

Company profile



Automation
Industrial Revamping
Artificial Intelligence
Robotics

Technology to simplify complex process.

about us

The inauguration of **Alping Asia Co. Ltd.** signifies our commitment to expanding the presence of Alping Italia in the Asian market, and to providing improved services to our customers in Asia.

The Austrian company Alping GmbH, founded in 1996 by Mr. Gianfranco D'Orlando, relocated to Italy in 1999, becoming **Alping Italia Srl**, a solid reality today. The company, situated in Pavia di Udine in the steel belt of northeastern Italy, specializes in industrial automation, robotics, machine vision, and artificial intelligence. It distinguishes itself through cutting-edge solutions, the result of the ingenuity of its highly specialized technicians.

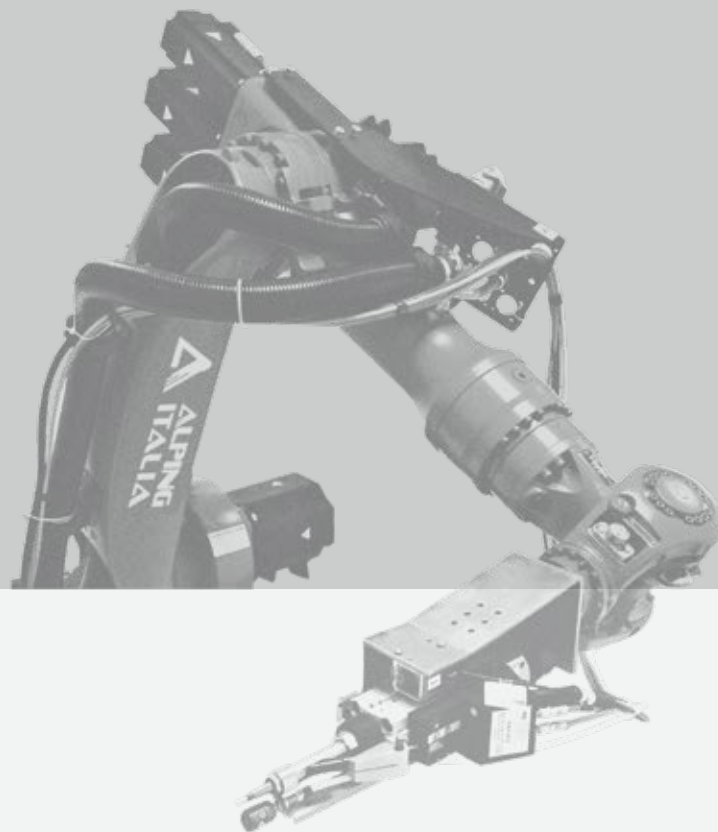
our office

Thailand.



Innovation as a way to the future.

Alping Asia strives to be constantly in step with the times, pursuing technological progress and envisaging changes, promoting innovation, and offering reliable and quality products and services. Its solutions are effective, efficient, and economically sustainable, and made according to customer needs. Industrial automation, in all its facets, is the soul of the company that over the years has gained skills and recognitions in the development of hardware and software systems, specializing in process control systems for different industrial environments. The need for modernization in the manufacturing sector drives the company's quest to explore new fields, such as robotics and machine vision, specializing in the creation of highly technological and progressively more flexible solutions, aimed at simplifying, and optimizing industrial production processes.



Industrial revamping.

The continuous technological progress makes industrial revamping compelling for companies that want to remain competitive. Time and again, the complete replacement of a production plant's machinery is not only expensive, but also complex and not always necessary since the mechanical parts last longer than the electronic ones. It follows that, updating automation and control systems and modernizing the electrical grid of a plant, prove to be a valid, economical, and effective solution.



BETTER RESULTS WITH EXISTING RESOURCES

Modernizing a plant involves investing in the renewal of the current machinery thus making the most efficient use of the existing resources. Upgrading control and supervision systems, overcoming problems with drives obsolescence, and adapting to safety standards will in turn increase performance and operational efficiency, encouraging a company to look to the future with renewed confidence.



