



Company
Profile

The history

a modern multinational group with italian craftsmanship heritage



The first AGLA plant	The LBN research laboratory is born	Implementation of Cataphoresis E-Coating, first system	Agla doubles its Manufacturing Plant Surface in Italy	Expansion into the French market of cold-forming components	Born of Forza Smart Industry Company, and Bottino Girardi Company acquisition	Focus on the production of customized Rotary Oil Seals and diversification on raw materials and markets
1962	1994	2010	2014	2016	2021	2024

1990 Technological implementation steel cold forming process for automotive components	2000 AGLA expands, increasing its presence on the European market	2012 TVD supply, 35% of AUDI-VW volumes worldwide	2015 Development and implementation of Visco Damper TVD	2019 Chinese Business License (Agla PTT Jangsu)	2023 Patented High Performance, Alloy Aluminium, ViscoTVD to supply and support sport cars evolution Market
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1962

2012

2014

2015

2023

2024

The Group today

business units and numbers



Group Business Units

Operations Division	<ul style="list-style-type: none">▪ Abla Power Transmission – Metal Dpt▪ Abla Power Transmission – Elastomer Dept▪ Abla Power Transmission – Stamping Plant
Industrial Automation Division	<ul style="list-style-type: none">▪ Forza Smart Industry
Equipment and Maintenance Division	<ul style="list-style-type: none">▪ ASB Assistance Service Business
R&D Division	<ul style="list-style-type: none">▪ LBN Ricerca



The Group in numbers

Production facilities	<ul style="list-style-type: none">▪ over 20.000 sqm.
Staff	<ul style="list-style-type: none">▪ 170 employees
Aggregate revenues	<ul style="list-style-type: none">▪ 39 million €
Commercial offices	<ul style="list-style-type: none">▪ 5



The Group today

business units and numbers



Fields

Automotive
Truck
Agricultural
Construction
Motorsport
Industrial Automation
Wellness and Sport
Power Generation
Aftermarket
Military
Aerospace
Nautical
Rail Transport



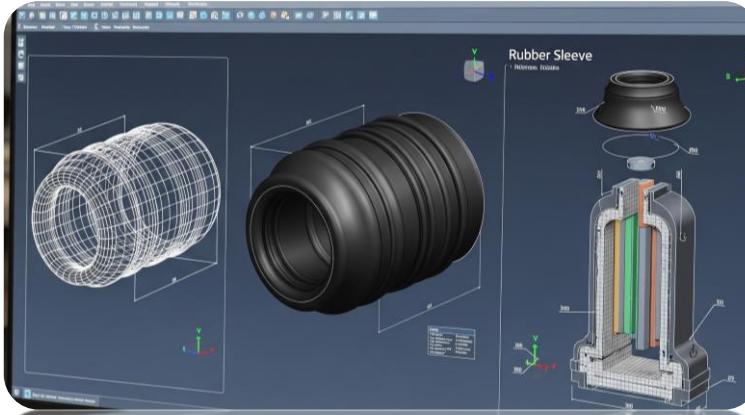
Skills

Research and Development
Interfunctional laboratory
Verticalized industrialization
Integrated production
Excellent manufacturing
Quality 0 PPM target

Expertises

multidisciplinary environment and passion for excellence

Research & Development



Interfunctional Laboratory



Products



Compound know how



Quality *0 ppm target*



ISO – IATF Certifications



Expertises

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Research & Development

Simulation / Design

Each product is the result of a **careful study** and **analysis process**, both in terms of functionality and type of material, in relation to its intended use. The components proposed by AGLA are studied and developed, with the support of **CAD/CAM/FEA software**, working in synergy with the customer, to fully satisfy the required performance.

Integrated Design

We work closely with the customer through **co-design activities**, technical simulations and feasibility studies. In this phase, the **design of the molds** and the production process is also defined, continuously updating the **PFMEA and DFMEA analyses** to minimize critical issues.

Prototyping and validation

In this phase, we proceed to build **functional prototypes**, to perform preliminary validation tests, on-site and at the customer's premises. Subsequently, we move on to **build Off-Tool prototypes** for reliability validation tests, on **the final application**.

Industrialization

CAD/CAM/FEA/CFD software, used in the previous simulation, planning and design phases, allow the **programming of series production lines**, based on the validated project, ensuring a reliable and stable process.



