

**UP** ***POLKIMA***

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**M O U L D E D   C O M P O S I T E S**



## Company Profile

Polkima is an industry leader in Turkey producing advanced tooling solutions and finished composite parts.

Since 1988 Polkima has been a leading innovator and exporter in the Turkish composites industry, creating proprietary production methods and processes for use in the automotive sector.

## Location

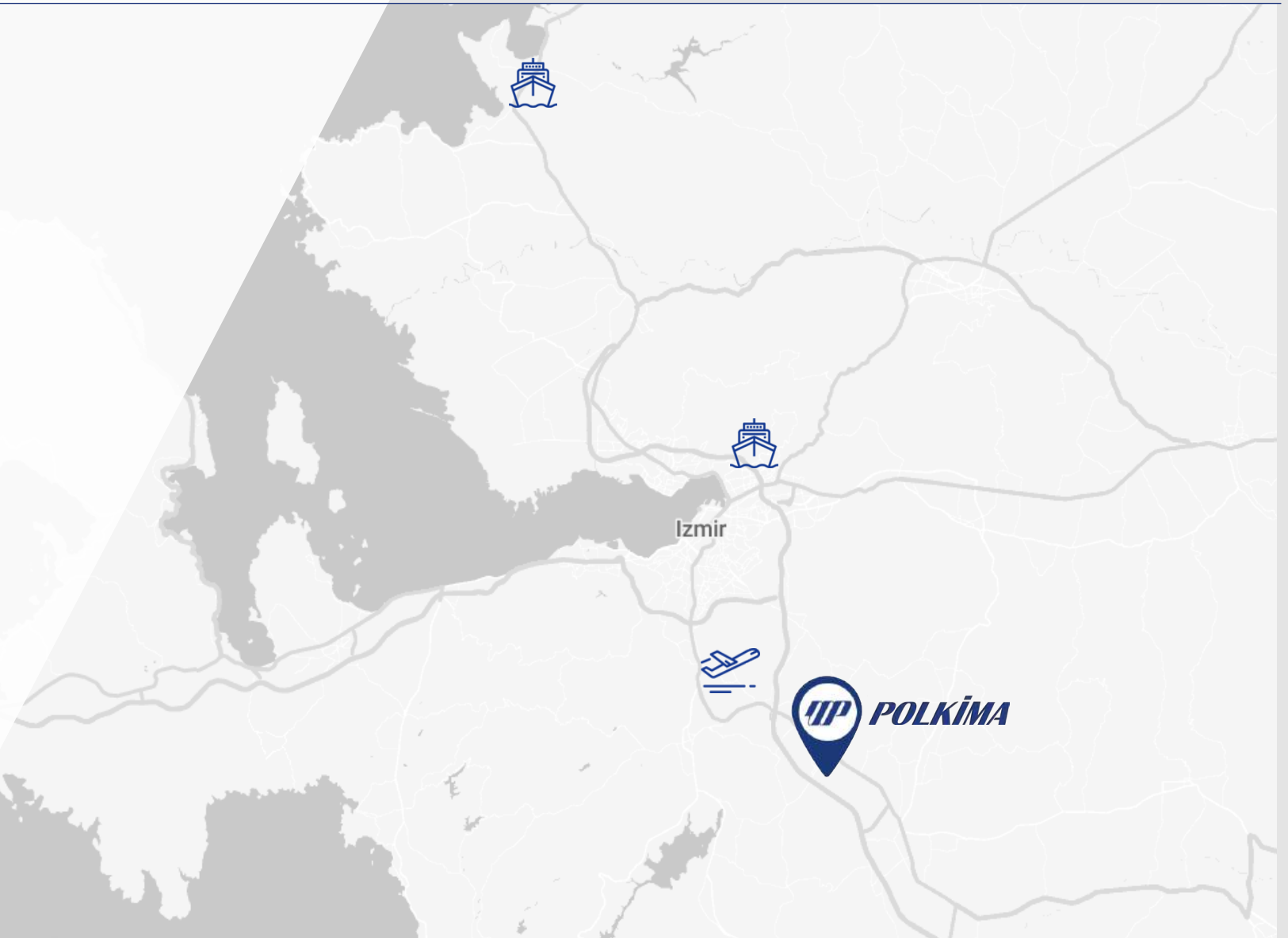
Based near the city of Izmir, in western Turkey, Polkima is within easy reach of two international shipping ports and 15 minutes drive from Izmir International Airport.



