



PERIODICAL REVISION CENTER

GNC, CNG, GNV,
NGV CYLINDER



CYM MATERIALES S.A.
INDUSTRIAL SOLUTIONS

PERIODICAL GNC, CNG, GNV, NGV CYLINDER REVISION CENTERS

CYM Materiales SA manufactures a full line of equipment for "Periodical Cylinder Revision Centers" to inspect GNC (Gas Natural Comprimido) CNG (Compressed Natural Gas), GNV (Gas Natural Vehicular) or NGV (Natural Gas Vehicules) cylinders.

All machines meet the highest demands and are robust, reliable and compact.



AUXILIARY EQUIPMENT

GAS VENT CHAMBER CVG-100L

- Venting chamber for emptying of gases
- Bases for CNG tube support
- Lung with coupling hoses for venting up to four CNG tubes at the same time.
- Water tank with a capacity of 100 litres made of reinforced plastic.



VERTICAL PRESS FOR VALVE REMOVAL PD-1

- Allows removal of the valve from the CNG pipe.
- Pneumatic press drive.
- Cylinder support



TROLLEYS AND SUPPORTS

- Manual trolleys for the movement of CNG cylinders within the different process stages.
- Fixed upright bases for CNG cylinders in standby position

WORKING TABLES

FOR PROCESS LINES WITH MANUAL CYLINDER DISPLACEMENT

The movement of cylinders between the different processes is done with manual trolleys.

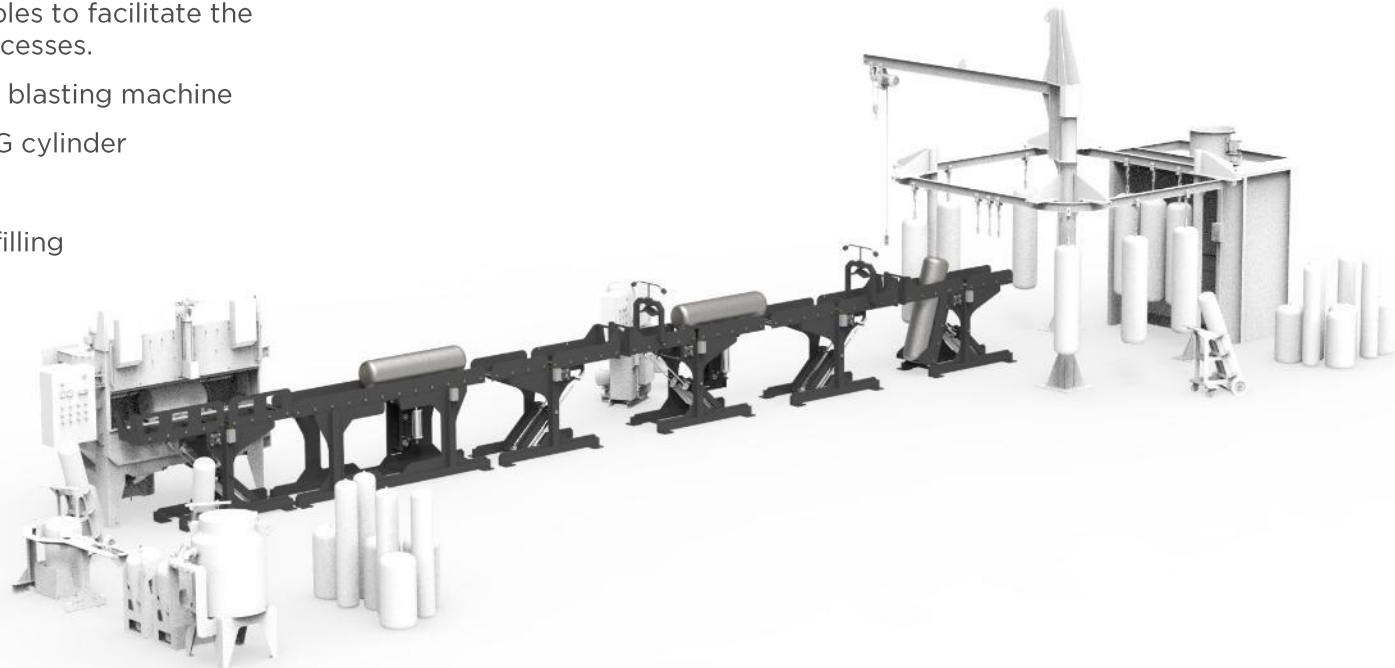
- MBG 90° 1P tilting table for cylinder loading to shot blasting machine
- MB 90° 1P tilting table for external visual inspection of the CNG cylinder.
- MB 180° 2P tilting table for internal cylinder washing and emptying after the hydraulic test.
- Manual trolleys for the movement of CNG cylinders within the different process stages.
- Fixed bases in vertical position for CNG cylinders in standby position.



