

## COOLANT TANK

### What is it?

The **coolant tank** is a plastic container that collects the cooling liquid which overflows from the radiator when the engine is hot and its inner pressure is high. When the engine gets cold and the pressure is low, the coolant returns back to the circuit.

It is also called expansion tank because it holds a liquid which expands when the engine is hot.

It is always set on the upper side of the engine and connected to the radiator through a flexible hose.

The tank must be filled up to a fixed level and the return pipe is located under the coolant level to avoid air getting back into the circuit.

The coolant function is to increase the boiling point and lower the freezing one. Furthermore, it prevents engine corrosion and lubricates all moving parts, like the water pump and the thermostat.

### What its function is?

The most important task of the expansion tank is regulation: it absorbs the exceeding liquid which overflows during its expansion and regulates the cooling system pressure through the cap.

The cap tightly seals the tank to let the liquid getting above the atmospheric pressure, increasing the boiling point. In addition, it allows mitigating the maximum pressure, thanks to a small breather pipe.

A specific BAR value is determined by the car constructor and specified on each cap. The cap valve opens when the system pressure exceeds the safety value.

The tank also allows coolant refilling operations, the check-up of the coolant level (min/max) and its conditions.

It feeds the cooling system with the coolant.

From above, through a small return pipe, it allows the liquid flowing back to the tank.

It always displays the two limit values min & max for the optimal coolant level.



## Our Range

Original Birth offers one of the widest ranges of coolant tanks in the market, with more than 250 references and 50 caps, covering almost the whole European car park.



ACTIVE CODES	APPLICATIONS	VEHICLES
264	10.630	948



### TIPS!

- Use coolant suggested by the car manufacturer only! The use of inappropriate coolant can damage the gaskets and the flexible hoses, reducing the efficiency of the coolant tank.
- It is always recommended to replace the tank in a repair shop, in so much as it is also necessary to drain and recharge the coolant. To avoid air bubbles in the circuit, scalings, rust and oily sludges, it is convenient to turn to professionals.
- A missing replace of the coolant and cleaning of the circuit, may cause the stuck of the cap's valve, causing an excessive pressure which might brake the tank.
- Pay attention to the coolant colour, that is an important alarm of leakings in the cooling system.

### Our Products:

- Original Birth coolant tanks are made with first choice quality raw materials PA-... according to the car manufacturer standards.
- Ultrasonic, vibration and hot plate welding systems.
- Original Birth fits brass sleeves to enforce small pipes and prevent their damage and to protect the linking parts from rust and corrosion.
- Most of coolant tanks are marked "Made in Italy", it means that the origin of materials and components used is 100% italian.
- A leaflet with recommendations is included in each box.
- Each single tank is packed in a protective box.



ACTIVE CODES	APPLICATIONS	VEHICLES
54	13.468	1.147

### Warning:

- Coolant tanks must be checked periodically, because they are exposed to thermal stress and vibrations, as much as to the ageing of the material. A damaged tank could lead to engine overheating, causing serious damages.
- Here below some warning signs: Anti-freeze smell inside the car, Extra consumption of liquid, Water leaks.
- Cap must be always replaced with a brand new one! A damaged cap has negative influences on the right functioning of the cooling system.
- Fit a cap with the proper pressure value according to car manufacturer instructions! The installation of a wrong cap could cause an delayed opening and a lack of regulation of the exceeding pressure.
- A faulty engine gasket has a negative effect on the radiator tank, because it might mix oil with the coolant, corroding rubber pipes and the reservoir.

