



BLADDER FUEL TANKS



A presentation of the innovative pick-up system by M.e.r.in srl

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01

WHAT'S NEW?

M.e.rin has developed a new pick-up system integrated into the fuel tank that will work in any race conditions.

02

ADVANTAGES

- Elimination of catch tank
- Elimination of low pressure pumps
- Elimination of internal hoses and of internal electrical circuit
- Pick-up of fuel is guarantee in any condition during the race (acceleration/bend/braking)
- Simplification of accessories installation
- Reduction of electrical absorption
- Reduction of fuel tank weight
- Reduction of price

03

HOW IT WORKS

In details, the tank will have a double bottom. The upper wall of this double bottom will be composed of a single yarn Nylon fabric, construction plain, with 42 yarns per centimeter in both directions (warp and weft).

This fabric is typical of filtering materials and its function is to create a continuous veil, even in case it remains temporarily out of fuel.

In practice, the fuel retained between this filter and the lower part of the tank is sucked by depression through the pump. This phenomenon occurs at any point of the wall between the two fabric layers (filter + tank bottom).

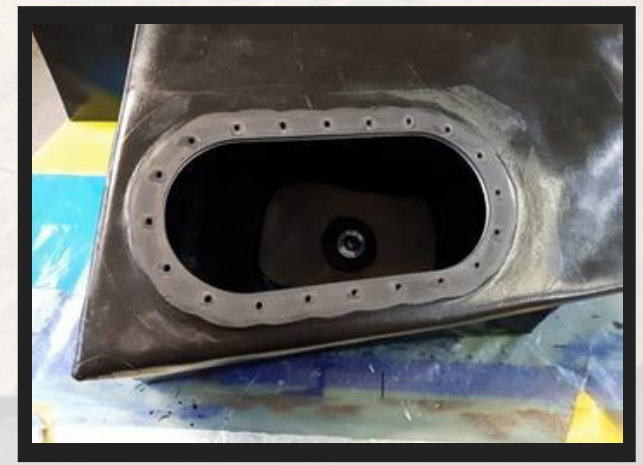
For further safety, the pick-up is carried out in four opposed directions by means of flexible hoses (see picture below).



These pick-up hoses allow the elimination of the lift pumps and, consequently, of their hoses/fittings and power supply.

Retaining fuel between these two layers, it is also possible to eliminate the catch tank and all its related accessories.

Here below you can find some pictures showing you one of these tanks, which is currently being tested.



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INDUSTRIAL PROPERTY RIGHTS

Our innovative system has been submitted to the Italian patent office in order to get the recognition of industrial property right (PATENT PENDING N. 102018000009552).



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