Expertises

multidisciplinary environment and passion for excellence

Interfunctional Laboratory

Laboratory

A complete **research laboratory**, equipped with **high-precision instruments**, periodically certified by the LAT centers, allows the necessary tests to be carried out on both the raw material and the finished product.



Metrology

Mitutoyo specific instruments for the measurement of K-Diameter, Shaft, Axial and Radial Runouts
Coordinate Measuring Machine (CMM)
Mitutoyo PH-3500 Profile Projector
Coord3 Tr25 SL Precision Tracer
Zeiss SURFCOM 1900SD3 Profile/Roughness Meter
Instruments for specific measurements of the Hirth profile
Keyence SR2000 with AutoID Network Navigator SW for checking the quality grade of DMC codes
Datalogic PowerScan reader plus Forza Smart Industry software for checking DMCs
Mitutoyo MeasurLink data management and statistical process control (SPC) software
OGP Smartscope MVP automatic measuring system with high-resolution camera



Mechanical characterization of metallic & polymeric materials

Microhardness tester CRASE HV 1 M STV
Hardness Check Drive hardness tester - Gibtire Instruments
Torsion bench / shaker INSTRON PD2
Dynamometer TEST GmbH f s 100 kN
Dynamometer MTS Criterion f s 10 kN
Brookfield DV-E Compression Set Digital Viscometer – Gibtire Instruments
Alpha Technology MDC-C Rheometer

Dimensional checks

Profile Projectors PH3500 Mitutoyo
Coordinate Inspection Machine RR61 Coord 3
Lathe Component Oscillation Control RS059

Metallographic inspection

Precision cutting machine HITECH EUROPE 300 S
Metallographic preparatory PRESI / HITECH EUROPE EP
Metallographic microscope LEITZ LABORLUX 12 ME
Stereomicroscope OLYMPUS SZX
Precision camera IDS uEye – image analysis

Metal and Rubber Expertises

multidisciplinary environment and passion for excellence

Products

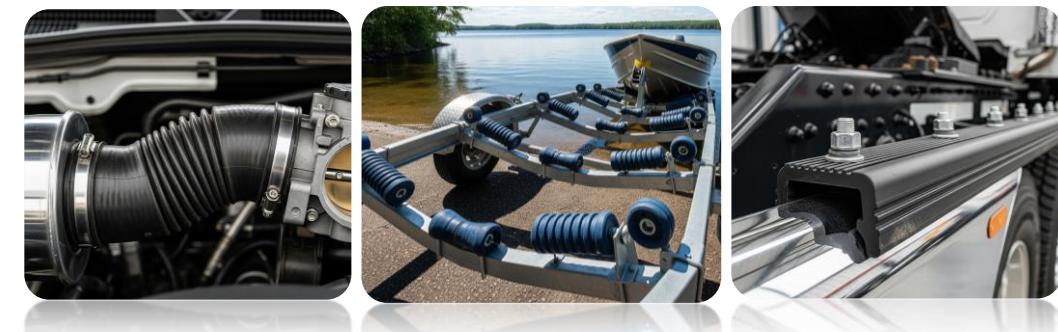
RotarySeals

Rotary Seals (ROS) are used in all applications where it is necessary to guarantee sealing on **rotating and/or oscillating shafts** and perform the dual function of preventing the loss of lubricating fluids and the penetration of water, dirt and contaminants.



Rubber bumpers

Their primary purpose is to **secure trucks** and can be used in parking lots. These products are relatively large in size and the rubber hardness is relatively firm, generally above 70 degrees, even 90 degrees. **Metal inserts** can be filled inside the rubber. Agla's know how is based on **co-design** with customers needs.



Rubber rollers

Used in various **industrial and logistics sectors**, they offer greater grip than plastic or metal. Good wear and impact resistance, ability to absorb vibrations, and the possibility to choice between different rubber compounds (natural, EPDM, nitrile, silicone) based on your needs.

Silent Blocks and bushing for elastic connections

Isolate two moving parts, such as the **engine and the chassis**, or the suspension arms and the frame, preventing **vibrations** and impacts from being transferred from one component to the other. This helps improve ride **comfort and vehicle stability**.

Rear door and tailgate seals

Extruded rubber seals designed to ensure a **perfect seal for rear doors** and **tailgates** of trailers, semi-trailers, and commercial vehicles. They provide protection against water, dust, and weather, ensuring maximum safety for the transported cargo.