15 mins drive  
afrom airport



Within reach of  
2 shipping ports



## Sustainability

Through intelligent design and material allocation, Polkima is committed to reducing wastage while producing durable products that minimise the companies environmental impact

## Human Relations

Polkima maintains its devoted workforce by always looking after their best interests. These values of honesty and fairness are reflected in its customer relationships.

## Services

Polkima offers its customers the following services :



**Design**  
Design support and co-design activities



**Tooling**  
In-house tool production



**Production**  
Choice of production methods and materials



**Assembly**  
Sub-assembly for “ready-to-use” parts



**Scheduling**  
Prototyping and short lead times



**Delivery**  
Reliable logistic support

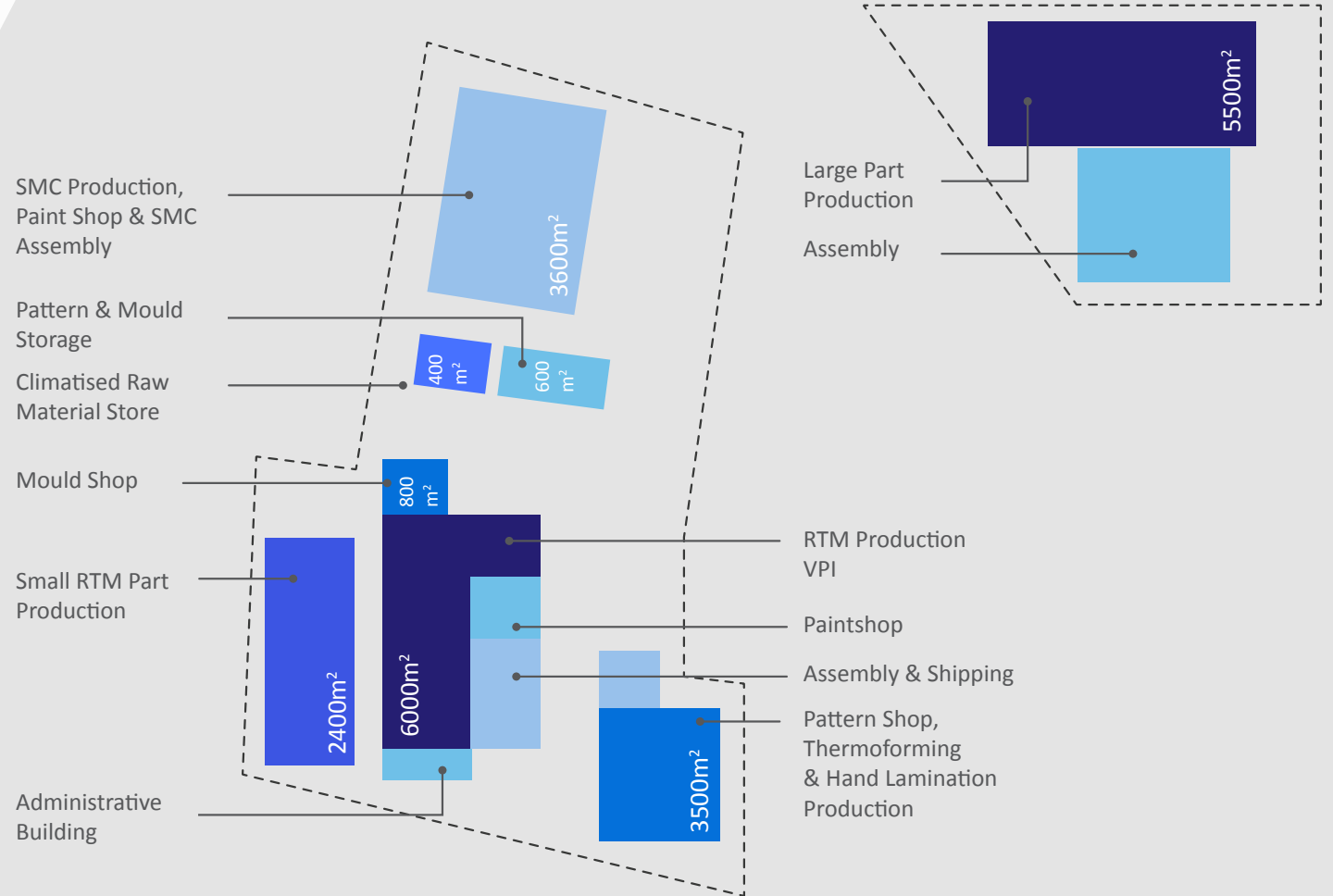


# ***FACILITIES***

## Overview

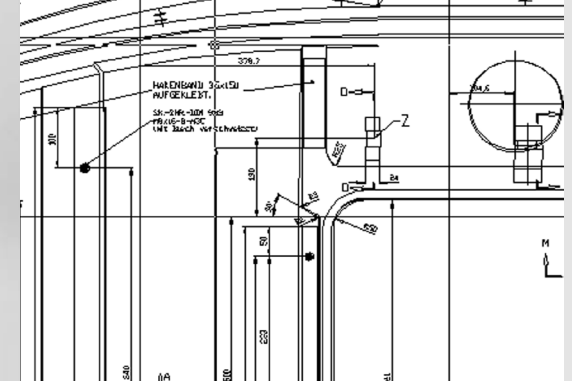
Polkima's five main buildings provide 22,000m<sup>2</sup> of covered area within 52,000m<sup>2</sup>:

- Integrated design support
- Dedicated pattern and mould production facilities
- In-house materials laboratory
- Integrated paint shops
- Integrated quality control systems



## Concept to Production

By providing its customers with design and engineering support, Polkima is able to take on projects in their early stages and optimise them for specific production methods.

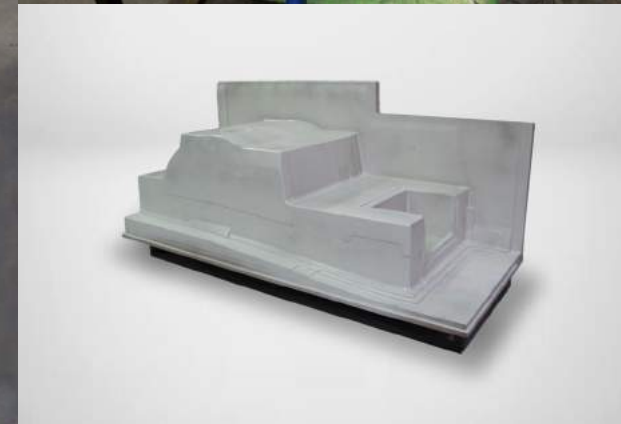
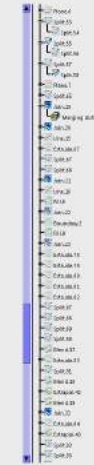
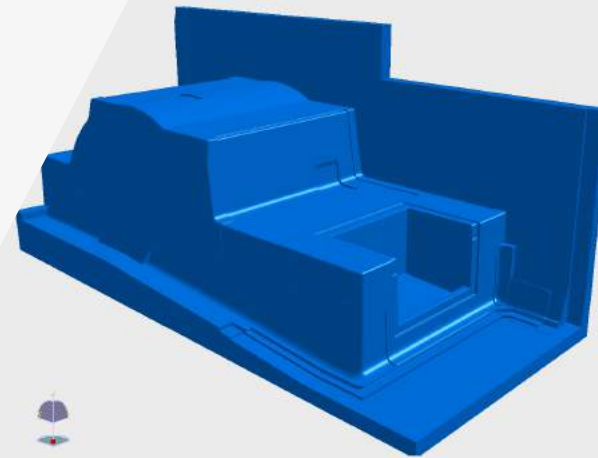




## Polmod Tooling

Polkima offers comprehensive tool production facilities on site through its sister company Polmod.