REVAMPING SERVICES AND TURNKEY INSTALLATION

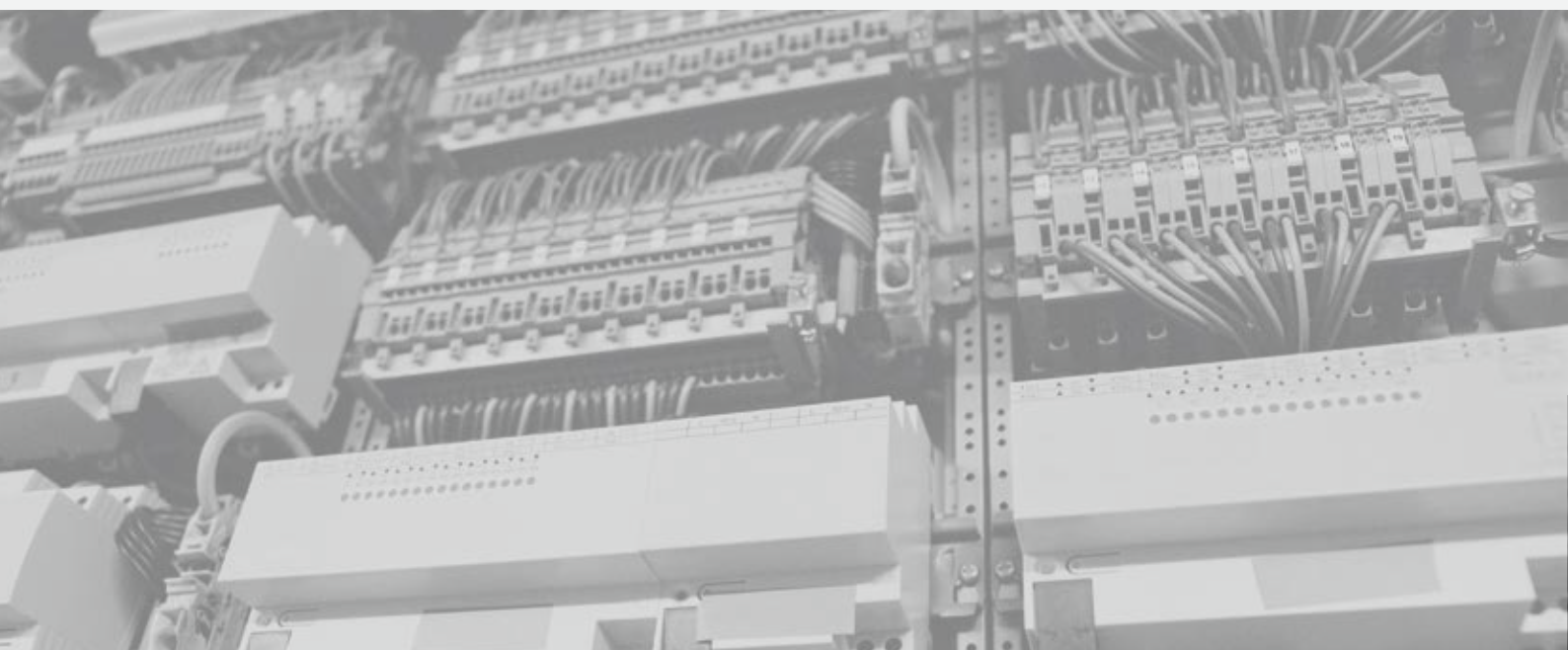
Industrial revamping, over and above that of individual machines, can be extended to entire industrial plants to restore them to optimal production levels. Alping Asia offers industrial revamping services, as well as interventions directed at replacing and remaking electrical panels, PLCs, and obsolete automations (complete with cable installation, on-board machine ducts, software solutions, etc.), ensuring:

- Careful planning of plant shutdowns to minimize production impact.
- Identification of critical processes and implementation of integrated improvement solutions.
- Construction and assembly monitoring.
- Installation and commissioning carried out by Alping Asia's specialized work force.
- Turnkey installations that also include auxiliary activities, which are not strictly electrical, or automation based.

Our services.

HARDWARE DESIGN

This service includes all activities concerning the feasibility study, analysis of technical solutions and the related design of the systems. Our electrical and automation projects are developed on iDEA and SOLIDWORKS platforms and provide full compliance with current legislation and customer requirements.



