



# FONDERMETAL

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## Automobile industry equipment

We cover a wide range of products such as clutch covers, gearbox casings, engine covers, carburetors, suction pipes, steering columns and so on, addressed to the automotive field and to the heavy means of transport. These parts require a high quality level, mainly constant along the time.

The design of the toolings is extremely important and for this reason we usually make use of the computerized simulation system of the injection from the first phase to the casting cooling one. Afterwards process and product statistical checks are carried out so that to grant that every slightest process deviation is immediately pointed out.

## Domestic appliance field

For this field we mainly produce components for refrigerator compressors, both for domestic and industrial uses. The difficulty of these products lies in the fact that very high quantities are normally requested to be supplied at very competitive prices. Consequently it is absolutely necessary to produce using multiple-cavity toolings with extremely quick production cycles, granting anyway the very high quality request.

We experienced several specific researches as far as die casting tools, the use of special kind of steels and the surface treatments of the die casting tools themselves are concerned. Strict and frequent dimensional checks are carried out and, basing on the involved quantities, they have been computer-based with the use of continuous 3D-scan equipments.

## Engine components

We produce a complete range of products including clutch covers, gearbox casings, engine covers, carburetors, intake tubes and many others for different industries such as the one for the motorcycles and the motors. These parts require a high quality level, mainly concerning the dimensional tolerances and the alloy treatments, to avoid difficulties in the machining and possible leakages.

Periodically we carry out destructive (hardness, liquid penetration, exhausting and maximum stress, tightness, and so on) and non-destructive tests (radiography and dimensional checks with continuous 3D-scan equipments).

## Garden Equipment

Our Company is specialized and particularly equipped for the production of gardening items from 5 to 15 kilos. These parts are produced on completely automated die casting machines from 1,200 to 2,500 tons which allow us to obtain in one automatic cycle completely machined parts which then need only to be deburred and sandblasted.

We have a wide range of Italian and foreign customers who appreciate our ability and cooperation in solving the different technical problems (tooling life, surface finishings, optimization of the injection, and so on) which are needed by these parts mainly due to their dimensions. We are also able to supply the parts with different levels of finishing, i.e. machined, sandblasted, painted.

## Lighting equipment

The peculiarity and the difficulty of these products lies in the thin wall thickness usually combined with the box shape. Only by properly projecting the toolings and using modern, computerized machines able to grant the repetitiveness of the parameters it is possible to produce parts with a perfect finishing level of the surface and compactness.

On the surface quality it often depends, for us and for our customers, the gaining of a market. The most important producers in this field are customers of ours since many years and they increase their business with us year after year. This means for us and for our customers to grant professionalism and quality of our production.