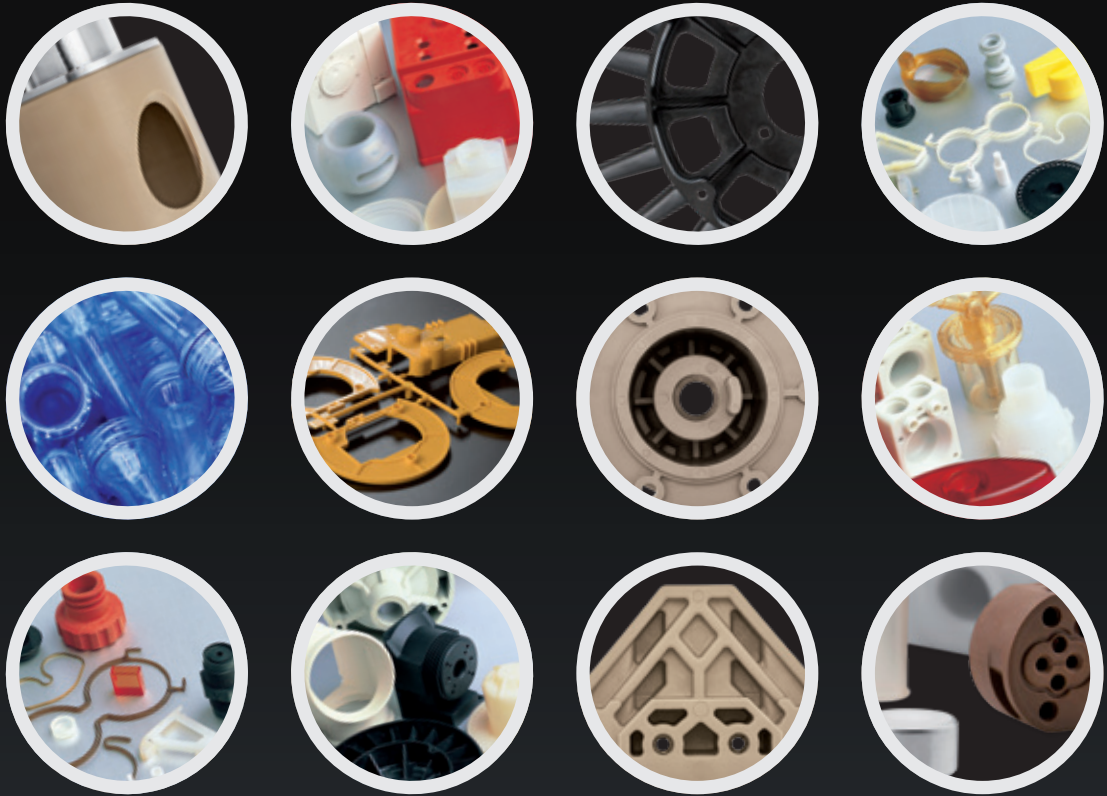


注塑 / 3D打印



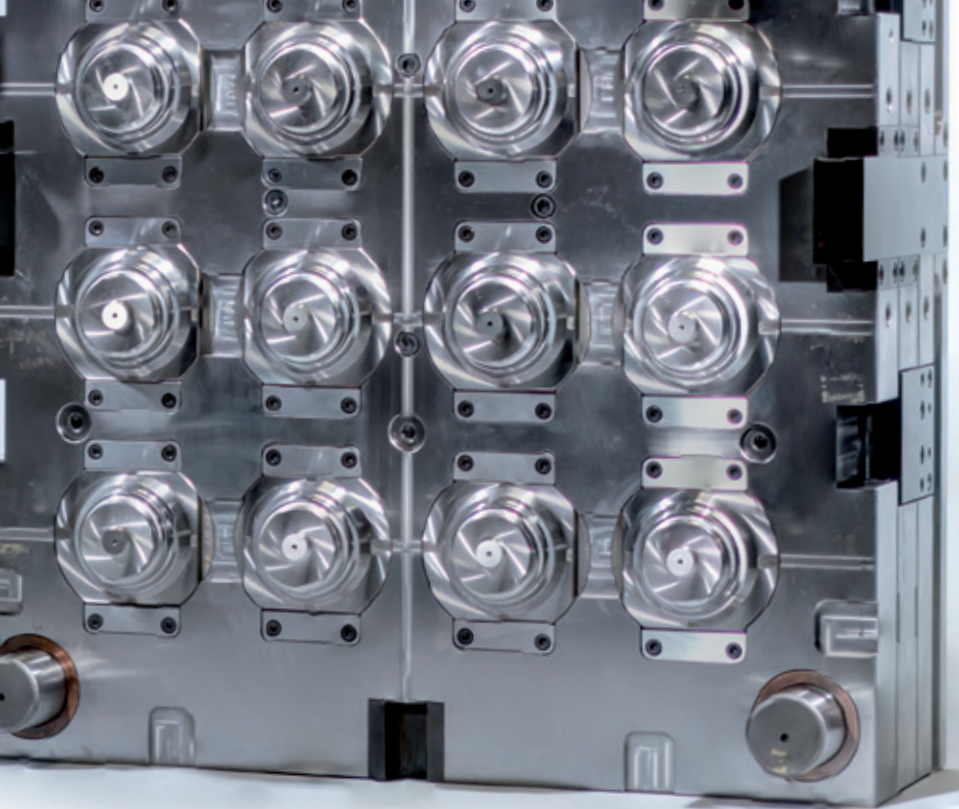
注塑成型 / 3D打印

 **FLUORTEN**<sup>®</sup>  
PTFE & TECHNOLOGICAL POLYMERS MANUFACTURING





# 注塑成型



# 3D 打印



## INJECTION MOLDING

We produce in our workshop, technical engineering products for industrial applications from HPP with the latest modern generation injection molding machines. Molds are designed and manufactured completely "in-house" to match customers' specifications guaranteeing a constant quality of finished parts through planned maintenance of the tools during their lifetime.

Thanks to our know-how, we can support customers to find the right solutions in terms of geometries, tolerances and selection of appropriate materials in accordance with the final applications.

As further advantage, whenever injection has technical manufacturing limits, we have the possibility to combine injection technologies with our in-house CNC facility (multiaxis lathes and milling), this allows us to machine parts to defined special geometries and precise tolerances.

## HPP – HIGH PERFORMANCE POLYMERS

We only transform premium grade raw materials from market leading producers of engineering plastics (PEEK, PPS, PA, PC, PU, PP, etc.), including Fluoropolymers (FEP, PFA, ETFE, PVDF, PCTFE, etc.).

Finished parts can be manufactured in mono or co-injection molding, in small or large dimensions and series, with insert/lining (metal or polymer) and, if required, assembled in kits.

## CERTIFICATIONS

- EN 9100 (Aerospace)
- ISO 9001
- ISO 14001
- GMP 1935/04/CE/FOOD

## 3D PRINTING

Through innovative and new state of the art generation 3D printers, made by our technical partner ROBOZE, we can manufacture technical components in various standard and High Performance Polymers. With this knowledge and material processing expertise, Fluorten is now at the forefront of these innovative technologies and amongst the market leaders in various industry sectors.