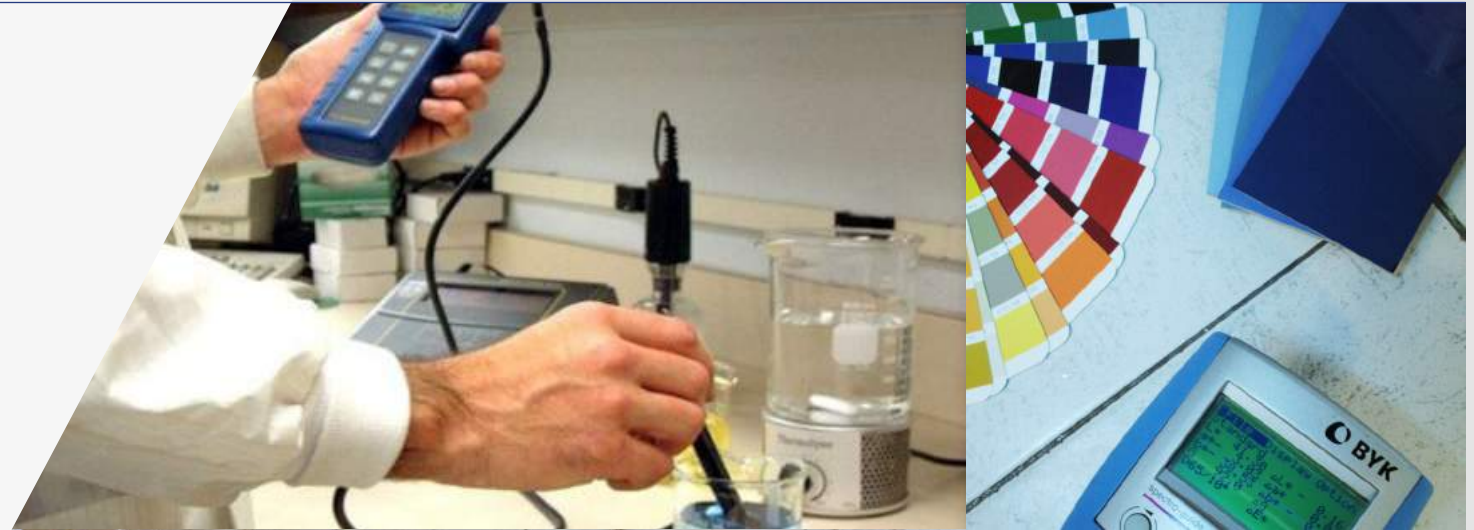
Services include engineering support, CNC programming and machining as well as finished plugs and moulds in various materials.



## Materials Laboratory

Polkima's well equipped laboratory is where various chemical and mechanical tests are carried out and new systems developed.

Through close association with its suppliers as well as local universities, Polkima has always been a driving force behind the development of the Turkish composites sector.



## Automated Paintshop

Polkima runs an automated painting facility used to coat high volumes of parts to exacting standards.





# ***PRODUCTION***

## Production Processes

Polkima offers its customers a wide range of production methods in various materials:

### Reinforced Plastics

- Hand Lamination
- RTM - VARTM
- SMC
- Infusion

### Thermoplastics

- Vacuum Thermo-forming
- Vacuum Thermo-coating

### Polyurethane

- Rigid polyurethane moulding
- Flexible polyurethane moulding



## Hand Lamination

The original method of fibreglass production, hand lamination is still a suitable solution for low production runs and intricate designs.

Potential Production:  
100-1,000 parts/year



## RTM - VARTM

Through years of experience with RTM, Polkima is capable of mass producing some of the most complex mouldings in the industry.

Potential Production:  
800-5,000 parts/year



## SMC

Polkima's SMC facilities enable precision parts to be produced in high volumes.

- 1500 & 800 tonne presses
- Parallelity Control
- PLC Automation
- Steam / Electrical heating

Potential Production:  
5,000 - 50,000 parts/year





## VPI (Vacuum Pressed Infusion)

Polkima's facilities use VPI, using a reusable silicone membrane closed moulding system. This provides greater efficiency over traditional composite moulding methods and reduces waste during production.

