

Siraga

MAKEEN
ENERGY



Siraga's offer

CATALOGUE





our philosophy :

The difference by excellence.

For Siraga, the customer is the center point ...

Best judge of the quality of our services and equipment is customer.

That's why we give great importance to safety and quality during the design of our equipment.

The value added by Siraga lies in our know-how and particularly in design philosophy of our equipment:

- Equipment "made in France"
- Robust and tailor-made machines
- Safety and environment-friendliness
- Low maintenance costs

" Built for you, Built to last "

p.4

LPG Equipment

Palletizing	p. 6
Filling	p. 10
Safety and checking of the cylinder	p. 16
Cylinder capping & sleeving	p. 22
Around the side-entry valve	p. 26
Cylinder handling	p. 28

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Maintenance & Refurbishment

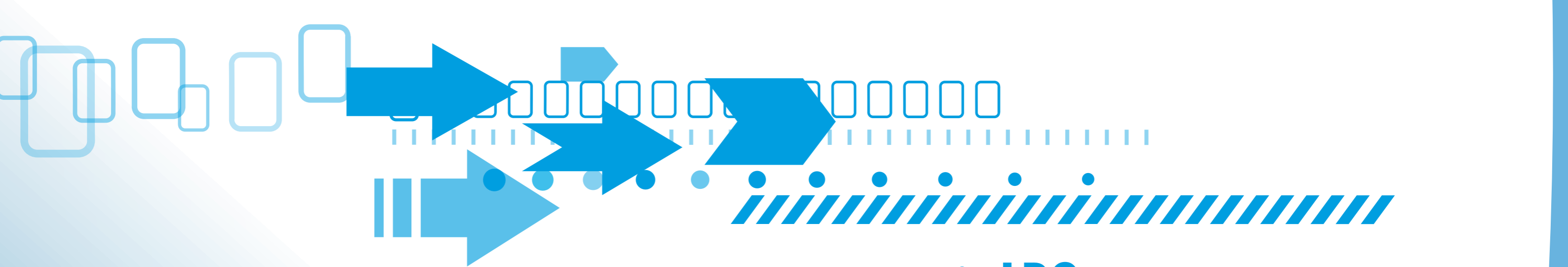
Maintenance	p. 32
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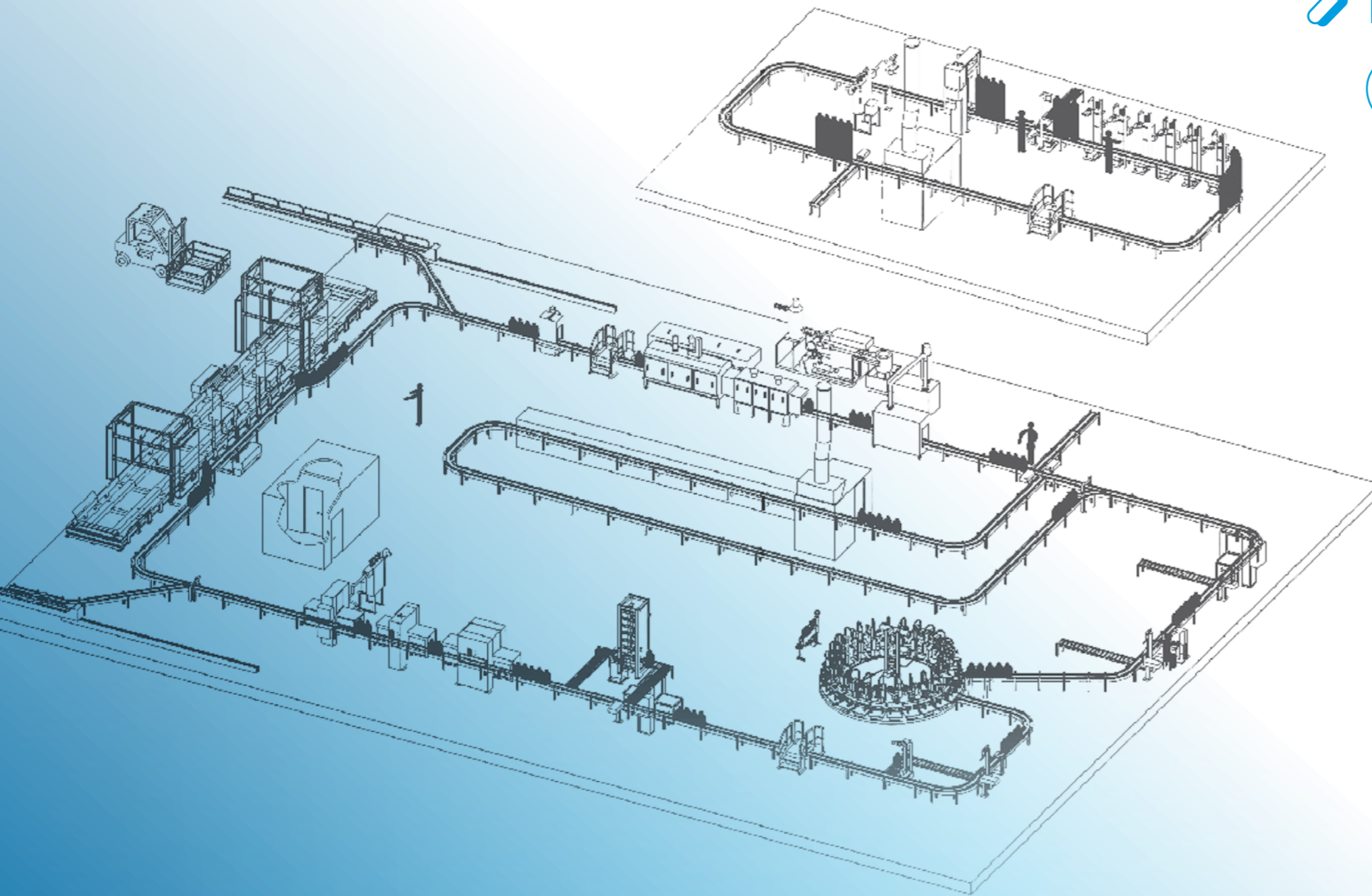
Services

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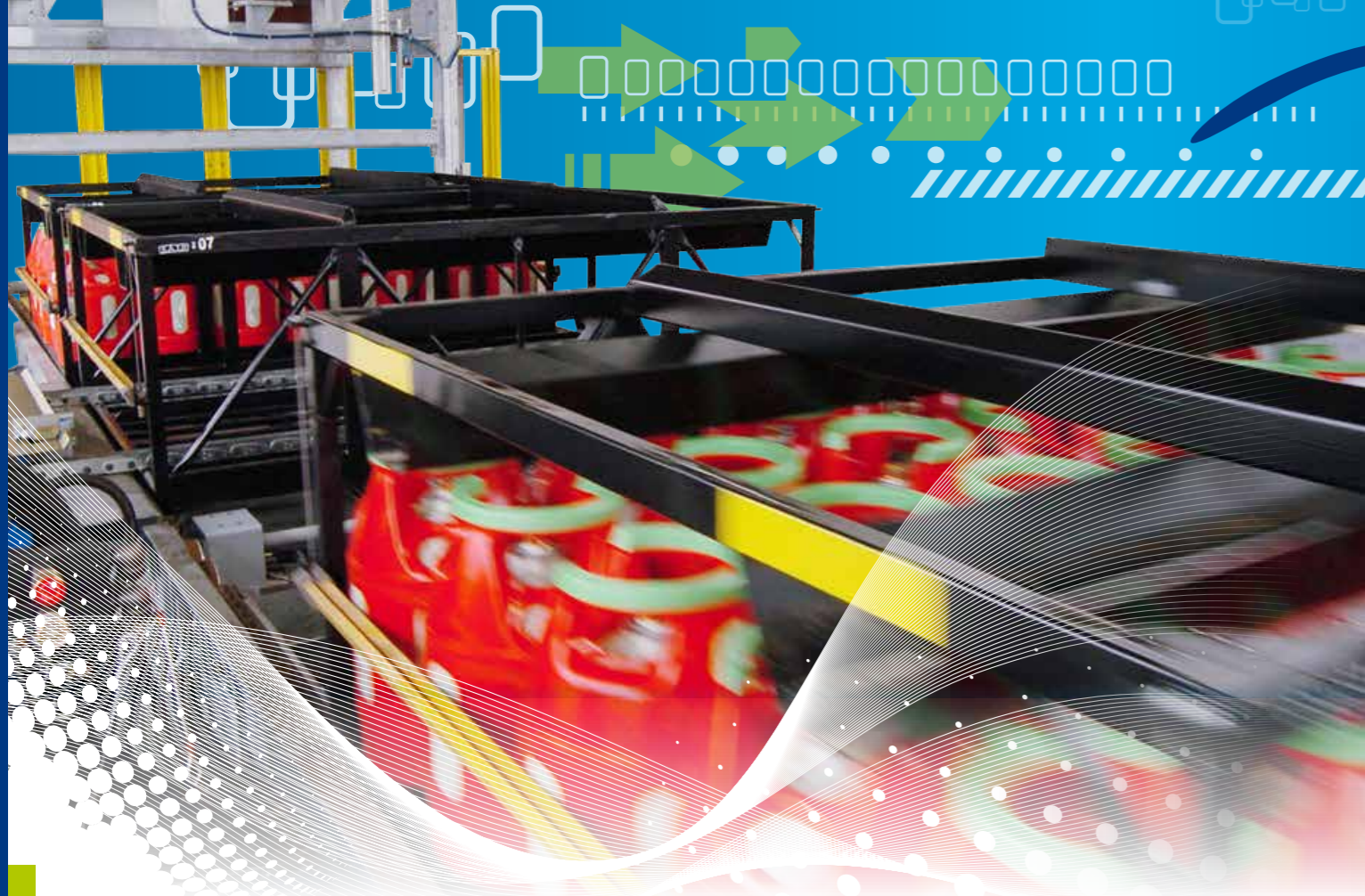


