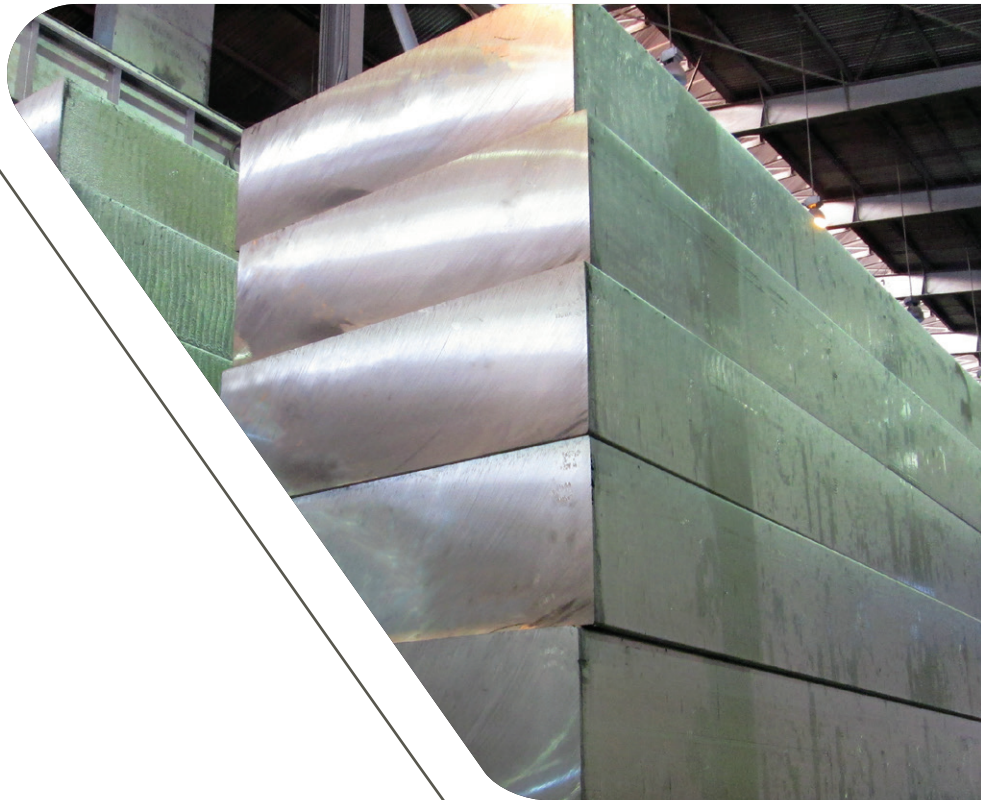




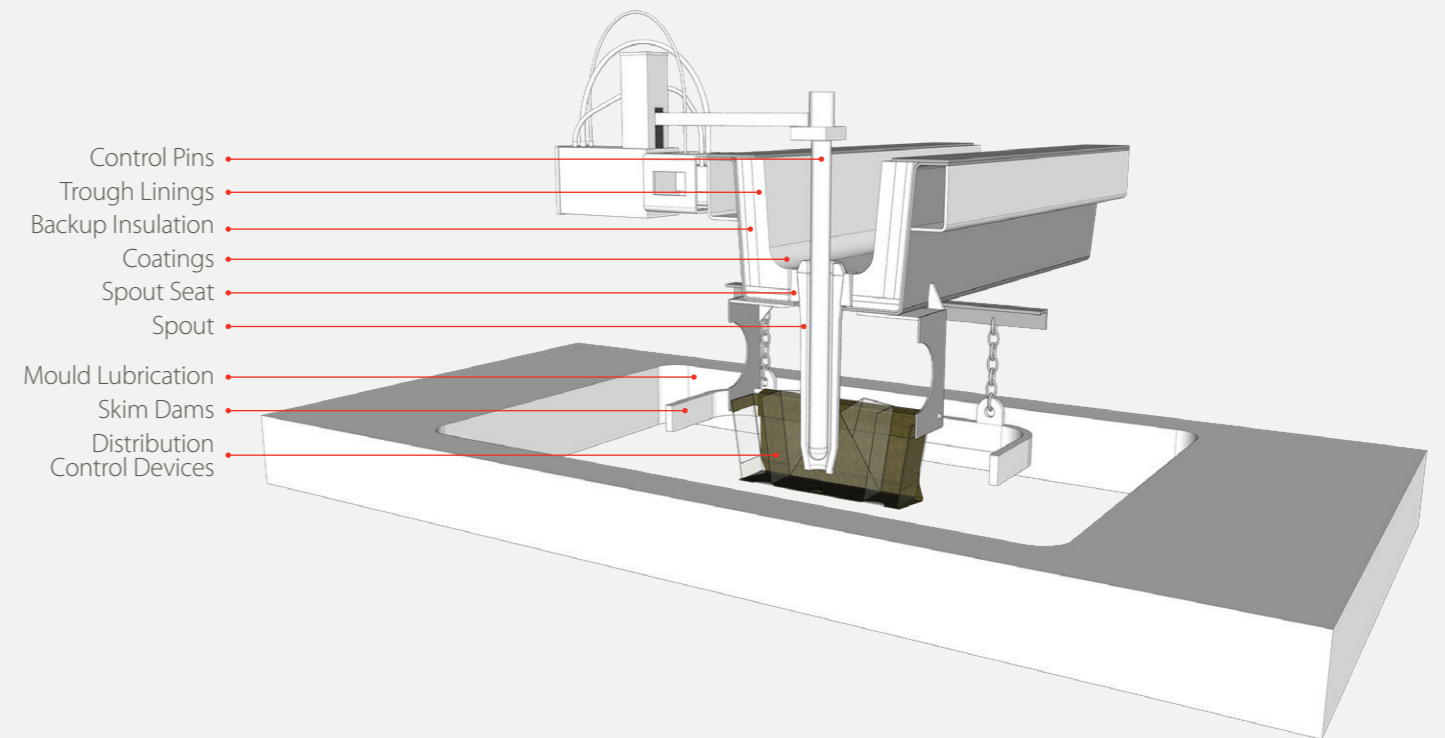
Solutions for Vertical Direct Chill Slab Casting



Pyrotek[®]

VDC Slab Casting Solutions

Vertical direct chill (VDC) casting of aluminium slabs or rolling ingots requires replacement of consumable products fitted to the casting table. Pyrotek has solutions for the entire metal delivery system. Pyrotek produces components for major casting equipment manufacturers and customers who rebuild VDC slab casting tables. Each component is manufactured to match OEM specifications and made from materials that best suit an operation's needs. Pyrotek application engineers offer in-plant consultations for VDC slab casting project requirements.



From distribution troughs to thermocouples, Pyrotek offers solutions to operate and maintain the VDC slab casting assembly.



Distribution Troughs

Pyrotek distribution trough assemblies can be designed to fit any slab casting system. Combining a durable working refractory with an insulation system, Pyrotek troughs can provide extended service life with manageable heat loss.

Skim Dams