Torsional Vibrations Dampers TVD

Agla's TVDs are sized to dampen 75% of the **resonance peaks of the crankshaft symmetrical alternating excitants**. The TVD is required to preserve engine functionality. AGLA produces **rubber and viscous TVDs**, with volumes of 4 million pcs/year.

Pulley

Agla manufactures a wide range of **pulleys**, for each type of accessory driven by the transmission of the **engine front-end**. At Agla we use the **cold-forming process** to produce pulleys in both **steel and aluminum**.

Metal and Rubber Expertises

multidisciplinary environment and passion for excellence

Products

Automotive On Road

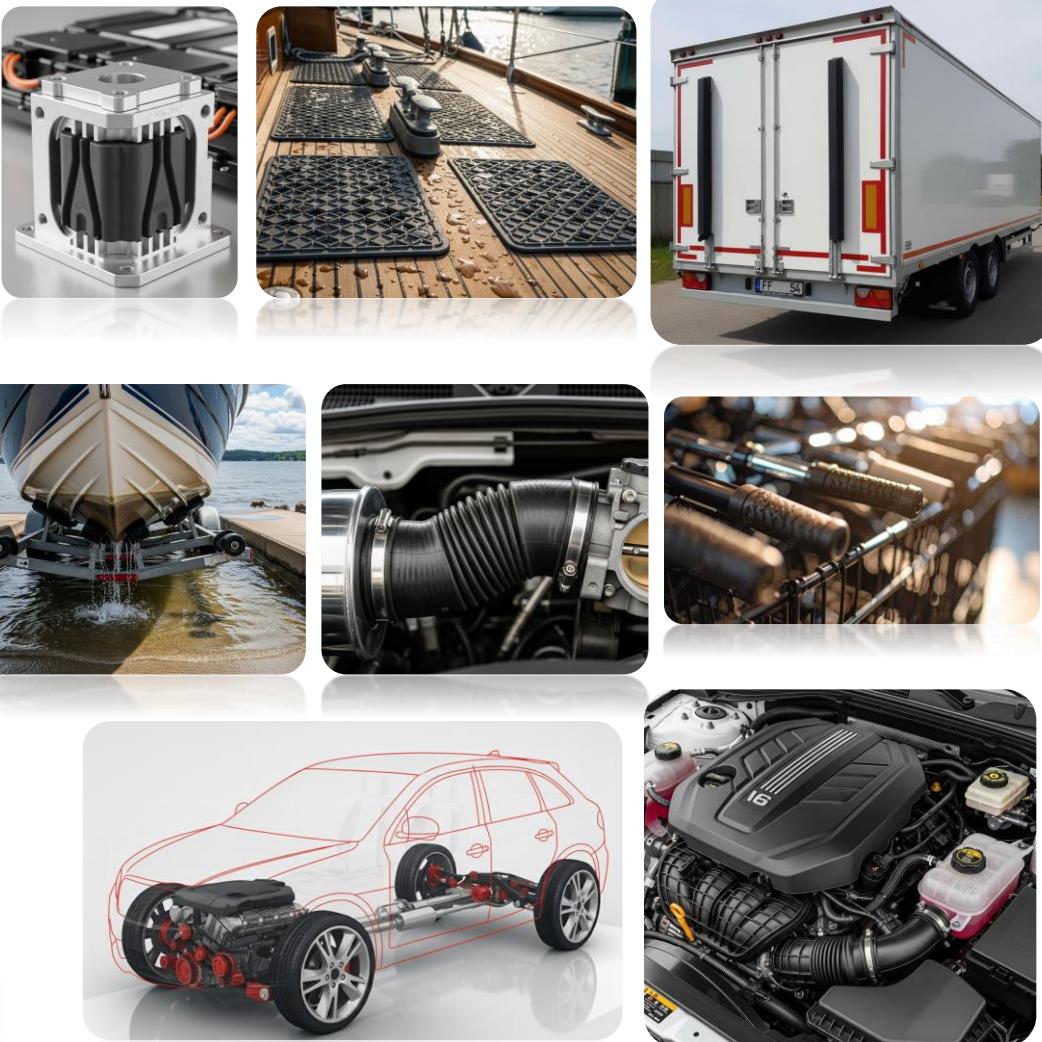
Agla pays particular attention to the **technological evolution of the market**, offering maximum support to the new needs of customers at all times, while maintaining firm roots with projects consolidated over time. Working with this in mind, we are able to offer **support on components with sophisticated design and with particular customer needs**.