> LPG equipment

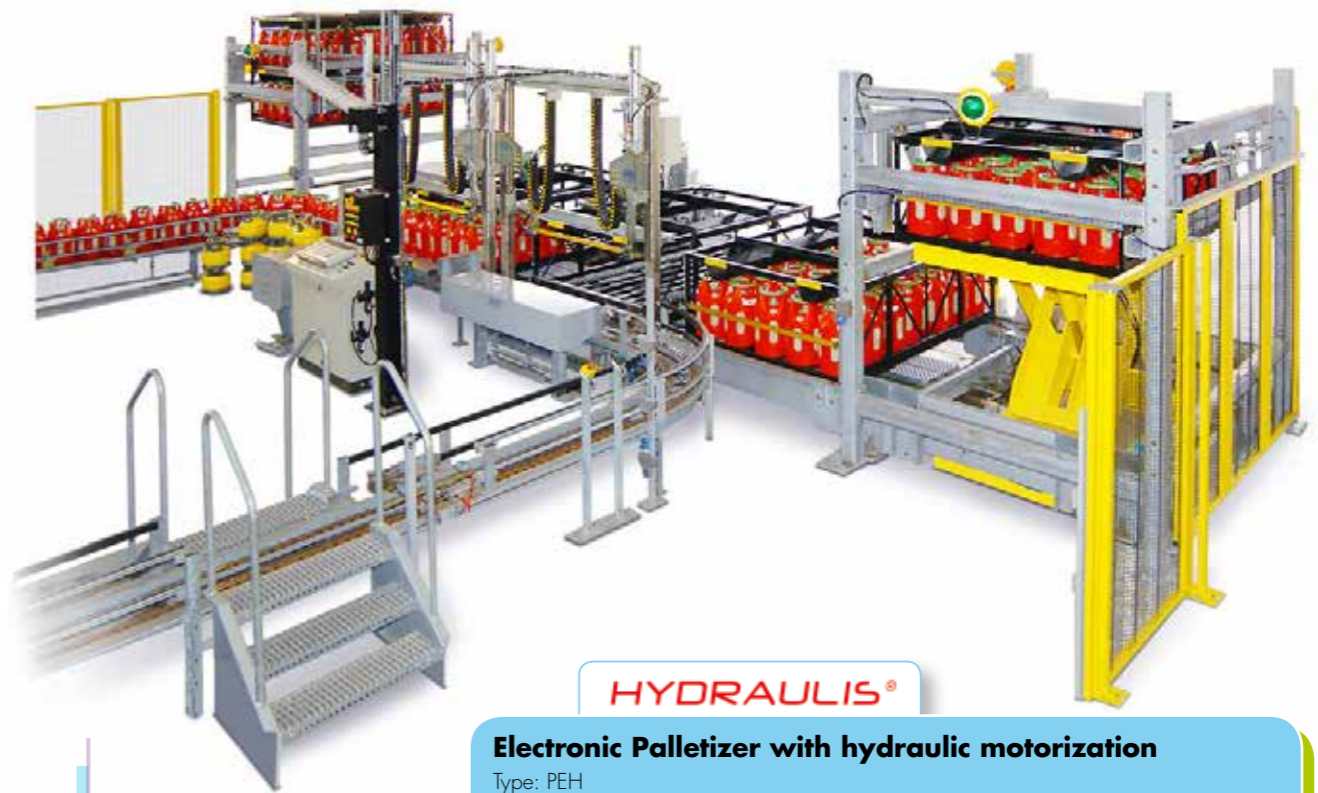


■ Palletizing	p. 6
■ Filling	p. 10
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■ Cylinder handling	p. 28





Palletizers



HYDRAULIS®

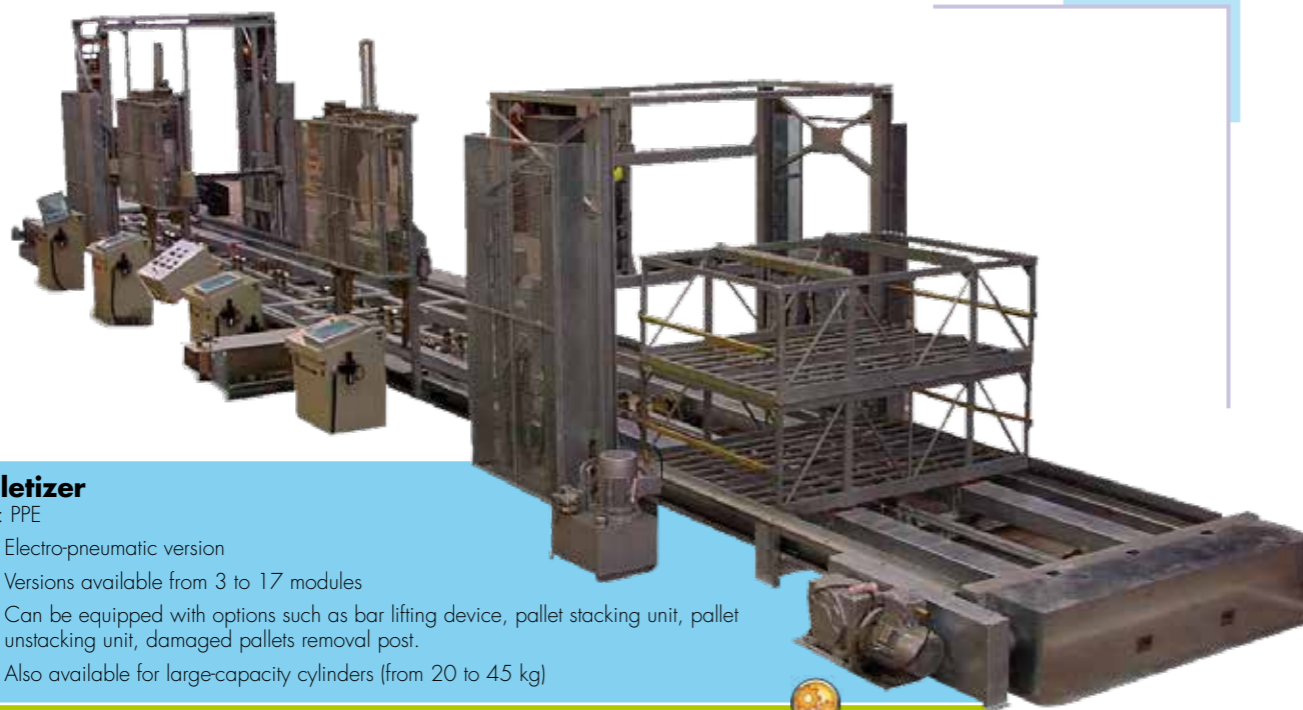
Electronic Palletizer with hydraulic motorization

Type: PEH

- Capacity : up to 2,400 cylinders per hour
- Fully galvanized frame
- All types of pallets



PALLETIZING



Palletizer

Type: PPE

- Electro-pneumatic version
- Versions available from 3 to 17 modules
- Can be equipped with options such as bar lifting device, pallet stacking unit, pallet unstacking unit, damaged pallets removal post.
- Also available for large-capacity cylinders (from 20 to 45 kg)



Pallets



Pallets for LPG cylinders

- Fiber glass closing bar
- Galvanized frame
- Possibility to supply pallets in kits (shipment by 80 or 150 kits, in 20' or 40' containers)

PALLETIZING

to
go further!

Electronic Palletizer

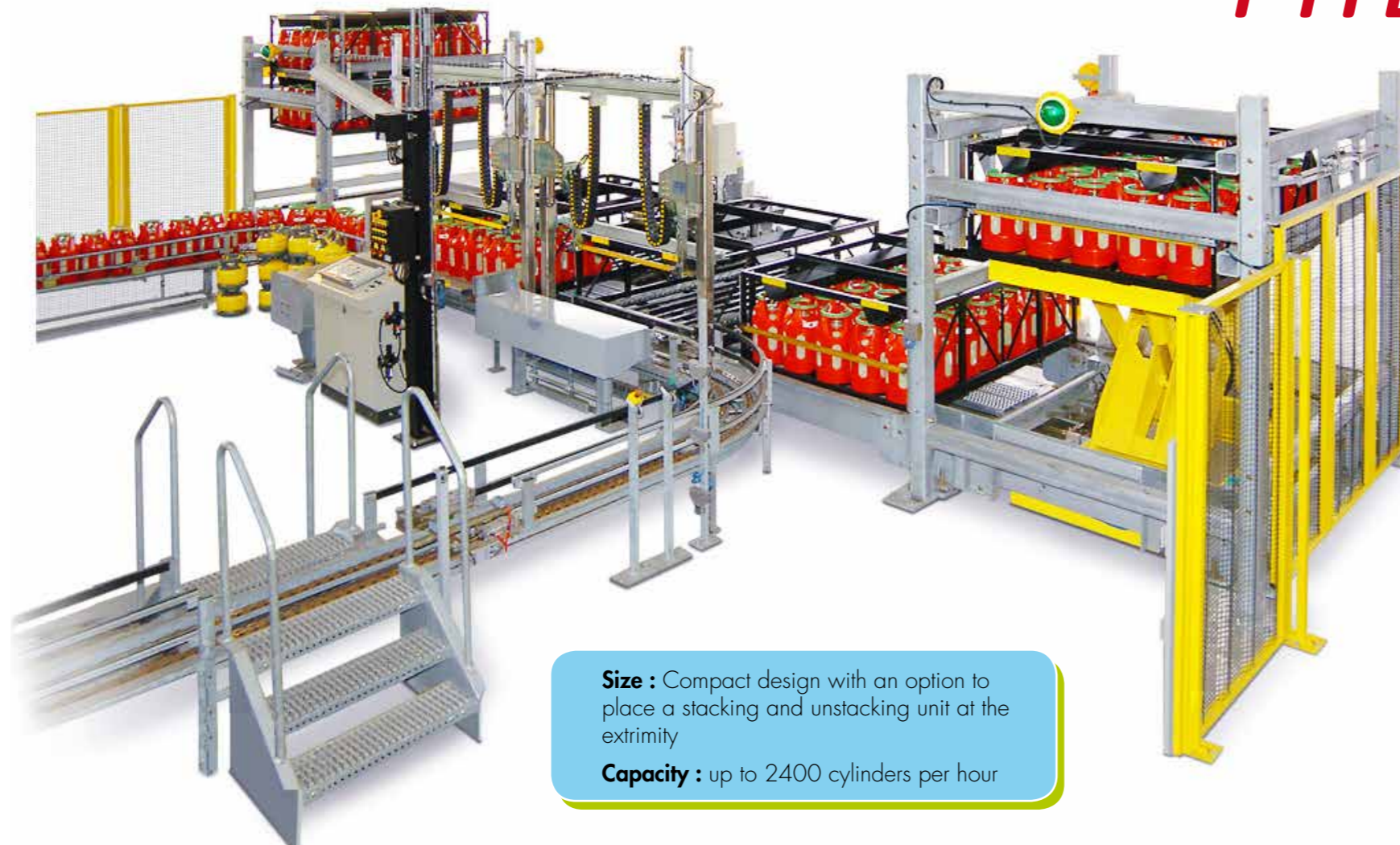
WITH HYDRAULIC MOTORIZATION

did
you know?

Since 1968, more than 300 palletizers have been manufactured and sold by siraga in more than 25 countries



HYDRAULIS[®]



Size : Compact design with an option to place a stacking and unstacking unit at the extremity

Capacity : up to 2400 cylinders per hour

Reliable

- U-profile independent galvanized modules
- Cycle management through PLC, located in hazardous area
- Low maintenance cost

High-performance

- Handles all types of pallets, even severely damaged
- Electronic control coupled with hydraulic power
- Compact with equal production
- Independant control of each module

Safe

- Bi-directional transfer to resume cycle in case of an incident
- Protection of operators(emergency stop systems)
- Reduction of men power

Evolutive

- Possibility to connect to the CAPM
- Modular design.