Pyrotek skim dams are a customizable solution for oxide control at the slab head. They improve slab surface quality and total slab recovery, particularly in highly oxidizing alloys. Pyrotek's reinforced fibreglass material (RFM®) enhances the versatility of skim dams by offering a more durable, thin-wall solution that can fit well in tight spaces and sits lower in the melt.



Mastics

Pyrotek mastics are ready-to-use, durable, and designed for trough patching and joint filling. They can be caulked, troweled, or hand-formed.

- Pyro-Mastic
- Pyrotek Mastic 85
- Pyrotek Mastic 85N (non-RCF)



Thermal Insulation

Pyrotek insulation solutions can optimize the thermal performance of a metal-delivery system. Pourable backup insulation adds mechanical support to hot-facing refractory.

- Pourable backup insulation refractory
- Felts and blankets—RCF and non-RCF
- Microporous boards
- Paper—RCF and non-RCF



Flow Control Products

Pyrotek metal flow control products for slab casting help deliver consistent casting performance.

- Distribution control devices (e.g. combo bags)
- Floats
- Pins
- Spout seats
- Spouts
- Steady eddies



Gaskets and Seals

Ceramic paper and felt gaskets are used at the entry to the casting table, between the distribution trough components, around dams and trough sock rings, and around bottom blocks.