Automotive Off Road

As for the On Road market, Agla pays the same attention to the technological evolution of the **Agricultural and Construction market**, always offering constant support to the current and future needs of its customers. We are able to offer maximum customization of products for the specific applications, which are required by this **particular market** and give full support in the **co-design phase**.

*Oil Pan Gaskets
Cylinder Head Gaskets
Intake Manifold Gaskets
Exhaust Manifold Gaskets
Valve Cover Gaskets
Cable Grommet Seals
Valve Guide Oil Seals
Rotary Seals / Shaft Seals
Shock Absorber Components
Complementary Bodywork Components
Soundproof Bumpers for Bodywork
Bellows and dust covers
Air Intake Manifold
Rings
Bushing*

*Oil Pan Gaskets
Cylinder Head Gaskets
Intake Manifold Gaskets
Exhaust Manifold Gaskets
Valve Cover Gaskets
Cable Grommet Seals
Valve Guide Oil Seals
Rotary Seals / Shaft Seals
Bellows and dust covers
Air Take Manifold
Rings
Load Support Pads
Rubber Couplings for auxiliary drive shafts
Rubber Bonnet*



Compound Expertises

Compound definition flow

Rubber and Compound

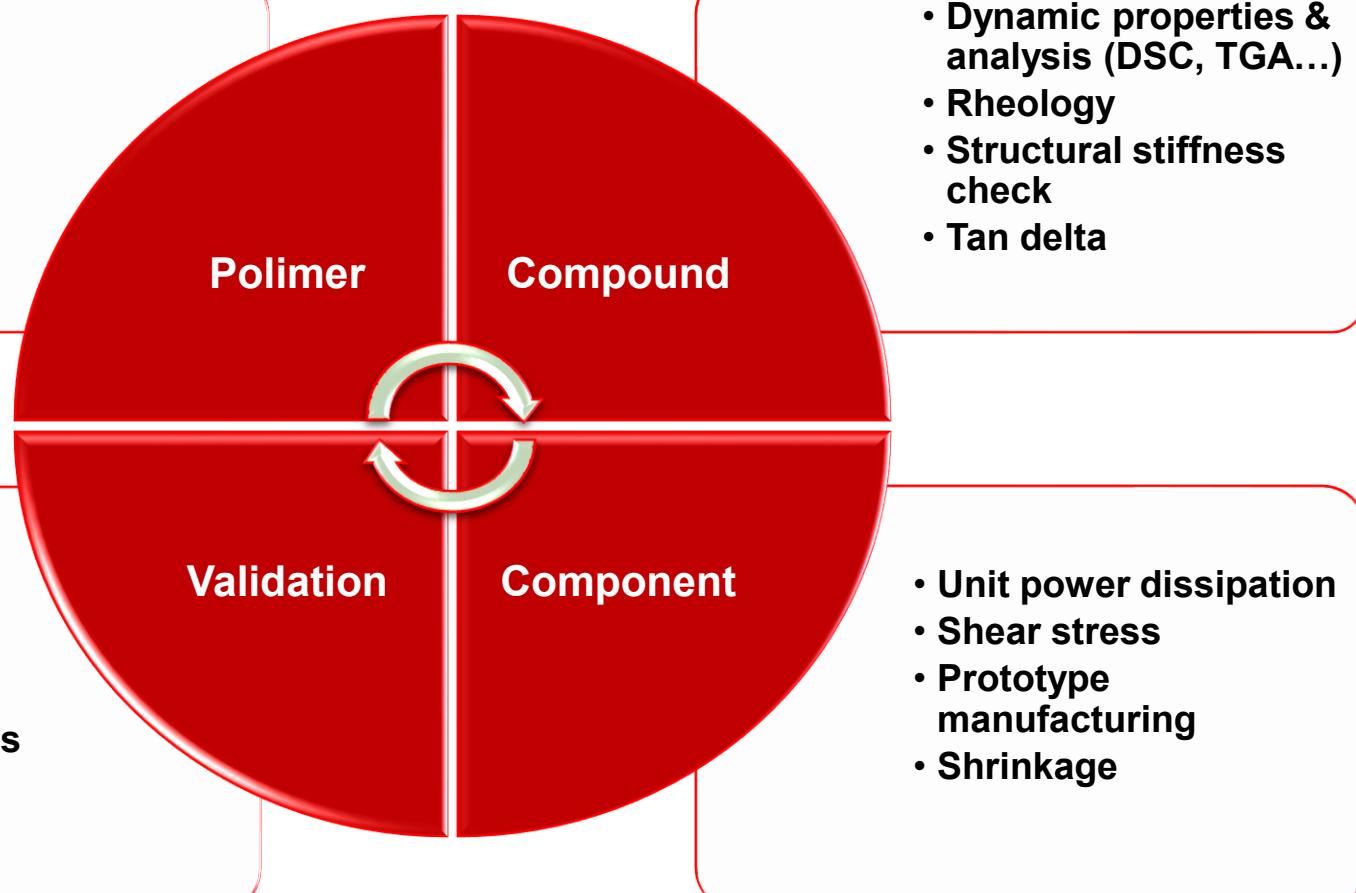
CR NR
NBR HNBR
ACM AEM
VMQ EPDM
FKM FVMQ
ECO FFKM