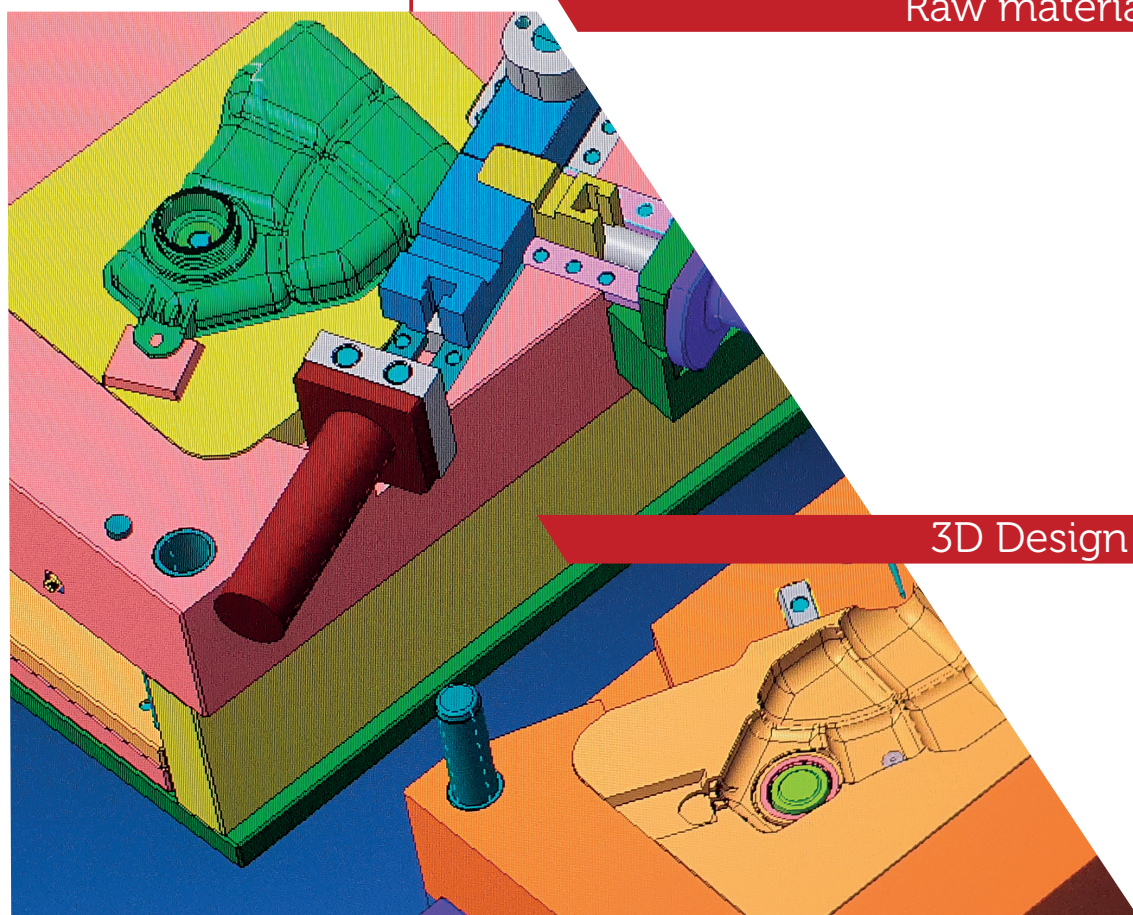
## Why choosing Original Birth?

### Original Birth's coolant tanks pros

- Because it is the specialist of cooling system parts.
- Only first choice raw materials are used.
- Coolant tanks are produced by Original Birth with state-of-the-art machines and technologies, 3D design and reverse-engineering techniques on moulds designed and produced in its own workshop.
- 100% checks during all process, from design to production.
- Tracibility is guaranteed on all parts by production lot and Original Birth's logo.

