FACILI MISURE
CyberGage 360 is dedicated to the execution of a scan- sione tridimensionale a 360° of parts complexes with a precision of 7 micron and to the creation simultaneously of a report of inspection擀n the arc of 3-5 minutes. During the process, the system, developed by Laser Design, a subsidiary of CyberOptics, captures all data into a single coordinate system. This ensures the most accu- rate, repeatable 3D scan- ning for plastic injection molding, die-cast, CNC machi- ned parts, stampings. The operator simply has to position the part on a glass plate.

EASY MEASURES
CyberGage 360 is targeted to perform a highly precise 360 degree 3D scan of com- plex parts, accurate to seven microns, while automatic- ally generating a inspection report in three to five minutes. During the pro- cess, the system developed by Laser Design, a subsidiary of CyberOptics, collects 10 to 20 million XYZ coordinates. It uses proprietary Multi- Reflection Suppression (MRS) technology, which accom- modates for surface reflectivity/color and various noise- generating problems typically associated with 3D non-contact scanning inspection technologies. The system also features a fixture- less design: there’s no need to mechanically affix the part or for the user to turn it over during scanning to capture both top and bottom geometry because the system itself rotates the part to scan from various orienta- tions, collecting all data into a single coordinate system. This ensures the most accu- rate, repeatable 3D scan- ning for plastic injection molding, die-cast, CNC machi- ned parts, stampings. The operator simply has to place the part on a glass plate.

SERRATI PER IDROGENO
The two-part tank design features a proven, blow molded liner made of Akulon Fuel Lock, a polyamide 6-based engine- ering plastic with a very high barrier to hydrocarbons. The tank can then potentially be further reinforced by wrapping it in unidirectional (UD) continuous fiber-reinforced thermoplastic tapes made of EcoPaXX polyamide 410. The result would be the lightest-weight plastic tank available for hydrogen stor- age applications, transla- ting into a reduction in CO2 emissions. Akulon Fuel Lock greatly reduces weight compared to metal. It also offers improved permeation versus polyolefin liners, mea- ning that the gas stays in the tank. The liner material, which is 100% recyclable, is safe with no debuckling. Furthermore, the material remains ductile and tough, even at very low tempera- tures (-40°C). This was impor- tant for CNG, but is even more vital for hydrogen stor- age, as the working pres- sures are much higher.