

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

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MAKING QUALITY CONTROL EFFICIENT MEANS BEING MORE COMPETITIVE

The testimonial of UMBRAGROUP S.p.A.

The company

[UMBRAGROUP S.p.A.](#) is a global leader in the manufacturing of **ball screws** within the **aeronautical sector**.

International excellence

The international success of the UMBRAGROUP is the answer to a market that is in the constant **pursuit of excellence**. UMBRAGROUP is a supplier for many multinational companies, leaders in each of their sectors: Boeing, Airbus, Rockwell Collins, KLM, Trumpf, DMG Mori Seiki, Mazak, Sumitomo-Demag, Meccanica Nova e Prima Power, just to name a few. The constant improvement of products and services and the continuous investments in Research and Development are the strong foundations for a successful strategy.



The product analysis

Ball screws: screws that are used in the aeronautical and industrial sectors. UMBRAGROUP uses advanced materials and state of the art computing instruments, which are able to last the required product life-cycle, and withstand the harshest environmental conditions along with the load capacity that can be found in the different applications.

The project

Quality control is a vital part of the production process.

Promoting the constant improvement of this phase is necessary, yet we always have to consider the importance of containing costs. In order to compete in a market that has expanded its reach to a global level, quality needs to meet productivity, in a **new concept of efficiency**.

The challenge for UMBRAGROUP together with VICIVISION: **increase productivity** while **reducing costs** and **quality control time**.

The challenge: the control of ball screws produced by UMBRAGROUP

With the **traditional methods** of quality control, it would take up to **an hour to test each part**.

It takes **15 employees** to sustain the production demand.

If the operators were to carry in a single **metrology room**, they would run into **long lines**, inefficiencies and inconvenient waits, adding to the burden of **training qualified operators**.

The introduction of VICIVISION MTL: the results

It was then necessary to have a machine that could operate in the shop floor and that would cut control times. With the introduction of a [VICIVISION measuring system](#) directly in the shop floor, the hours required for testing were drastically reduced.

Today **15 operators** are able to **use the MTL autonomously**. The machine allowed each operator to perform the testing directly in the shop floor **in a just a minute**. Diameters, lengths, angles and radii, geometrics and form measurements. MTL offers a **fast and reliable quality control**, avoiding inaccuracies and inefficiencies, which are linked to the traditionally measuring systems.

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[VICIVISION](#)

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The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

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