- Bottom block seals
- Ceramic felt
- Ceramic paper
- Dam gaskets
- Pre-cut gaskets
- Rope seals



Coatings

Pyrotek offers a full line of coatings for VDC slab casters. Refractory protective coatings improve performance and extend service life, while safety coatings help prevent explosions.

- Wise Chem safety coatings
- ZYP boron nitride coatings



Casting Lubricants

Pyrotek offers casting lubricants for both continuously-fed and batch-lubricated casting moulds that improve slab surface quality and reduce consumption of the lubricant. Fully biodegradable solutions are also available.

- Perlube™
- VAMA™

Casting Accessories

Pyrotek manufactures multiple other products used during casting.

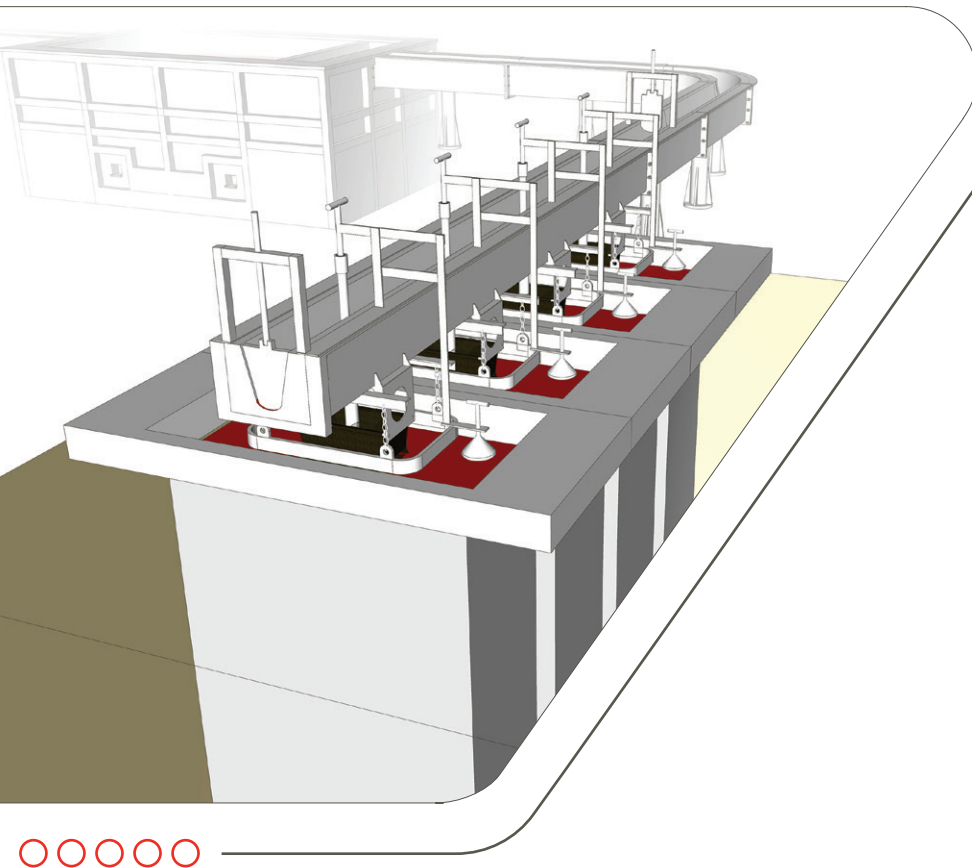
- Butt patches
- Coupon moulds
- Dams
- Paddles
- Quick-tip thermocouples
- Sampling ladles
- Skimmers
- Skull picks
- Sleeve and coated MgO thermocouples
- Spout socks
- Trough sock rings
- Trough socks



Why Pyrotek?

Pyrotek® is a global engineering leader and innovator of technical solutions, integrated systems, and consulting services in the aluminium industry. Our products and solutions are used around the world in automotive, aerospace, rail transportation, and high-tech manufacturing.

We have global resources and local support in more than 35 countries and 80 locations. With more than 60 years of aluminium expertise from the smelter to the foundry, Pyrotek is your partner in improving VDC slab casting performance.



Pyrotek®