PALLETIZING

PALLETIZING

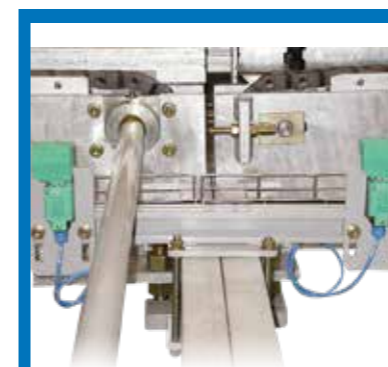
Siraga **+** extras

Scan this flash code
and find the video of the Hydraulis
Palletizer on our website

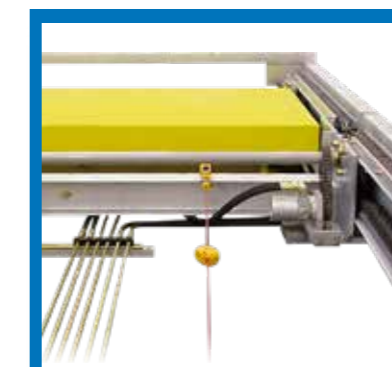
www.siraga.com



Hydraulic power unit



Inductive sensors



Emergency stop systems



Control station

Carousels and filling scales



8 posts carousel



48 posts carousel



24 posts carousel

LPG bottling carousel with mass flow meter or with load cells

- All sizes of cylinders (from small to high capacity)
- All types of materials (steel, composit, ...)
- All types of valves
- Available in 8, 12, 18, 24, 30, 36, 48 posts
- Capacity from 300 to 2,800 cylinders / hour
- Electronic scales



Flexible

It is possible to add filling scales to the carousel frame according to required production needs without any modification



THEMIS Electronic filling scales on carousel

- Type: BECT
- Filling head for top-entry valve
 - Cylinder shunting unit
 - Robust design : 300 kg capacity load cell, resistance to shocks up to 450 kg



THEMIS Electronic filling scales on carousel

- Type: BECP
- Filling clamp for side-entry valve
 - Cylinder centering unit
 - Robust design : 300 kg capacity load cell, resistance to shocks up to 450 kg



THEMIS Electronic filling scales on carousel

- Type: BECT
- Filling clamp for top-entry valve
 - Automatic height positioning of filling head
 - Robust design : 300 kg capacity load cell, resistance to shocks up to 450 kg



THEMIS Electronic filling scales on carousel

- Type: BECP + OFR
- Filling clamp for side-entry valve
 - Automatic valve opening and closing
 - Filling clamp for side valve
 - Robust design : 300 kg capacity load cell, resistance to shocks up to 450 kg



ULIS 2

is an intrinsically safe PLC especially designed for LPG filling equipment.

This intrinsically safe conception allows to read and modify data directly on the machine without using any explosion proof housing, barriers or fire permit.



MASSFLOW METER

All Siraga carousels can be equipped with a massflow meter system

to
go further!

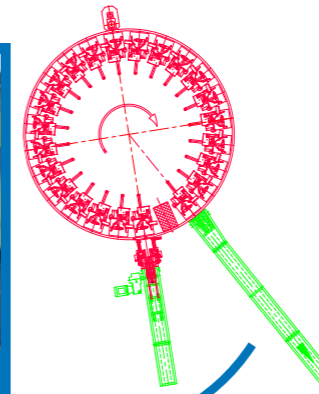
Carousels and filling scales



Tangential system
Type: AT
This device ensures automatic introduction of empty cylinders on the carousel filling scales. It is pneumatically driven and installed.



Pneumatic Radial in-line admission
Type: AP
This device ensures automatic introduction of empty cylinders on the carousel filling scales. It is pneumatically powered and installed at the end of the chain conveyor.



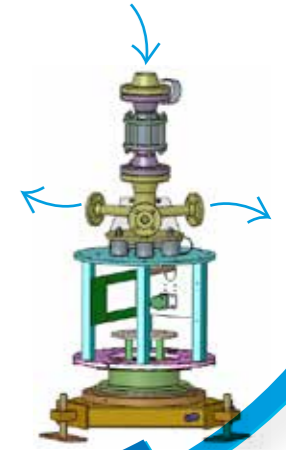
Pneumatic in-line admission with stop cylinder
Type: AP
This device ensures automatic introduction of empty cylinders on the carousel filling scales. It is pneumatically powered and installed at the end of the chain conveyor.



Siraga + extras

LPG supply from top :

- Many benefits :
- Limited civil works at the installation
 - No LPG piping at low point
 - Easy implementation
 - Easy maintenance



Siraga ensures filling of any type of cylinder

FILLING

FILLING

Number of posts	8	12	18	24	30	36	48
Diameter (mm)	3100	3450	4500	5500	6550	7600	9000

did you know?

Carousel Electrification

Siraga can convert any mechanical carousel into an electronic one within 3 days only.



Gas extractor
Ensures evacuation of gas that can accumulate in the lower part of the filling carousel



Driving group
Rotating driving group explosion proof gear reducer



LPG pressure regulation skid
Ensures LPG pressure regulation to one or more carousels or in-line filling skid. Regulation valve system or by pressure reliefvalve



Pumping skid
Supplies LPG from tank to filling scales, provided ready for connection

Stationary

or in line filling



Electronic stationary filling scales

Type: BESP

- For domestic cylinders, equipped with side-entry valves
- Accuracy : Display 50 g, internal division 5g
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg
- Simplicity : maintenance assistance thanks to UIIS 2

Electronic stationary filling scales

Type: BESP

- For cylinders from 11 to 35 kg, equipped with top-entry valves
- Accuracy : Display 50 g, internal division 5g
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg
- Simplicity : maintenance aid thanks to UIIS 2



Stationary filling scales

Type: BESM

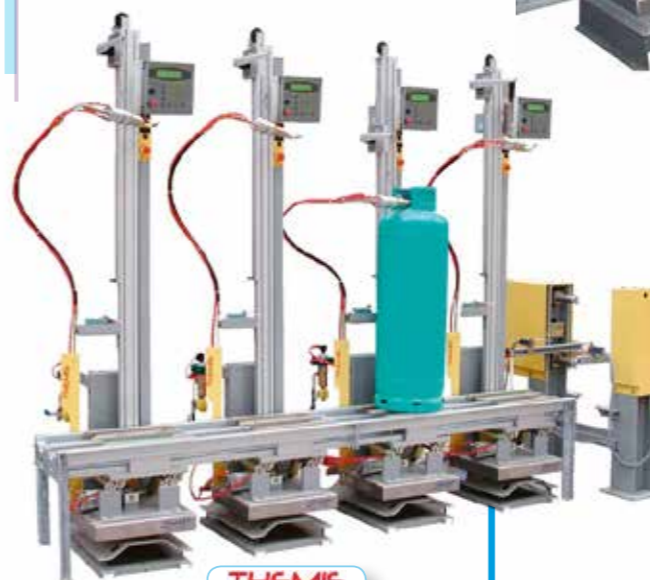
- For cylinders from 3 to 6 kg, equipped with camping gas valves
- For cylinders up to 15 kg
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg



In-line stationary filling scales

Type: BELE

- For cylinders from 3 to 6 kg, equipped with top-entry valves diam. 20
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg



In-line stationary filling scales

Type: BELE

- For cylinders from 17 to 35 kg, equipped with side-entry valves
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg



In-line stationary filling scales with roller conveyor

Type: BELE

- For cylinders from 6 to 13 kg, equipped with side-entry valves
- Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg

Konten'er®

FILLING UNIT IN CONTAINER

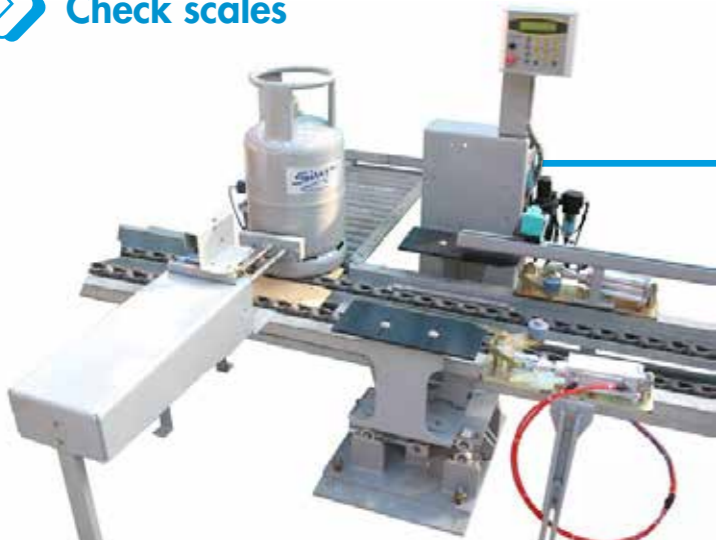
Konten'er is a fully equipped container with filling and control equipment adapted to production and type of cylinder, following customer requirements.