Potential Production:  
800-5,000 parts/year



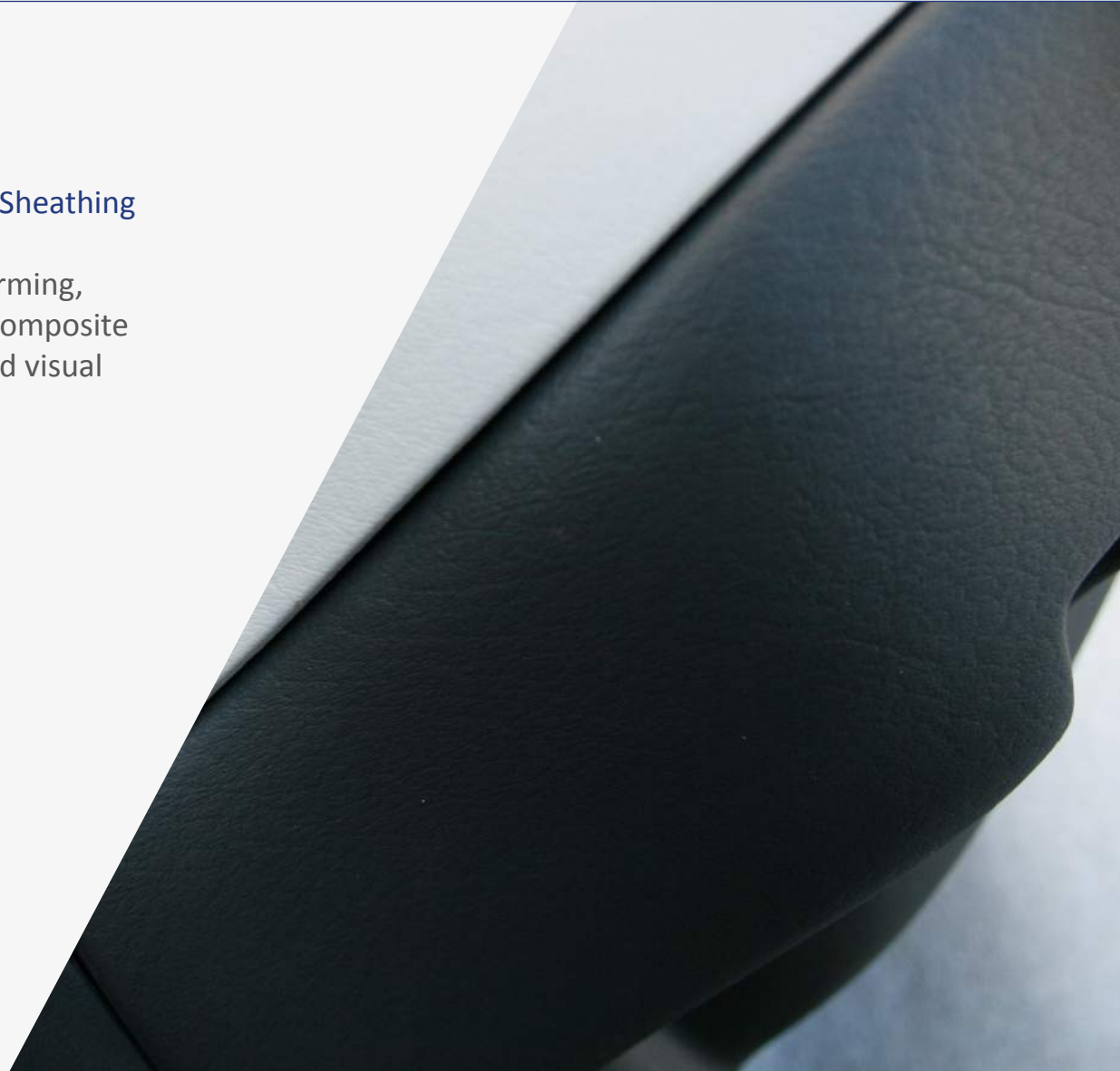
## Vacuum Thermo-Forming

Using vacuum thermo-forming, Polkima is capable of producing light-weight cab interior finishers and trim details such as control panels and dashboards.



## Vacuum Thermo-formed Sheathing

Using vacuum thermo-forming, Polkima is able to cover composite parts in various tactile and visual thermoplastic films.



## Polyurethane Moulding

With its polyurethane injection systems, Polkima can produce finished parts of varying densities as well as preformed inserts and cores for its composite production.



