

Repo^{SA}

PLASTIC
SOLUTIONS
PROVIDER

WWW.REPOPLAST.CH

Repo SA is a Swiss company, founded in 1968 and located in Monteggio, Ticino, specialized in the injection molding of plastics for industrial applications.

The know-how acquired in more than 50 years of business today makes it a true service provider for its customers: a **Plastic Solutions Provider!**



A young property that is directly involved in business operations provides the company the ability to respond to the customer's needs very quickly and directly. A solid financial capacity allows Repo to evaluate investments based on long-term projects and the needs of its customers.

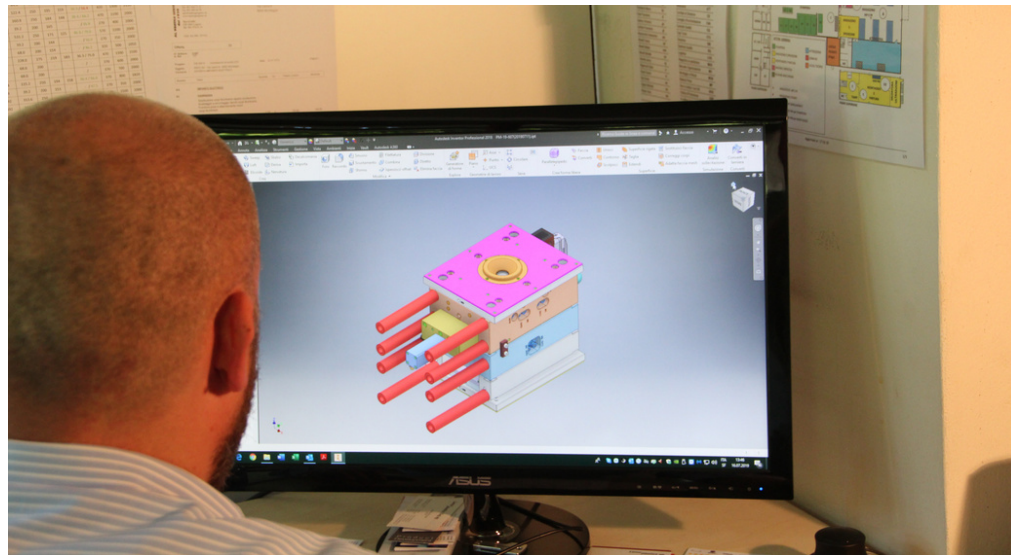


SERVICE AND SKILLS

- Injection molding and overmolding
- Design, *reverse engineering* and industrialization of details
- Consultancy for the identification and application of technical materials
- Know-how for production of process capability documents (ex. **CP** and **CPK** analysis)
- Micro-injection molding
- Construction and modification of molds (including third parties)
- Mold maintenance
- Metrology services (using **Keyence VR3200 3D** viewer),
- Post mechanical processing and assembly
- Ultrasonic welding (medium / small dimension)
- Logistics and Warehouse (kanban, deliveries with own vehicle, etc.)
- **ISO 9001 2015** certified quality system
- **SAP Business One** management system
- Two-color pad printing



Our know-how on materials is vast thanks to **3 technicians** with many years of experience in the sector and to **3 plastic experts** operating in the printing press. We are able to support the customer in defining the most suitable material, with the best cost / performance ratio, for the article to be made and the field of application: we work with all the main manufacturers and distributors of materials, using only certified materials.



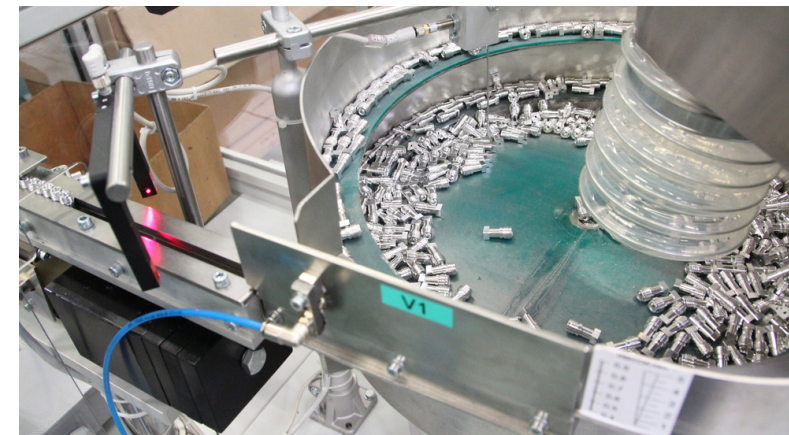
We specialize in technopolymers and we have no problems printing even the most complex materials. We are available to support the customer even in feasibility studies to replace existing materials with new bio materials. We also offer the possibility of carrying out moldflow studies internally or with the support of qualified partners.