Scan this flash code and find all information concerning Konten'er

Weight Checking

Check scales

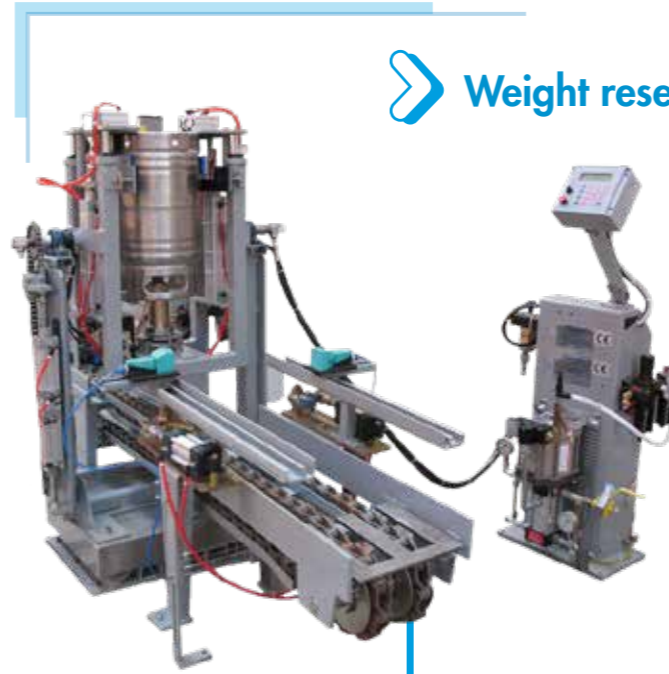


Electronic check scale
 Type: BCUA
 • Centering stop units
 • Cylinder shunting device for non compliances
 • Robustness : 300 kg capacity load cell, resistance to shocks up to 450 kg
 • Production capacity : Up to 1400 cylinders /hour

Electronic check scale
 Type: BCMA
 • Design for 35 kg cylinders



Automatic weight resetting scale
 Type: BRPA
 • Allows to correct the weight of non compliant cylinders after filling
 • In line
 • Fully automatic



THEMIS
Weight resetting scale
 Type: BRPE
 • Allows to correct the weight of non compliant cylinders after filling
 • Stationary

Weight resetting scale



Dynamic check scale
 Type: BCCA
 • Production capacity : Up to 1,900 cylinders / hour
 • Accuracy : 50 g



Electronic check scale
 Type: BCDA
 • Installed on chain conveyors
 • Production capacity : Up to 1,900 cylinders / hour

THE BENEFITS OF CAPM (COMPUTER-AIDED PRODUCTION MANAGEMENT)



- Remote control from a smartphone
- Anti-fraud system
- Real-time display / management of production
- Highly accurate control of the filling operation
- Constitution of a technical and commercial data base
- Immediate data storage

Valve leak and gasket detector



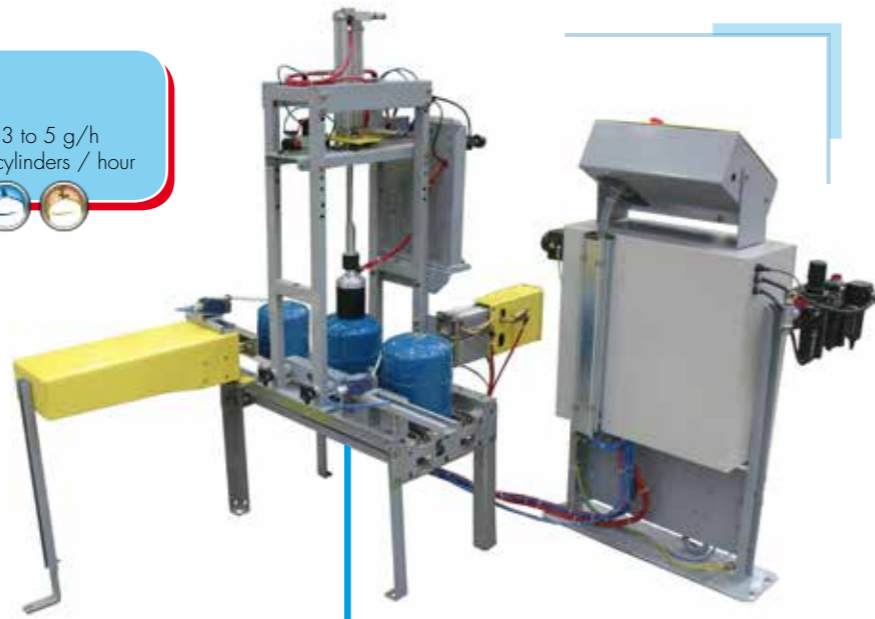
Valve leak and gasket detector
 Type: DFIA+DPJV
 • Detection : valve leak : 0.7 g / gasket leak : 1.5 g
 • Capacity up to 1800 cylinders / hour (2 heads version)

Automatic leak detector
 Type: DFIA Double
 • Detection : adjustable from 1.5 to 5 g/h
 • Capacity : up to 2200 cyl / hour (3 heads) with a minimum chain speed of 22 m / mn

Leak detection



Manual leak detector
 Type: DFEM
 • Accuracy : adjustable from 3 to 5 g/h
 • Capacity : maximum 500 cylinders / hour



Automatic leak detector 3 & 6 kg
 Type: DFIA
 • Adjustment of detection level
 • Combined with an intrinsically PLC management
 • Real-time display measured leak



In-line leak detection
 Type: CEL
 • Cylinders are driven by chain conveyor
 • Model presented is for 13 kg cylinders



In-line leak detection
 Type: CEL
 • For 3 to 6 kg cylinders



Tilting test bath
 Type: CEB
 • For water immersion with low production
 • Manual or pneumatic functioning

to
go further!

Electronic leak detector

DUAL : 2 in 1 solution

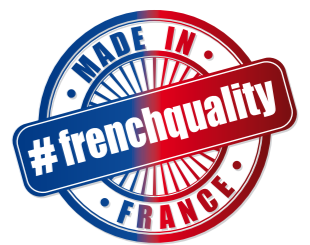


DUAL: integral valve control

Only one machine is now required where two were necessary in the past.† Dual checks are: leaks at the thread, valves and seal. Compact design ensures better safety and greater accuracy.

This machine was launched in 2004 and now its range has been extended from one to three heads, to suit production rates.

Siraga **++** extras



We manufacture all our machines to order, which means we can offer you equipments that are tailor-made to suit your needs.

Furthermore, the purpose of our machine design policy is to guarantee you maximum reliability and safety, without jeopardising the functionality and competitiveness of our machines.



Avantages:

- Check more than 2000 cyl/hr with 3 detection heads
- Higher safety level for end user
- Fully automatic equipment
- Compliance to regulations
- Compact design
- Proven technology

Since 2011 ...

Safety of
people and
machines

did you know?

All our automatic leak detectors are equipped with improved version of infrared analyser since 2012.



Control Authority

- Appointed by the operator to control compliancy with health and safety requirements according to applicable directive.
- Inspection of manufacturer.

did you know?

Through our organization and the implementation of procedures, we assure that the equipment manufactured is in compliance with the models tested and presented to obtain the "EC TYPE" certificate. We use ATEX certified electrical and electronic components.

To renew our ATEX certification on items designed by Siraga and our self-certification ability, we and our subcontractors are audited annually by a testing laboratory.



Operator : Customer

Ensures that all equipment installed on his site complies with EEC requirements.



Manufacturer : Siraga

Siraga is certified ISO 9001, V2008 since 2001 for all its business.



Testing laboratories

- Approval of electrical and electronic equipment.
- ATEX directives.
- Annual audit of Siraga.

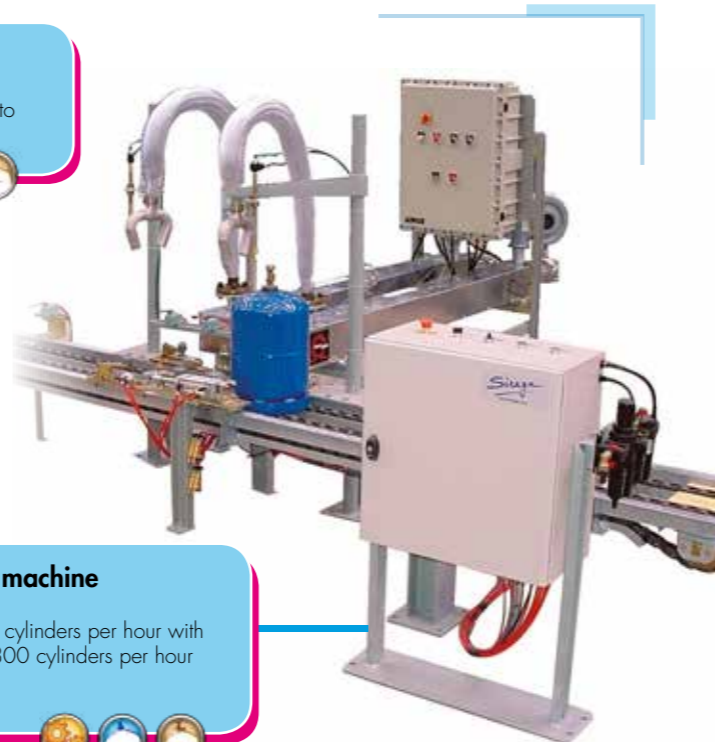
SAFETY AND CHECKING OF THE CYLINDER

SAFETY AND CHECKING OF THE CYLINDER

Capping and sleeving



Capping clamp
Type : CMH/CMR
 • Pneumatic or hydraulic according to the cap type



Sleeve shrinking machine
Type : MRMA
 • Capacity : 1200 cylinders per hour with one head and 1800 cylinders per hour with two heads
 • Fixed head

Sleeve shrinking

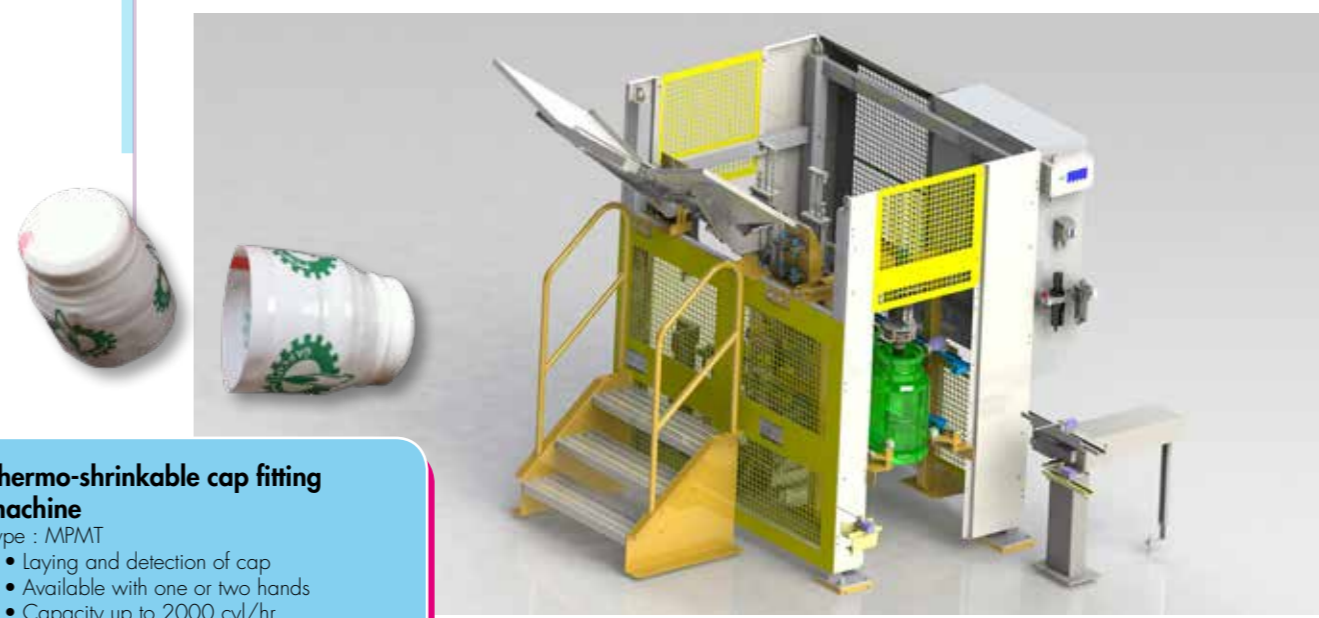


Sleeve shrinking machine Manual version
Type : MRMM
 • Functioning with hot air
 • Certified EEx IIB T2



Sleeve shrinking machine
Type: MRMA
 • Functioning with hot air
 • Capacity up to 1200 cylinders per hour in simple version or 1800 cylinders per hour two heads, depending on sleeve type and quality

NEW "themo-shrinkable cap fitting machine"



Thermo-shrinkable cap fitting machine
Type : MPMT
 • Laying and detection of cap
 • Available with one or two hands
 • Capacity up to 2000 cyl/hr

to
go further!