Alping Asia has an in-house electrical engineering department with a dedicated workshop for the manufacturing and cabling of low voltage electrical panels and on-board connection systems. It also supplies the material for plant engineering. Furthermore, it offers a full service for the complete or even partial assembly of automated systems, that is, from its supervision to all the operational phases.



SOFTWARE DESIGN

The company, thanks to its competence, flexibility, and planning, can create automation applications for various process control systems:

1. PLC

The software developed by our technical department meets the main demands of the Italian and international market. The experience gained over the years has warranted the company the ability to develop software for the following automation systems:

- SIEMENS STEP 5/7, TIA Portal
- ALLEN BRADLEY - PLC5, SLC500, Flexlogix and Control Logix 5000
- OMRON - Compact series CJ1 and CPM, modular series CQM, C200H, NJ
- BECKHOFF TwinCAT
- CODESYS

2. Supervisory

The development of software for area supervisors is implemented on the following design platforms and can be utilized on both workstations and servers:

- SIEMENS - WinCC, TIA Portal
- ALLEN BRADLEY - RSVIEW - Factory Talk
- ASEM - UNIQO, Premium HMI
- WONDERWARE - InTouch
- KITE - PanelExpress
- INTELLUTION - Fix DMACS

3. Robotics

The technical department develops software for anthropomorphic robots and palletisers of the most popular products:

- KUKA
- KAWASAKI
- COMAU
- ABB
- DENSO

Our services.

PC AUTOMATION AND SUPERVISION

In addition to PLC automation applications we also provide software design and development services for use with Microsoft OS and C# platform.

Alping Asia also operates as **iba** technical specialist.



COMMISSIONING

The company can provide qualified personnel for the commissioning of plant engineering projects that have either been designed in-house or developed by third parties. This service applies to both short tasks and long-term assignments, whether in Thailand or abroad.



Areas of interest.



Iron and steel



Energy



Automotive



Logistic



Paper and packaging



Raw materials processing

Implementing ideas in the industrial processes.

Alping Asia simplifies complex industrial processes designing modern, safe, and effective solutions that set the company apart: starting from the scrupulous drafting of the initial project, identifying the most suitable materials to implement the proposed automation system to then follow with the commissioning, the start-up and finishing up with the fine tuning of the system. Finally, providing a solid after sales service. Furthermore, Alping Asia can attend to existing plants to correct problems that could cause production stops with harmful consequences for productivity.



Industrial safety is a fundamental matter for all companies: Alping Asia's cutting-edge technologies make it possible to create automated systems that can be managed remotely, therefore minimizing or stopping altogether operators' physical presence in hazardous processes thus greatly reducing injury.

Our solutions.

MACHINE VISION SYSTEMS

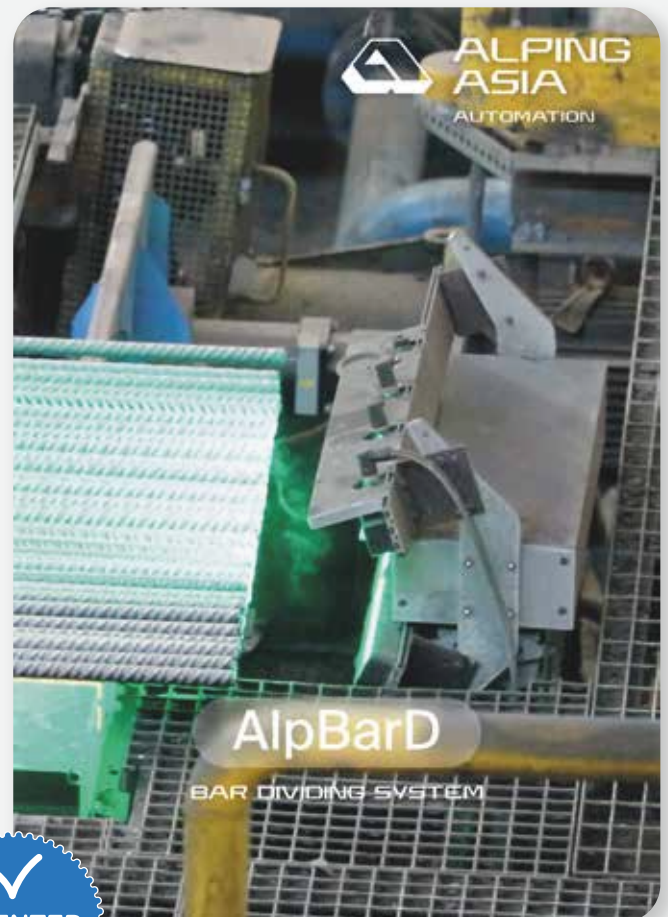
The use of systems capable of carrying out visual and dimensional checks is essential to guarantee the maximum quality of products. Alping Asia has developed high-speed machine vision systems that can be easily integrated into the production line, thereby allowing for immediate verification of product conformity, and thus reducing errors and optimising the production process.