INJECTION MOLDING AND OVERMOLDING

Technical injection molding remains Repo's core business, the fleet includes 16 Arburg presses (from 35 to 220 tons) and is constantly updated (average age 9 years) and maintained. In the production department we can count on 3 plastic experts responsible for each shift. Our production is structured with:

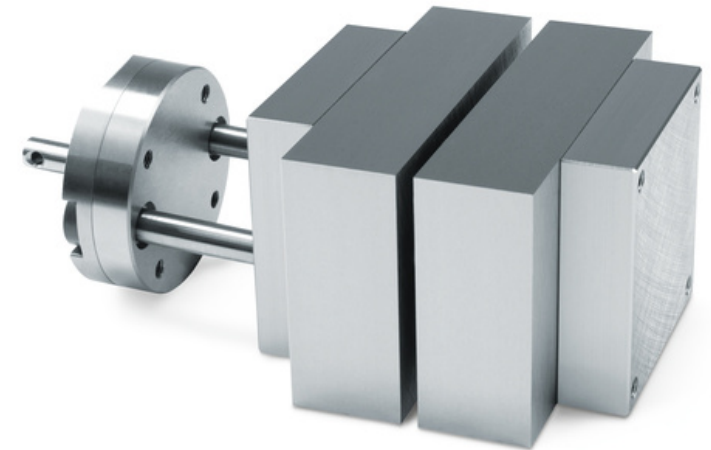
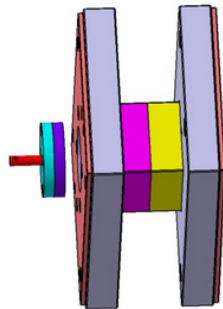
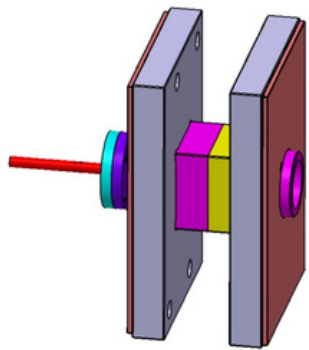
- **Sepro** Cartesian robots and **Kobra** automations
- Pressurized water mold temperature controllers (up to 180 °)
- **Moretto** dehumidifiers on each press
- Central cooling system with **MTA** industrial refrigerator (from 2017)
- Air compressed system (renewed in 2017)
- Press preventive maintenance program
- Training plan for updated personnel checked annually based on needs
- Semiautomatic productions with press operator for small lots





MICRO INJECTION

Micro molding is a thermoplastic specialization intended for the production of small / very small pieces for which adequate presses and specially made molds are needed. The purpose of this specialization is to obtain absolute control over the variables that contribute to obtaining details that generally present geometric and process criticalities that are difficult to solve with the traditional process.



The dynamics for which **micro molding** is extremely competitive are:

- Very low mass molds for which it is possible to have absolute process control.
- Cost of mold making calmed by reduced costs for the mold holder.
- Possibility of creating "pilot" molds that can anticipate and replicate multi-cavity molds for large productions.
- Absolutely functional and performing molds with low production costs where the "numbers" do not allow a traditional approach.
- Molds with micro cavities that require a very low weight capable of not degrading the plasticized material.
- Micro pieces with thousandths of supply tolerances.



MOLD CONSTRUCTION AND MODIFICATION

Our experience in the construction and modification of molds is more than thirty years. Over time, we have set up a very large range of mold suppliers divided between Switzerland, Italy and China, capable of satisfying any need in terms of quality, cost, timing and making molds according to the know-how required for the type of application (eg automotive , micro-molding).

