



Hydrogen Expo

Faber Industrie

Faber[®]
CYLINDERS

9th June 2022 - Piacenza

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FABER CYLINDER AT A GLANCE

Faber has two production sites with all the manufacturing technologies to provide metal and composite cylinders with a complete range of Type 1-2-3-4 cylinders

QUALITY AND IT SYSTEMS

1. ISO 9001: 2015 - Quality management systems since 1994
2. ISO 14001: 2015 - Environmental Management Systems since 2002
3. ISO 45001:2018 - Occupational Health and Safety Management Systems since 2015
4. IATF 16949:2016 - Quality management system requirements for automotive since 2009
5. IT: SAP since 1999
6. IT: MES (Manufacturing Execution System) since 2021

CIVIDALE DEL FRIULI (UD)



- Sqm: 210.000 (of which 73.000 covered)
- Steel liner production lines:
 - Steel plate: 4
 - Steel tube: 1
- Type 2-3 production line: 1
- Type 4 production line: 1

- Faber is the only producer that uses all three steel cylinder production technologies: tube, billet and plate metal
- Faber already produces Type 4 cylinders. Plastic liner designed by Faber is production currently outsourced; insourcing in Cividale plant planned for 2023

CASTELFRANCO VENETO (TV)



- Sqm: 67.000 (of which 31.000 covered)
- Steel liner production lines:
 - Steel billet: 3

- Faber is also outsourcing Aluminium liners for Type 3 Cylinders


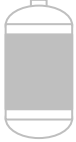






PRODUCT OFFERING

FOCUS ON HYDROGEN

Faber produces a very comprehensive range of all Types of Cylinders, each one standing out for superior lightness, reliability and safety. Product offering includes also complete systems for different applications. Hydrogen society requires all Types of cylinders

Volume: up to 800 lt
Pressure: up to 1100 bar
Diameter: 83 – 660 mm
Length : up to 4 mt

CYLINDERS

Type 1	Type 2	Type 3	Type 4
			
Steel liner only	Steel liner hoop wrapped with carbon/glass fiber	Steel liner fully wrapped with carbon/glass fiber	Plastic liner fully wrapped with carbon fiber
			

SYSTEMS

Bundles	Vehicle Racks
	
H2 Buffer	Virtual pipeline/Trailers
	



Hydrogen

HYDROGEN STORAGE SYSTEM

Faber is a leading supplier of Compressed Hydrogen Storage Solutions in Europe.

Key features of all Faber products are:

- Modularity
- Flexibility in the configuration
- Reduced footprint

All buffer are supplied with PED certification and “ready to use”

“Low” pressure Buffer

- Service Pressure: **200bar**
- H2 capacity per unit: 51kg
- Horizontal layout



Example unit:

“Medium” pressure Buffer

- Service Pressure: **550bar**
- H2 capacity per unit: from 10kg up to 87kg
- Vertical and Horizontal layout possible



Example unit:

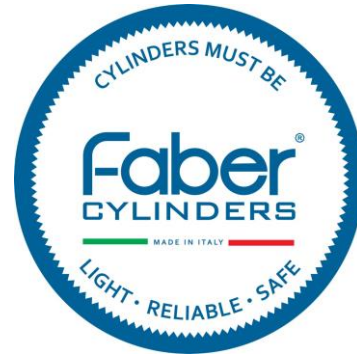
“High” pressure Buffer

- Service Pressure: **1000/1100bar**
- H2 capacity per unit: from 5kg up to 137kg
- Vertical and Horizontal layout possible



Example unit:

We thank you for
your kind attention



www.faber-Italy.com