



COMPOSITE

MIB
by NUMALLIANCE

Designer and manufacturer

hydraulic and electric presses and production lines

With more than 60 years of experience, we can manufacture a machine to your specifications to suit your field of application.

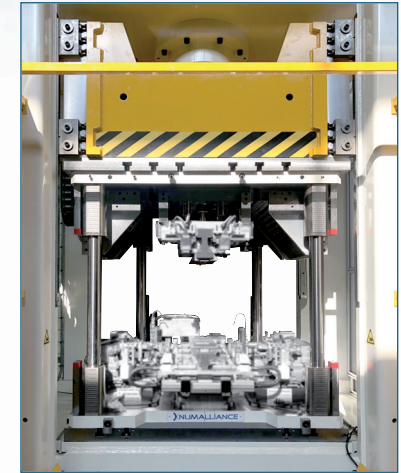
STANDARD HYDRAULIC PRESSES

KEY FEATURES

- Presses 100 tons or 200 tons
- Platens dimensions 800x600 mm or 1600x1200 mm
- Stroke 500 mm or 1200 mm
- Daylight 800 mm or 1500 mm

OPTIONAL FEATURES

- Fluid heating platen 250°C or 350°C max
- Electrically heated platen 250°C or 450°C max
- Platens cooling
- Autonomous cooling skid
- Process data acquisition center
- Traceability of cycles and parts
- Mold Core hydraulic pressure flow control
- Ejection frame for molded parts
- Robot integration for material and parts loading/unloading



STANDARD ELECTRIC PRESSES



GENERALS CHARACTERISTICS

- Presses 50 tons and 100 tons
- Platens dimensions 1000 mm x 800 mm
- Stroke 500 mm
- Daylight 800 mm
- Press technologies: electrical axis with high efficiency, speed, precision, for dynamic movement
- Multilingual dialog and programming interface on a 12" touch screen
- Multi-Function Pendant
- Work in position or pressure
- Safety brakes
- Sensitive edge roll-up door
- Force available throughout the travel
- Real time effort control
- Variable kinematics
- Integrated operations in the tooling
- The machine can be integrated in a fully automated production cell
- Manual or automatic part feeder
- Optional features similar to the standard hydraulic press

BENEFITS OF ELECTRIC

- Clean and quiet operation
- Energy savings
- Precision in the compression process
- Controlled forming speed and position
- Low maintenance
- Low speed servo and control

INDUSTRY 4.0

Data collection (temperature, speed, force)

SPECIAL PRESSES

THERMOSETTING AND THERMOPLASTIC PLASTICS

are examples of composite materials used
on our special machine

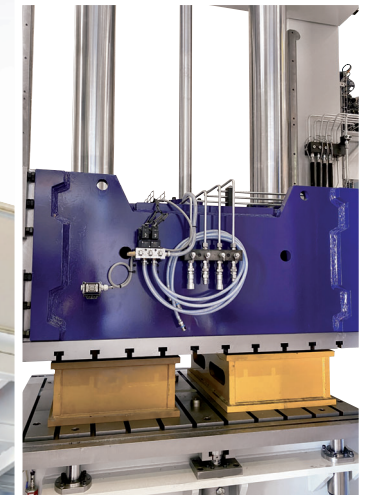
TYPES OF PARAMETERS ADAPTABLE TO YOUR SPECIFICATIONS :

- Tonnage
- Platens size
- Temperature
- Heating and cooling area
- Cycle management
- Hydraulic accessories control
- Pneumatic and vacuum control
- Active parallelism balancing
- Control of temperature controllers for thermal cycles
- Quick connectors for mould control

DIFFERENT TYPES OF PROCESSES CARRIED OUT

- SMC / RTM / BMC
- Prepreg
- Stamping

Performance and flexibility
in an automated island unit



LABORATORY PRESSES

- For research and development or small-scale production
- Electrical or hydraulic
- Cooling systems
- Data Recording



