



Faber's Type 1 cylinders from plate for CNG achieve 0.75kg/l

Cividale del Friuli, 29/04/2019

Faber has achieved an ultralight Type 1 steel cylinders for CNG by mastering both the design and manufacturing processes.

Of the several million seamless steel cylinders manufactured throughout the world each year, only a handful are produced via the most efficient route, viz. the "Plate Route". And the vast majority of such plate manufactured cylinders originate at Faber.

Here we are our own masters: right from the onset, we order the ideal dimensions of steel coil for the order in hand. Then, after a meticulous set of processing passes, through carefully designed set of dies, we produce the cylinder's shell. This cold processing route, which maintains a very tight positive tolerance over the wall thickness requirements, governed by the appropriate design, exceeds all other manufacturing routes (available at Faber) such as those cylinders from a billet and the grossly overweight cylinders made from a tube. For the latter, a poor weight efficiency, usually well above 1kg/l, often results.

In comparison, a typical Type 1 CNG cylinder from Faber, boasts a weight efficiency as low as 0.84 kg/l at 200bar working pressure, which can be further enhanced to 0.75kg/l by using our advanced high strength steel grade.

Weight is becoming more and more important for on-board CNG applications as the Vehicle Manufacturers (OEMs) strive to reduce the overall weight of the vehicle. Concurrently, OEMs are pursuing a trade-off between weight and robustness of the tank, particularly when the cylinder is mounted on the underside of the body. This makes Faber's Type 1 cylinder currently one of the world's most appreciated and adopted products in the CNG vehicles' market.

Established in 1969 and operating since 1972, Faber has grown rapidly to become the world's leader in the production of cylinders (Types 1, 2, 3 & 4) and systems for the storage of High-Pressure Gases for the Clean Energy (CNG and H₂), Industrial and Air Breathing sectors. The world over, with a production capacity of a million cylinders, Faber has earned the best reputation for its high standards of quality and for its capability to comply with the most stringent specifications set down by International Bodies, Local Authorities and its customers.