Prototypes and small series are manufactured in less time, there is no need to manufacture molds, this will reduce costs compared to the traditional injection molding.

The precision of the component is defined by the patented ROBOZE machine movements Beltless System. Thanks to its smooth fluid action, it guarantees finished parts with an extreme accuracy (around 0.025 mm).

As further enhancement of our capabilities, we have the possibility to combine this manufacturing technology with our in-house CNC facility. This allows us to machine parts to specific geometries and precise tolerances whenever 3D printing has technical manufacturing limits.

## MATERIALS

We process technopolymers with high thermal and mechanical resistance, capable of replacing metal alloys in extreme applications (CARBON PEEK, CARBON PA, PEEK, ULTEM™ AM9085F, PP).



## 注塑成型

我们在车间使用最新一代注塑机生产 HPP 工业应用的技术工程产品。模具完全“内部”设计和制造,以符合客户的规格,通过在工具的使用寿命期间对工具进行有计划的维护,确保成品质量稳定。

凭借我们的专业知识,我们可以支持客户根据最终应用在几何形状、公差和选择合适的材料方面找到正确的解决方案。作为进一步的优势,只要注塑有技术制造限制,我们就有可能将注塑技术与我们内部的 CNC 设备(多轴车床和铣床)相结合,这使我们能够将零件加工成定义的特殊几何形状和精确的公差。

## HPP – 高性能聚合物

我们只改造市场领先的工程塑料(PEEK、PPS、PA、PC、PU、PP 等)生产商的优质原材料,包括含氟聚合物(FEP、PFA、ETFE、PVDF、PCTFE 等)。成品部件可以采用单注塑或共注塑成型、小尺寸或大尺寸和系列制造,带有嵌件/内衬(金属或聚合物),如果需要,还可以组装成套件。

## 认证

- EN 9100 (航天航空)
- ISO 9001
- ISO 14001
- GMP 1935/04/CE/食品

## 3D打印

通过我们的技术合作伙伴 ROBOZE 制造的创新和新一代最先进的 3D 打印机,我们可以制造各种标准和高性能聚合物的技术组件。凭借这些知识和材料加工专业知识,Fluorten 现在处于这些创新技术的前沿,并跻身于各个行业领域的市场领导者之列。

模型和小批量制造时间更短,无需制造模具,与传统注塑成型相比,这将降低成本。

组件的精度由获得专利的 ROBOZE 机器运动无皮带系统定义。由于其流畅的动作,它保证了成品零件的极高精度(约 0.025 毫米)。

作为我们能力的进一步增强,我们有可能将这种制造技术与我们内部的 CNC 设备相结合。这使我们能够在 3D 打印存在技术制造限制时将零件加工成特定的几何形状和精确的公差。

## 材料

我们加具有高耐热性和耐机械性的高科技聚合物,能够在极端应用中替代金属合金(加碳 PEEK、加碳 PA、PEEK、ULTEM™ AM9085F、PP)。





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EN 9100: 2018 - CERTIFICATE N.5695/3



ISO 9001: 2015 - CERTIFICATE N.21



ISO 14001: 2015 - CERTIFICATE N.27

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network