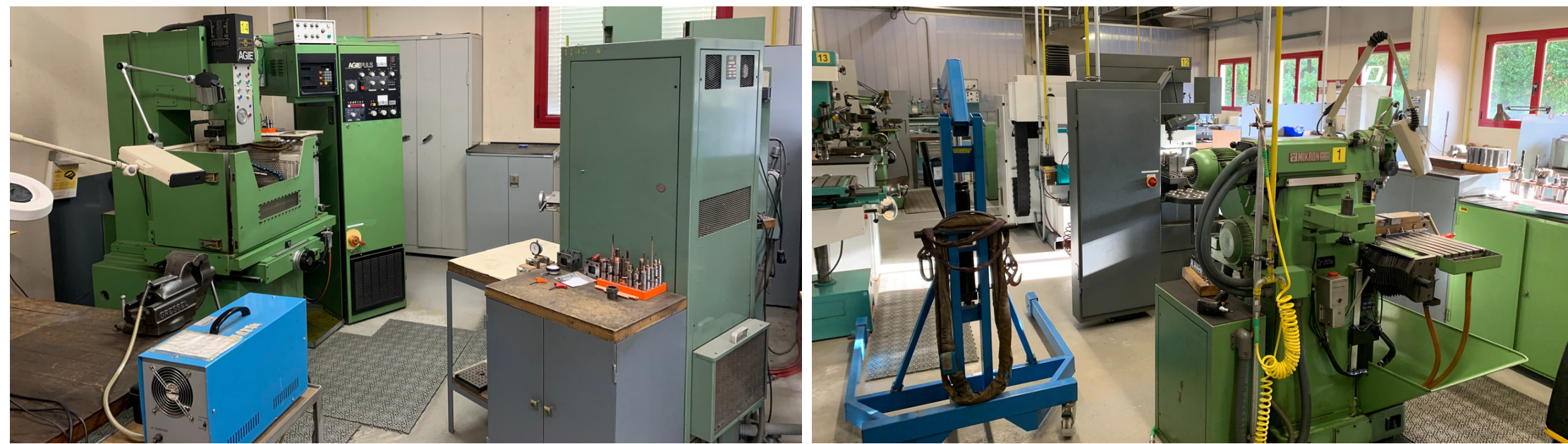


Possibility to build simple or small molds internally and to carry out the main ordinary and extraordinary maintenance.



INTERNAL MECHANICAL WORKSHOP

In our factory we have an internal mechanical workshop (**2 employees with twenty years of experience in mechanical processing**), mainly structured for mold maintenance, but also able to build simple or small-sized molds if necessary, avoiding customs steps to carry out work or modifications beyond border.

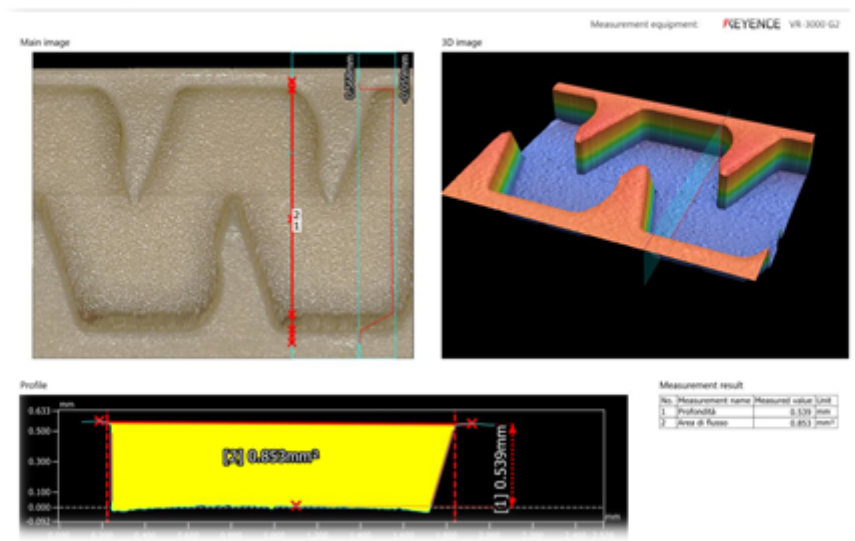


We work with a preventive mold maintenance program, in addition to specific maintenance activities upon notification by the molding department. We also perform mechanical work on behalf of third parties such as: plunge erosion, turning, milling (with 2-axis cutter)



PROCESS CAPABILITY

We are able to carry out dimensional reports and **CP / CPK** analysis within 24 / 48h, through automated and very fast measuring instruments (e.g. 500 measurements in 4 seconds) we can propose tolerances based on the variability of the process.



