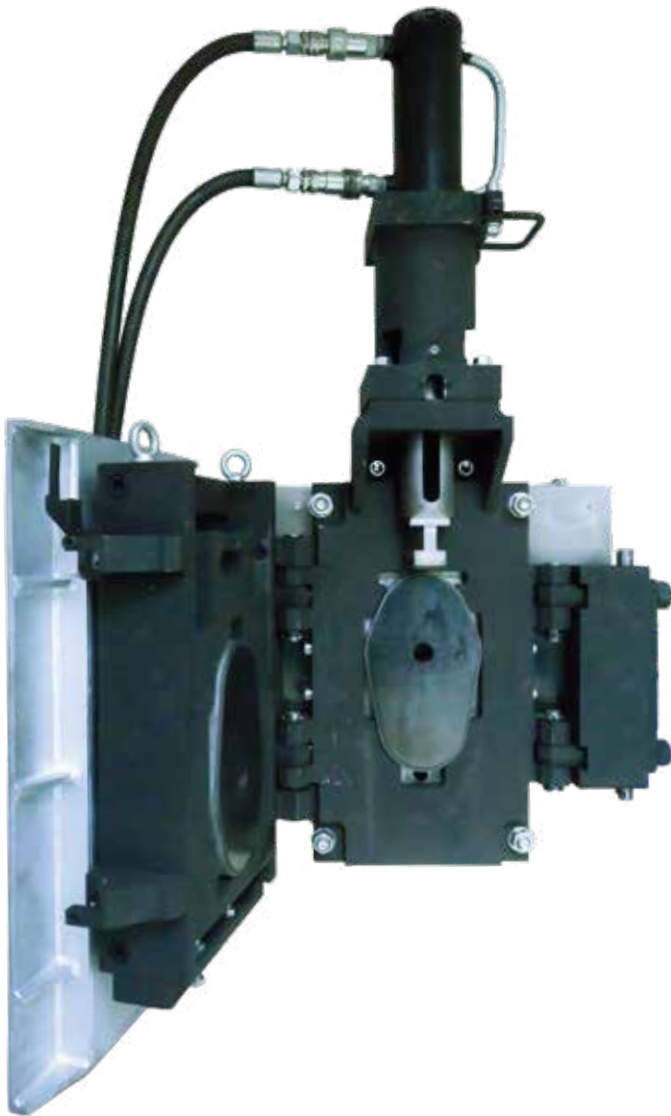


Ladle Slide Gates TES series





Created in 2009, Trasteel Group has become one of the leading players in the steel industry

Trasteel Group was founded in 2009 as the result of the vision of a group of entrepreneurs and professionals with 40 years of international experience in the steel industry.

Today, Trasteel is a trading and industrial Group active in the steel, energy and metallurgical sectors. Headquartered in Lugano, it has over 900 employees operating in four trading desks and various industrial plants in Europe, Middle East and Asia-Pacific.

Leveraging on the combined experience, the mission of the Group is to provide better, deeper and more flexible services to the whole supply chain.

Since the high quality of the supplied materials is not enough to meet the evermore sophisticated needs of the market, Trasteel Group keeps expanding its horizons by maintaining high dynamism and diversification.

Sustainability and innovation are priorities and key aspects for the Group to focus on. Long-term targets are not an easy challenge to face, but Trasteel is committed to broaden its ESG policies.

+150

products supplied

+1.000

specialists worldwide
and growing



DISCOVER MORE
ABOUT OUR ESG VISION

Trasteel network



+50

markets covered

+4.000

customers



DISCOVER MORE ABOUT
THE STEEL MARKET

● **Headquarters**

Switzerland, Luxembourg

● **Trading Offices**

Lugano, Dusseldorf, Dubai, Shanghai, Bayuquan, Buenos Aires, Istanbul, Goma, Singapore, New York, France, Spain, Finland

● **Industrial Premises**

San Giorgio di Nogaro, Massa, Racconigi, Sesto Al Reghena, Cavallerleone, Lombardore (Italy), Nova Pazova (Serbia), Bayuquan (China), Izmir (Turkey)

