

ATIEUNO MAGAZINE 4.0

ATIEUNO AT ALUMINIUM 2024 Driving Innovation and Sustainability in the Aluminium Extrusion Industry

VISIT OUR BOOTH
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Aluminium 2024: A Global Stage for Innovation and Sustainability

This October, the world's aluminium industry will come together in Düsseldorf for Aluminium 2024, the leading international trade fair dedicated to one of the most versatile and impactful materials of our time. Recognized as the industry's most important B2B platform, Aluminium 2024 will spotlight the entire aluminium value chain, covering key sectors such as automotive, aerospace, construction, electronics, packaging, and transportation.

This event unites producers, processors, end users, and technology suppliers from over 100 countries, offering unparalleled opportunities for knowledge exchange, networking, and showcasing cutting-edge innovations processes, and the development of new alloys.

Overall, the aluminium industry is poised for growth driven by its applications in automotive, construc-

tion, and packaging sectors, coupled with advancements in recycling and sustainable production practices. Under the theme **"Sharing a Vision"**, the event will focus on the most critical topics shaping the future of the aluminium industry: **Sustainability, Recycling, Circular Economy, Transformation, and Advanced Technologies.**

These themes are more than just industry buzzwords—they represent the challenges and opportunities that will define the aluminium sector in the years to come.

Aluminium's role as a game changer in addressing climate change, resource conservation, and sustainable development will be at the heart of the discussions, making this trade fair a must-attend event for anyone involved in the industry.

Focus Topics at Aluminium 2024

Aluminium 2024 will spotlight critical areas that are driving the future of the aluminium industry, offering insights into the latest trends and innovations.



Sustainability: Climate-Neutral Aluminium

The focus on sustainability will highlight how aluminium can enable climate-neutral production and support circular economies through innovative recycling practices, contributing to a more sustainable future.

Digitalization: Enhancing Efficiency

This is where our expertise truly stands out. As a leader in software solutions, we are deeply invested in digitalization, focusing on enhancing the efficiency of production processes across the aluminium supply chain. At Aluminium 2024, we'll showcase how digital tools and Industry 4.0 solutions can revolutionize manufacturing.



Additive Manufacturing: Expanding Capabilities

Additive manufacturing, including 3D printing, is unlocking new possibilities by combining aluminium's material strengths with design freedom. This area still holds vast potential for innovation, which will be highlighted at the fair.

Building and Construction: Sustainable Urban Growth

As urban populations rise, aluminium's role in sustainable construction is increasingly vital. The exhibition will emphasize aluminium's use in eco-friendly building solutions that support the development of smart cities.



These focus areas underscore aluminium's pivotal role in driving sustainability, innovation, and efficiency in the industry's future.

Atieuno at Aluminium 2024: Driving Innovation and Fostering Collaboration

Atieuno is eager to participate in Aluminium 2024, not just to showcase our latest technological advancements, but also to engage with industry leaders and experts in meaningful dialogue. This event offers us a unique opportunity to connect with peers, exchange ideas on the challenges we face, and explore new opportunities that can drive the aluminium industry forward professionals from over 50 countries to explore the latest advancements in aluminium extrusion technology.

Our company will be presented by our Marco Bosio, General Manager, Marcelo Aiello, Marketing & Sales Director, Pierpaolo Longhi, CFO & Account Manager, Martina Pedretti - Marketing & Sales Assistant. They will be presenting our latest technological developments specifically designed to enhance efficiency and sustainability in the aluminium extrusion industry.



Why Visit our Booth?

