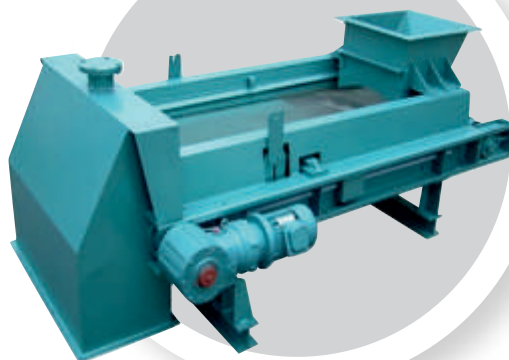




DAYATE ENGINEERING
moving ahead...

MATERIAL HANDLING EQUIPMENT

Bulk, Bag and Box



GSTIN: 24AWQPP5176J1ZV
MSME NO: UDTAM-GJ-03-0003081

PACK • SHIFT • ELEVATE



(+91) 98983 61236



dayateengineering@gmail.com



Reg.OFFICE

109, Shiv Apple Society,
Lambhvel Road, Anand - 388 001

About US

Since its inception **DAYATE ENGINEERING** is one of the renowned name in Material Handling industries for delivering quality and durable products to customers.

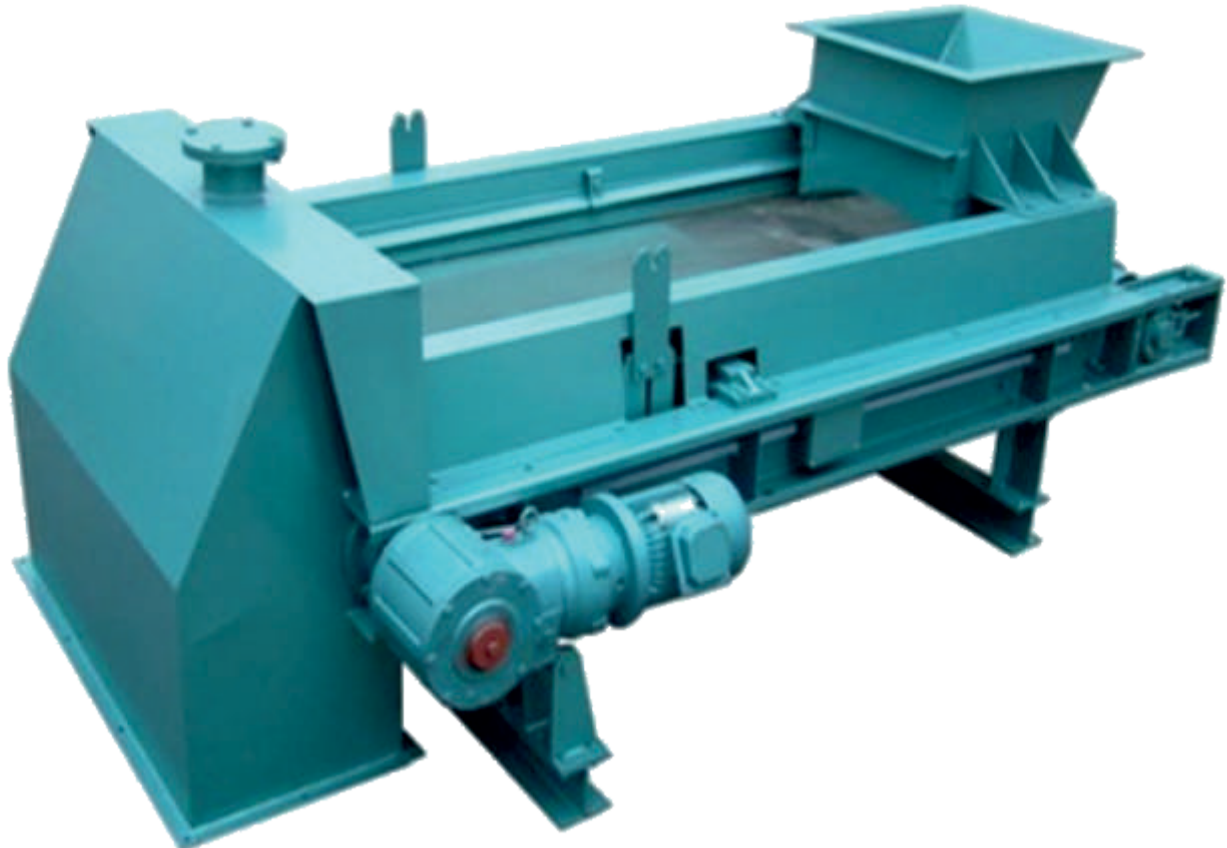
We are capable of manufacturing various magnetic equipments based on the requirement of the clients. We are having a group of skilled workers working for the timely accomplishment of projects undertaken without compromising on the quality. Our Material Handling equipments have been successfully used in various industries.

