



PRECAST REFRACTORY SHAPES

A LEADING PROVIDER SPECIALIZING IN THE **DESIGN & MANUFACTURING** OF CUSTOMISED PRECAST REFRACTORY SHAPES.

DGC's Precast Division has more than 30 years' experience and world-class production facilities, engineering and design technology, manufacturing a wide range precast shapes for various applications.

The precast refractory shapes are manufactured off-site under controlled conditions, dried-out at our production facilities under stringent quality control measures, ensuring the manufacture of accurate moulds and final casting of special shapes to ensure an enhanced product service life. Precast refractory shapes offer the added benefits of ease of installation and shortened repair times.



LEADERS IN THE DEVELOPMENT OF APPLICATIONS FOR PRECAST SHAPES

- Excellent & State-of-the-art Production Facilities
- Stringent Quality Control Measures
- 3D Parametric Computer Modelling Software
- Latest Polystyrene Cutting & Mould Design Technology
- Overhead Cranage to Lift Large "Big Block" Precast Shapes
- High Intensity Paddle Mixers
- Reliable & Efficient Service
- Ensuring Enhanced Service Life



The company's precast facility is adequately equipped with overhead cranes, that are capable of moving and hoisting big blocks from the casting area, to the drying furnace or load finished products onto trucks.

The precast facility is well equipped and suitably designed with adequate space, enabling trucks to drive safely in and out of the facility for offloading and loading.

FURNACE APPLICATIONS

- Launderers
- Ladles
- Burners
- Feed Chutes
- Bull Nose
- TAD Damper
- Cyclone Roofs
- Kiln Hood Roofs
- Cement Burner Lance
- Coke Oven Bricks & Modules



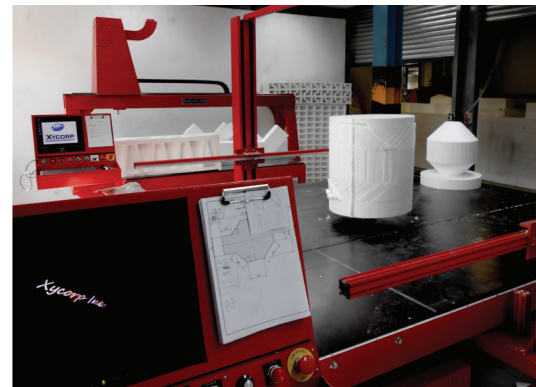
STATE-OF-THE-ART TECHNOLOGY



Every component is designed with the latest in 3D parametric computer modelling software and placed into mould assemblies to visually inspect the form and fit of our modules.

Once our design and engineering have been reviewed and approved the designs, customers are able to view their final product and how it will be assembled before the component is manufactured.

New mould technology has also been introduced using the latest polystyrene and mould designs that employ state-of-the-art technology to produce the highest quality products for our customers. This system is much faster compared to utilizing plywood or metal moulds.



Our cutting-edge technology, experience, innovation and design expertise furnishes our company with great manufacturing flexibility and customized solutions that suit our customers' individual needs.

The new technology includes a range of high intensity paddle mixers for much more consistent mixing with the capacity to mix from 50kg to 1000kg. The mixers have automatic water and mix timing functions. New adjustable high frequency vibrating tables able to handle big block casts, as well as a new adjustable programmable drying furnace capable of drying precast blocks from 2,5 meters to 10 meters in length.





BENEFITS

Precast shapes offer the added benefit of ease of installation and shortened repair times.

Manufactured off-site under controlled conditions and dry-out at our production facilities, and stringent quality control measures, ensuring the manufacture of accurate moulds and final casting of special shapes to ensure enhanced product service life:

- Consistent and controlled manufacturing process.
- Unique purpose developed materials and shapes for each application.
- Work done off-site resulting in minimum interface with production.
- Areas of higher wear can be re-engineered with optimal refractory materials.
- Easier slag or dross removal due to lower porosity.
- Less down time due to quicker installation and heat-up times.
- Shapes from 1 kg to 9 metric tons, resulting in less joints and faster installation.

DICKINSON GROUP OF COMPANIES HEAD OFFICE
www.dgrpint.com

T +27 (0) 16 421 3720

F +27 (0) 16 422 1038

E sales@dgrpint.com

10 Smuts Avenue, Vereeniging, South Africa, 1930