Streamer laying on LPG cylinders

Advantages :

- Intrinsically safe PLC management
- Roll change in a few minutes
- Automatic stopping in case of break of the roll
- Maintenance assistance thanks to inputs/outputs TEST mode and STEP BY STEP mode
- The machine is delivered with ATEX and EEC certificates



Siraga **+++** extras

Built for you...

SIRAGA team assists customers in defining their needs, from adequate sleeve creation till setting up of the best solution to meet their requirements (manual, semi-automatic or fully automatic).



Making your
gas cylinders
tamper-proof

SIRAGA has developed a device to make gas cylinders tamper-proof after filling. Once leak detection checks are processed, the machine lays a PVC sleeve that is shrunk with hot air and has a single-use strip for opening. This machine has been set up to ensure the double process - laying and shrinking - for a tamper-proof product. The machine offers a capacity of over 2000 cylinders / hour and can be installed on any type of filling line.

The cylinder becomes a vector of communication !

Streamer laying : A simple and efficient tool for cylinder brand differentiation

Communication

- Use cylinder as a new communication tool
- Increase your communication space
- Get a competitive advantage by proposing an attractive design streamer

Sales promotion

- Cylinder becomes a sales promotion tool

Safety

- Safety instructions and suggestions can be highlighted on cylinder body

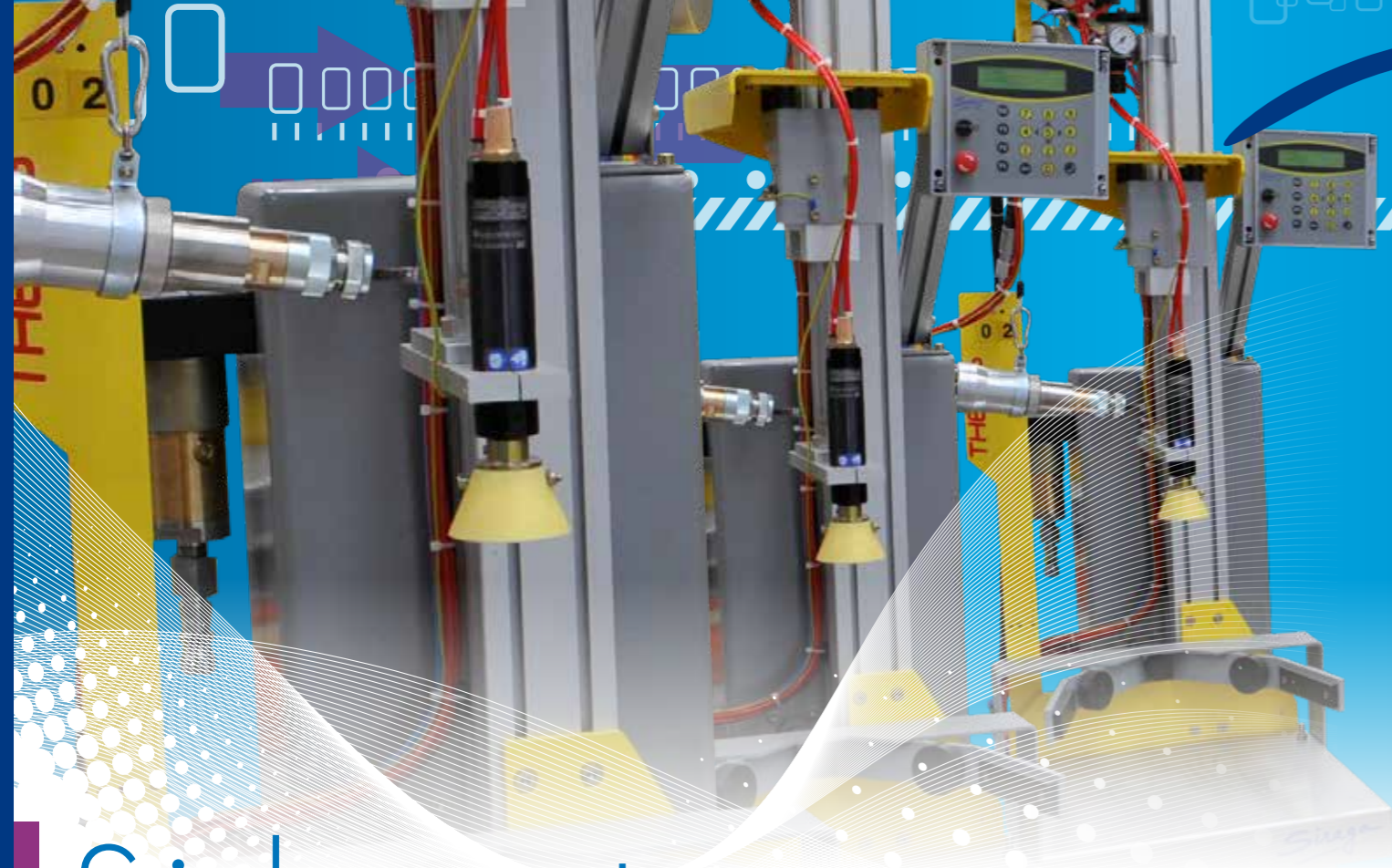


did
you know?

Siraga has developed streamer laying and removing solutions
Please feel free to contact us for further information

Side-entry

valves and protectors



Screwing and unscrewing of valve protectors

Type: MVC

- Torque control on screwing operation and unblocking security by unscrewing 1/4 back
- Automatic ejection for all cylinders with metallic protector blocked or impossible to screw / unscrew
- Capacity up to : 1200 cyl / h



Valve orienting machine

Type: MOR

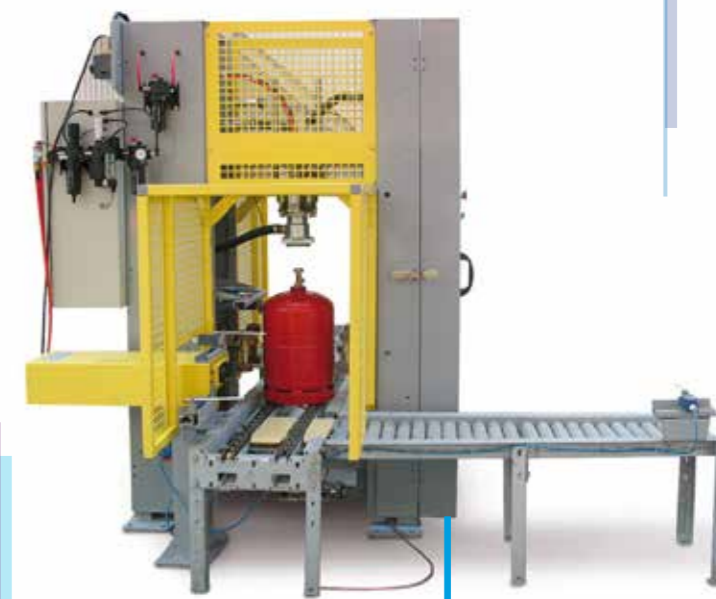
- Single orientation version or with valve opening before introduction on carousel
- Electronic version
- Capacity up to 1200 cylinders / hour



Valve opening and closing machine

Type: MOFR double

- Bell driven by pneumatic motor
- Capacity : 1200 cylinders / hour = 1 head
1800 cylinders / hour = 2 heads



Machine to check the flow limiter valve presence

Type: DLDM

- For side-entry valves
- Valve opening and closing integrated in the detection bell
- Capacity up to 1200 cylinders / hour

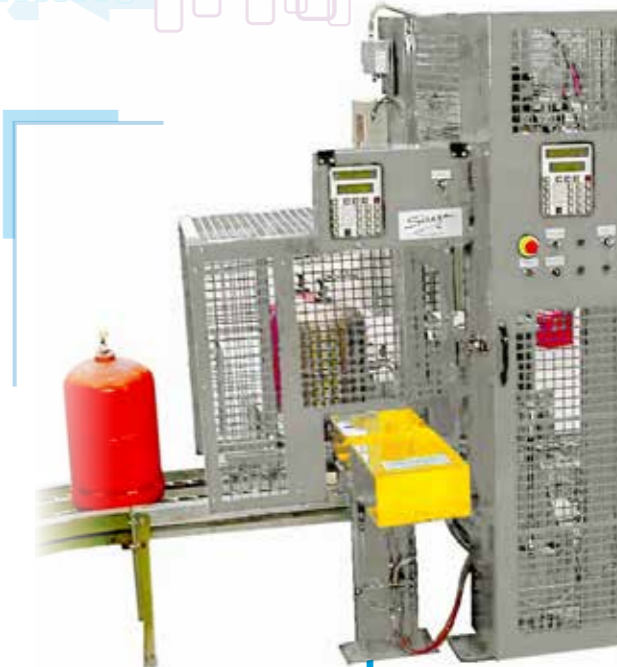


Electronic leak detector

Version with automatic valve opening and valve closing control

Type: DFIA+OR+MCFR

- Infrared gas detector
- Detection from 1.5 to 5 g / h
- Capacity : up to 1,200 cylinders per hour under certain circumstances



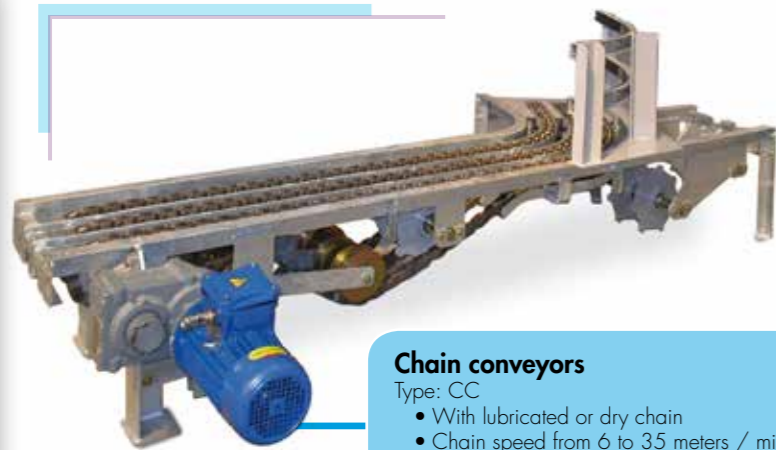
Machine to check the torque

Type: MCFR

- Checking of the torque and number of rotations required to open & close the valve
- Electronic version
- Capacity up to 1,200 cylinders per hour



