



Customer Technical Support (CTS), Hydro Aluminium Asia  
– Your Partner in Excellence





# Your Partner in Excellence

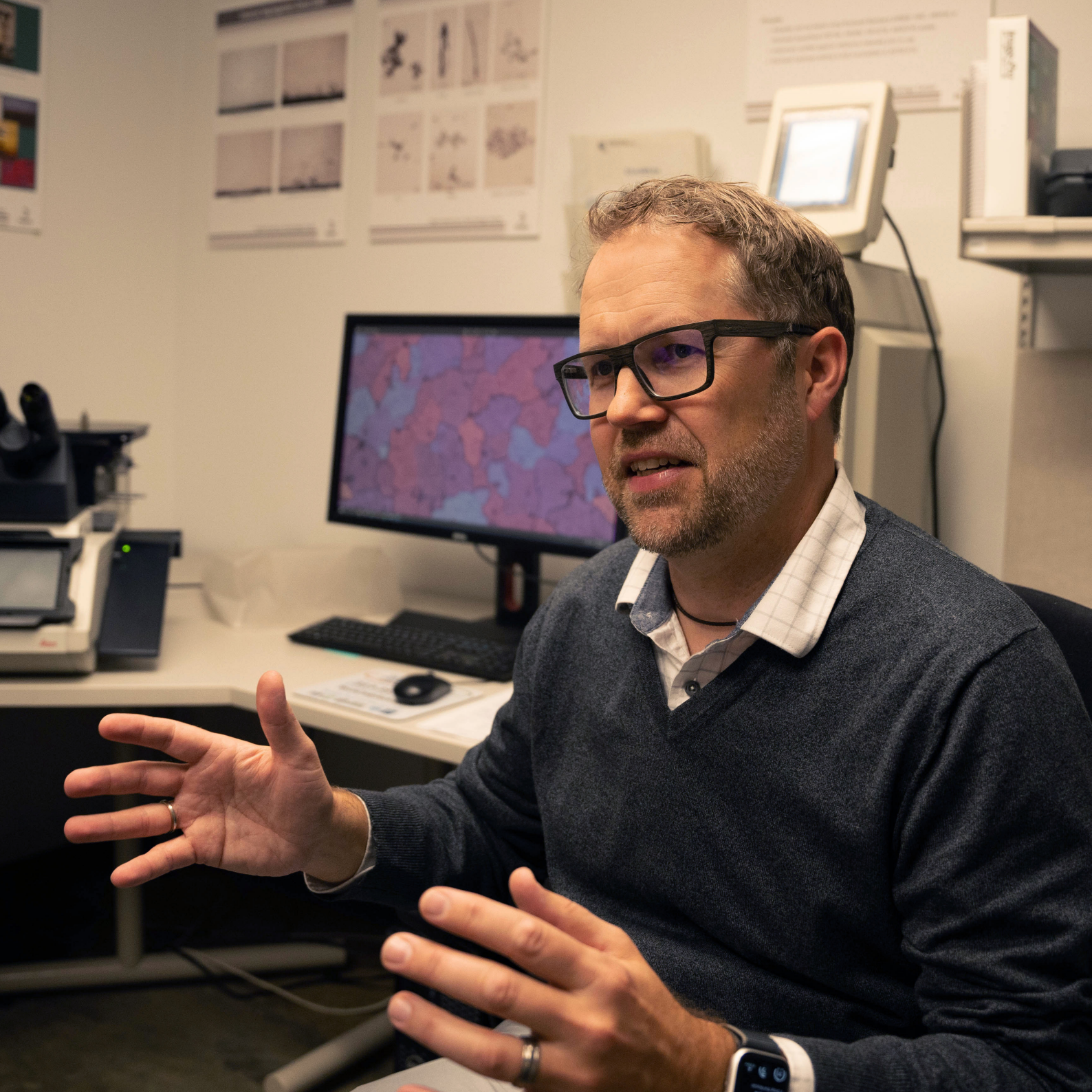
Hydro is a leading aluminium and renewable energy company committed to a sustainable future. Our purpose is to create more viable societies by developing natural resources into products and solutions in innovative and efficient ways.

Since 1905, Hydro has turned natural resources into valuable products for people and businesses, creating a safe and secure workplace for 32,000 employees in more than 140 locations and 42 countries.

Hydro Aluminium Asia has in-depth knowledge and unparalleled competence in the aluminum market. Our local Customer Technical Support (CTS) division is dedicated to delivering insights and expertise to our customers in the Asian region with the utmost efficacy.







