

# Extrusion Ingots



HYDRO



Your  
long-term  
and reliable  
casthouse  
partner

# Building progressive partnerships

With more than a century of experience from developing natural resources into products that help build a more viable society, Hydro is today one of few aluminium suppliers that can truly say that we are long-term and reliable.

The best long-term results are those achieved by building strong customer relationships based on shared knowledge, close cooperation and the provision of customised services.

We help to satisfy our customers' needs by supplying the resources, services and high-quality input materials they require to deliver on their promises and meet challenging market developments.

Progressive partnerships create optimum products, which help to improve performance and ultimately the bottom line.



## Our standard alloys

Alloy	(DIN)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										Each	Total
107070	-	0.05-0.08	0.17-0.23	0.01	0.01	0.01		0.02	0.02	0.02	0.10
137070	-	0.05-0.08	0.17-0.23	0.01	0.005	0.01		0.02	0.003	0.02	0.10
300370	-	0.17-0.22	0.53-0.63	0.06-0.10	1.10-1.25	0.02		0.03	0.02	0.02	0.10
606015	F19	0.36-0.41	0.17-0.23	0.03	0.03	0.40-0.45	0.02	0.03	0.02	0.02	0.10
606020	F20	0.36-0.41	0.17-0.23	0.03	0.03	0.45-0.50	0.02	0.03	0.02	0.02	0.10
606035	F22	0.40-0.45	0.18-0.23	0.03	0.03	0.45-0.50	0.02	0.03	0.02	0.02	0.10
606090	F25	0.50-0.55	0.18-0.23	0.03	0.03	0.50-0.55	0.02	0.03	0.02	0.02	0.10
610640	F26	0.45-0.50	0.18-0.23	0.10-0.15	0.08-0.14	0.50-0.53	0.02	0.05	0.02	0.03	0.10
600540	F27	0.58-0.63	0.18-0.23	0.10-0.20	0.12-0.20	0.53-0.58	0.08	0.03	0.02	0.02	0.10
608250	F31	0.95-1.05	0.15-0.25	0.03	0.50-0.57	0.63-0.70		0.03	0.02	0.02	0.10

*Hydro has developed a range of standard alloys with outstanding strength properties. Other alloys and alloys for special purposes are also available. Contact your local sales office for further details.*

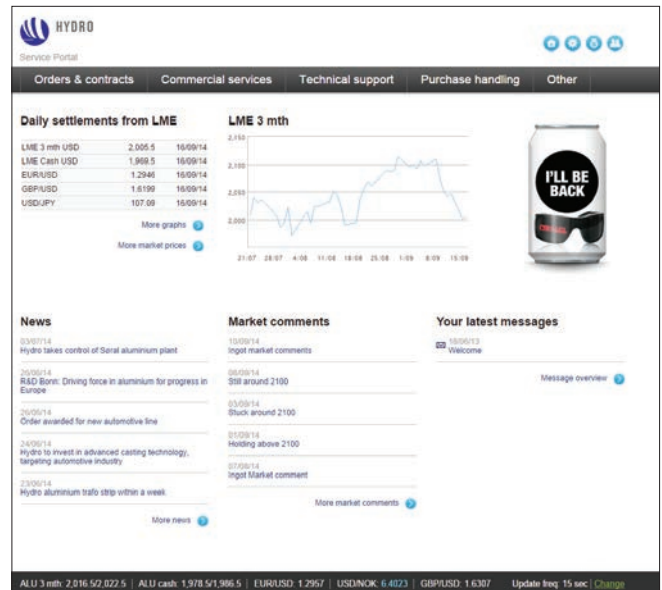
# Closer to the customer

We continuously increase the efficiency of our production systems and improve our range of services to meet our customers' individual requirements. Our regional market teams are close at hand to provide fast and professional customer service. Each team can provide the following services:

- Technical support and access to R&D resources
- Commercial services and market information
- Scrap conversion

These dynamic services are reflected in our European Hydro Billet Plus bonus programme. Hydro Billet Plus offers customers Hydro's know-how to support and enhance their value creation. The greater the business activity between Hydro and the customer, the more comprehensive the level of technical and commercial services becomes.