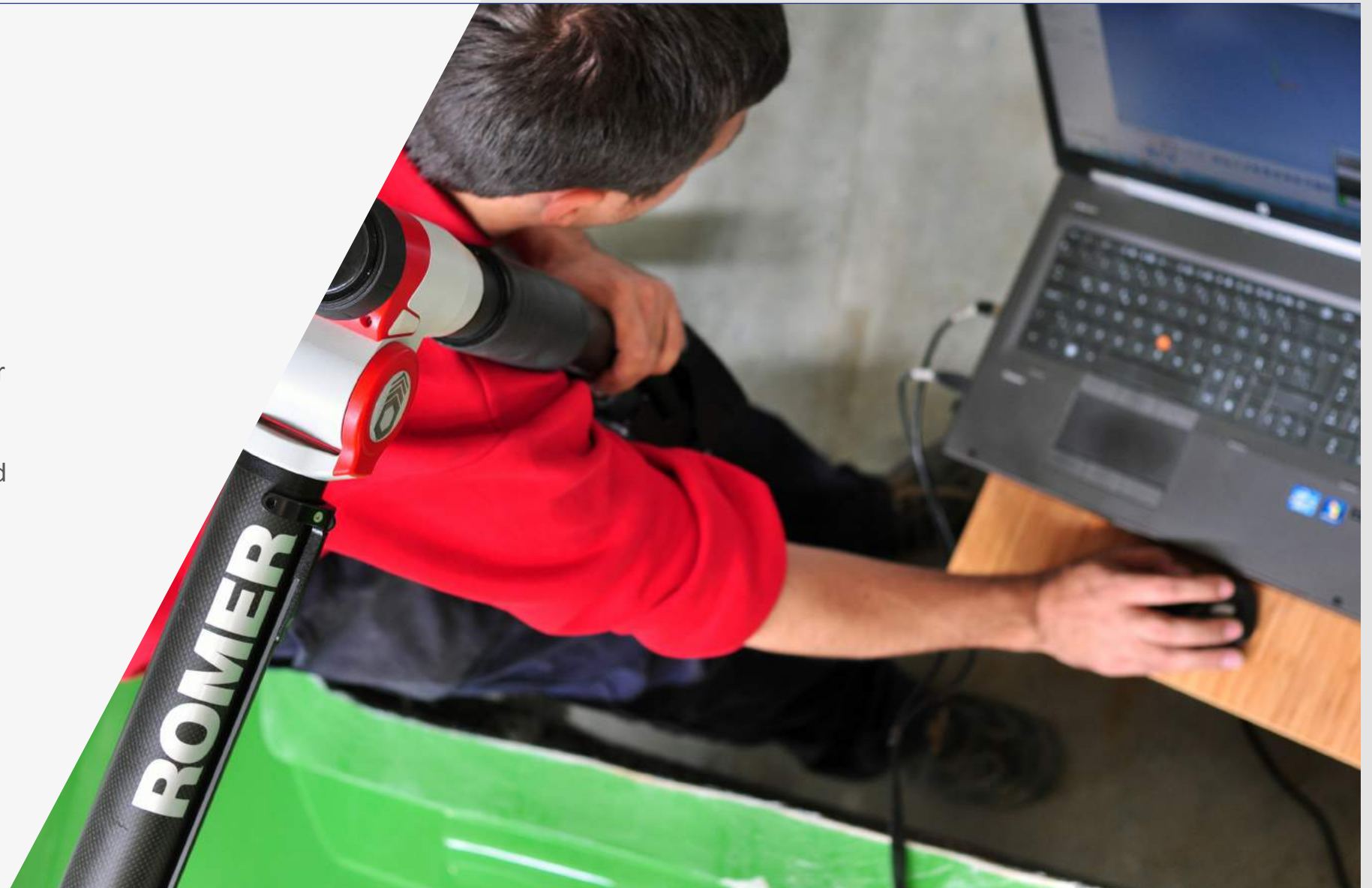


***QUALITY***

## Dimensional Control

In order to achieve dimensional accuracy, complex shapes are measured and compared with CAD data using laser scanning technology.

All new parts are checked and Initial Sample Inspection Reports (ISIR) are generated.



## Traceability

Every part produced is labelled at the start of production with a barcoded unique ID number to ensure availability of all quality information specific to each part.