Conveyors



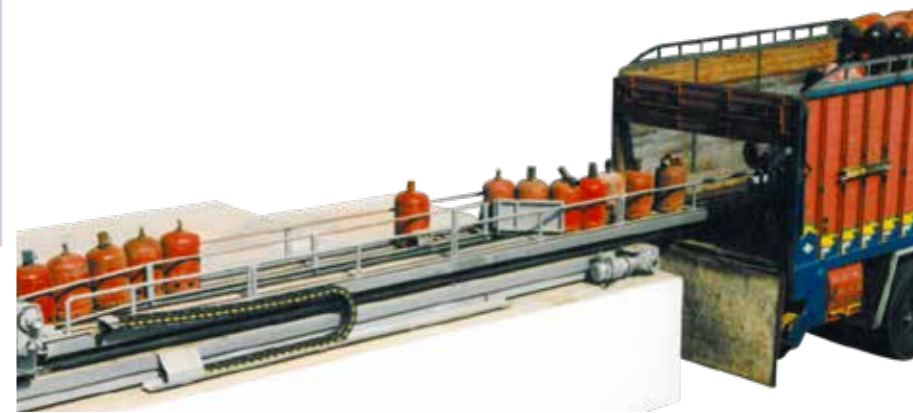
Chain conveyors
 Type: CC
 • With lubricated or dry chain
 • Chain speed from 6 to 35 meters / minute
 • Fully galvanized frame



Roller conveyor
 Type: CRL
 • Metallic frame
 • Galvanized rollers
 • Ball bearings



Electrical driving unit for chain conveyor system with direct shaft mounting



Telescopic chain conveyor
 Type: CT
 • Designed to load and unload un-palletized cylinders
 • Capacity up to 1,200 cylinders / h with a chain speed of 16 m / mn



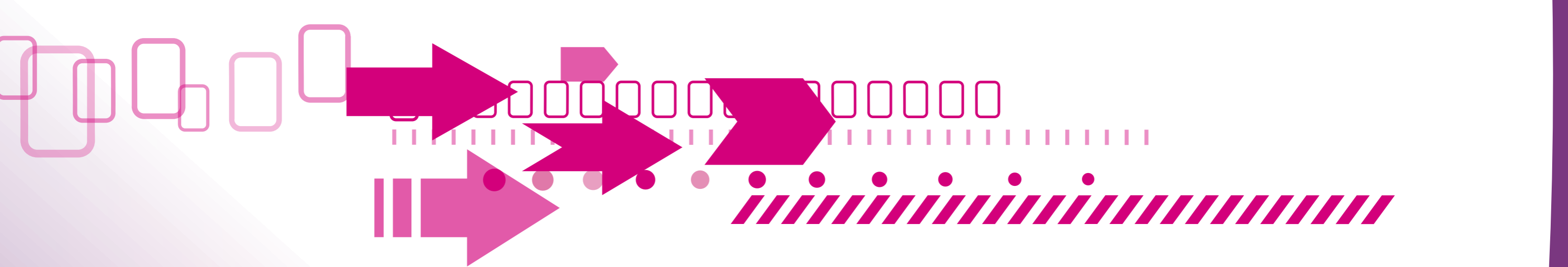
Telescopic conveyor (with rollers)
 Type: CTRL
 • Designed to load and unload un-palletized cylinders
 • Manual handling



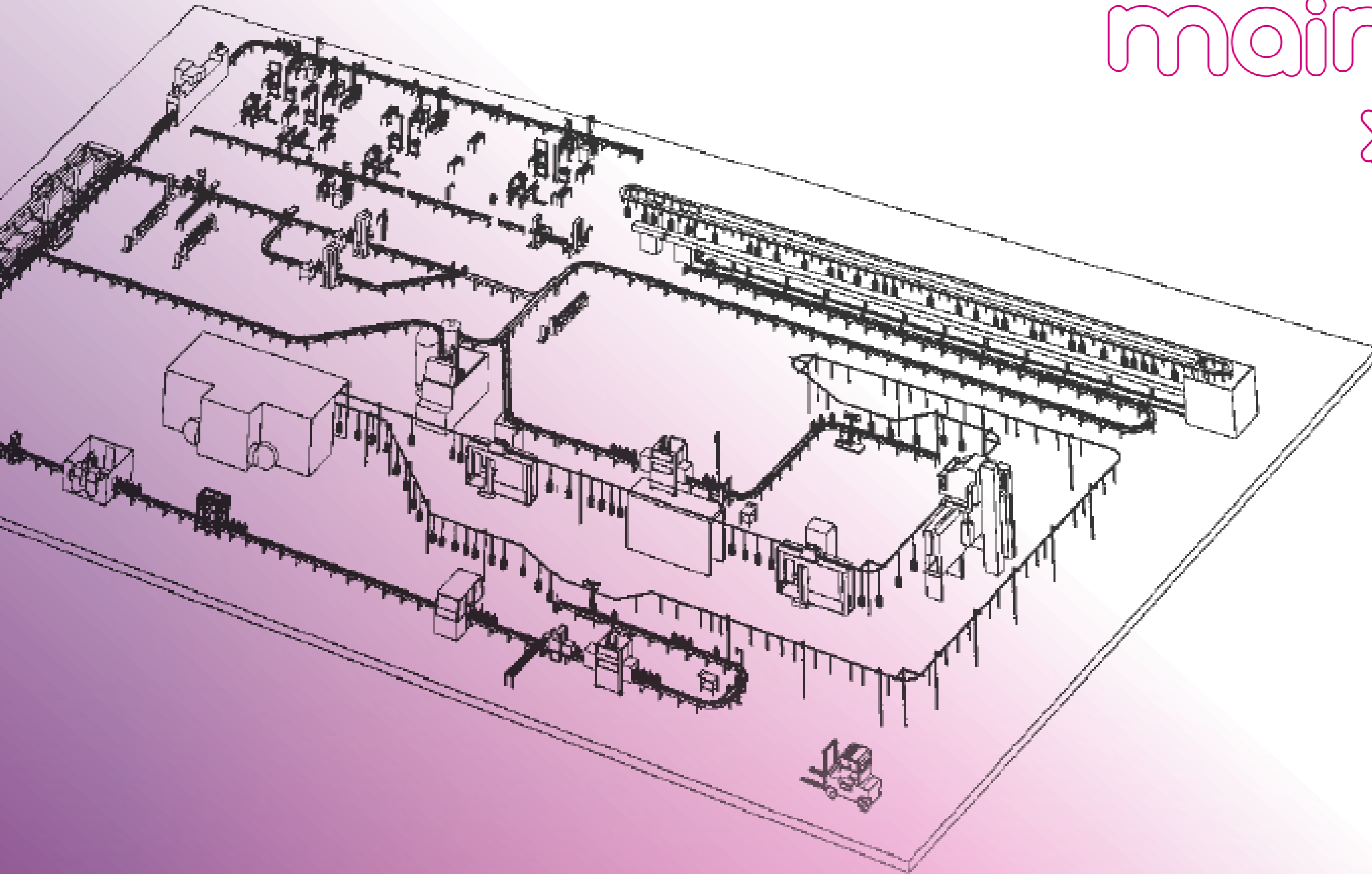
Over-head conveyor
 Type: CAR
 • Automatic hooking and unhooking



