DEEP PAN CONVEYOR

Our Other Business Divisions

AVIATION | ENERGY | MARINE | MINERAL PROCESSNG | STEEL

FRIGATE TEKNOLOGIES PRIVATE LIMITED

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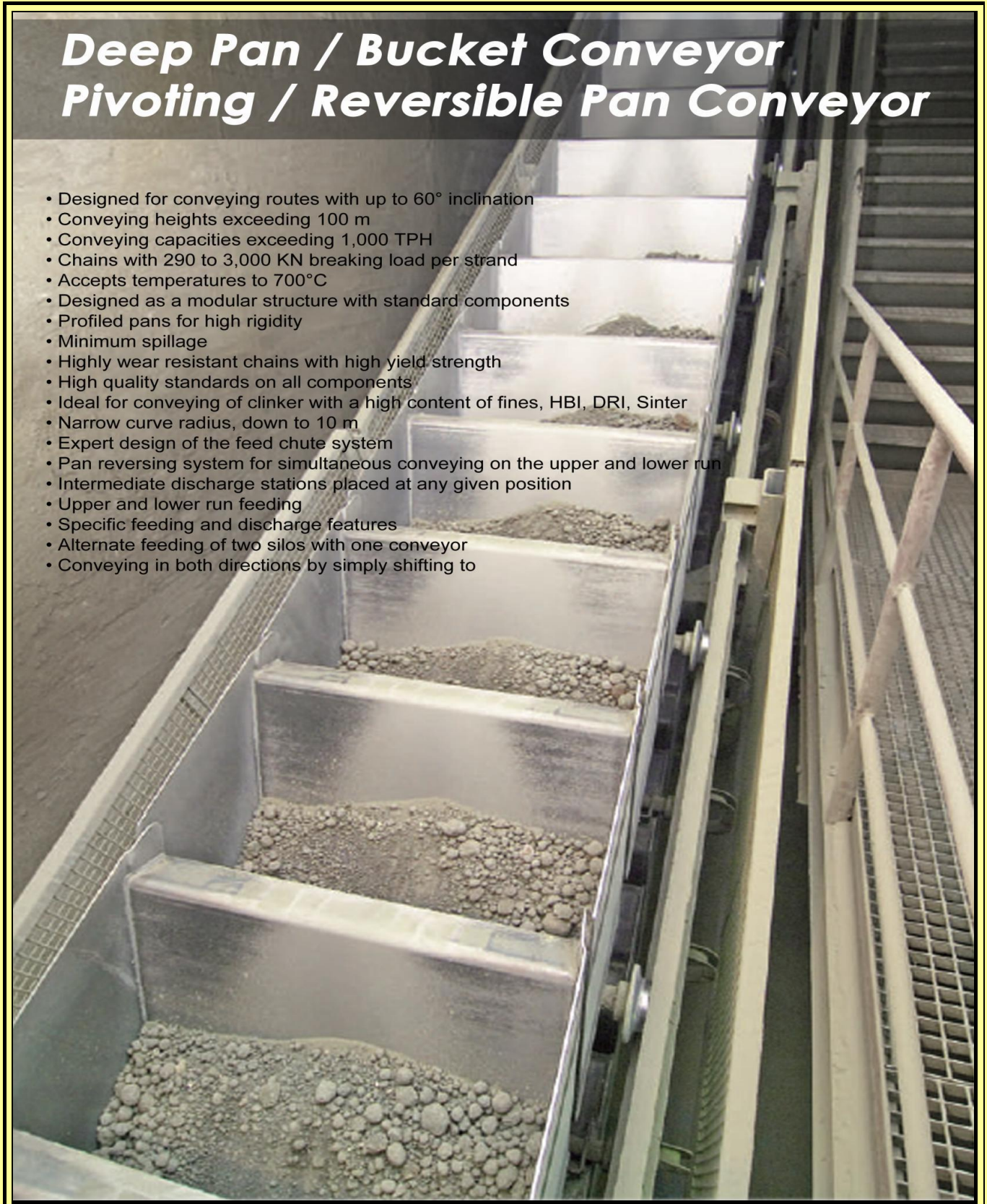| **T**. + 91 – 129 – 2511662	**F**. + 91 – 11 – 66173981	**E.** marketing@frigate.in operations@frigate.in	**W**. www.frigate.in

LMS ASSESSMENTS Certified ISO 9001:2008 | DAC CB006

PAN CONVEYORS

Deep Pan / Bucket Conveyor
Pivoting / Reversible Pan Conveyor

- Designed for conveying routes with up to 60° inclination
- Conveying heights exceeding 100 m
- Conveying capacities exceeding 1,000 TPH
- Chains with 290 to 3,000 KN breaking load per strand
- Accepts temperatures to 700°C
- Designed as a modular structure with standard components
- Profiled pans for high rigidity
- Minimum spillage
- Highly wear resistant chains with high yield strength
- High quality standards on all components
- Ideal for conveying of clinker with a high content of fines, HBI, DRI, Sinter
- Narrow curve radius, down to 10 m
- Expert design of the feed chute system
- Pan reversing system for simultaneous conveying on the upper and lower run
- Intermediate discharge stations placed at any given position
- Upper and lower run feeding
- Specific feeding and discharge features
- Alternate feeding of two silos with one conveyor
- Conveying in both directions by simply shifting to

Apron Conveyors or Pan Conveyors are ideally suited where the temperature is high, profile is complex & material has to be conveyed to a certain height at a steep angle of up to 60 Deg. Apron Conveyors are the solution for conveying hot material like Clinker in Cement plants.

Technology is there in the industry for quite some time & is now time tested for transportation of hot material.

Use of special quality steel for manufacturing along with technical know-how of our design team makes it an extremely reliable & trouble free equipment.

We have a range of Apron Conveyor which can handle material temperature up to 500 Deg C. We have capability to design & manufacture Apron / Pan Widths from 500mm to 1600mm. We can design Apron Conveyors for a conveying length of approx. 200m & 1000 TPH.
Various designs of aprons and pans are available including the AFT pan design, deep bucket conveyor design and apron pan designs to meet any application requirements.

SALIENT FEATURES OF DEEP PAN CONVEYORS

➔ Suitable for handling hot material like clinker in Horizontal and Inclined profile upto 60 degree.

➔ Pans are pressed in high capacity presses using special dies which imparts high strength and ensures very less spillage of handled material.

➔ Special alloy steel chain links are provided which have high abrasion resistance.

➔ These chain links are with Non Back Bend type construction, which ensures no spillage of the material during loading and horizontal conveying.

➔ Independent rollers are fixed at regular intervals to the pans.

➔ Alloy steel rollers are with ball bearings which offer very less friction and are provided with special seals.

➔ Sprockets are with segmental design and are provided with half pitch teeth which enhance sprocket life.

➔ Special Screw type Take Up with springs is provided for automatic tensioning during operation.

➔ Provided with safety switches such as zero speed switch, electronic shock relay.

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
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. **Performance - Passion - Team Work - Agility - Reliability**	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.	To be among the top ten EPC companies in the segments and markets we serve by 2025

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

Frigate™

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