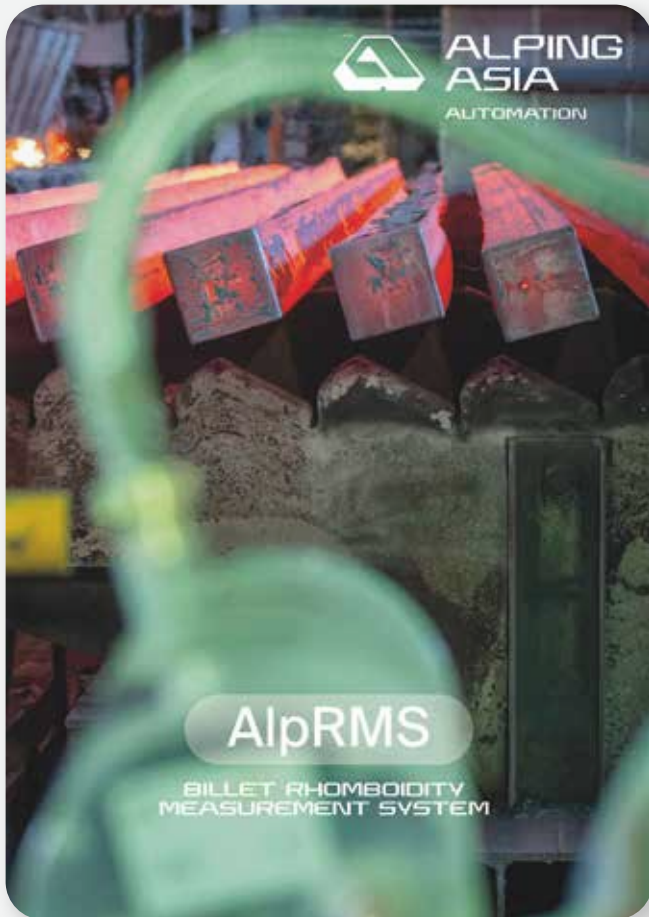




AlpBarC is an advanced Machine Vision system designed for precise **counting of steel bars**. Leveraging sophisticated lighting and state-of-the-art machine vision technology, AlpBarC ensures accurate counting by intelligently analysing the dimensional characteristics of steel bars in real time. This innovative system goes beyond traditional counting methods, providing a reliable solution for industries requiring precise inventory management and quality control.

AlpBarD is a cutting-edge system designed to enhance the **separation capabilities of steel bars**, seamlessly integrating with the intelligent bar counting system provided by **AlpBarC**. Through the utilization of advanced machine vision technologies, AlpBarD excels in efficiently and accurately separating a defined number of bars in industrial steel processes.