Other materials

TPE TPO
PEEK PVC
POM FOAM
And similar

Agla is specialized in technical rubber solutions
and we work with all the main elastomeric materials

- Damping definition
- Stiffness definition
- Thermal grade
- Shear stress
- Compression set



Expertises

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Vertical industrialization

Layouts

Agla's **guidelines** in designing a plant layout are aimed at improving overall efficiency and organizing equipment according to its purpose, and allow for the elimination of waste in material flows, also helping to make inventory management efficient.

Material flow

In the **optimization measures**, all material and flow relationships are considered, from the receipt of goods to the storage and picking areas, up to the delivery of the **finished product**.

Production Lines

In Agla, highly qualified **industrial engineers** collaborate with the customer to design and build **innovative production lines**, which allow them to operate in the most demanding industrial environments.

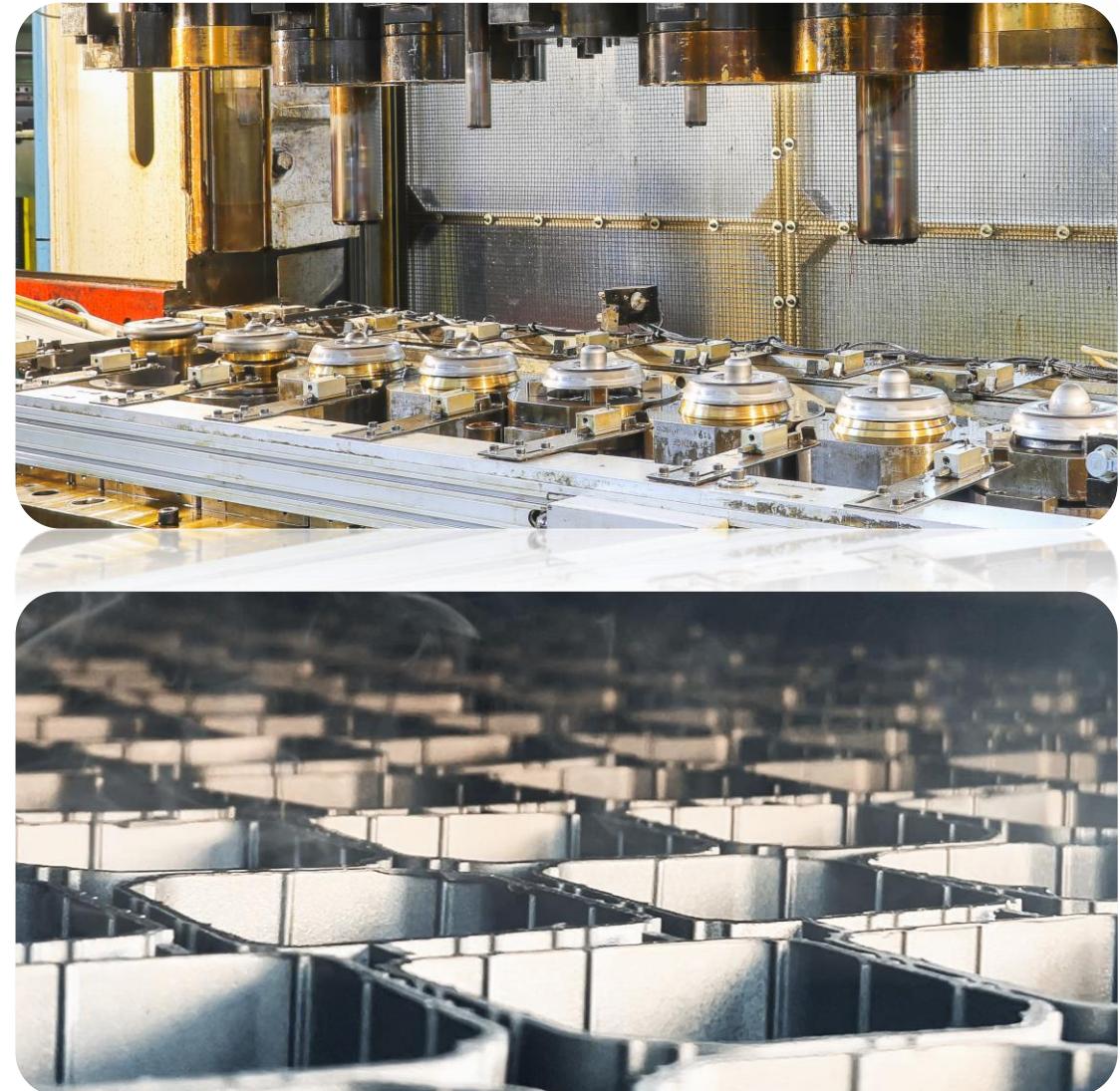
Equipment for Metal Forming

Agla is also able to develop, manufacture and offer a wide range of **metal forming tools**, **equipment** and **services** to meet the individual needs of our diverse customer base.

Competitive advantages

The **know-how** made available to the customer includes a focus on the study of **materials resistant to extreme conditions**, optimizing toughness and hardness, for applications subject to **vibrations, repeated stress and shock loads**.

Tailor-made projects, even complex and highly technical, guaranteeing a controlled and repeatable industrial process, suitable for medium-large batches with high reliability.



Expertises

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Manufacturing excellence

Cold Forming

Cold Forming is the main process with which Agla creates **metal components**. The optimization and continuous improvement of this type of processing has allowed the development of a low energy absorption process, a qualitative leap from an environmental point of view, compared to traditional operations.



Rolling

Our **multi-stage, opposed-roll rolling process** gives the material the desired shape and exceptional mechanical properties..



Welding

Laser technology allows us to obtain structurally suitable welds for the required performance. This process keeps temperatures under control outside the welding area and this makes it particularly suitable for products such as the **viscous damper**.



