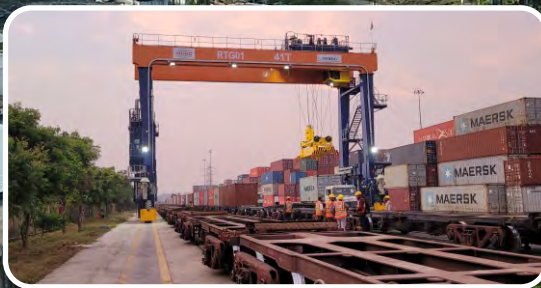




Material Handling System & Equipment

Engineering, Procurement & Construction



ENGINEERING FOR EXCELLENCE

Trough/ Belt Conveying Systems

Product Range:

Customized solution for various materials, capacities and belt width as follows :

- Material handled : Coal, Limestone, Gypsum, Iron Ore, Bauxite, Fertilizers, Bagasse, Sugar etc.,
- Capacity : Up to 6500 TPH
- Belt width : 650 mm to 2400 mm
- Belt speed : Up to 6.5 m/s

Isgec can supply complete belt/trough conveying system along with all other auxiliary equipment like crusher, screen, DE system, DSS, Wagon tippler, Apron feeders, sampling units etc.

Isgec can also provide cross country conveyor solutions having difficult terrain.



Bulk Material Handling

Pipe Conveyor

Pipe conveyor is modern transfer system which can minimize various operational problems occurs in conventional belt conveyor systems i.e. spillage of material, limitation with difficult terrain and curves.

Product Range:

Customized solution for various materials, capacities and pipe out side diameter as follows :

- Material handled : Coal, Limestone, Iron Ore, Bauxite, etc.
- Capacity : Up to 4000 TPH
- Pipe OD : 200 mm to 700 mm
- Belt speed : Up to 6.5 m/s

Isgec has vast experience in difficult terrain, River Crossing , various obstacle and can provide optimum solutions due to its strong In house engineering capabilities.

Special Features of Pipe Conveyor

- Horizontal and vertical curves suitable for site requirements
- Reduced Spillage of Material loaded from belt
- Environment friendly Dust Free Transportation
- Low Maintenance
- Maintenance trolley can be provided instead of walkways

Maharashtra State Power Generation Co. Ltd., Nagpur, India



State-of-the-art Technology

All Equipment design based on latest European Technology following FEM standard.

Product Range :

Rubber Tyre Gantry Crane

- Span : 5 to 10 Container Wide + Truck Lane
- Lifting height : 1 Over 2 to 1 Over 6
- SWL : 41 MT Single lift / 50 & 60 MT Option Available
- Wheels : 8 or 16 Nos.

Rail Mounted Gantry Crane

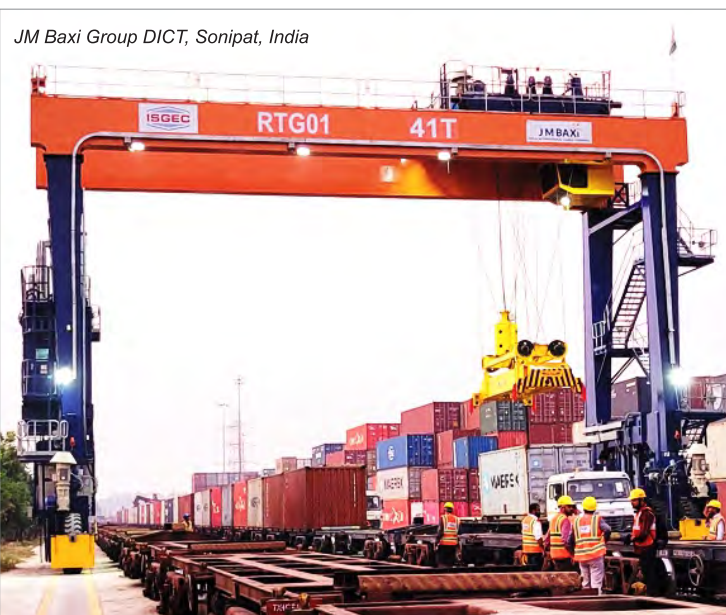
- Span : 21 to 50 m
- Lifting height : 1 Over 2 to 1 Over 7
- SWL : 41 MT Single lift / 50 or 60 MT Optional Available
- Wheels / Corner : 4 or 6 Nos.
- Cantilever : Up to 15 to 20 m

Special Features of RTGC / RMGC

- 8 Ropes Reeving System
- Electrically Operated Spreader
- Energy Chain for Festooning
- Anti-collision system
- Auto-steering with Optional DGPS available for RTG

Source of Power for RTGC / RMGC

- Electrically Operated with CRD / Bus Bar System
- Battery Operated
- Diesel Engine Operated
- Hybrid



Product range:

Grab Type Ship Unloader

- Material handled : Coal, Limestone, Iron Ore, Fertilizers, etc.
- Lifting capacity : 45 MT to 72 MT Payload
- Out reach : Up to 53 m
- Ship size : 40000 DWT to 200000 DWT
- Rail span : As per customer requirement

STS Crane

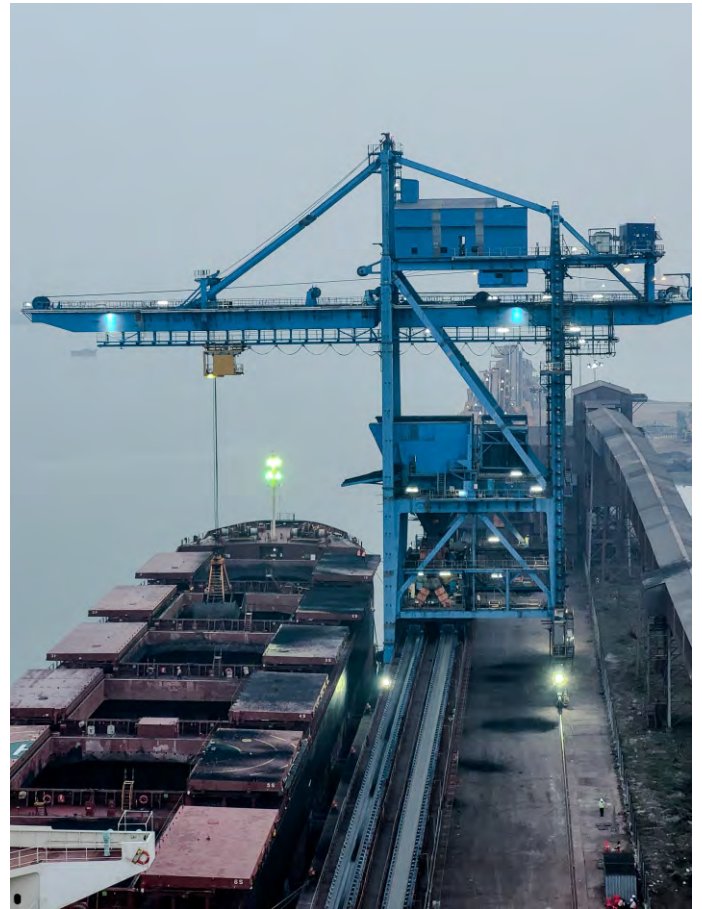
- Lifting capacity : 41 MT Single lift / 65 MT Optional
- Lifting height : Up to 45 m
- Out reach : Up to 53 m
- Container rows : Up to 22 Nos.
- Rail span : As per customer requirement

Special Features of STS / SUL

- High Tensile Steel for main structure
- Simultaneous Drive motion for Gantry, trolley, hoist
- Direct driven travel wheels
- Vessel Stack Profiling for STS
- Truck Positioning System for STS
- Anti-collision System
- Energy Chain for Festooning

Highlights of executed Ship Unloader:

- One of the highest capacity Grab having 52.5 Cubic mts. volumetric capacity for Coal.
- Highest Cream Digging rate of Coal 2750 TPH.



Ship Unloader For KICTPPL, Paradip Port, Orissa, India





Product range:

Customized solution for various materials, capacities and belt width as follows :

- Material handled : Coal, Limestone, Iron Ore, Bauxite, etc.
- Boom Length : Up to 60 m
- Capacity : Up to 10000 TPH

Stacker cum Reclaimer, KICTPPL, Paradip Port, Odisha, India



Stacker Cum Reclaimer Design Variants

- Bucket Wheel Stacker cum Reclaimer
- Reversible Stacker cum Reclaimer
- Slewing / Non-Slewing Stacker
- Luffing Stacker



Reversible Stacker cum Reclaimer, Vedanta Ltd., Odisha, India

Product range:

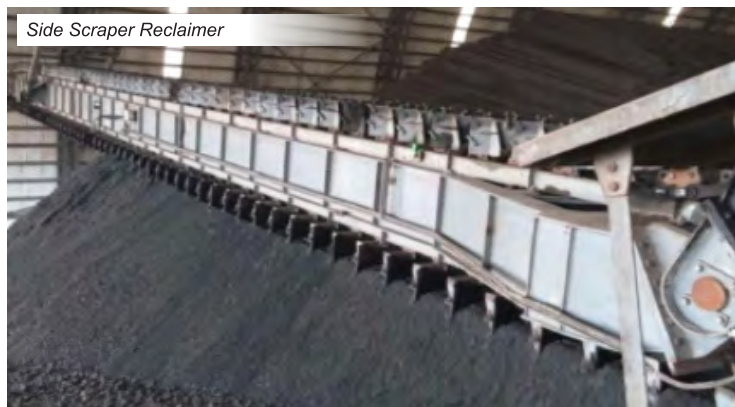
- Customized solution for various materials and capacities.
- Perfect blending for any type of material like Sticky & Wet.
- Blending ratio of more than 10 with correct combination of stackers and reclaimers.
- Highest International state-of-the-art solution with Lowest energy consumption.

