

BUCKET ELEVATOR



Our Other Business Divisions



AVIATION



ENERGY



MARINE



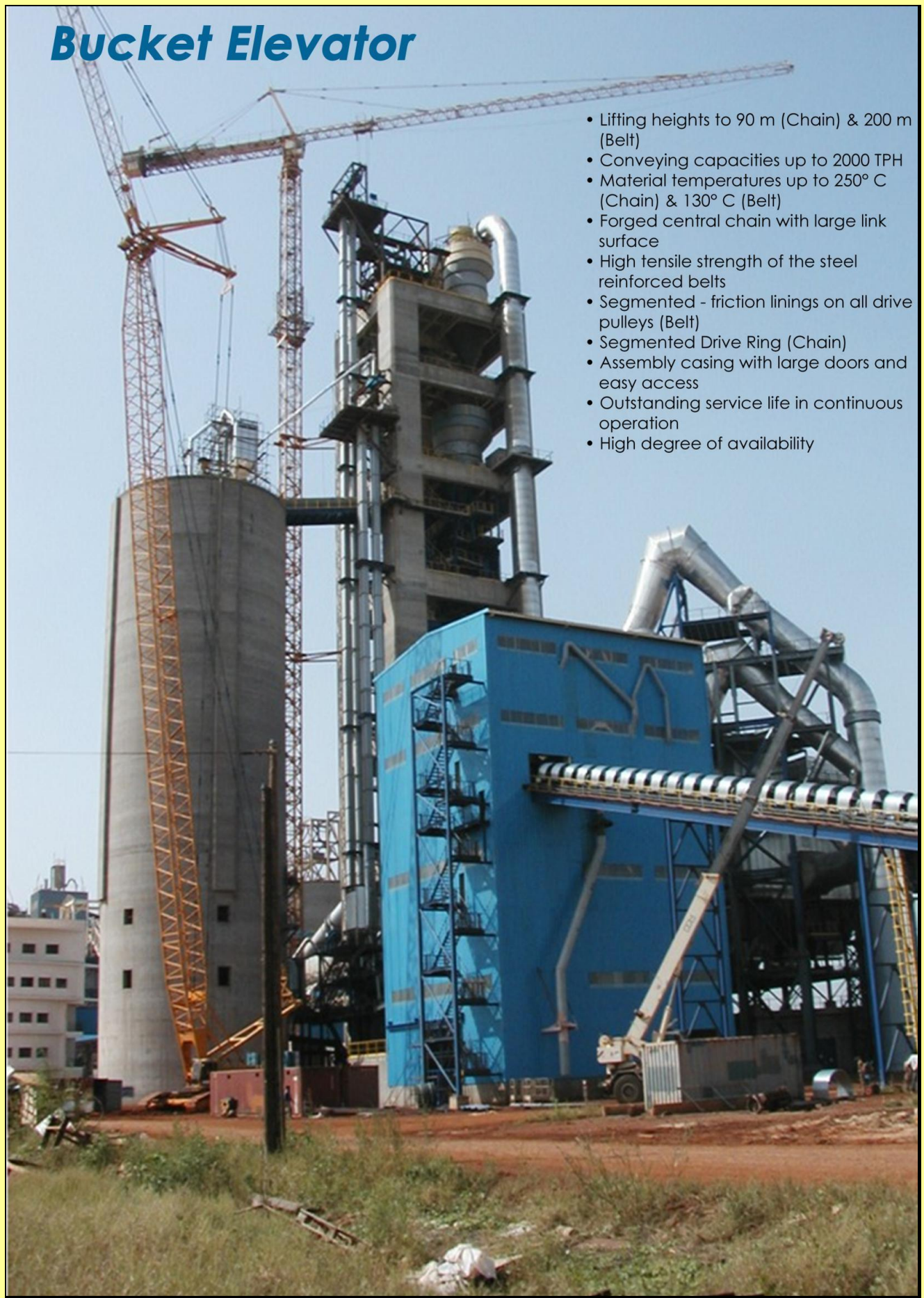
MINERAL PROCESSNG



STEEL

Bucket Elevator

- Lifting heights to 90 m (Chain) & 200 m (Belt)
- Conveying capacities up to 2000 TPH
- Material temperatures up to 250° C (Chain) & 130° C (Belt)
- Forged central chain with large link surface
- High tensile strength of the steel reinforced belts
- Segmented - friction linings on all drive pulleys (Belt)
- Segmented Drive Ring (Chain)
- Assembly casing with large doors and easy access
- Outstanding service life in continuous operation
- High degree of availability



FRIGATE has significant presence in field of Bucket Elevators. Predominantly most of the Elevators are supplied to Cement Industry. We have approximately 70 installations in India & abroad & growing.

