CH MIKRON
- ELECTROEROSION a - 1IA FANUC

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QUALITY SYSTEM

CONTROL

All stages in the production process are subject to careful control: from the receipt of the raw materials via an identification sheet accompanying the goods to the various stages in production. The processing cycle requires that all machine adjustments, reference quotas, tolerances, etc. are recorded. The finished items are then checked using normal measuring instruments, plus a profile magnifier and electronic altimeters.



SYSTEM

Right from the very start, GPB has always taken great care and invested many resources in its Quality System, the goals being to optimise its production process, maintain high levels of quality and reliability and so guarantee complete customer satisfaction.

The company has identified the corporate processes needed in its Quality Management System and has established their sequence and interaction.

Over the years, GPB has introduced standard procedures aimed at improving its production processes. These involve strict control methods, monitoring and analysis.

GPB is now a UNI EN ISO 9001 certified company.



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SOME REFERENCES



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