● **Markets Covered**

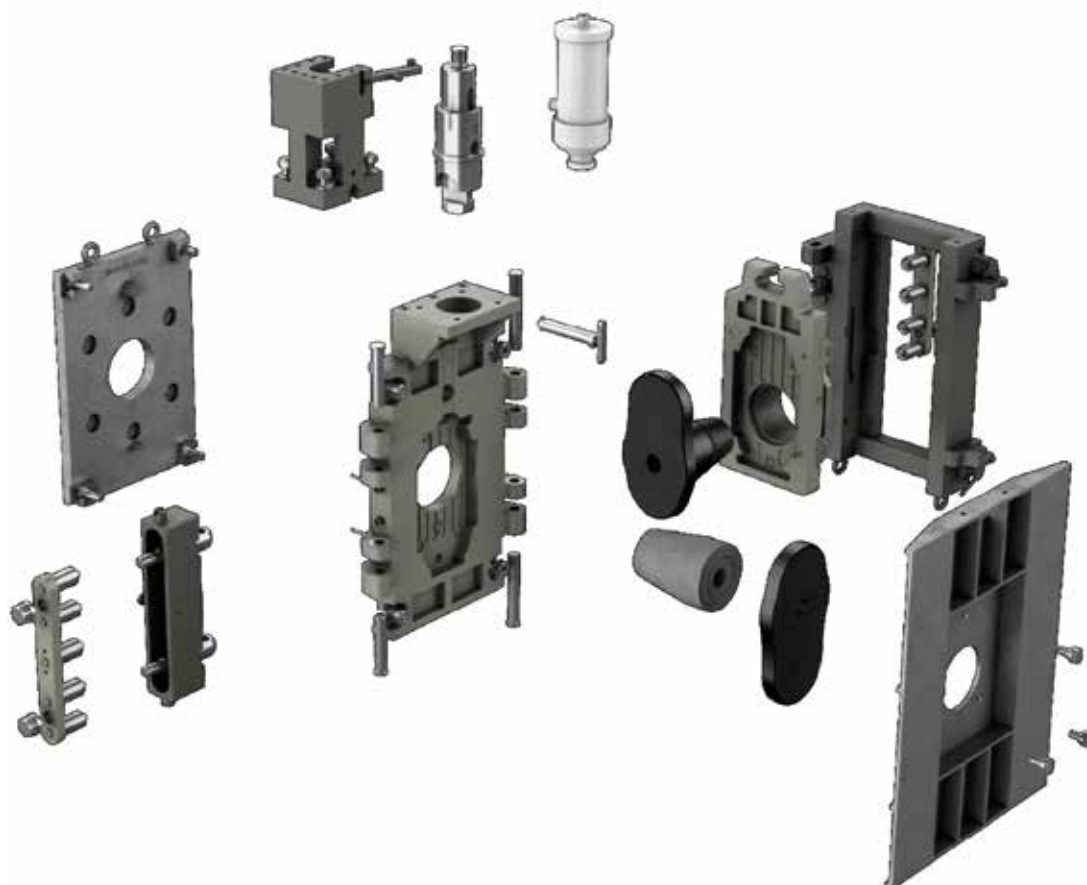
EU, United Kingdom, Turkey, Israel, Serbia, Ukraine, Kazakhstan, Uzbekistan, Azerbaijan, U.A.E., Saudi Arabia, Oman, Brazil, Chile, Colombia, Argentina, Perù, Bolivia, Mexico, USA, Canada, Japan, South Korea, China, Malaysia, Indonesia, Philippines, Vietnam, Thailand, Taiwan, Australia, South Africa, Congo (DRC), Egypt, India, Algeria, Morocco, Tunisia, Pakistan, Norway

Trasteel – Ladle Slide Gates TES series

The Sliding Gate System TES series is an innovative Ladle Slide Gate that offers a state-of-the-art technology engineered to suit all steel plants requirements in terms of:

Reliability:

- Reliability and operational safety
- Longer sequences of casting
- Insulated structure/springs to avoid overheating
- Air cooling device to increase lifetime of mechanical components
- User friendly operation
- Fast and safe refractory replacement
- Sturdy and ergonomic design
- Targeted maintenance of independent components



Simple and reliable system:

- Mounting plate for installation on the ladle (adaptable to existing systems)
- Few components to be assembled
- Separate spring packs for easy maintenance
- Guides and rollers to allow smooth movement of the slider



Installation

Installation of Trasteel – Ladle Slide Gates TES series involves two key steps:

Adaptor Plate Installation: Welding the adaptor plate to the bottom of the ladle provides a robust foundation for the system. The adaptor can be designed in order to integrate with existing systems, reducing to the minimum the operations required to switch to the new system.