We are equipped with the most refined men and machines to deliver the best of technology and performance in the products. Our state of the art technology and machinery with highly competent manpower have helped us to maintain top notch quality at all levels.

DAYATE ENGINEERING is engaged in Design, Manufacturing and Supply of a wide range Material Handling industrial Equipments.

The Company **DAYATE ENGINEERING** offers Belt Weighers, Semi Automatic Weighing and Bagging Machines, Hopper Weighing systems, Conveyors, Bucket Elevators, Weigh Feeders, Mobile Bagging Unit, Metal Detectors, Permanent Magnets, Magnetic Separators, Truck loaders, Wagon Loader, Bag stacking conveyor, Shuttle conveyor Belt Feeders etc...

WEIGH FEEDERS



PRINCIPLE OF OPERATION:

Dayate Eng. Gravimetric Weight feeders Are Variable Speed Small Conveyor Consisting Of Belt Weighing And Speed Control System. The Flow Rate Is Held Constant By Varying The Speed With Respect To Belt Load. Set Point Controller Allows Setting Of The Required Rate And Provides A Single Raise Or Lower The Speed Of The Belt With Respect To Set Rate. This Can Be Achieved Either By A Built In Pid In A Drive, Or An Independent Pid Controller

For Additional Controls And Communication Facility, Required Signals Are Available From The Weigher Feeder Control Panel To Connect It To A Plc Or A Supervisory Computer Making It A Part Of Distributed Digital Control System.

The Latest Series of Dayate Eng. Feeders Works Entirely On Digital Technology Bu Having Digital Load Cell And Ultra fast Controller With Modbus/profibus Output.

MATERIAL HANDLING EQUIPMENTS

AUTOMATIC WEIGHING AND BAGGING MACHINE



We Manufactures Electromechanical As Well As Electronic Microprocessor Based Automatic Weighing Machine For High Speed Automatic Weighing And Bagging Of Variety Of Materials Such As Fertilizers, Food Grains, Sugar, Cattle Feed, PVC Granules, Cereals, Coal, Chemical, Powder, Flour, Flakes, Soda ash, etc.

Machines Are Designed And Manufactured Adopting The Latest Technological Development In The Field Of Accurate Weighing. The Weighing And Bagging Machines Are Available In Different Models Like, Gravity, Belt, Screw Feeder Or Vibrating Feeder Tray.

These Machines Are Available As A Net Or Gross Model, In Mild Steel Or Stainless Steel Construction.



Electronic Type Microprocessor Based Automatic Weighing And Bagging Machines Incorporating Highly Accurate train Gauge Load Cells And Latest State Of The Art Fully digital Microprocessor Controller Are Available For Capacity Up To 900 Bags/hour With An Accuracy Of +50 Grams Or Better Over A Range Of 25kgs To 100 Kg As Well As Jumbo Bags Of 1 Ton.

Full Digital Calibration And Parameter Set Upper Interactive Dialogues For Different Weighing.

RS 485 serial Channel For Printer, Data Output, Serial Communication.

