

Industry 4.0

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Some information about MMM



https://www.youtube.com/watch?v=QuuSeiuJg6U

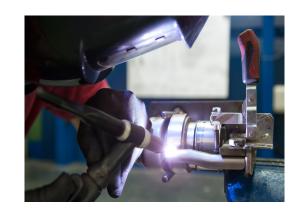
MMM video

Who are we: Welcome



- ▶ We are experts in the metal tube transformation working with Steel and Stainless Steel
- ▶ Development Partner for our Customer collaborating from Design Concept Phases till entering into Production
- ▶ We are supplying to the major vehicle manufacturers in Europe
- ▶ Diversified portfolio
- Our know-how and technological expertise to serve our customers has allowed us to become a strategic partner both in the area of production and technical development of their products

More than supplier, partners!





Products















Air tubes



EGR Tubes

Locations





MMM Barcelona. Spain

MMMA
Turda. Romania

Electrolytical Coating MARTurda, Romania Toglia

Togliatti. Russia



Corporate headquarters where the corporate services and the Development Center are located.

The main plant has an area of 4,400m2 within a complex of 9,000 m2. 137 employees.

Team in Nissan Synchro, 400 m2. Headcount of 12 persons.

High technology and high volume tube production plant with the capacity to manufacture engine and structural tube.

Area of 5,000 m2. Operational since 2006. 250 employees.



Surface treatment plant to supply the group and also to external customers.

Area of 4,000 m2. Operational since 2013. 12 employees.



Production plant oriented to supply automotive companies established in Russia.

Initial production of engine and structural tubes.

Area of 500 m2. Operational since 2014. 20 employees.

MMM Excellence in tube systems

Main customers

























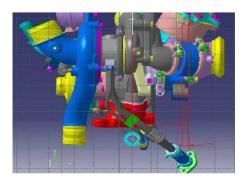
Design and Development Partner



Development Supplier

We can develop the product with our customer from **initial phases** to get the best solution taking into account the quality requirements of the product and the cost competitiveness using the following tools:

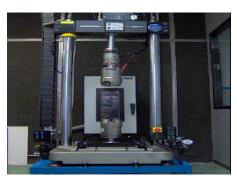
Design 2D/3D



Simulation



Testing/ Laboratory



Prototyping



4.0 industry solutions applied to MMM





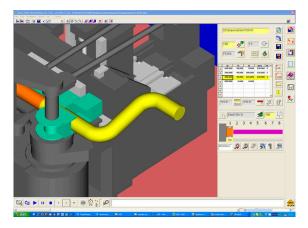
robotics



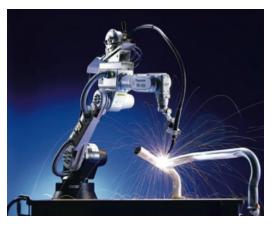
Wision120°

Wision

PLCs



process simulation



automations



artificial vision

4.0 industry solutions applied to MMM



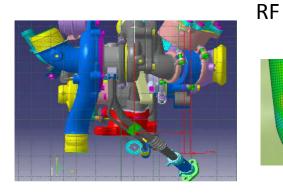


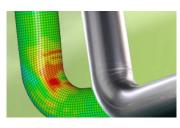
Visualización
Local
Video
cámaras
Servidor

ADSL

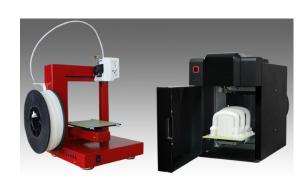
Control
Presencia

Video surveillance





Computational analysis

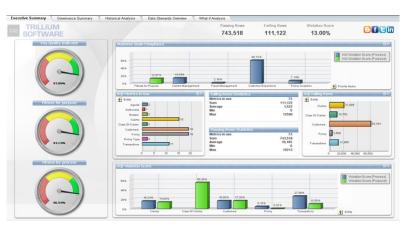


3D Printing

New ERP: KPIs real time monitoring









Which are the results of all these solutions?



- increase productivity
- increase efficiency
- reduce production downtime
- reduce scrap and non-quality costs
- Processes optimization
- planning
- Real-time KPI monitoring
- Predictive Maintenance
- get traceability





As a investor:





Consulting company specialist on strategy and new technologies for companies. Digital Partner accompanying the whole process of digitalization including the implementation.



thethings.iO is the internet of Things platform that enables fast and scalable connection of things to the internet, allowing you to monitor and manage your devices in real time and get flexible analytic reports.

It is like Amazon Web Services but specialized in the **Internet** of Things.



Thank you for your attention!

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MMM Excellence in tube systems