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~~Casting Of Aluminium Process~~

Direct Chill casting is a method for the fabrication of cylindrical or rectangular solid ingots from non-ferrous metals, especially Aluminum, Copper, Magnesium and their alloys. The original ingots are usually further processed by other methods (rolling, forging, etc.). More than a half of global aluminum production uses the Direct

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~~Direct chill casting~~

In the early 1930s DC casting was invented independently by VAW (Germany) and Alcoa (USA) [2,3,4]. Today it is the premier process for producing aluminium shapes suitable for subsequent processing in extrusion, rolling or remelt operations. Around ten million tonnes per annum of aluminium is DC cast worldwide. The process is also used

~~DC Casting of Aluminium: Process Behaviour and Technology~~

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The principles of D.C. casting of aluminium alloys were invented in 1936. Due to the importance of this process to the industry for the fabrication of semi-finished products intensive development work has taken place over the last 30 years. Increasing demands on ingot quality necessitated the development of innovative casting technologies.

~~D.C. Casting of Aluminium Alloys — Past ... —~~

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Dr. Dmitri Kopeliovich  
Direct Chill (DC) casting is a vertical semi-Continuous casting process used for

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## Behaviour And Technology

fabrication cylindrical billets or rectangular ingots/blooms from non-ferrous metals such as Aluminum alloys, Copper alloys, Magnesium alloys. The Direct Chill (DC) cast ingots are further processed by either Extrusion, Rolling or Forging technologies.

### ~~Direct Chill (DC) casting — SubSTech~~

The Direct Chill (DC) casting process has been used commercially since the 1930's for the production of non-ferrous billets and ingots for further processing. At the start of the process, a starter block is partially inserted into a

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water-cooled copper or aluminium mould.

~~Direct Chill Casting ::~~

~~Total Materia ...~~

~~Materials Database~~

DC welding is also a poor choice for joining pieces of cast aluminum. The casting process produces more surface oxidation than other manufacturing processes like machining. The surface oxide makes it hard to get a good weld, so direct current is a poor choice for welding cast pieces.

~~11 Tips for TIG Welding~~

~~Aluminum with DC - Welding~~

~~Mastermind~~

Abstract The quality of DC

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cast Al alloys is highly dependent on melt batch composition and impurity level in the molten alloy. The chemical composition and cleanliness of a melt is controlled through the melt treatment operations, carried out while the melt is still in the furnace before casting starts.

~~Problems in the Aluminium DC Casting Process ... DiVA portal~~

DC casting is a semi-continuous process used extensively in the aluminum industry to produce ingots and blooms from a wide range of aluminium alloys for subsequent rolling into

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sheet products as well as cylindrical billets for extrusions and forgings (4-6).

## ~~Direct Chill and Casting of Aluminum Alloys~~

Direct-chill (DC) casting is the main technology of round billets and flat ingots intended for further deformation. This casting technology has many advantages in control of the solidification and...

Structure and Casting Defects of Aluminum Billets Produced by Direct-Chill Casting | SpringerLink

~~Structure and Casting Defects of Aluminum Billets~~

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The DC casting is well established technology used to cast majority of aluminium intended for production of sheet ingots, extrusion billets and electrical conductors. Although the process has been widely used for almost a century, there are still some technological problems to be understood.

## ~~Modeling of thermomechanical phenomena during DC casting~~

...

Direct-chill casting of aluminium alloys is a well-developed technology with a long history. But only in the last 20 years, the

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development of computer modelling offered a means of better understanding of the physical phenomena involved in solidification.

~~Structure and Defect Formation during DC Casting of ...~~

has been made by aluminium producers in the United States, Canada and Europe to reduce both the capital and production costs by the development of continuous strip casting methods (Figure 1301.02.05) whereby hot metal is poured into some form of strip caster, thus eliminating the DC casting and hot break-down mills (Figure 1301.02.06).

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To date, however, only a limited range of alloy compositions can be

~~1301 The Rolling of Aluminium: the Process and the Product~~

The VDC billet casting process is the method most used today for production of commercial aluminium billets that will be further fabricated by either extrusion or forging. This process produces fine-grained billets with a minimum amount of segregation and at high production rates.

~~Vertical Direct Chill (VDC) Billet Casting | Pyrotek~~

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## ~~Behaviour And Technology~~

The main process variables involved in the DC semi-continuous casting of aluminium and its alloys are: Chemical composition  
Cooling water flowrate (cooling rate) Casting velocity Melt casting temperature (superheat)

~~Depicting Aluminium DC Casting by Means of Dimensionless ...~~

Precimeter offer products and technology specifically designed for DC Casting applications. We can provide Level Sensors, Flow Control Actuators, Metal Level Control Systems and Integration. Precimeter have more than 20 years of

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experience in supplying directly to end customers as well as to world leading machine manufacturers and integrators worldwide.

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~~Continuous casting aluminium, DC casting aluminium ...~~

Background Aluminium casting processes are classified as

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~~Ingot casting or Mould casting.~~ During the first process, primary or secondary aluminium is cast into rolling ingot (slab), extrusion ingot (billet) and wire bar ingot which are subsequently transformed in semi- and finished products.

## ~~Aluminium Casting Techniques — Sand Casting and Die ...~~

Horizontal DC casting is in use for the production of large rolling block and has been demonstrated for the casting of coilable, strip. Recently, advances have been made in continuous-casting hardware which are likely to increase the range of alloys and product qualities that

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can be handled by the strip-  
casting approach.

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