MATERIAL HANDLING EQUIPMENTS

TRUCK & WAGON LOADERS

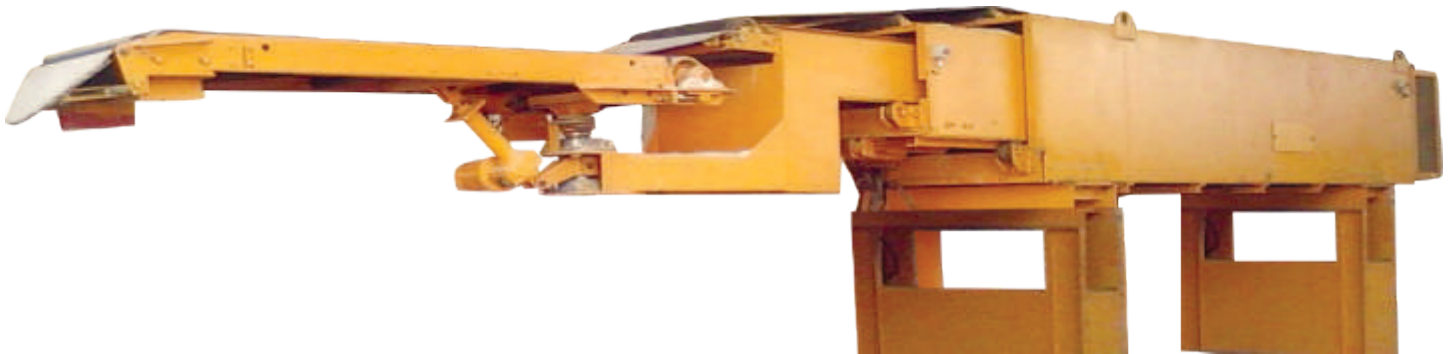


To Solve Ever Increasing Problem With Handling Of Bags Process Plants, Dayate Eng. Wagon & Truck Loader Include India's Major Manufacturers Of Fertilizer, Cement, Etc.

Different Models Of Truck Loaders Up To A Maximum Capacity Of Handling 2000 Bags Per Hour Each Of 50 Kg. Can Be Supplied For Loading, Stacking And Lining Up Bags O The Trucks.

TYPE-M	TYPE-F	TYPE-MTT
TL-M-5CRP	TL-F-5CRP	TL-MTT-4CRP
TL-M-8CRP	TL-F-8CRP	TL-MTT-6CRP
TL-M-9CRP	TL-F-9CRP	TL-MTT-8CRP
TL-M-12CRP	TL-F-12CRP	TL-MTT-10CRP
TL-M-15CRP	TL-F-15CRP	

Wagon Loaders In Different Models Up To 2000 Bags Per Hours Are Also Available. The Loading Bag Is Telescopic With 180 Degree Rotation And Can Be Lifted By Mechanical Or Hydraulic Jack. Simultaneous Loading Of Number Of Truck As Well As Wagons On Parallel Track Can Be Achieved Dayate Eng. Wagon Truck Loaders.



WAGON LOADERS MODEL:

- SMMC2T(SHUTTLE MOVEMENT CONVEYOR MOVEMENT WITH TWO TELESCOPIC)
- MF5CRP
- MF8CRP
- MF10CRP



METAL DETECTOR



DAYATE ENGINEERING Manufactures Metal Detectors Latest Technology Incorporating Integrating Circuits, Styroflex Capacitors, Metal Film Resistors, Temperature Compensated Plot Coretransformers, Active Filters Etc. These Are Widely Used In

1) Mining And Material Handling / Processing Industries To Prevent Damage To Crushers, Mills, Elevators, Feeding Devices.

2) Chemical Industries To Prevent Damage To Grinding Mills And Processing Glass Lined Vessels To Avoid Metallic Contamination.

3) Wood And Timber Industries To Prevent Damage To Saws, Chippers, Particle Board Presses Etc.

4) Plastic And Moulding Industries To Prevent Damage To Press And Moulds.