Reclaimer Type

Portal Reclaimer • Side Scraper Reclaimer • Bridge Reclaimer

Special Features of Reclaimer

Skew monitoring • Direct driven travel wheels • Anti-collision System • Energy Chain for Festooning



Side Scraper Reclaimer



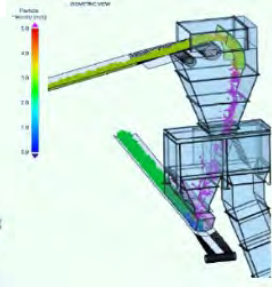
Portal Reclaimer

Design Capabilities

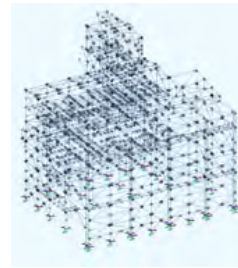
Excellence in providing engineering solutions by using following software for 3D Modelling, FEM Analysis, Flow Analysis, Conveyor Calculations, Structural Detailing, Structural Analysis and Raw Material Optimization.



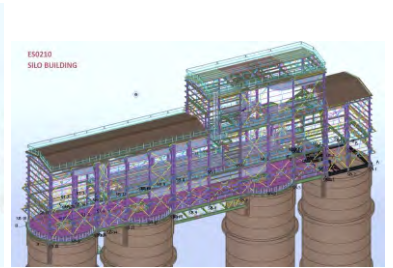
Solid Works



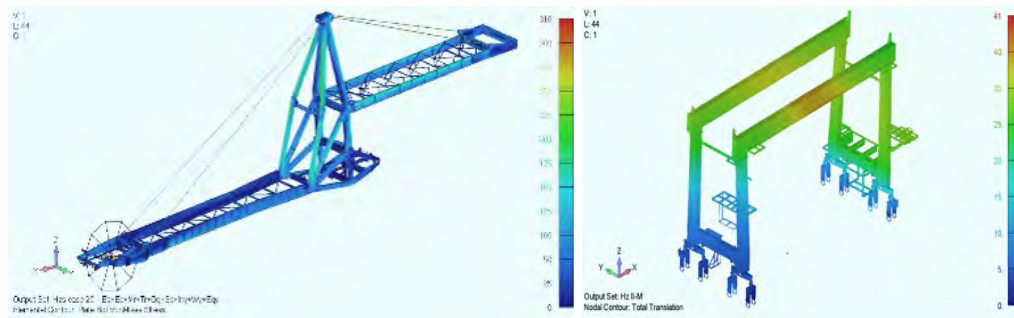
DEM Newton Professional



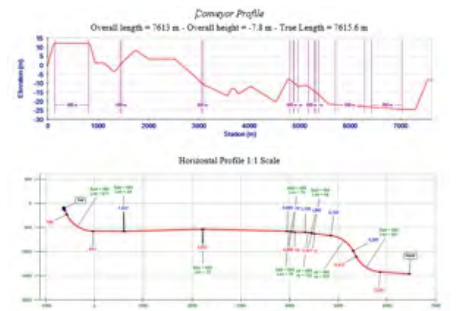
STAAD Pro



Tekla



Femap Nastran



SideWinder – Conveyor Design

Manufacturing, Erection & Commissioning

Yamunanagar Shop

- Total Area : 180,000 Sqm
- Shop Covered Area : 95,000 Sqm
- Crane Capacity : 200 MT
- Open Yard Fabrication : 4,000 Sqm



Dahej Shop

- Total Area : 210,392 Sqm
- Shop Covered Area : 13,972 Sqm
- Crane Capacity : 300 MT
- Open Yard Fabrication : 15,552 Sqm



Isgec's strong team of construction management has vast experience of Erection, Commissioning and Start-up services. construction management not only ensures timely and safe installations but also imparts training to client's personnel for latest O & M practices and trouble shooting.





Product Range

Bulk Material Handling

Belt Conveying System

Pipe Conveyors

Rapid Loading System

Ash Handling System

Port / Cargo Terminal Equipment

Rubber Tyre Gantry Crane

Rail Mounted Gantry Crane

Ship Unloader & Loader

Ship to Shore Crane

Yard Equipment

Bucket Wheel Stacker Reclaimers

Side Scraper & Bridge Reclaimer

Circular Stacker Reclaimers

Portal Reclaimers



ISGEC HEAVY ENGINEERING LTD.

A-4, Sector 24, Noida - 201 301 India
Tel.: +91-120-4085001 / 5002

Email: gurvinder.singh@isgrec.co.in, vivek.singh@isgrec.co.in

www.isgrec.com