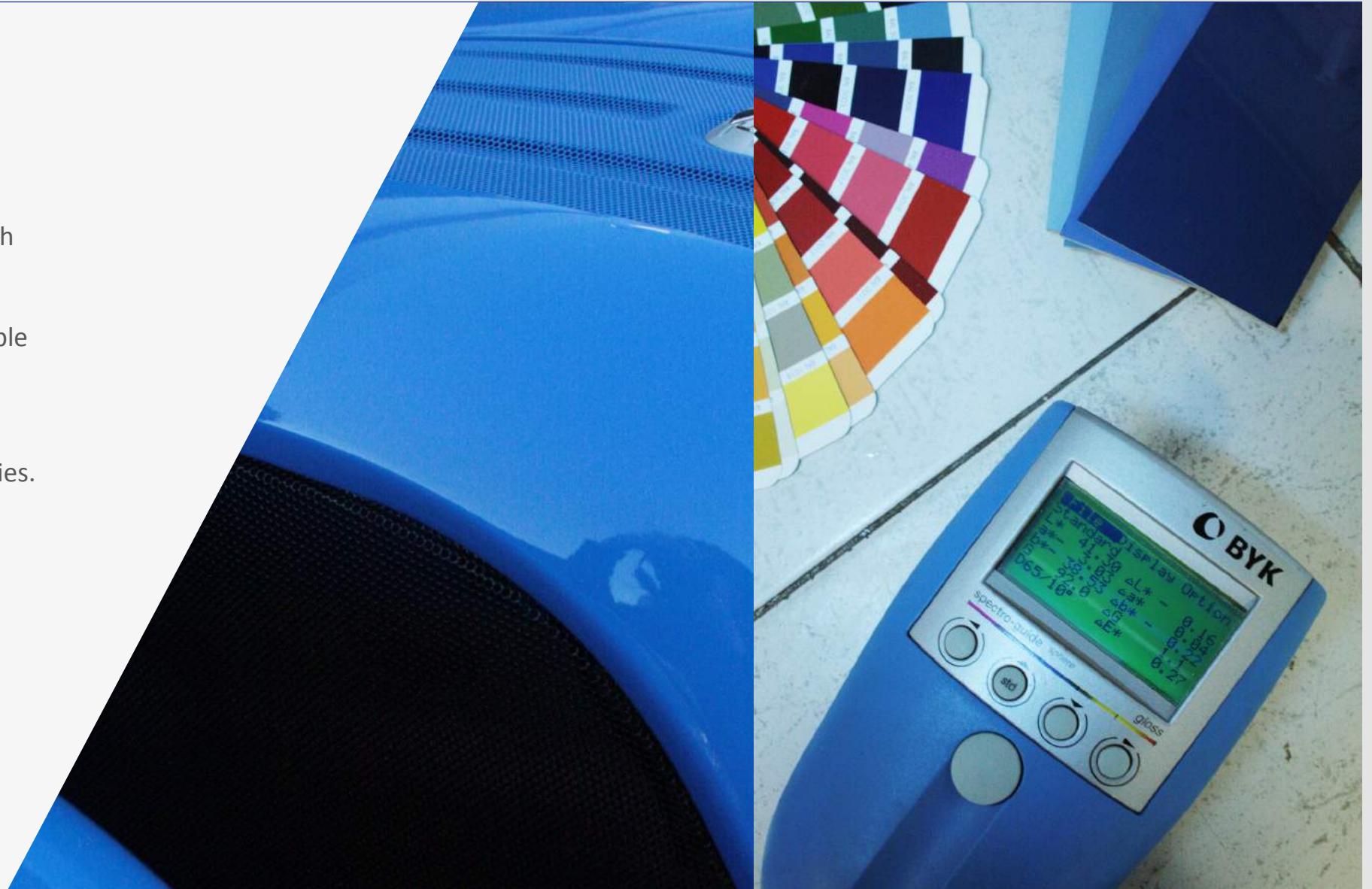
Throughout the various stages of production as well as packing and despatch, the barcode is scanned with wireless hand terminals and logged into a central computer system.

This provides complete control and traceability throughout all stages of production and after despatch.



## Colour Control

Polkima's expertise in high quality gelcoat finished surfaces is sustained through the use of portable spectrophotometers to keep inevitable colour deviations within narrow pre-determined boundaries.





## Weathering Testing

High durability against UV light and damp can be accurately tested in-house using Polkima's weathering testing facilities.