Slide Gate Installation: Precise installation of the slide gate is achieved by securing it with four bolts. This method ensures an even distribution of force, keeping the slide gate firmly in place. The design optimization with these installation steps enhances the reliability and ease of use of the Trasteel - Ladle Slide Gates TES during casting operations.

Maintenance

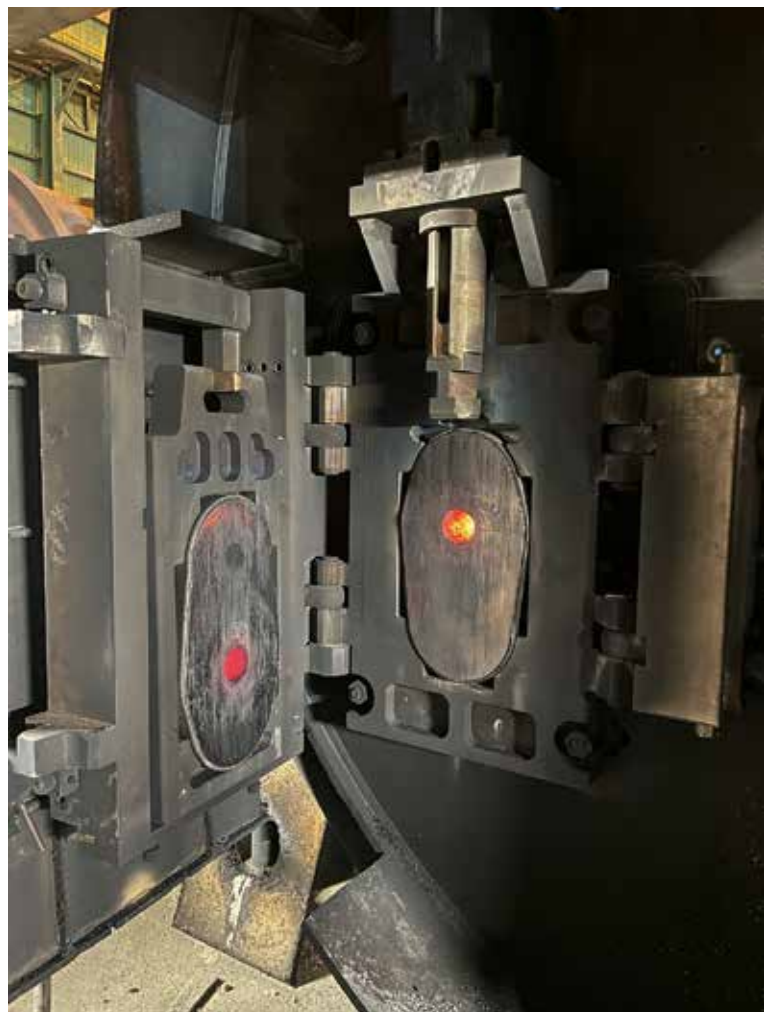
Maintenance for the Trasteel – Ladle Slide Gates TES series involves key procedures:

Single Cylinder Operation: The opening mechanism operates through a dedicated cylinder during maintenance operations, with a longer stroke than the casting floor cylinder, ensuring maximum safety during maintenance and regular operation.

Spring Pack Release: The spring packs act as hinges for the opening of the slide gate, guaranteeing precise tension during operation and easy access to the spring elements for maintenance.

Rollers on Sliders: Integrated rollers in the sliders facilitate inner slide movement and aid in spring release, contributing to easy maintenance and precise adjustments.

Refractory Check and Replacement: Regular maintenance includes a thorough check of refractory components. Identified worn or damaged materials are replaced, ensuring longevity and efficiency.



Operation

In the operational phase of the Trasteel – Ladle Slide Gates TES series, the procedure includes the closure and installation of the working cylinder beneath the ladle following maintenance.

This pivotal step ensures the smooth functionality of the Ladle Slide Gate after necessary upkeep, contributing to its continued efficiency during operations.