5) Food, Tobacco, Tea & Pharmaceutical Industries To Protect Kneading Machines And Presses Etc. And Also To Inspect Final Product For Metallic Contamination.

6) Clay And Brick Industries To Protect Moulds, Dayate Engi. Metal Detector Consists Of Search Coil Unit And Electronic Control Unit. These Are Available In Various Models Depending Upon Width Of Your Conveyor Belt And Burden Height. Sand Bag Marker For Spot Locating The Detect Metal Contamination And Auto Testing Device For Periodic Checking Of Sensitivity Are Provides As Option Accessories.

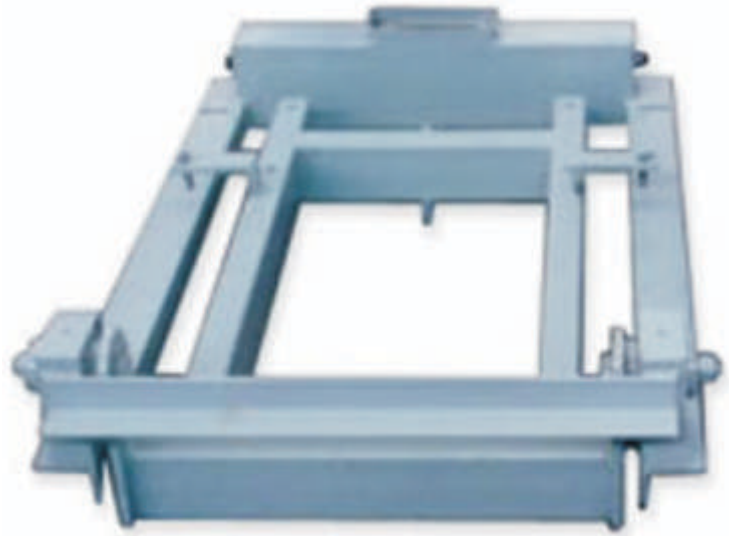
MATERIAL HANDLING EQUIPMENTS

BELT WEIGHERS

Dayate Eng. Manufacturer Microprocessor Based Electronic Belt Weigher For Continuous Weighing Application In Cement, Steel, Petrochemical Industries And Coal Handling Plants.

Dayate Eng. Belt Weigher Consist Of Three Major Elements

- 1) Weigh Bridge Assembly With Precise Strain Gauge Load Cell
- 2) Belt Speed Sensor Assembly And
- 3) Electronic Cabinet Often Referred As The Totaliser Or The Integrator Each Serves A District Function In The Process Of Accurately Weighing Material Moving On The Belt. Different Models Of Scale Carriage Are Available Depending Upon The Application, Scale Capacity And Belt Speed.
- 4) Simple Rugged And Unitized Scale Assembly For Easy Installation.
- 5) Super Precision Stainless Steel Strain Gauge Load Cell
- 6) Applied In Tension For Highly Accurate Load Measurement.



- 7) Special Trunnion Bushes To Absorb Normal Shocks And Transverse Forces, Weigh Idler Deflection Less Than 0.025 Mm At The Full Load
- 8) Fully Digital With Microprocessor And Battery Backup Memory.
- 9) Self Checking Diagnostic For Fault Indications.
- 10) Special Electronic Calibration Facility For Frequent Calibration Checks Without Handling Standard Weight.

Salient Features

- 1) Proven Conveyor Scale Software For Microprocessor Based Integrator.
- 2) Micromate Is A True Digital Device With Digital Read Out, Digital Processing, Bi-directional Integration And Drift Free Operation.
- 3) Automatic Calibration Of Zero Span And Selectable Auto Zero Tracking Available.
- 4) Bright Easy To Read Display Of Rate And Total.
- 5) Excellent Temperature Stability.