FOR PROCESS LINES WITH LINEAR CYLINDER DISPLACEMENT

The movement of cylinders is carried out on roller tables to facilitate the movement of the cylinders between the different processes.

- MBG 90° 1P tilting table for cylinder loading to shot blasting machine
- Roller table for external visual inspection of the CNG cylinder
- Roller table for internal washing
- Roller table with scale for hydraulic test and water filling
- Roller table for water emptying
- Roller table for loading to paint conveyor



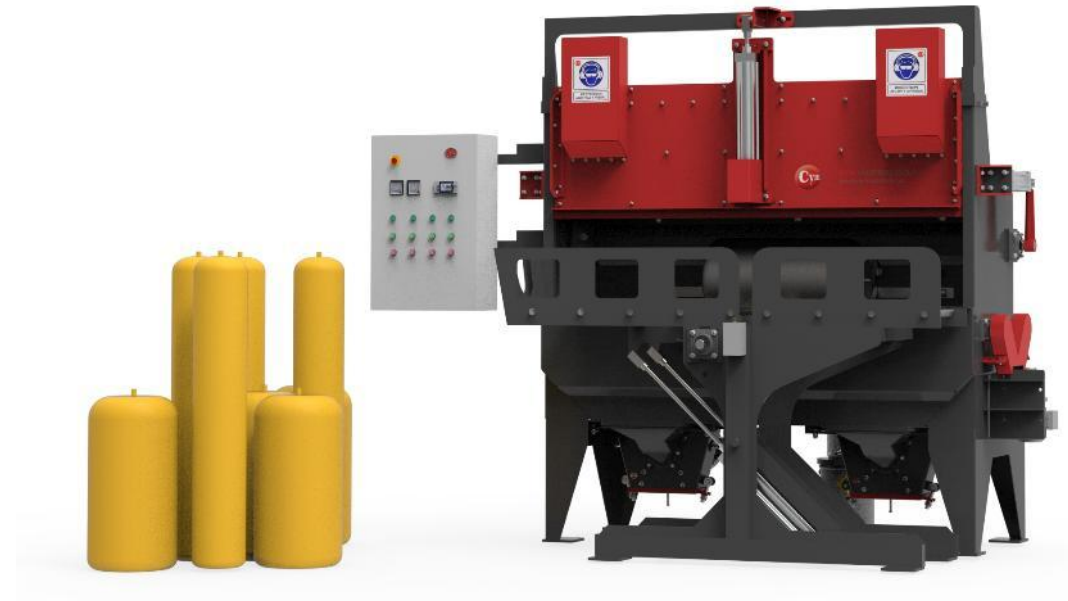
SHOTBLASTING

Two options of shot blast cleaning equipment for cylinder cleaning models ECOGNC (automatic) and CY1210P-GNC (manual)

ECOGNC AUTOMATIC SHOT BLASTING EQUIPMENT

Consisting of:

- Shot blast cabinet
- High wear resistant steel parallel rollers.
- Two turbines model TR300 - 10 HP
- CART 1NM dust collector.
- General control panel
- MB-90° 1P MG cylinder loading tilt table



MANUAL SHOT BLASTING EQUIPMENT CY1210P-GNC

Consisting of:

- Cabinet with laminated visors, easy to replace.
- CY7'D abrasive blasting equipment with foot pedal control.
- Dust hoover
- Cylinder support table (for rotation and feed).

PH-1 HYDRAULIC TEST KIT

Two options of equipment to perform the hydraulic test model PH-1 A (automatic) and PH-1 M (manual) both according to IRAM 2587 standard of volumetric expansion in cycles between 4 and 7 minutes depending on the size of the cylinder to be processed.