Product development supported by:

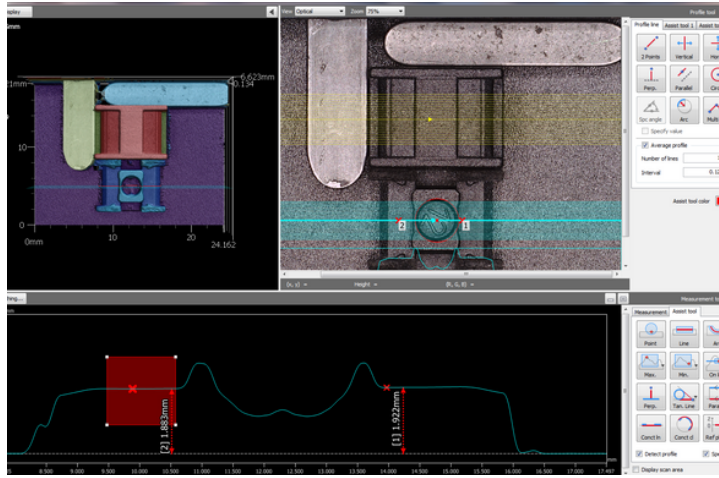
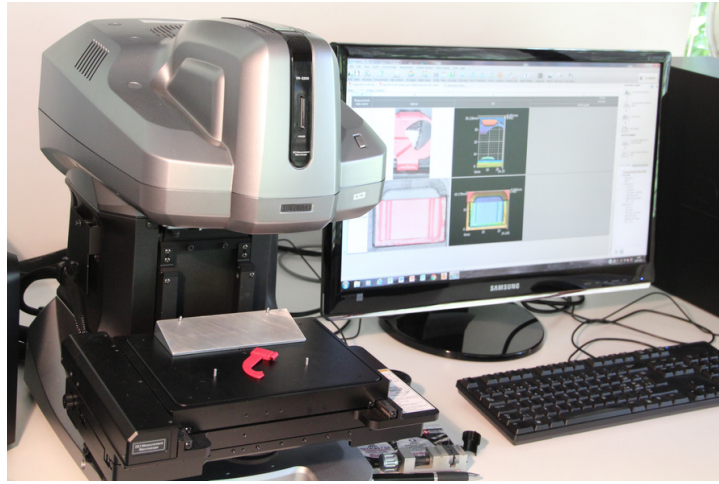
- Modification of the mold in our tool shop
- Test of new process parameters in the production department
- Very high precision measurements performed within 24 hours of sampling



METROLOGY SERVICES

We are able to perform dimensional checks on 3D geometries using the viewer **Keyence VR3200** (sample size from 0.2 to 100 mm). These are the main services offered:

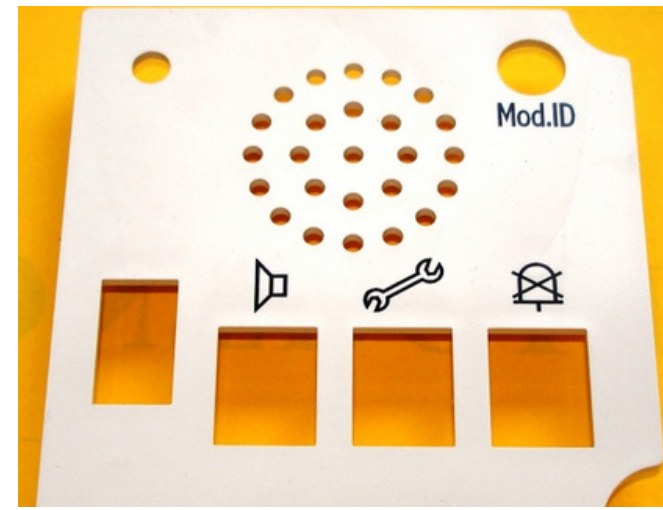
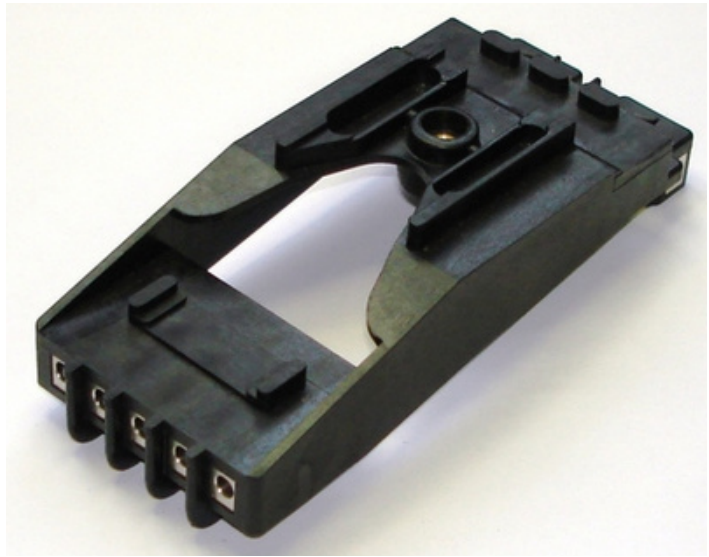
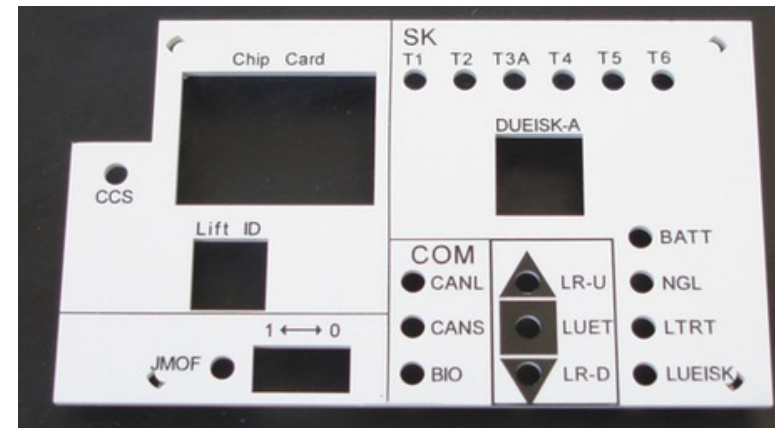
- Possibility of taking complex measurements: volume, roughness, weighted averages
- Analysis of gear teeth and parametric profiles
- Measurement of 24/48/96 pieces simultaneously
- Point-by-point deformation measurement (scan vs part drawing)
- **4** seconds for the total reconstruction of the geometry of the detail
- **0.5** μ repeatability of the measurement (sufficient to divide a hair into 20 parts)
- Export of surfaces (nurbs) for reverse-engineering (formats * .STP, * .STL, * .IGES)
- Dimensional reports up to 500 quotas, 50,000 values
- Data archiving for 3 years, with anti-suppression system and backup
- Possibility to check after some time, not only the values, but also the measurement methods.





MANUFACTURING

Our Monteggio factory is also equipped with a post-processing department that includes ultrasonic welding, two-color pad printing and finishing activities such as deburring, cutting and assembly.





LOGISTICS AND WAREHOUSE

Our warehouse is modernly organized, managed with **FIFO** system and traceability of materials and production lots. We carry out shipments with the main Swiss and international carriers and, where necessary, with our own vehicles.



We provide the customer with support in all its logistical needs: contractual safety stock management, 3-day Kanban deliveries, framework contracts.



QUALITY MANAGEMENT

Our quality system has been certified by SGS since 2008 according to the standard:

ISO 9001: 2015.

The department team consists of 3 people, to ensure quality on each work shift. In the project start-up phase the type and timing of the checks that will be carried out in production is defined. All controls are then stored digitally.