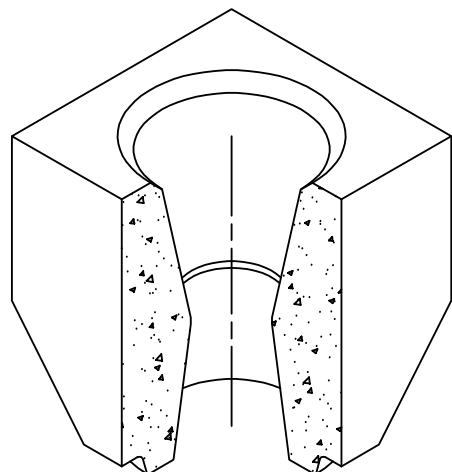
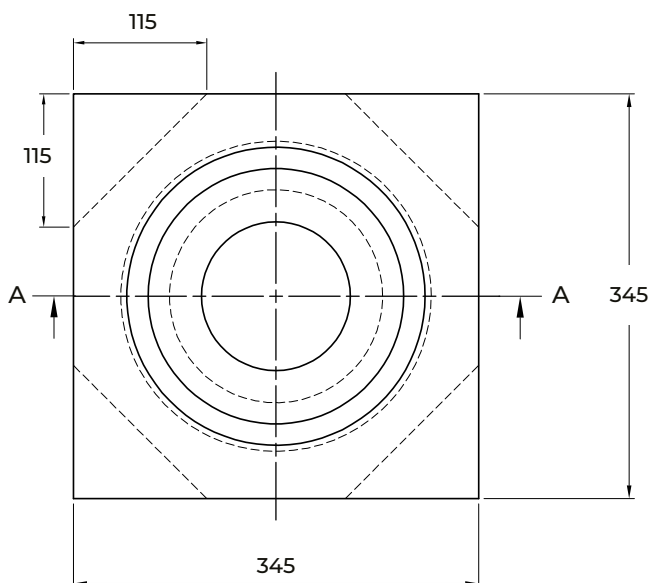
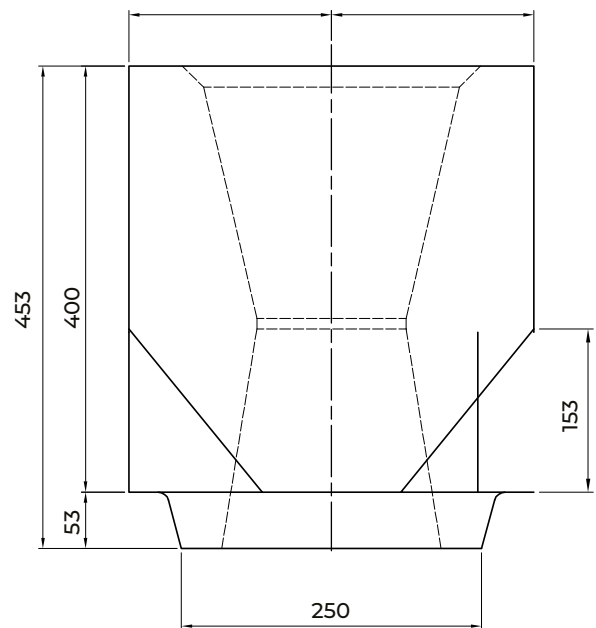
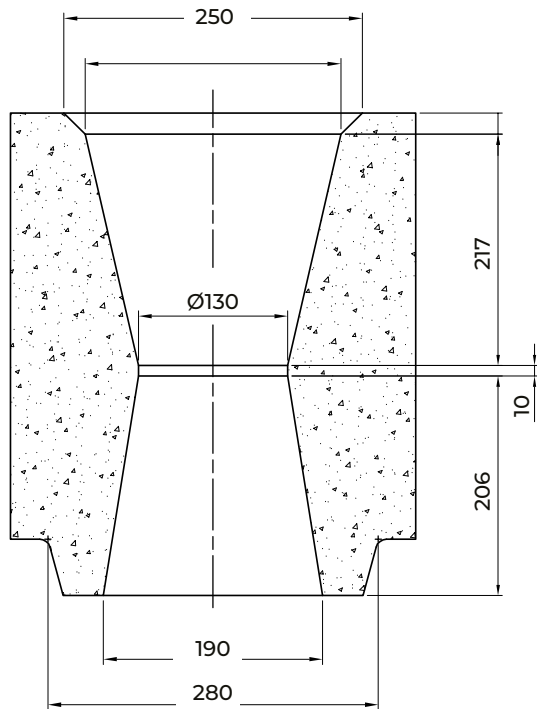
TES Models

Discover the Ladle Slide Gates TES series, featuring TES40, TES60, and TES80 models. Each variant is tailored with a specific operational stroke, number of springs per pack and overall gate size, ensuring efficiency in most of the possible operating conditions.

