

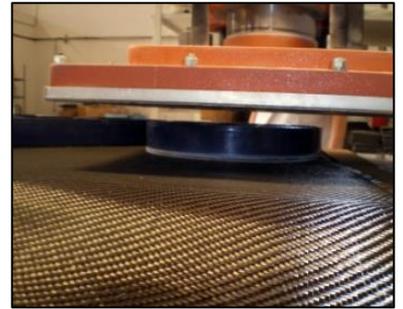
Where we produce

CAST helmets are produced entirely in ITALY by companies of **BELL SAFETY** group, leader in the production of military and professional helmets. The plants are located in Busto Arsizio (VA).

Helmets shell commonly called " Fiber Shells" are produced by impregnating a fiber that acts as a load-bearing structure with hardening resin "binder" and determines the strength and characteristics of the helmet . The type of fiber used makes a difference to obtain helmets more performing and lighter. In fact the most economic and less efficient fibers are the most heavy.

An inexpensive and low-performance fiber helmet can be verified from the "high" weight .

For the construction of the shell, the first phase is to cut the various sectors of Composite fabric, by checking the fibers direction. Then the operator inserts the various sectors into the heated mold, according to an established pattern verified by tests .



This operation must be carried out with high precision and care, as it determines the quality of the final helmet .

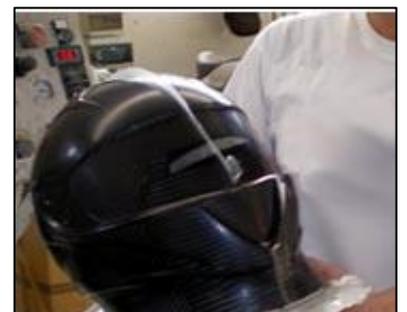
The operator injects into the heated mold at an exact temperature a precise dose of premixed liquid epoxy resin , inserts the counter-mold which makes the precisely proportioned resin adhere on the whole surface of the mold or of the shell, the controlled temperature and the catalyst make the resin harden uniformly.



The molding cycle to obtain a quality product is about 2 or more minutes for a row shell, after

which the shell must undergo all other processing.

Molding despite being mechanized is subject to the experience of the operator and the quality of the helmet obtained often depends on the skill and experience of the person who produces and controls it.



Cast



The window and the holes of the row shell are milled. The last production phase of the shell is that of grinding and then the painting with paints that have a low coefficient of linear thermal expansion in order to avoid cracking over time.

The Visor is essential for the safety of your helmet, for this reason also this component is produced and completely treated in our factory, which for decades has been a leader in the manufacture of these components.

Lexan molding takes place with robotic machines, the cycle includes a control with polarized lenses to verify their compliance.

After molding, the visors are treated in a white non-abrasion clean room and permanently anti-fog internally.

These treatments provide a high abrasion resistance and a perfect antifogging power that does not diminish with time and makes unnecessary the use of internal visors that diminish the optics quality and often make the visor not approvable.



We care about **your health** , as well as your safety.

This is why, to produce the interior of your helmet we use a fabric made in Italy and certified to be free of aromatic amines and substances harmful to your health.



In fact it is now established that the tissues inside the helmet, in the presence of harmful substances can give allergies, eczema and transmit highly toxic and carcinogenic materials into the body.

For this reason, all the fabrics of our helmets, produced in Italy, are tested and STANDARD 100 by OEKO-TEX® CERTIFICATES free of these substances.

Routine Tests such as Homologations made in Italy control the compliance with the requirements of the Regulations and the compliance with the increased requirements that we set ourselves as an objective for your helmet

