



CTS Energy srl

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H₂cylinder



CTS Energy feels certain about hydrogen, about its uses on a large scale and about what this energy carrier can represent in the future in matter of saving and energy benefit conform to worldwide agreements legislation and financial means.



CTS Energy cylinders, **H₂cylinder**, are conceived to be energy reserves, stored in form of pressured hydrogen. A wide range of available cylinders, according to their volume, thus making the product apt for very different applications.

Among the most important uses, **H₂cylinder** can be employed as electric reserve for generators and Range Extender.

Tank main advantage is lightness, indeed they are the lightest gas

containers on the market at present thanks to their innovative carbon-fiber technology developed by CTS Group. It is possible to adapt **H₂cylinder** to the different kinds of available connections on the market through apt standards.

CHARACTERISTICS

- High pressure hydrogen reserve and transport
- Different sizes
- Handy, light and all-purpose
- High pressure
- High energy density
- Universality

MAIN APPLICATIONS

- Electric and naval mobility
- Military uses and aerospace stations
- Range extender
- Electric stockpiles
- Generator



| CODE | DESCRIPTION | VOLUME (Nl) | MAX PRESSURE (Bar) | DIAMETER (mm) | LENGTH (mm) | WEIGHT (kg) | THREAD | TOTAL STORED ENERGY (kWh) | SPECIFIC ENERGY PER UNIT WEIGHT (Wh/kg) |
|---------|---|-------------|--------------------|---------------|-------------|-------------|---------------|---------------------------|---|
| H2CY2.0 | Composite high pressure cylinder for H ₂ | 2,0 | 300 | 105 | 366 | 1,4 | 17E / M18x1,5 | 1,9 | 1388,9 |
| H2CY3.0 | Composite high pressure cylinder for H ₂ | 3,0 | 300 | 115 | 425 | 1,8 | 17E / M18x1,5 | 2,8 | 1543,2 |
| H2CY6.0 | Composite high pressure cylinder for H ₂ | 6,0 | 300 | 158 | 465 | 3,3 | 17E / M18x1,5 | 5,6 | 1683,5 |
| H2CY6.8 | Composite high pressure cylinder for H ₂ | 6,8 | 300 | 158 | 510 | 3,4 | 17E / M18x1,5 | 6,4 | 1879,1 |
| H2CY7.2 | Composite high pressure cylinder for H ₂ | 7,2 | 300 | 158 | 530 | 3,6 | 17E / M18x1,5 | 6,7 | 1851,9 |
| H2CY9.0 | Composite high pressure cylinder for H ₂ | 9,0 | 300 | 180 | 538 | 4,5 | 17E / M18x1,5 | 8,3 | 1851,9 |