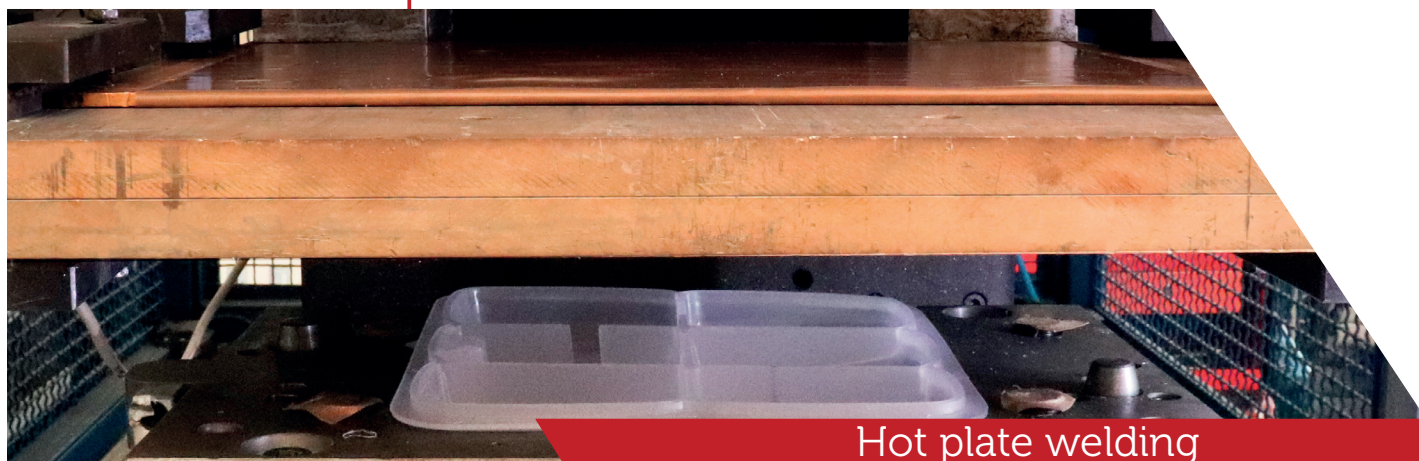
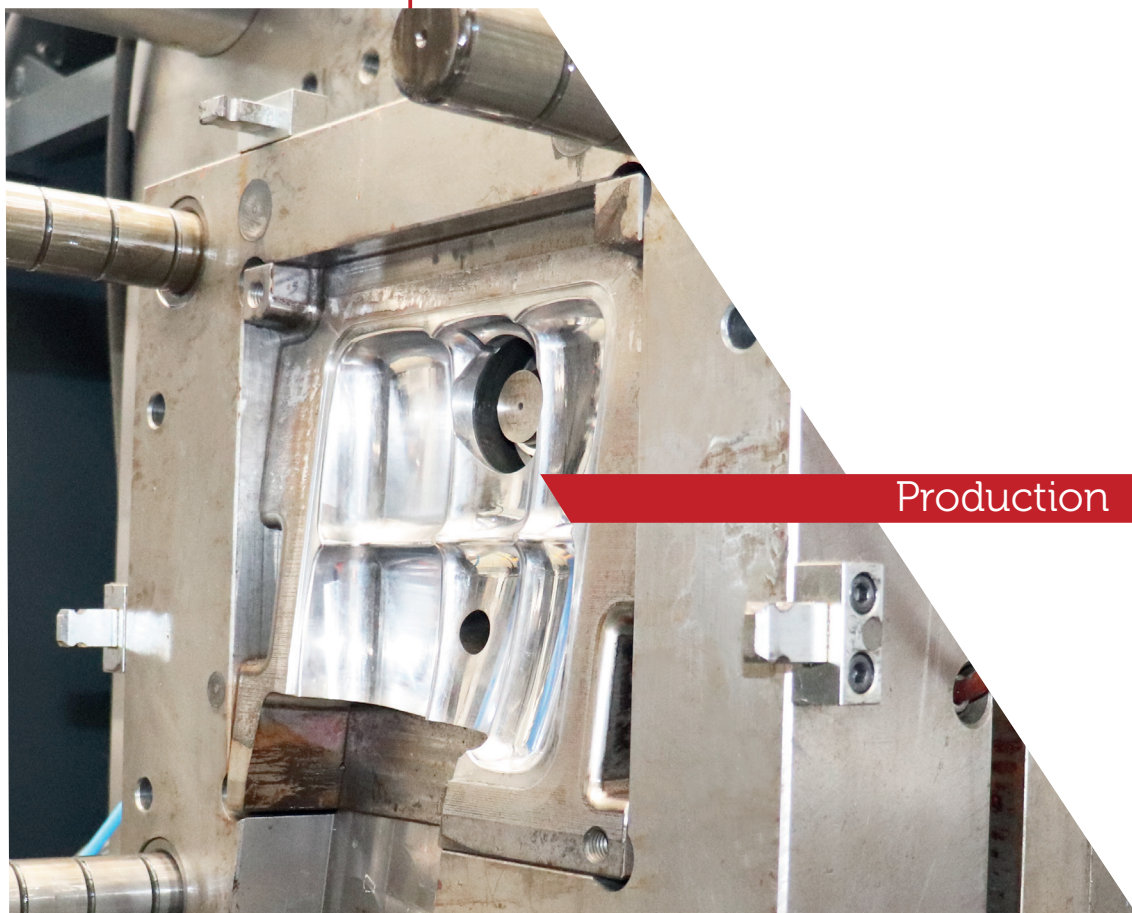


Raw material



3D Design





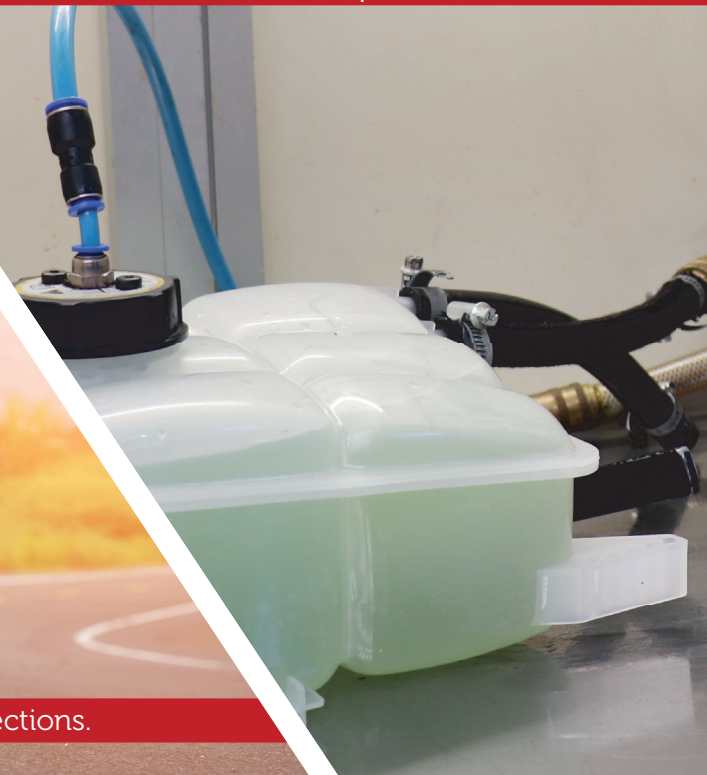




BAR TEST - Air and water pressure tests



Vehicle trials, recorded by periodical inspections.



Don't forget! Besides coolant tanks, **Original Birth** offers a wide range of products: other coolant system components, steering and suspension parts, engine mounts, strut mounts, gear box mounts, axle and steering boots, wheel hubs, pedals, EGR Valves and much more.