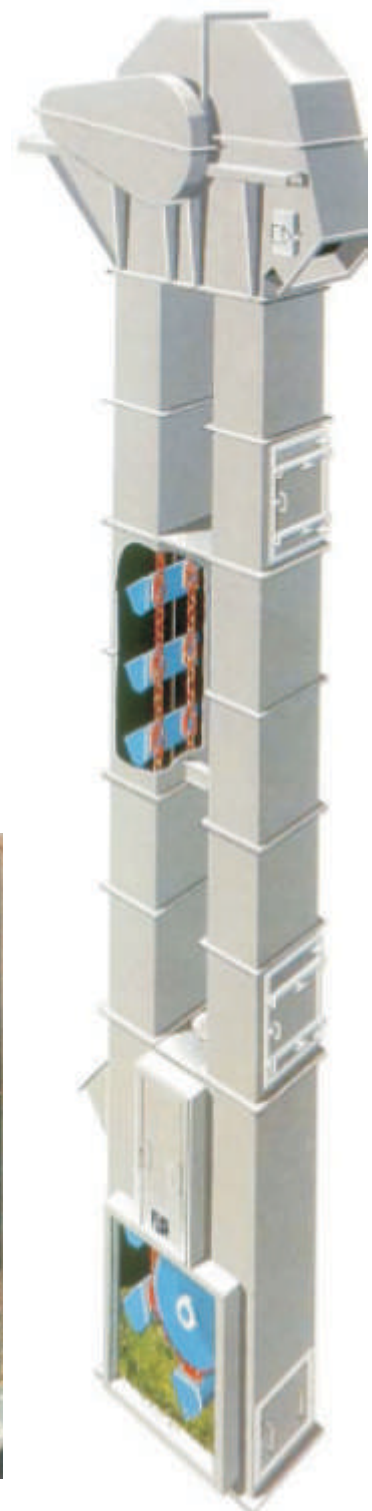
BUCKET ELEVATOR

These Elevators are fabricated by using premium quality materials as per the industry approved norms, ensuring a longer working life .We configure these machines for the purpose of elevating varieties of materials. These elevators consist of sealed structure and moving parts naming Hopper and Traction Chain, Transmission Sprocket, Tensioned Wheel, Middle Machine Shell and drive device. Dayate Eng. manufactures it in the range of 1 TPH to 300 TPH.

BUCKET ELEVATOR TYPE:

- Centrifugal Discharge Elevators
- Continuous Discharge Elevators
- Positive Discharge Elevators
- Super capacity Discharge Elevator

Available in
a. Chain type &
b. Belt type





Roller

- 1) Carrying Roller
- 2) Return Roller
- 3) Impact Roller
- 4) HDPE Roller
- 5) PPE Roller

Idler Frames

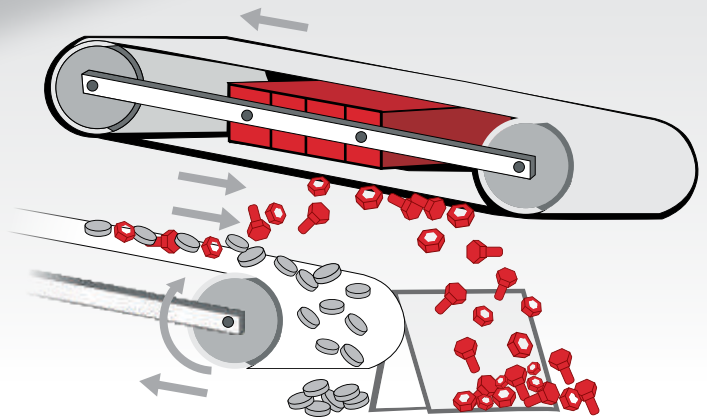
- 1) Carrying Frame
- 2) Self-Aligning Carrying
- 3) Return Roller Frame
- 4) Self-Align Return Frame



MAGNETIC SEPARATOR / EQUIPMENTS

OVERBAND MAGNETIC SEPARATOR

Over Band Magnetic Separators are designed to eliminate tramp metal from the product carried by belt, Used in recycling, quarrying and heavy industries.