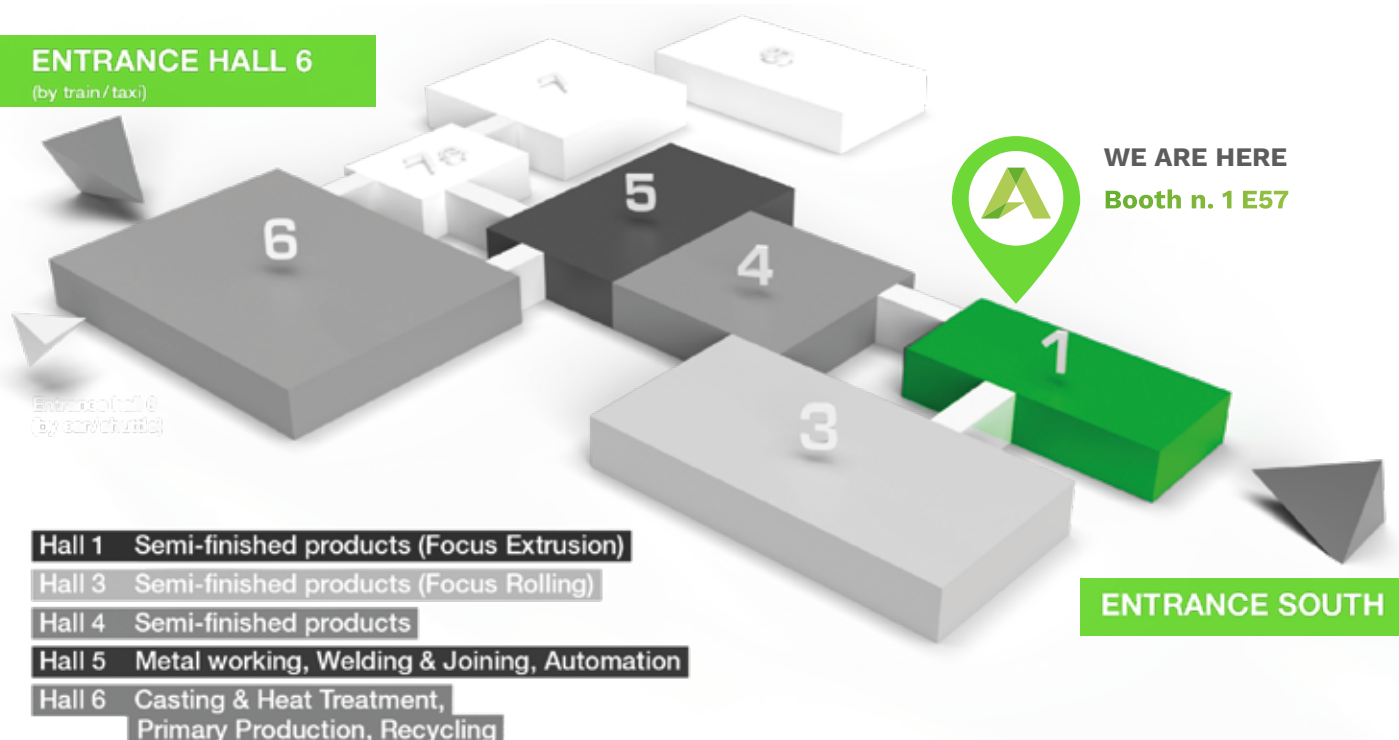
Exploring Industry 4.0 and Beyond

Our digital solutions are at the forefront of integrating Industry 4.0 technologies into aluminium manufacturing. Our technology facilitates the optimization of aluminium manufacturing, paving the way for more efficient and flexible production process. We will be showcasing how our software can help the digitalization of the production, enabling greater efficiency and transparency across the entire supply chain. Moreover, our software solutions support manufacturers to achieve their sustainability goals by reducing energy consumption and minimizing waste.

We believe that collaboration is the key to overcoming the challenges of today and seizing the opportunities of tomorrow. Join Us at Aluminium 2024 to explore together how our solutions can help you navigate the challenges of sustainability, efficiency, and technological transformation!

ENTRANCE HALL 6

(by train/taxi)



New Project: Breakthrough in Aluminium Profile Classification

In a pioneering collaboration, Atieuno is pleased to present a new project with **Diego Cruz Alfonso**, Die Shop Manager at Aluminio de Baja California, S.A.. This initiative focuses on integrating the groundbreaking protocol developed and tested by Diego Cruz Alfonso into Ulixes, our advanced software solution that enables quick checks on the feasibility of aluminum profiles and performs extrusion simulations to determine the optimal extrusion parameters.



The Project Overview

The core of this collaboration is the development and integration of an automatic calculation protocol within Ulixes. This innovative algorithm leverages eight key characteristics of aluminium profiles to classify them according to the level of difficulty involved in their production. The primary aim is to streamline and enhance several aspects of the aluminium extrusion process, bringing unprecedented efficiency and precision to the industry.

Key Characteristics for Profile Classification

The algorithm evaluates eight main characteristics to determine the difficulty of producing aluminium profiles: alloy classification, allowable tolerance, circumscribed circle diameter, profile type, flap-to-extrusion ratio, profile thickness and complexity, design features, and types of finishes like anodizing and painting. These factors collectively aid in assessing production challenges and planning accordingly.

The protocol has been previously tested at Aluminio de Baja California, S.A.'s extrusion plant. After its integration into Ulixes, further testing will occur there to ensure it is effective and beneficial in a real-world setting. We invite our readers to follow us for further updates on this exciting project and its impact on the industry.

Stay tuned for more updates on this exciting collaboration in future editions of Atieuno Journal.

Benefits of the Integration

Since the implementation, Gulf Extrusions has seen significant improvements:

- 1. Easier and Efficient Feasibility Studies:** By classifying profiles based on production difficulty, feasibility studies become more streamlined, allowing for quicker and more accurate assessments.
- 2. Precise Commercial Quotations:** The ability to gauge the complexity of profile production enables the preparation of more accurate and competitive commercial quotations.
- 3. Optimized Production Planning:** Understanding the difficulty levels of profiles aids in better scheduling and resource allocation, ensuring smoother production workflows.
- 4. Informed Die Maintenance:** The classification system provides valuable insights to the die maintenance shop, allowing for proactive maintenance and better tooling management.



Visit our website
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