VERSATILE SOLUTION :
 Siraga conveyor can be built for any configuration



maintenance > AND REFURBISHMENT



- Maintenance
- Refurbishment

p.32
p.42



Automatic

Operator
needed

Top-entry
valve

Side-entry
valve



Emptying



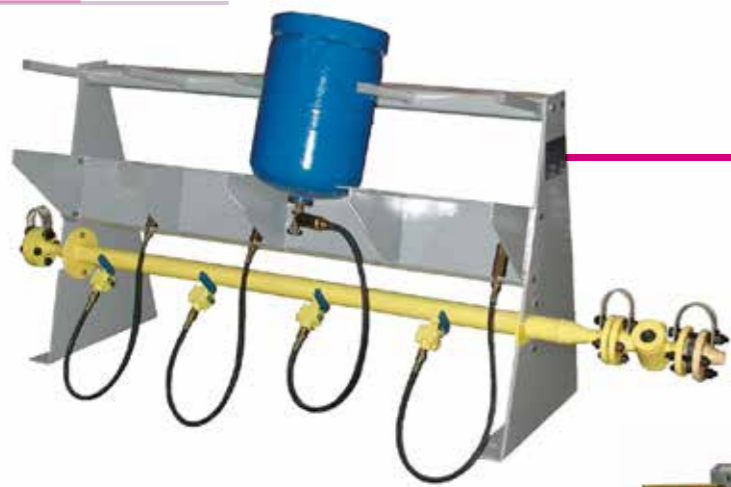
Large capacity cylinder emptying

- Type: BDVB
- System allowing the operator to tilt cylinders easily



Pneumatic draining pump

- Type PPV
- Designed to transfer LPG from one point to another



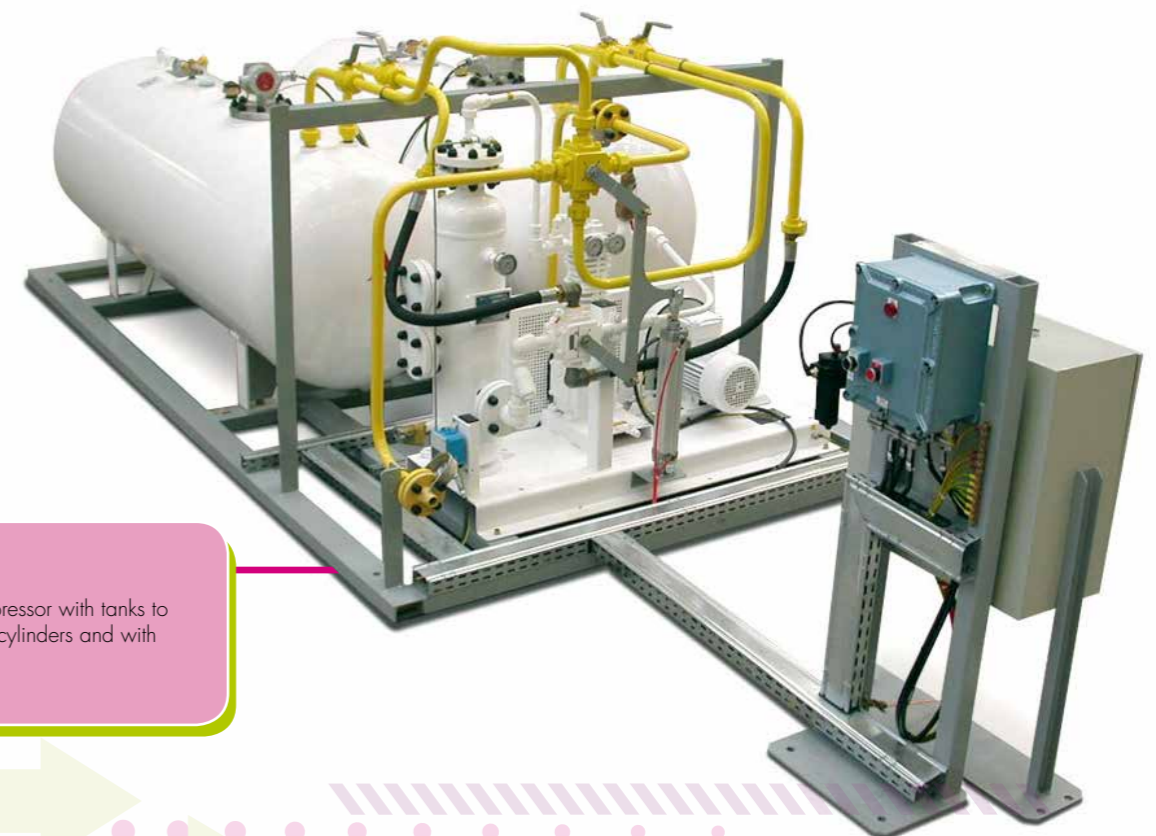
Cylinder emptying support

- Type: BDV
- All types of cylinders with all types of valves



Cylinder emptying support

- Type: BDV
- For small capacity cylinder
 - Cylinder with side-entry or top-entry valve
 - Connected to an emptying system



Emptying unit

- Type: UDV
- Functioning by LPG compressor with tanks to receive gas sucked from cylinders and with discharge to the storage
 - Fully automatic

Valve screwing

and unscrewing



Valve screwing and unscrewing post

- Type: PVDR
- For all kinds of cylinders
 - With manual or pneumatic screw
 - On conveyor or stationary



Hydraulic screwing and unscrewing machine

- Type: MVDR
- Torque adjustment according to the hydraulic pressure
 - Bi-manual command for the operator
 - 2 speeds : starting and finishing



Valve screwing / unscrewing machine with torque control & display

Type: MVDR

- Stationary machine
- Capacity from 100 to 120 cylinders / hour with or without collar ring
- Small and large capacity cylinders



Valve changing unit on filled cylinders

Type : MACR

- The preliminary cylinder draining is not necessary !
- Semi-automatic functioning
- Electronic version
- Capacity up to 60 cylinders per hour



Top-entry / side-entry valve screwing / unscrewing machine

Type: MVDR

- For large capacity cylinders
- Torque adjustment according to the hydraulic pressure
- Bi-manual command for the operator
- 2 speeds : starting and finishing



to **go further!**

Side-entry / top-entry valve

changing machine

This machine allows to change side-entry or top-entry valves on filled cylinders without evacuation. Designed for hazardous areas classified zone 1 according to IEC 79-10 and class 1, division 1 according to NEC art 500 (USA).



Sirafa **+** extras

Scan this flash code and watch the video of the operating machine



The advantages of the VCM :

- No move nor dangerous handling
- No VOC (Volatile Organic Compound) rejected in the atmosphere
- Semi-automatic functioning
- Time-saving
- Return on investment in less than 6 months
- Capacity up to 60 cylinders / hour

Change your valves in 4 steps:

Step 1

Automatic positioning of the cylinder on the frame after operator's authorization



Step 2

Descent of the head
Unscrewing
Spindle lifting



Step 3

Valve extraction and replacement



Step 4

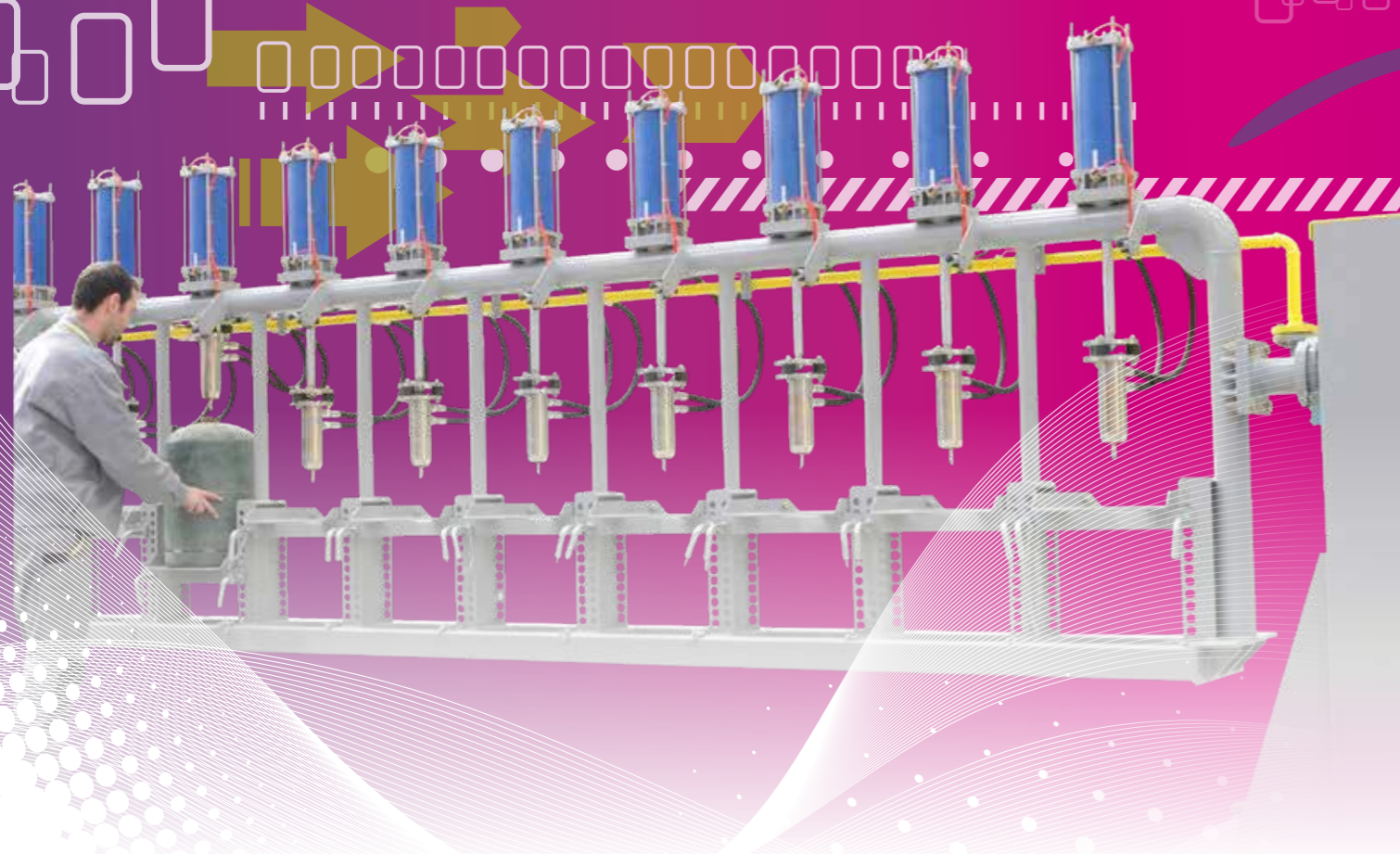
Descent of the spindle and screwing of the new valve at the preset torque



did you know?

Just 1 minute...

Valve on a leaky cylinder can now be replaced 40 times faster than traditional method.



Hydraulic testing ramp



Tilting testing rack
Type: REB

- 1, 2, 3, 6 or 10 testing posts
- All kinds of cylinders
- Manual or automatic rotation
- Possibility of automatic leak detection with electronic management

Tilting testing rack
Type: REB Mixte

- Version for different sizes of cylinders



Tilting testing rack
Type: REB

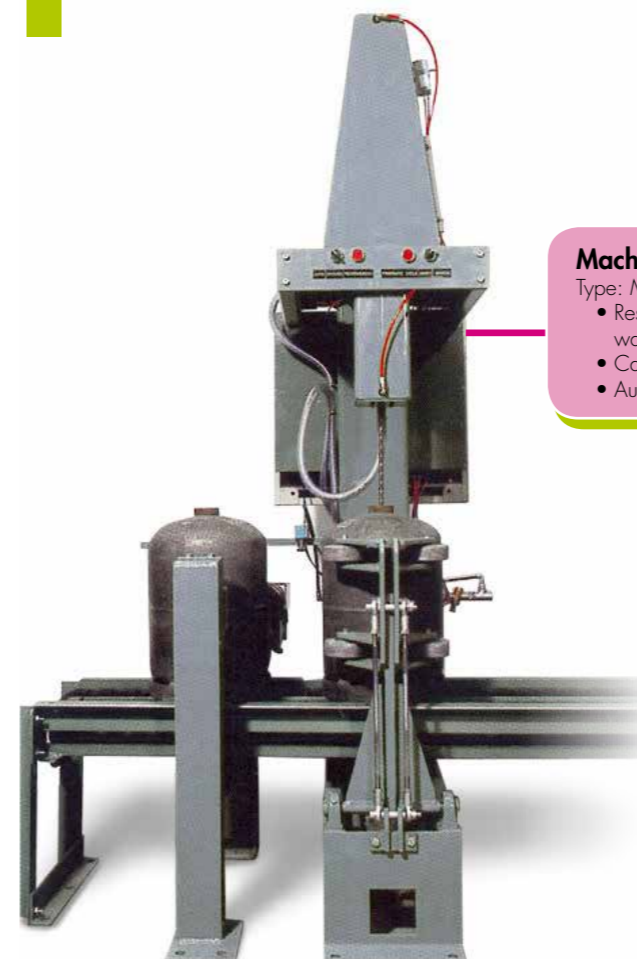
- Version for large capacity cylinders

Automatic testing rack
Type: REA

- For 26 litres cylinders
- In line functioning on chain conveyor
- Electronic management



Removing residues



Machine to remove residues
Type: MAR

- Residual water suction after inside washing or testing
- Capacity up to 300 cylinders / hour
- Automatic version

Removing residual unit
Type: PADR

- Residual water suction after inside washing or testing
- Capacity up to 300 cylinders / hour
- Manual version



MAINTENANCE

MAINTENANCE

Gassing

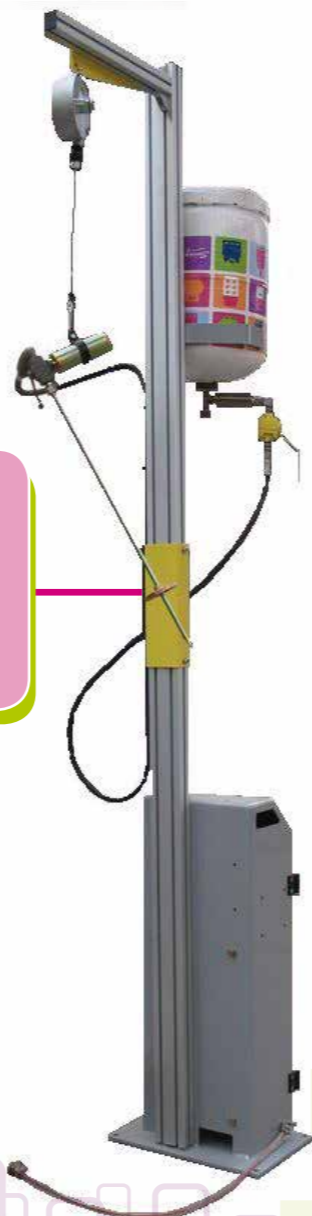


Gassing under vacuum unit

- Type: AGSV
- 1 up to 4 posts under a vacuum pump
 - Stationary or on chain conveyor

Gassing unit

- Type: AG
- Gassing thanks to a gassing cane
 - LPG supply is coming from one LPG cylinder fixed on the back of the equipment (with no excess flow valve) and upside down.