# Comprehensive Support Services

|   |                                 |   |
|---|---------------------------------|---|
| ✓ | Tailor-made alloy design        | Custom-made for specific end application requirements                 |
| ✓ | Process evaluation              | Including extrusion process and melt cleanliness assessment           |
| ✓ | On-site trials                  | Extrusion and casting trials at customer's site                       |
| ✓ | Quench box evaluation           | Optimization for the extrusion process                                |
| ✓ | Troubleshooting and reporting   | In-depth analysis with actionable improvements and failure analysis   |
| ✓ | Technical training and seminars | Covering metallurgy, extrusion, casting and material characterization |
| ✓ | Modeling and simulation         | Advanced tools for predictive analysis                                |
| ✓ | Metal source audits             | Expert evaluation to enhance operational efficiency                   |
| ✓ | Partnership                     | Technical, academic and joint R&D                                     |
| ✓ | Casting trials                  | Industrial and small-scale casting trials for alloy development       |
| ✓ | Technology watch                | Updates on the latest industry innovations                            |



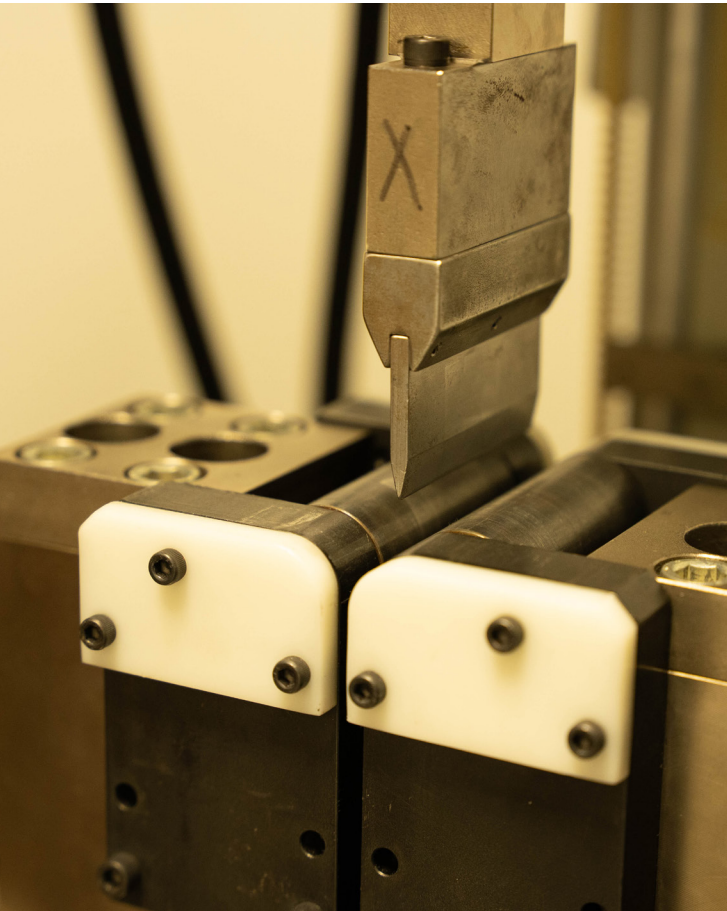
# Equipment and Tools

CTS Asia is equipped with state-of-the-art tools and has access to Hydro's global network of laboratories and R&D centers. This unique combination enhances our ability to support the improvement of customer product quality and production processes.

# Automotive and Recycling Competence

Hydro has a global network of recyclers and extensive technical expertise in the automotive and recycling industry. We continuously develop innovative automotive and recycling products for a wide range of automotive customers.

CTS Asia offers automotive support from the design stage, alloy selection, prototyping, testing, and qualification process. On request we facilitate trial production of test materials to fine-tune performance in compliance with customer processes and application requirements.



## Capabilities Include

- ✓ Melt cleanliness evaluation, including inclusion (PoDFA) and hydrogen measurement
- ✓ Metallography investigations through optical and scanning electron microscopy (SEM)
- ✓ Mechanical testing, including tensile, bending, hardness, crush testing, fatigue, and hot deformation
- ✓ Corrosion testing
- ✓ Surface characterization (metallography and topography measurement)
- ✓ Trial casting for extrusion billets and high pressure die casting (HPDC) components
- ✓ Chemical analysis using optical emission spectroscopy

## Our Services Include

- ✓ Alloy selection and trials for recycling-friendly alloys
- ✓ Qualification support
- ✓ Knowledge-based global support on sustainability, CO2 footprint, and environmental topics





*Industries that matter*

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