TYPES OF OVERBAND MAGNETIC SEPARATOR

01. PERMANENT OVERBAND MAGNETIC SEPARATOR

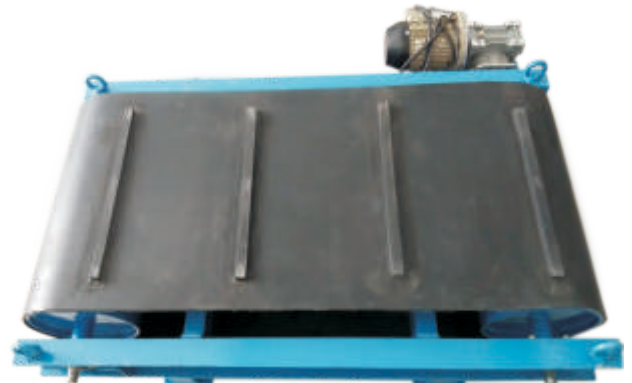
02. RARE EARTH OVERBAND MAGNETIC SEPARATOR

03. ELECTRO OVERBAND MAGNETIC SEPARATOR

- a. Air Cool System
- b. Oil Cool System

Salient Feature :

- Used in either ferrite or powerful rare earth magnet
- Separator body covering
- Low Maintenance cost
- The high efficiency of Separation
- long belt life
- Operating height upto 2 ft. is available.



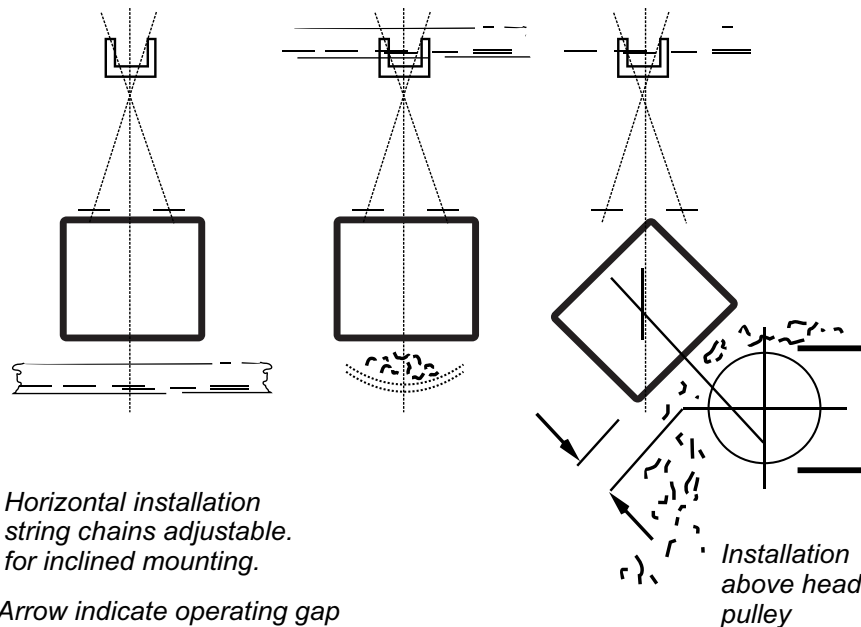
SUSPENSION MAGNETIC SEPARATOR

Use of Suspension type magnet is to extract tramp iron from Your Product stream conveyed by a conveyor belt or Vibratory feeder. Most Suitable for extracting ferrous particles like nuts, bolts, Channel, angles and various other tools from a product stream.



Types

- PERMANENT MAGNETIC SUSPENSION SEPARATOR
- RARE EARTH MAGNETIC SUSPENSION SEPARATOR
- ELECTRO MAGNETIC SUSPENSION SEPARATOR
 - a. Air Cool System
 - b. Oil Cool System



Salient Feature :

- Highly-efficient of Separation
- Low Maintenance cost
- Separate from belt Conveyor

*Horizontal installation
string chains adjustable.
for inclined mounting.*

Arrow indicate operating gap

*Installation
above head
pulley*

ELECTROMAGNETIC LIFTER

In compliance with the specific requirements of the customers, Magnetic Lifter offered by us is the best of its kind available in the markets. Magnetic Lifter manufactured by us serves the requirements of machine tool industry and different other industries. These lifters are used for carrying heavy or bulk products.