## Credentials

Polkima maintains a number of international standards:



ISO 9001:2015  
Quality Management



ISO/TS16949:2009  
Automotive Quality Management



ISO 14001:2004  
Environmental Management



ISO 27001:2013  
Information Security Management



## Facts & Figures

Polkima in 2017:

**€15,400,000**

Turnover

**255**

Employees

**65%**

Export

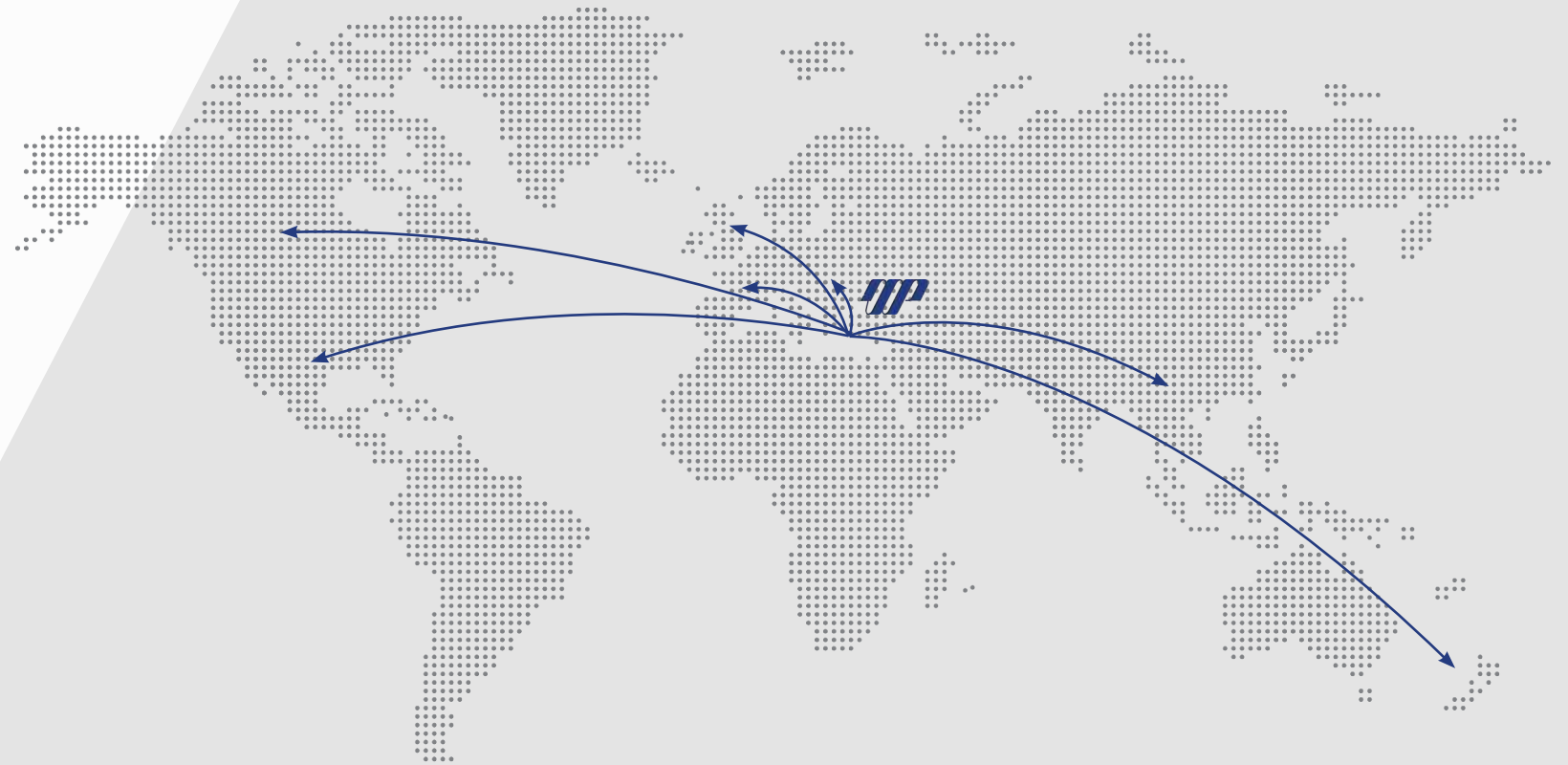
## Customers

Polkima has long standing clients both locally and internationally, including some of the largest automotive manufacturers in the world.



## Export Markets

Polkima provides logistical support for its clients worldwide.



# ***PRODUCTS***



# Agriculture & Excavation



# Transportation





Other





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