Taring



Cylinder tare stamping unit

- Type: PM
- Designed to stamp tare or total weight on cylinder



Electronic cylinder taring scale

- Type: BCSM
- Stationary
 - On chain or roller conveyor



Machine to mark valve protector

- Type: MMBA
- Production : from 350 to 400 cylinders / hour for a chain speed at 8 meters / minute
 - For domestic cylinders
 - Stamping assisted by pneumatic vibrator

Foot-ring and shroud straightening

Foot-ring and shroud straightening unit



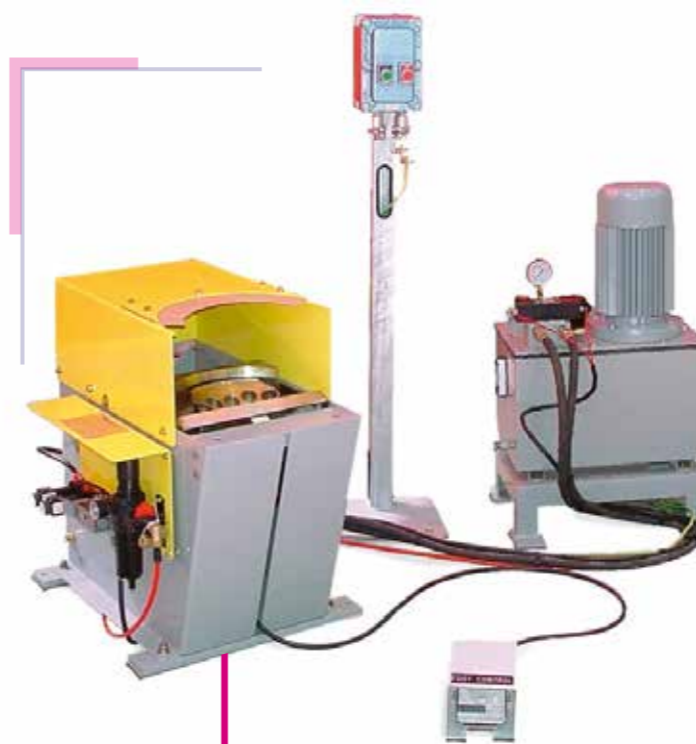
Foot-ring or shroud straightening unit

- Type: MRPB
- All types of cylinders
 - Vertical or horizontal machine
 - 2 work sides on horizontal cylinders,
 - 2 types of foot-ring or collars on the same machine



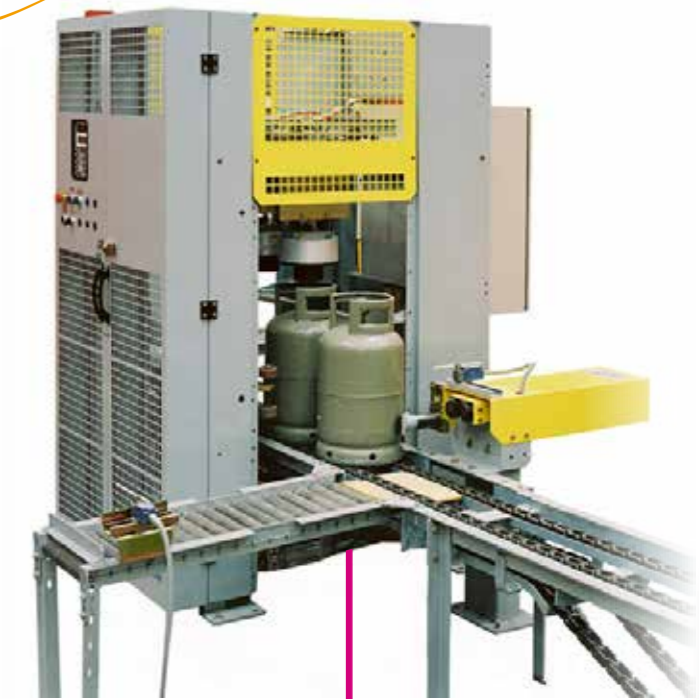
Foot-ring straightening machine

- Type: MRPB
- For large capacity cylinders



Foot-ring straightening machine

- Type: MRPB
- Vertical version



Automatic detection of damaged collar ring

- Type: MDPD
- Sorts out unacceptable cylinders due to damaged collar ring
 - Electronic version
 - Capacity up to 1200 cyl / h with 1 head, up to 1800 cyl / h with 2 heads

Foot-ring and collar replacement unit



Foot-ring or collar cutting post

- Type: PDP
- All types of cylinders
 - By plasma cutting or chiselling



Foot-ring straightening machine

- Type: PDM
- For large capacity cylinders



Welding post

- Type: BDS
- All types of cylinders
 - Manual, semi-automatic or automatic version

Cylinder handling

Dents removing



Dents removing post

- Type: PDD
- Hand-torch heating
 - Capacity from 5 to 15 cyl / h according to cylinder state

Normalization



Normalization furnace

- All types of cylinders
- Capacity from 50 to 600 cylinders / hour

Shot blasting



Shot blasting machine

- Type: GDB
- All types of cylinders
 - Horizontal or vertical on overhead conveyor

Metallization



Zinc spraying unit with water curtain

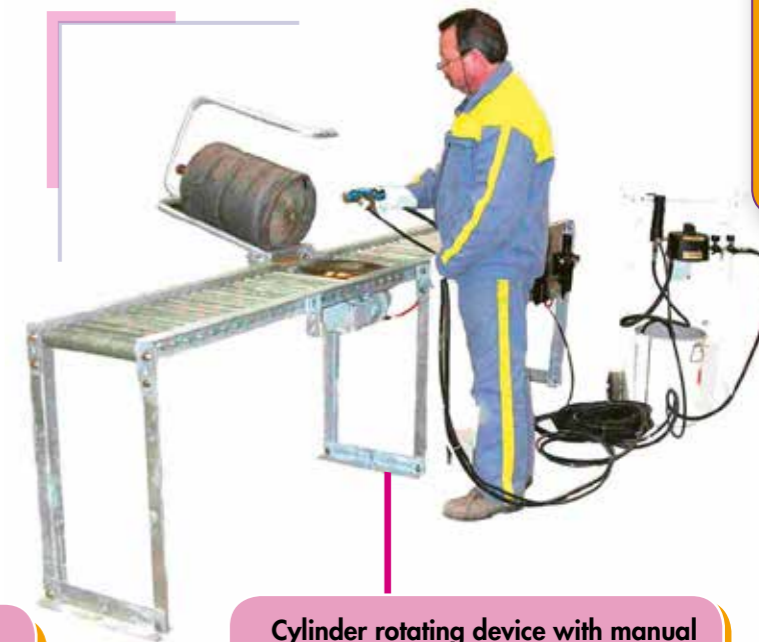
- Type: CPRE
- Manual or automatic

Painting



Painting booth for filling plants, refurbishing plants or manufacturing plants

- Painting system up to 1800 cylinders per hour
- Water curtain or dry painting booth, installation on chain or overhead conveyor
- Protection system for the valve
- Classical liquid or electrostatic paint
- Possibility to install an automatic painting booth on chain



Cylinder rotating device with manual

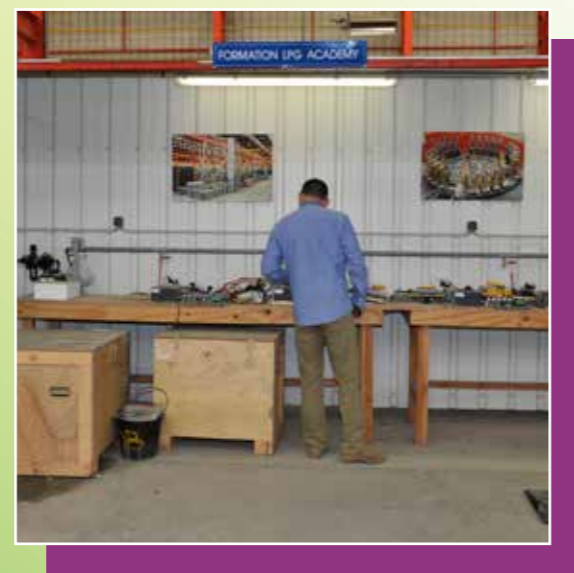
Type: EPCP

Polymerization unit

- Type: ETV
- All types of cylinders

services

- Installation & commissioning p.48
- Spare parts p.48
- After sales service p.48
- LPG Academy p.49





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Why choose the LPG Academy ?

» For the exchange of expertise and know-how

- Because during these courses, you will alternate theory and practical exercises and be in contact with various LPG experts,
- Because the diversity of participants and experiences will enable to exchange ideas over your problems and to enhance your network

» For the professionalism

- Because the LPG Academy is a training organism recognized and integrated into the ISO certification field, to continuously ensure and improve your satisfaction,
- Because the internal trainers know the machines perfectly, because they have often participated in their conception, because they are experts in their field or also because the outside partners have been carefully selected since the creation of the LPG Academy. It represents the insurance of a training of quality.

» For the services

- Because we fully organize your stay, from your arrival to the remittance of your diploma at the end of the course,
- Because after the work, it is time for relaxation. You will enjoy the French art of living to its fullest in a friendly and convivial atmosphere.

LPG Academy contact :

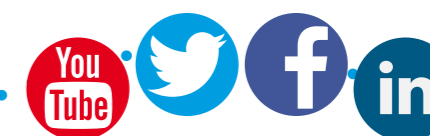
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