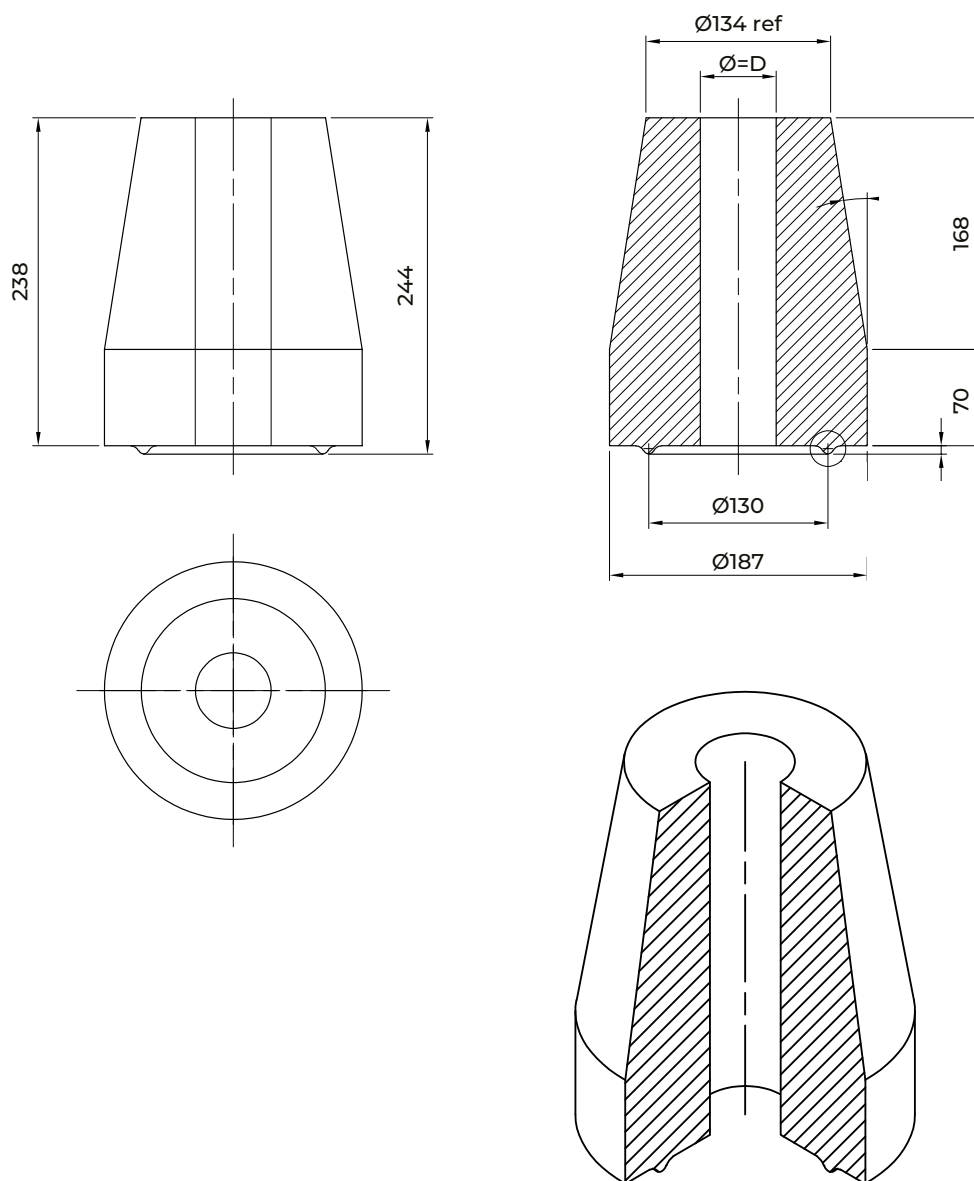
Model	TES40	TES60	TES80
Dimensions	285x928x448 mm	349x1164x560 mm	377x1285x700 mm
Operational Stroke	105 mm	132 mm	180 mm
Casting bore diameter (mm)	20-50 mm	30-60mm	50-80 mm
Ladle Capacity	15-50 ton	50-130 ton	150-220 ton
n° of springs for each pack	3	4	5