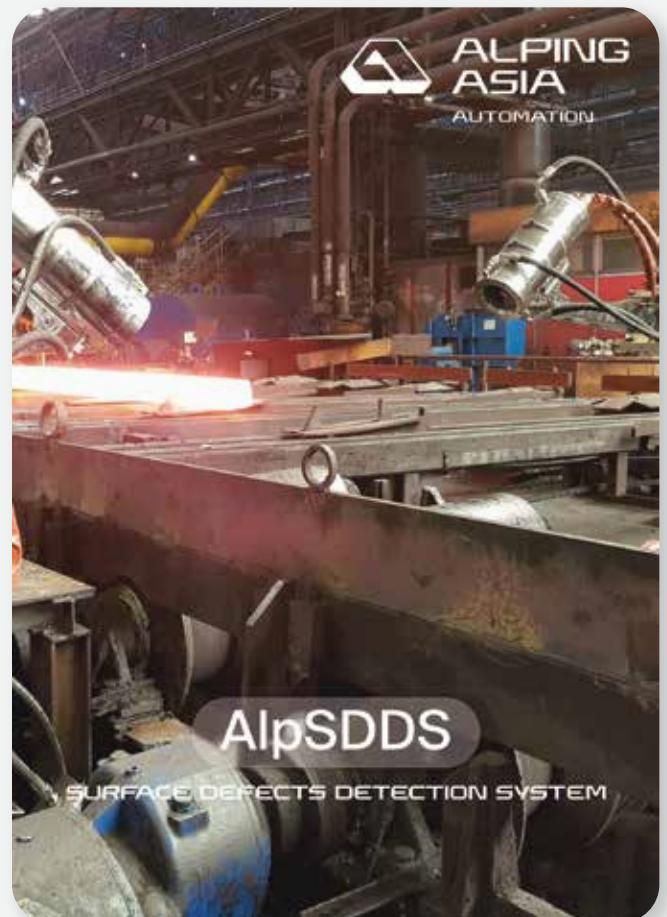




AlpRMS is an innovative system based on Machine Vision aimed at **identifying** the presence of the **typical rhombic distortion in billets**.

By automatically calculating dimensional values, through image processing, it can provide timely alerts and notifications in case of a billet's noncompliance.

AlpSDDS detects the presence of **defects on the surface of moving materials**, pinpoints their position along the length of the product to further enable automatic positioning at the identified areas; it also makes information about the defects available for statistical purposes, analysis of the process and quality control.