AUTOMATIC HYDRAULIC TEST KIT PH-1 A

Consisting of:

- Robust steel structure 0.6m long x 0.7m wide x 1.58m high.
- Smooth loading system on scales.
- Electronic scale for CNG cylinder weighing.
- Hydraulic pump driven by 3HP engine.
- Maximum working pressure 375 kg/cm².
- Two burette options to process cylinders between 30 to 90 litres and 90 to 140 litres capacity.
- Electronic manometer and mechanical manometer for pressure measurement.
- Temperature sensors for data acquisition to PLC
- PLC for process control and data storage corresponding to 1000 tests.
 - Software for test registration, archiving, calculation and direct data measurement.
 - Data transfer to external CPU for printing of spreadsheets.

EQUIPO DE PRUEBA HIDRÁULICA MANUAL PH-1 M

Consisting of:

- Robust steel structure 0.6m long x 0.7m wide x 1.58m high.
- Hydraulic pump driven by 3HP motor.
- Maximum working pressure 375 kg/cm².
- Intelligent relay for purge control and programmed pressure cut-off.
- Mechanical pressure switch and manometer



PAINTING CABIN

Booth for vertical painting of CNG cylinders and air gases

- Structure made of 2 mm thick pleated steel plates
- Pleated dry filters for paint retention (< 5mg/O3)
- Axial fan for suction of paint in suspension, driven by a 2 HP motor by 2 HP motor
- Centralised control panel
- Optional
 - Cylinder movement and handling system
 - Pneumatic cylinder lifting system
 - Mobile gantries for loading several cylinders
 - Circular overhead conveyor with electric hoist for loading of cylinders
 - High-performance airless paint spraying equipment with minimal paint dispersion
 - Chimney to the outside of the shed.

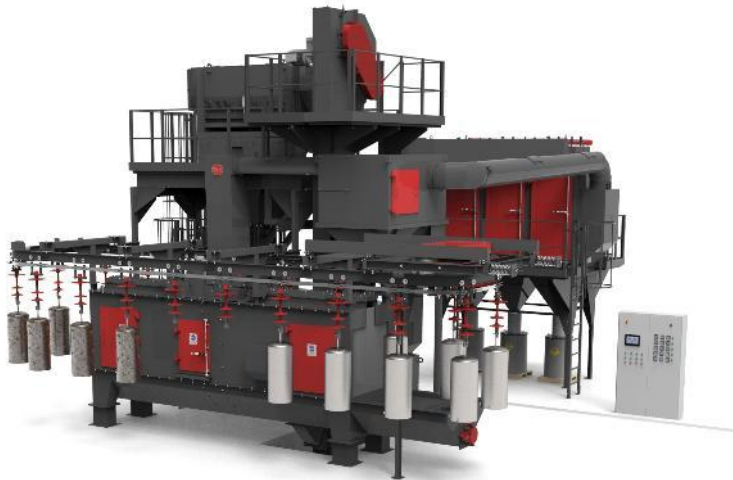


OTHER EQUIPMENT USED IN THE GAS INDUSTRY

SHOT BLASTING MACHINE FOR LPG, CNG AND AIR GAS CYLINDERS

Recommended for processing low production rates of LPG, CNG, fire extinguishers and air gases cylinders.

- GAR line to process the whole range of cylinders in horizontal position in continuous passage.
- CAB Line and SAT Line the cylinders are processed in vertical position hanging in devices on hooks can be loaded simultaneously.



CONTINUOUS HOOK SHOT BLASTING MACHINE

Continuous overhead conveyor lines allow to work autonomously or to be coupled to the same overhead conveyor as the painting line, thus avoiding the handling of cylinders between both processes.

- TUN line for shot blasting of small and medium sized cylinders.
- EST line equipped with 8 or 12 turbines allows the processing of small, medium and large cylinders.

MANUAL SHOT BLAST ROOMS

Allows blast cleaning of cylinders and tank trucks which, due to their size or complexity, cannot be processed in automatic shot blast machines.

One or more operators carry out the manual blasting process using pressure equipment to propel the abrasive.

Low throughput system compared to turbine blast cleaning equipment but high flexibility.



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