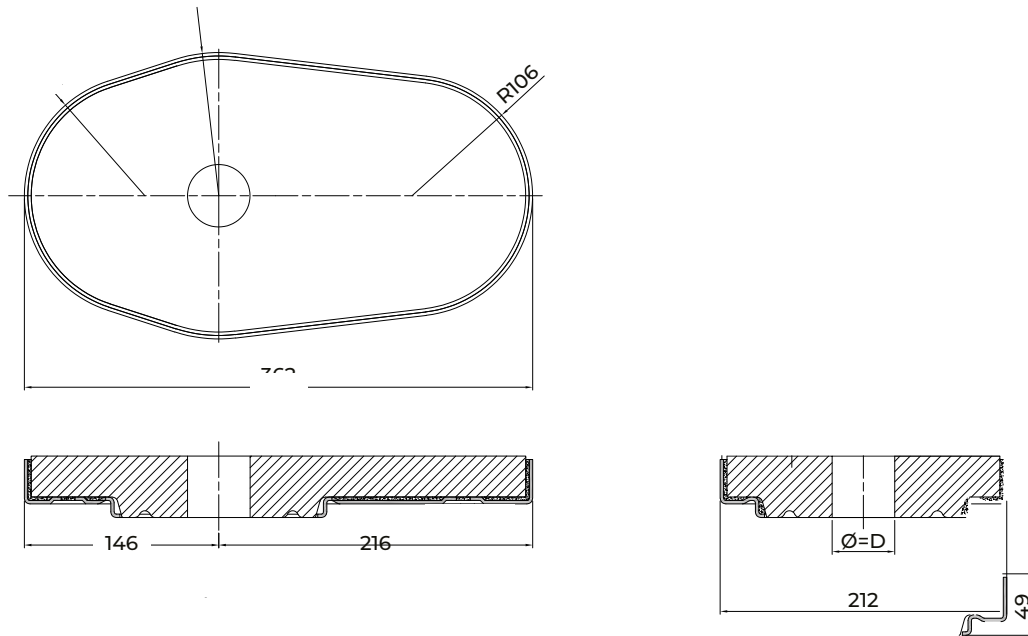
Refractories – Well Block



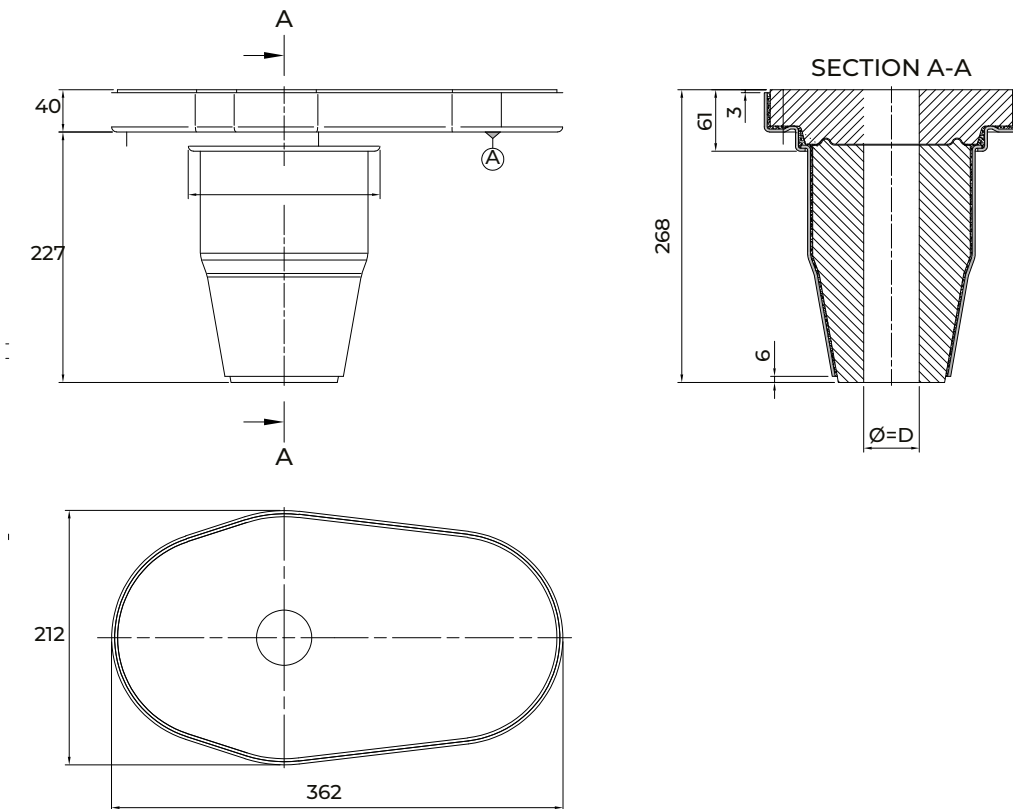
Refractories – Inner nozzle



Refractories – Well Block



Refractories – Well Block





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