Machining

Agla develops and manufactures every single component in all phases, performing the processes that are necessary, with **cutting-edge technologies for milling and turning**, where a finish that requires this type of process.



Rubber molding/cutting

With **presses** from 150 to 1000 tons and the related Post Curing ovens, Agla is able to produce a wide range of **rubber products and silicone compounds**, both with **injection and compression technology**. The precision cutting technology of the rubber component allows us to offer both small gaskets and large manifolds for air and fluids, with **very high dimensional accuracy**.



KTL coating

The electrophoretic coating process of the metal parts allows AGLA to offer a finished product of high performance and aesthetic quality and high resistance to corrosion (1000 Hrs Salt Spray Test). Our KTL system is sized for capacity of 7'000'000 Piece/Year

Assembly

Our assembly phase involves a process characterized by the interaction between **operators and robots**, for a punctual and efficient **production chain**.

Automatic vision machine End Of Line

Agla has integrated several **automatic control machines** into its production process, ensuring numerous benefits in terms of **efficiency, quality, and competitiveness**: reduced errors, faster inspection, data traceability, high quality standards, reduced waste and returns, cost optimization, and flexibility.

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Quality 0 ppm target

Instrumentation

Agla's **Quality Control equipment** includes dynamic, computerized, non-contact optical control vision instruments.

Measurement and Control

Our specification includes **automatic Measurement and Control**, at 100% of the critical dimensions without mechanical contact. **Objective: 0PPM**

Analysis of measured data

BIAS and linearity analysis are the standard protocols we use for the evaluation of the acquired data. Product/process correlations are analyzed by **DOE experiment design** and **ANOVA analysis of variance**.

Defect isolation systems

The checks are carried out on the external surface, with control instruments and vision systems, while to check for any internal defects in the material, Agla has the training and skills to interpret tomography (X-ray instrumentation).



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Certifications

ISO 9001:2015



ISO 14001:2015



IATF 16494:2016





shaping
the future