We have expertise to Design, manufacture & Install the Belt Bucket Elevators & Chain Bucket Elevators with below mentioned specifications:

LIFTING HEIGHT	90 m for Chain Elevator & 200 m for Belt Elevators
CONVEYING CAPACITIES	Up to 2000 TPH
MATERIAL TEMPERATURE	Up to 250 Deg C for Chain & 130 Deg C for Belt
TENSILE STRENGTH OF STEEL CORD BELTS	Up to 3000 Nm, 2000 mm Width
SEGMENTED FRICTION LINING ON ALL DRIVE PULLEYS (BELT)	
FORGED CENTRAL CHAIN WITH LARGE LINK SURFACE	
SEGMENTED DRIVE RING (CHAIN)	
ASSEMBLY CASING WITH LARGE DOORS FOR EASY ACCESS	

BELT BUCKET ELEVATORS

A self-adjusting parallel tension device maintains straight running of the belt. Longitudinal steel ropes from the traction elements together with the additional cross ropes form structure ensuring high resistance.

In the elevator boot, a bar-type drum ensure the guided return of the belt. Precise Parallel guidance is obtained with the parallel tensioning device.

Belt splicing is made by clamping the steel ropes in a casting compound box. The rope ends are connected by means of clamps and then cast with a special casting compound. All drive pulleys feature exchangeable friction linings. The segments can be easily exchanged without removing the belt.

CHAIN BUCKET ELEVATORS

The specific basic conditions of the cases of application determine the nature of the traction element used. Chain bucket elevators are primarily used in cases where the material properties and operational conditions impose special requirements on the respective traction element.

Lumpy, abrasive and hot materials – for example as far as the transport of clinker, clinker scabbing or broken limestone is concerned – are transported in a reliable way by the use of high capacity chain bucket elevators.

High capacity central chain bucket elevators with central chain are particularly suitable for the transport of hot, granular and abrasive bulk materials.

The cement industry uses central chain bucket elevators for the vertical transport of hot, abrasive clinker to fill silos and also in clinker grinding plants.

Due to the proven reliability and the long service life of the systems, customers benefit from the technology of these transport systems

Functions & Features

Heat resistant up to 250° Celsius

Homogeneous conveyed material flow with minimal spillage thanks to close bucket arrangement

Simple, reliable bucket fixing for maximum lifespan

Forged chains

Silo and mill feeding

Abrasive, hot, coarse and fine material



Who We Are

Frigate Teknologies is a diversified global conglomerate providing integrated services for various core sectors.

Services

1. EPC Contracts
2. Design & Engineering Services
3. Consultancy Services
4. Project Management

Industries Served

1. Cement
2. Mineral Processing
3. Energy
4. Marine
5. Steel
6. Aviation

In very simple words, we offer one-stop solution from **CONCEPT** to **COMMISSIONING**

Our Values – Our Vision – Our Mission Statement

Values	Vision	Mission
<p>To realize our vision and mission, we always turn to the corporate values that we hold dear. We will live and deliver these values with uncompromising commitment to safety and sustainability.</p> <p>Performance - Passion - Team Work - Agility - Reliability</p>	<p>We will deliver reliable, high-quality solutions for global infrastructure, always ensuring that integrity, safety and sustainability are at the heart of everything we do.</p>	<p>To be among the top ten EPC companies in the segments and markets we serve by 2025</p>

What sets us apart

ISO 9001 – 2008 Certification



In-House Design Setup

Compliance to International Design & Safety Norms



Compliant to International Project & Contract Management Standards





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A few critical technologies are offered in collaboration with European OEMs.