Features:

- Compact design
- Light in weight
- Ideal for round and flat material
- High lift to its weight ratio
- Easy and quick to operate through on/off System
- Neodymium Magnetic Powered System
- Enhances plant safety
- The Huge workpiece can be easily moved and handled with safety through a single operator

TYPES: ELECTRO MAGNETIC LIFTER
PERMANENT MAGNETIC LIFTER



MAGNETIC PULLEY

Dayate Eng. Magnetic Pulleys comprise of a shaft with the magnetic system built on it. Both ends of the shaft are adapted according to clients needs. These pulleys are usually installed in belt conveyors.

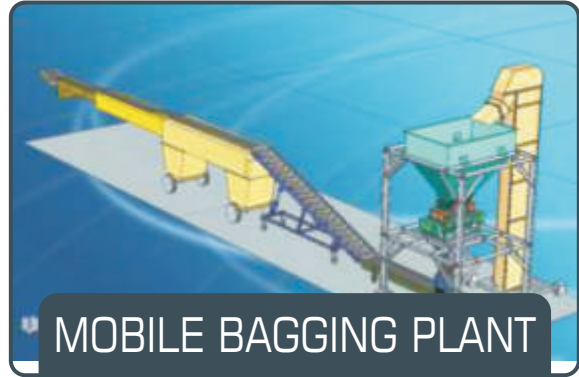
The magnetic system induces a strong magnetic field functioning all over the perimeter. All magnetizable material is attracted and pulled to the pulley, until it is extracted from the magnetic field by the lower run of the belt.



MAGNETIC SEPARATOR / EQUIPMENTS



BELT CONVEYOR



MOBILE BAGGING PLANT



SHUTTLE CONVEYOR



MOBILE STACKER



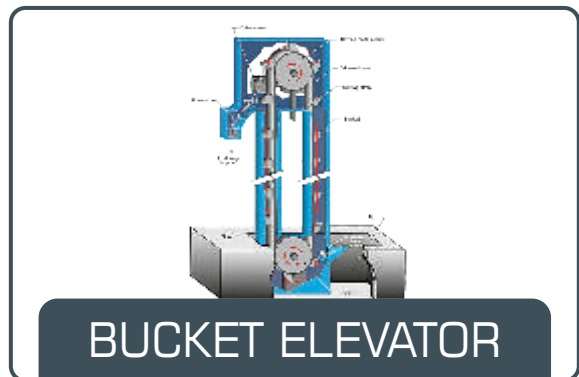
DRIVE & NON DRIVE



CARRYING ROLLER



IMPACT ROLLER



BUCKET ELEVATOR

OUR OTHER PRODUCTS



SCREW CONVEYOR



IMPACT PAD



TRIPPER



BAG DIVERTER

- ▶ **MOBILE STACKER FOR BAG STACKING**
 - i. SINGLE BOOM STACKER
 - ii. DOUBLE BOOM STACKER
- ▶ **MOBILE BAGGING UNIT**
(Elevator, Conveyor, Hopper, Bagging Machine, slat conveyor With stitching machine and Truck loader for Bag stacking in Truck) available in Fix and Movable.
- ▶ **MOBILE BAGGING UNIT Mounted on TRAILER.**
- ▶ **BELT FEEDERS**
- ▶ **ROLLER (CARRYING AND IMPACT)**
- ▶ **PULLEYS (ALL TYPES)**
- ▶ **BAG DIVERTER**
 - i. Belt type
 - ii. Fixed plate type
- ▶ **BAG PUSHER**
To change the bag direction on Belt

POWER CONTROL CENTER

POWER DISTRIBUTION BOARD

- Automatic power Factor Correction (A.P.F.C / Capacitor) panel
- Ability to maintain a consistent high Power Factor.
- Save on electricity bills by improving power factor.
- Eliminates the penalty of low power factor levied by electric utilities.
- Facility to select different Capacitor Bank for selection. up to 400 KVAR.
- Auto / manual mode selection Facility. Increase life of capacitor.