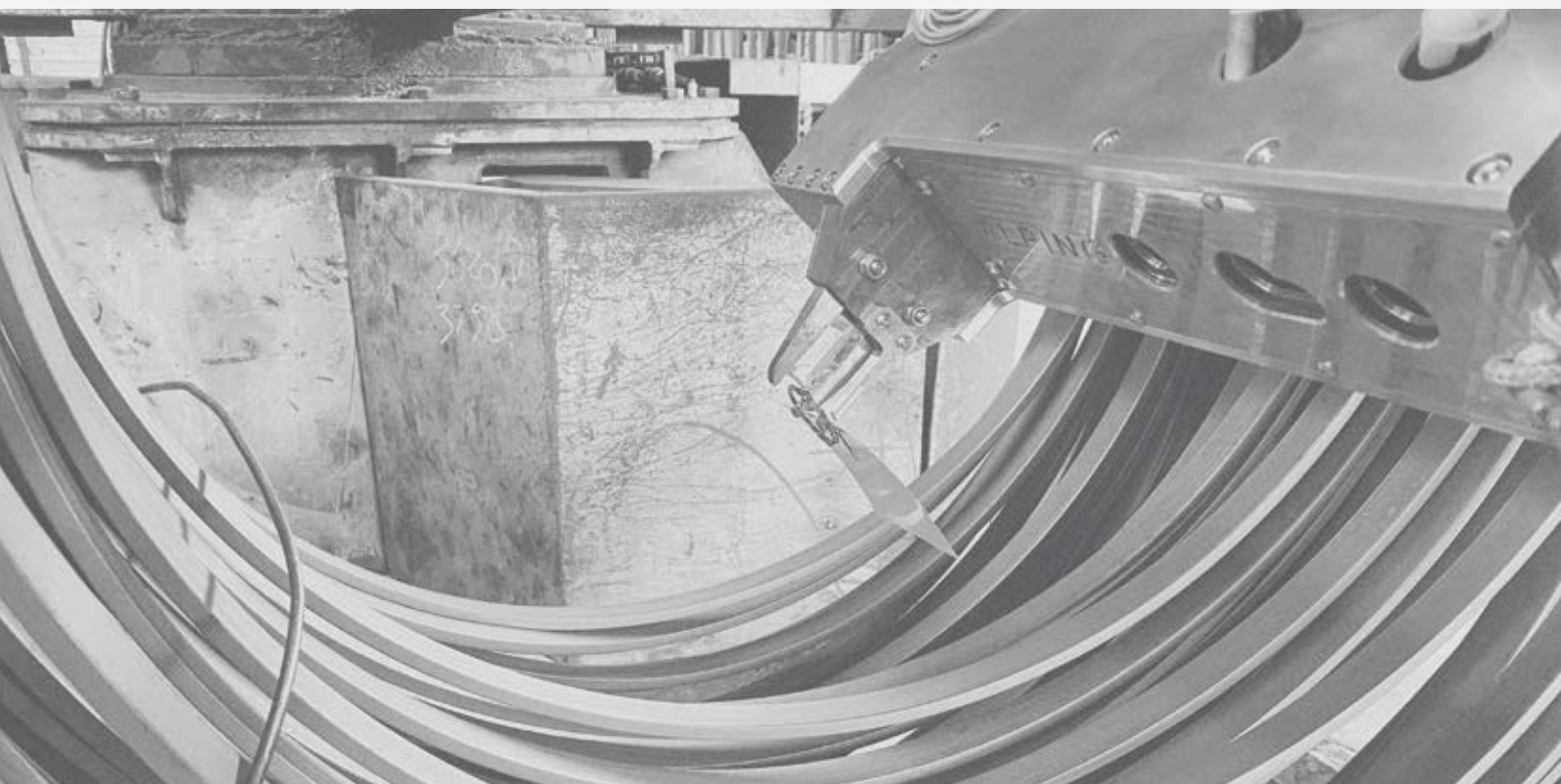


Our solutions.

ROBOTISED SYSTEMS

Integrating industrial production with robotic solutions has become a necessity nowadays and Alping Asia's robotic systems fulfil this growing demand. Robotised systems, thanks to their improved flexibility and reliability, as opposed to human labour, are a secure investment and a guaranteed increase in productivity and human safety.

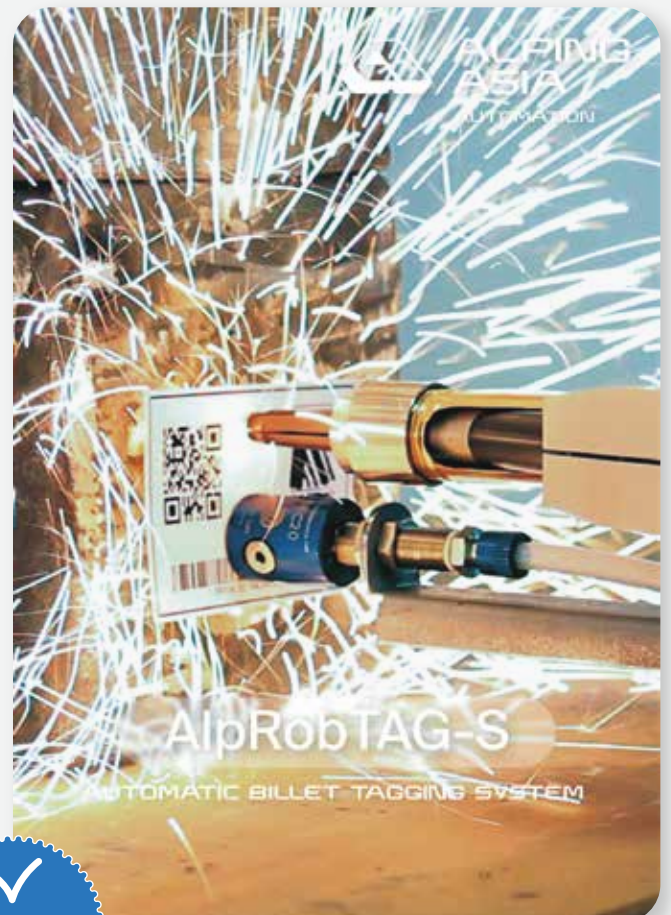
Our versatile systems can be easily integrated into production lines according to one's needs, even in particularly dangerous environments. Alping Asia has the best staff for the design and implementation of robotic cells.





AlpRobTAG-C represents the most advanced solution for **tagging wire rod coils**. It uses a very effective ringing system which fixes a tag on the coil's fastening wire preventing it from sliding across. The use of Machine Vision makes it possible to identify a portion of the fastening wire inside the coil that is most suitable for anchoring the tag.

AlpRobTAG-S automates the **billet tagging** procedure **by** means of an **anthropomorphic robot**, a welding process and artificial vision technology. The system is able to accurately recognize the location of the billets and detect the existence of any obstacles to identify the optimal welding point.





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