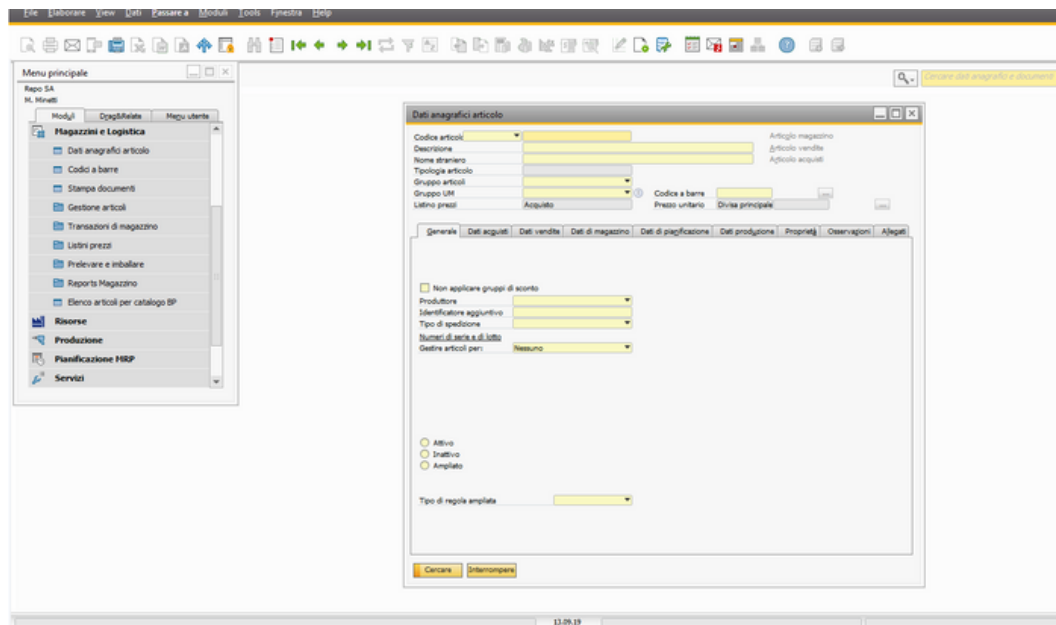




SAP BUSINESS ONE

In 2013, the **SAP Business One** management system was installed, with an **MRP** system that manages from the first offer to the final delivery, passing through material orders, production orders and warehouse stocks.