Diesel Generator Set Control Panel

- Control panel suitable upto 1500 KVA capacity
- Choice for parallel operation (synchronizing operation)
- Auto Mains Failure (A.M.F) Panel. Digital, Analogue, Process Parameter
- Battery charger panel.

Process Automation (Instrumentation) Control Panel / Desk

- **PLC Based** suitable for I/O Application, Optional with MMI Interface keypad.
- **AC/DC Drive Based** Complete with input Choke, Line & Load Harmonic Filter, Facility to Synchronizing two or mote motor with tech/encoder feedback option, Interlock with other process.
- **Control Desk** with MIMIC Display option with different sizes.

Our Range of Product is as per follows: ,

- Motor Control Center (M.C.C) / (Power Control Center (P.C.C)
- Bus bar rating upto 3000 Amps.
- compact compartmentalized design, extension on either side in future.
- Selection for top/bottom cable/bus duct entry.

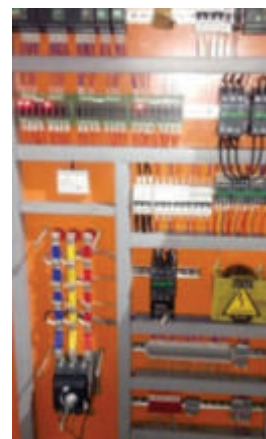
-
- L.T Distribution Board / Switch Board / Feeder Pillar
 - Design as per customer suitable size / specification.
 - Floor/ Wall Mounting option as per requirement.



CONTROL DESK



m/c Automation (PLC) Panel



POWER CONTROL CENTER

POWER DISTRIBUTION BOARD

Panel Boxes (Ready to wire), Terminal Junction Box, PB Station, Bus Duct.

- Different size available up to IP 65 Protection.
- Floor / Wall / Pedestal Mounting option.



We undertake modification (Renovation) job of existing old system (panels) to new system, which suits to all latest specification.

CONTROL DESK

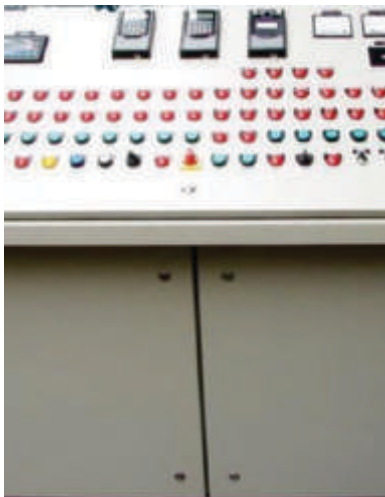


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OUR CLIENT

Our Clients, like our people, are our most treasured assets. DAYATE ENGINEERING is pleased to support a wide range of clients, including top pharmaceutical companies, food industries, recycling industries, Plastic industries & many other industries at global level.

With long list of clients, we are proud to be a part of great things our clients achieved. by building not just business but a really long lasting partnership with our clients, this helps us to truly understand their unique business need. i.e due to which we are able to customize our solutions and products to meet their long term business goals. we truly value our client's business and recognize that we are accountable to our clients, costumers and the high standards they demand and deserve.



INDUSTRIES WE SERVE



GLASS INDUSTRY



**PHARMACEUTICAL
INDUSTRY**



STEEL INDUSTRY



CEMENT INDUSTRY



TAXTILE INDUSTRY



**FOOD & BEVERAGE
INDUSTRY**



**PLASTIC
INDUSTRY**



**PLASTIC
INDUSTRY**



RECYCLING INDUSTRY



**THERMAL POWER
INDUSTRY**



CHEMICAL INDUSTRY



**MINERAL PROCESSING
INDUSTRY**



FLOOR MILLS



FERTILIZER INDUSTRY



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