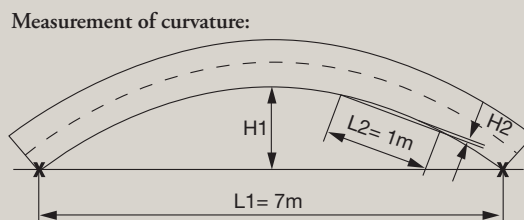
Many of our services are accessible 24/7 via our on-line customer portal. This easy-to use facility gives customers added flexibility and helps to simplify their daily working routines. Customers can get an overview of their contract details, material certificates and up-to-date transport information, place



new orders, carry out pricing and take advantage of our broad range of customised services. These optimised solutions add further value and help build and reinforce customer relationships.

# Diameters and dimensions

Diameter	Tolerances <sup>1</sup>	Available lengths <sup>3</sup>
mm	mm	Short lengths: 400-1600 mm Long lengths: 3500 and 7000 mm
152 <sup>2</sup>	+0/-2 and +1/-0	
178	+0/-2	
192	+0/-2	
203	+0/-2	
215	+0/-2	
228	+0/-2, +/-1 and +2/-1	
247	+0/-2 and +/-1	
254	+0/-2	
272	+0/-2	
279	+0/-2	
305	+0/-2	
317	+0/-3	
348 <sup>2</sup>	+0/-3	
382 <sup>2</sup>	+0/-3	
405 <sup>2</sup>	+0/-3	



H1 max = 15 mm

H2max = 2.5 mm

## Squareness

Sawn ends squared to  $90^\circ \pm 0.5^\circ$

- <sup>1</sup> The tolerances given are valid for 6xxx alloys.
- <sup>2</sup> Availability is subject to mutual agreements.
- <sup>3</sup> Certain lengths are not available in all diameters. Contact your local sales office for details.



# Quality and environmental awareness

Our advanced technological expertise in extrusion ingot casting ensures an exceptionally high standard of sustainable quality in all our products. Consistent high metal quality is secured by using top-grade input materials and by the efficient cleaning of the melt during production. All alloys in our product range have been developed to combine high extrudability with excellent performance in the finished products.

Over the years, Hydro has become one of the largest suppliers of extrusion ingots in the world.

Converting our customers' process scrap into new top quality extrusion ingots is economically and environmentally beneficial for all parties, helping to optimise customer scrap flows.

Our unique network of local production facilities allows us to remelt a wide range of scrap grades to Hydro's stringent quality and environmental standards. This enables us not only to be closer to our customers but also helps to increase flexibility, reduce lead times and achieve on time delivery.

Our constant focus on quality and environmental awareness is fully documented in our ISO 9001 and ISO 14001 certificates.

The Registration, Evaluation and Authorization of Chemicals (REACH) is legislation, which governs the handling of chemical substances throughout the EU. REACH entered into force in 2007, aiming at protecting human health and the environment. Hydro is a member of the Aluminium REACH Consortium and on track with the pre-registration process for all relevant substances. Full registration is expected to be achieved by the final deadline, which is June 1, 2018.



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- Sales Office
- Metal Source
- Head Office

Hydro is a global aluminium company with production, sales and trading activities throughout the value chain, from bauxite, alumina and energy generation to the production of primary aluminium and rolled products as well as recycling. Based in Norway, the company has 13,000 employees involved in activities in more than 50 countries on all continents. Rooted in more than a century of experience in renewable energy production, technology development and progressive partnerships, Hydro is committed to strengthening the viability of the customers and communities we serve.

## **Hydro**

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**HYDRO**

*Infinite aluminium*