SAP Business One®

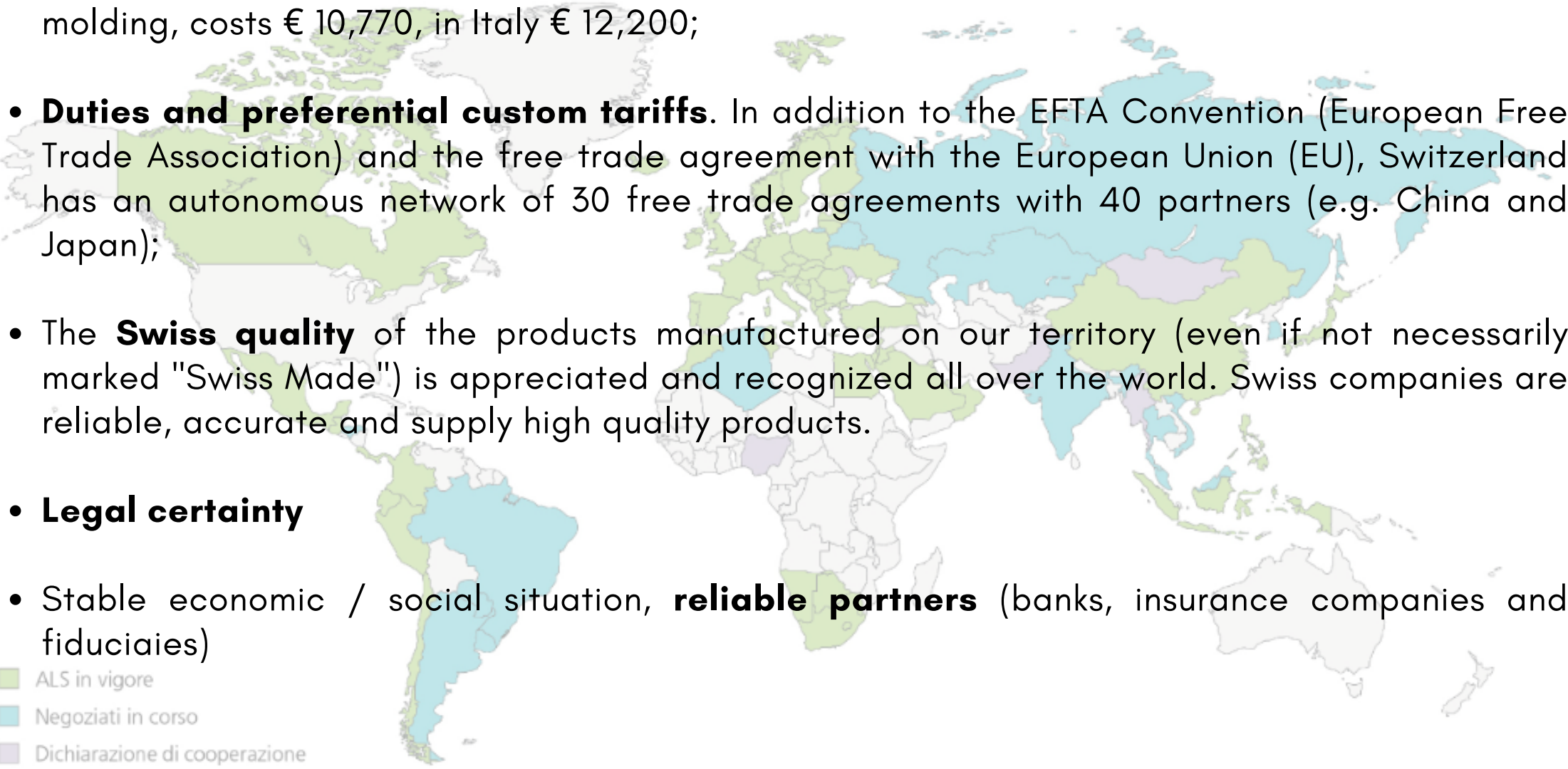


We are able to manage customizations and integrations with other software based on specific customer needs, thanks to the partnership with a company certified by **SAP**.



BUSINESS IN SWITZERLAND

- **VAT.** Swiss VAT is set at 7.7%. This allows for substantial savings on investments that remain in Switzerland. Ex: a mold worth € 10,000 + VAT, purchased in Repo, which will also deal with the molding, costs € 10,770, in Italy € 12,200;
- **Duties and preferential custom tariffs.** In addition to the EFTA Convention (European Free Trade Association) and the free trade agreement with the European Union (EU), Switzerland has an autonomous network of 30 free trade agreements with 40 partners (e.g. China and Japan);
- The **Swiss quality** of the products manufactured on our territory (even if not necessarily marked "Swiss Made") is appreciated and recognized all over the world. Swiss companies are reliable, accurate and supply high quality products.
- **Legal certainty**
- Stable economic / social situation, **reliable partners** (banks, insurance companies and fiduciaies)





The *Risk Management* system has proven to be suitable for the management of the COVID-19 emergency. The pandemic team, already from the end of February, has put in place organizational measures to avoid contagions within the company, protecting staff health and production continuity. The constant updating of procedures on the basis of legal and epidemiological developments, together with direct contact with trade associations, has made it possible to limit the total closure to a single week.

Repo SA www.repoplast.ch

Via Lisora 6 CH-6995 Molinazzo di Monteggio Tel. +41 (0)91 608 19 51 Fax +41 (0)91 608 10 77 E-mail: info@repoplast.ch	Stampaggio di materie plastiche Realizzazione stampi in proprio Tampografia e montaggio	Moulage Thermoplastique Fabrication de moules Tampographie et Montage	Kunststoff - Spritzwerk Eigener Werkzeugbau Tampondruck und Montage
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During this emergency period **Repo SA** guaranteed its customers timely email communications and updates on corporate social networks to give clear information on the company situation.

Pandemic Plan - COVID-19 - Add. 13/3/2020

1. Purpose

This Pandemic Plan describes the main organizational, preventive and hygienic measures to be taken to limit the spread of the COVID-19 infection among collaborators and ensure company functions even in the event of numerous absences.

2. Objectives

This Pandemic Plan aims to:

- I. Health protection: reducing the risk of employee contagion;
- II. Operating guarantee: ensure the minimum functioning of the company even in the event of a serious pandemic





CONTACTS

Via Lisora 6

CH 6998 Monteggio

Tel. +41 91 608 19 51

www.repoplast.ch

info@repoplast.ch