Platens daylight



Digital control



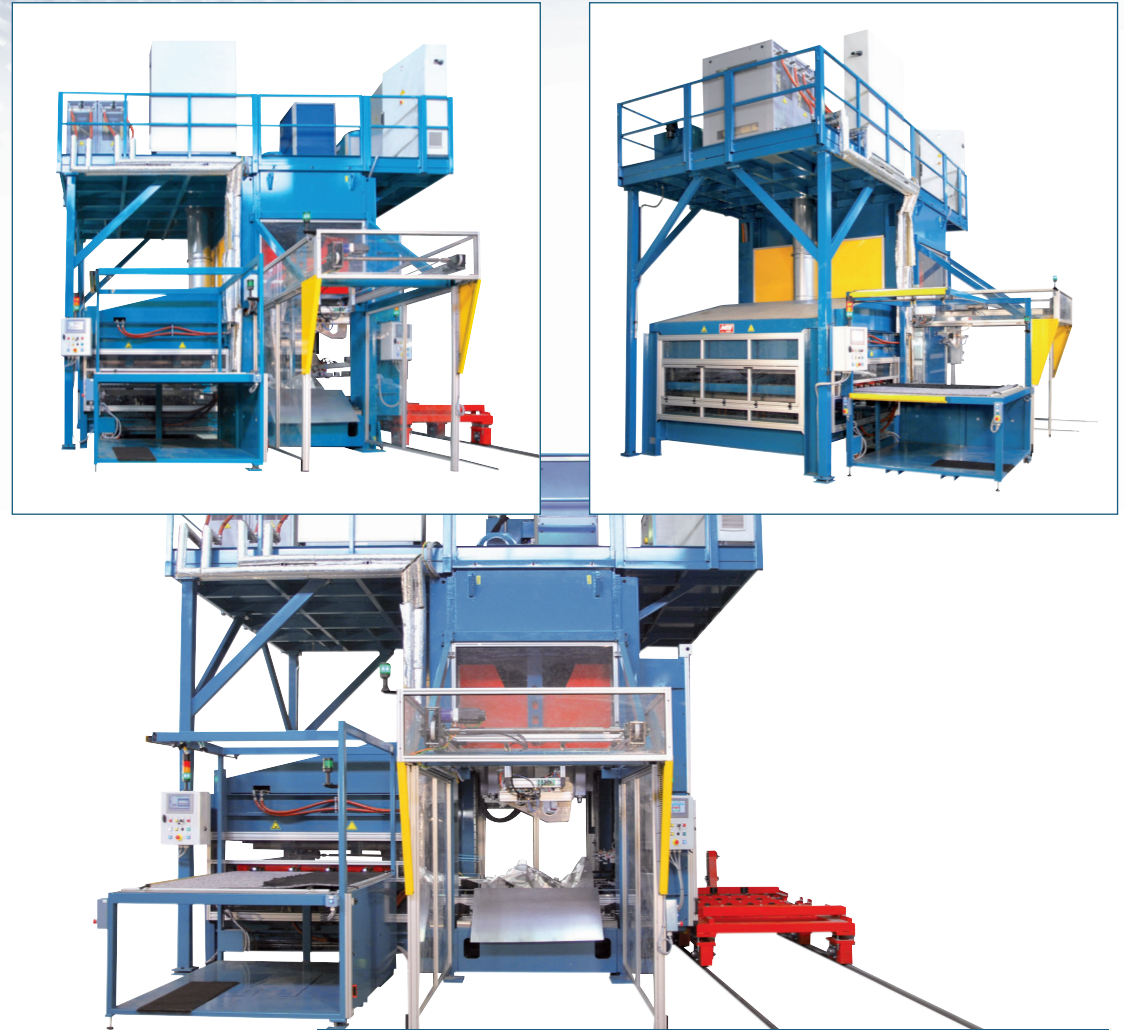
SUITABLE FOR LABORATORY TESTS
OR SMALL SERIES FOR THERMOFORMING

AUTOMATED SYSTEM AND LINES

MIB HYDRO DESIGNS, BUILDS, AND INSTALLS YOUR PRODUCTION SYSTEM ALL AROUND THE WORLD.

The system can be made up of different stages and functionalities, the solutions are infinite :

- Material reel unwinder
- Robot
- Material cut
- Cutting table
- Infrared, oven or contact heating
- Loading/unloading solutions (transfer, conveyor, robot...)
- SMED (Single Minute Exchange of Die)
- Injection molding
- Finishing (cutting, punching)
- Packaging
- etc ...



THE CONFIGURATION OF EACH SYSTEM
is designed according to the nature of the process to be carried out



Before retrofitting



REFURBISHMENT OF YOUR HYDRAULIC PRESSES INCLUDING ALL BRANDS.

According to configuration and condition of your machine, retrofitting can be performed :

- Mechanical parts : guiding/platen/frame
- Hydraulic parts :
 - Replacement of hydraulic components
 - Compliance with current machine standards and directives
- Automation and electrical parts :
 - Replacement of the electrical cabinet
 - Replacement of the PLC and display with the latest generation models

MIB

IS PART OF THE NUMALLIANCE GROUP



World's leaders in turnkey productivity solutions
for wire, tube and flatform forming

Numalliance's solutions are sold **throughout the world**, thanks to its 17 locations:
8 engineering and assembly sites, 9 subsidiaries and technical sales offices and its
network of 40 agents.

They meet the expectations of different sectors of activity: automotive, aeronautics,
agriculture, construction, sanitary, furniture, medical, shopfitting, etc.



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