



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



SYNERGY COMPOSITE CYLINDER



Welcome
to the FUTURE

Say goodbye to
old steel cylinders

SYNERGY COMPOSITE CYLINDER is unique in the gas distribution business. Not only do we sell equipment's, but we also sell innovation and high

Since gas distribution commenced, with liquefied air gases, there have been very few significant changes in the way in which the product is presented to clients. The cylinder entails a revolution in the sector and the democratisation of high technology.

This is because the investment cost now makes mass distribution possible to end clients purchasing carbon fibre cylinders, regardless of their sector, industrial, food, pharmaceutical or marine.



SYNERGY COMPOSITE CYLINDER

Description

This lightweight smart cylinder is available in three standard sizes, with 13.3, 20 and 50 litre capacities. It is wholly designed and manufactured in Spain and provides an innovative and absolutely revolutionary solution for the high pressure gas cylinders market.

Its special patented design lets it be packaged in a completely secure manner on standard pallets. This eliminates the need to use steel cages, which considerably simplifies transport and, indeed, represents a revolution in current distribution models. It includes an RFID chip that lets purchase orders be generated totally automatically, as well as real-time traceability controls and access to all information on the cylinder at any time, from the start of the manufacturing process through its final application.

The next generation lightweight materials employed to produce it, such as high-performance carbon fibre and thermoplastic polymers with UV protection, ensure that its weight barely exceeds one-third the weight of conventional steel cylinders, although our cylinder maintains its great mechanical and chemical resistance. It also has an aluminium alloy liner subjected to our exclusive in-house thermal treatment, which gives it high elasticity and resistance to fatigue cycles, despite its thinness, which gives the cylinder a 30 year lifecycle, as well as full aptitude for food, medicinal and pharmaceutical uses.

Regulations

The cylinders produced comply with the most demanding quality and security standards. They also hold product certification from AENOR under European Standard EN12245, Directive 2035/10/EU (TPED) and International Standard ISO 11119-2.

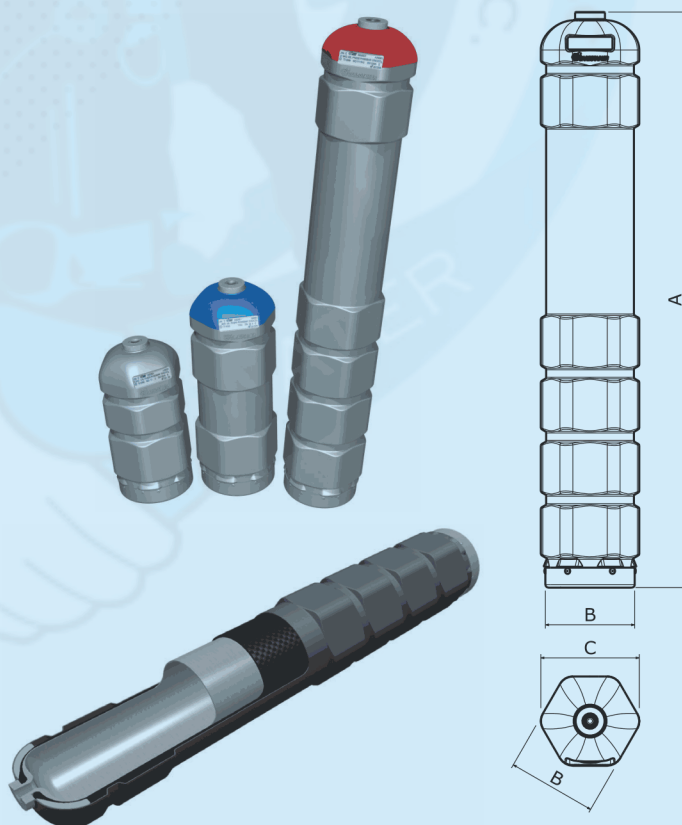
Applications

This innovative cylinder was designed especially for containing the most common industrial gases, both in mix and in their pure state:

- Oxygen (O₂)
- Nitrogen (N₂)
- Hydrogen (H₂)
- Argon (Ar)
- Helium (He)
- Carbon dioxide (CO₂)
- Compressed Carbon monoxide (CO)
- Hydrogen Sulphide (H₂S)
- Nitrogen Oxide (N₂O)
- Sulphure dioxide (SO₂)
- Breathing Air (BA)

Technical Specification:

Part number		14001000	14001100	14001200
Water capacity	Litres	50	20	13.3
Service pressure	Bar	200	200	200
Test pressure	Bar	300	300	300
Empty weight	Kg	22.9 ± 1	11.9 ± 1	9.1 ± 1
Dimensions (mm)	A	1545 ± 10	695 ± 10	513 ± 10
	B	240 ± 2	240 ± 2	240 ± 2
	C	265 ± 2	265 ± 2	265 ± 2
Design life		30 YEARS	30 YEARS	30 YEARS
Connection		25E	25E	25E
Certification		EN 12245 ISO 11119-2	EN 12245 ISO 11119-2	EN 12245 ISO 11119-2
Food suitability		✓	✓	✓
Medical suitability		✓	✓	✓
Vacuum suitability		✓	✓	✓

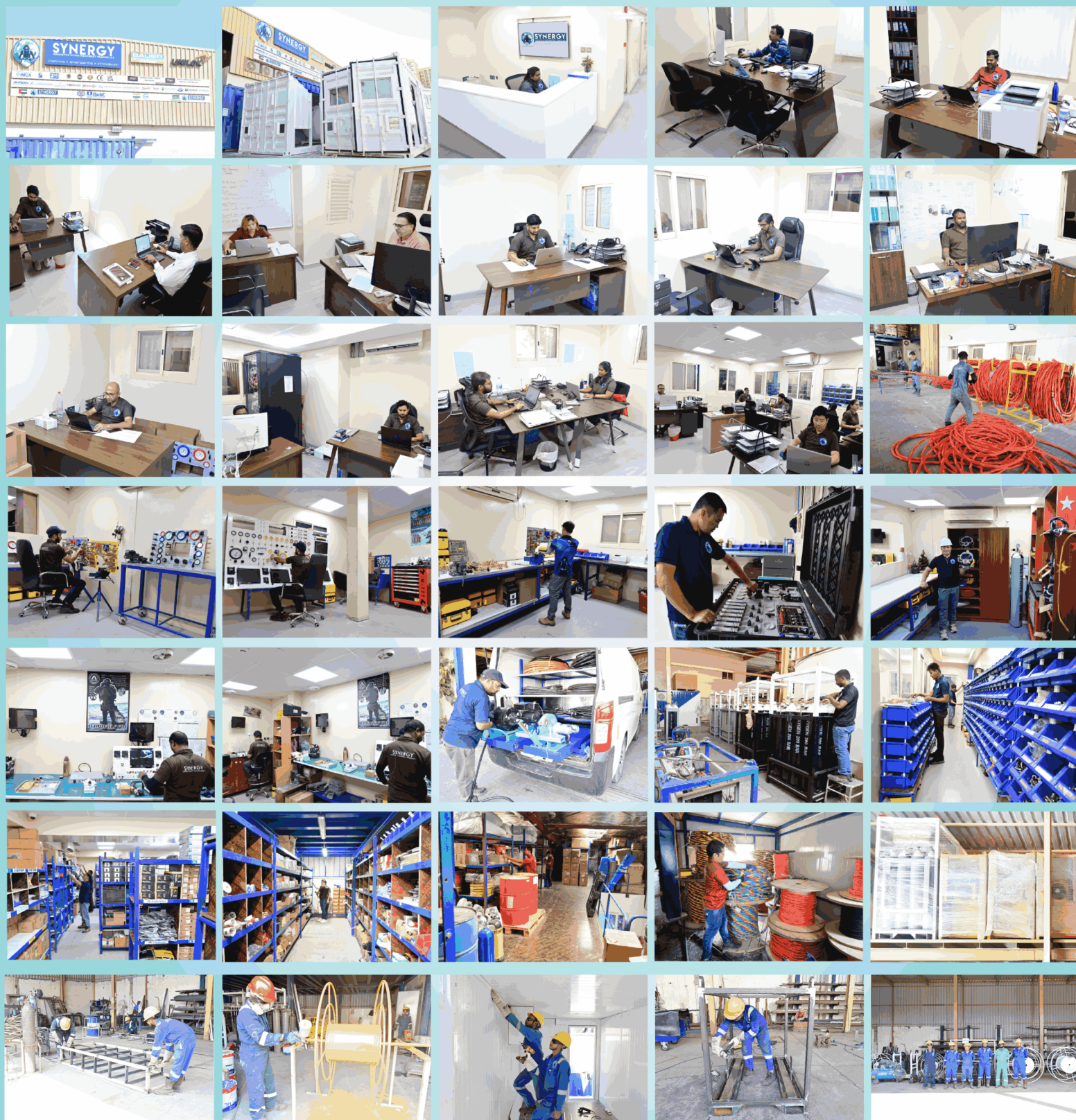


SYNERGY COMPOSITE CYLINDER

SYNERGY



SYNERGY INFRASTRUCTURE





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