



TECO

— GRAIN SILO —

TECO SILOS

**RELIABLE STORAGE.
STRONG FUTURE.**



DURABLE STRUCTURE

Long-lasting and
high performance



HIGH CAPACITY STORAGE

Safe and efficient
grain storage



ADVANCED TECHNOLOGY

Engineered with modern
solutions



EASY INSTALLATION & LOW MAINTENANCE

Cost-effective and
user-friendly



**STRONG
AND DURABLE**



**MAXIMUM
CAPACITY**



**ADVANCED
TECHNOLOGY**



**EASY SETUP
LOW MAINTENANCE**



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TECO DRYER

01 — STEEL BASED SILO

HIGH CAPACITY & LONG LIFE GRAIN STORAGE SOLUTIONS

TECO Steel Based Silos are professional storage systems built on a **FLAT STEEL BASE**, designed for high capacity grain storage and long-term safe keeping.

They are ideal solutions for large-scale grain businesses, licensed warehouses, port terminals, flour and feed mills, oilseed processing plants and industrial storage projects.

The steel based silo system allows the safe storage of thousands of tons of product. The flat steel base is an engineered steel structure and works in full integration with the ventilation system, temperature monitoring system and automatic discharge equipment for maximum efficiency.



WORKING PRINCIPLE



FILLING

The product is filled into the silo via elevators, chain conveyors or belt conveyor systems.



STORAGE & MONITORING

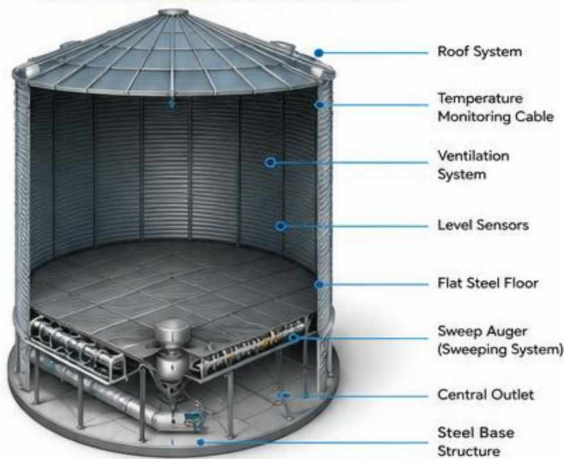
During storage, the ventilation system and temperature monitoring system continuously keep the product under control.



DISCHARGE

The product flows out by gravity through the central outlet. The sweep auger completely removes the remaining product, minimizing the residue inside the silo.

FLAT STEEL BASE CONSTRUCTION



TECHNICAL SPECIFICATIONS

- 100 – 25,000 ton single silo capacity
- 4.58 m – 32.00 m and above silo diameters
- Up to 32 meters body height
- High strength galvanized steel S350GD / S450GD
- Galvanizing coating options: Z350, Z450, Z600
- Bolted modular structure
- High strength roof system
- Flat steel base construction
- Ventilation ducts and fan system
- Temperature monitoring cable system
- Level sensors
- Sweep Auger
- Manual or automatic discharge system
- Ladder, platform and safety cage
- Design in accordance with Eurocode, EN and ANSI standards
- Engineering resistant to earthquake, wind and snow loads



DURABLE STRUCTURE

Engineered for extreme conditions



SUPERIOR ENGINEERING

Designed for safe storage



FLEXIBLE SOLUTIONS

Custom designs for every need



MAXIMUM STORAGE

Higher capacity with multi-silo systems

TECO DRYER

STEEL BASED
GRAIN SILOS

RELIABLE STORAGE FOR A WIDE RANGE OF PRODUCTS

TECO Dryer steel silos are designed to safely store a wide variety of grains, oilseeds, legumes and more.



STORABLE PRODUCTS

1 WHEAT



2 CORN



3 BARLEY



4 PADDY RICE



5 OATS



6 RYE



7 TRITICALE



8 SOYBEANS



9 SUNFLOWER



10 CANOLA



11 LEGUMES



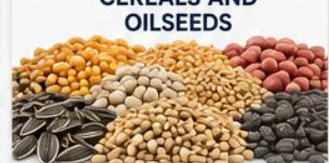
12 COFFEE BEANS



13 COCOA



14 ALL OTHER
CEREALS AND
OILSEEDS



SAFE STORAGE
Protects quality
and value



**WIDE
COMPATIBILITY**
Suitable for many
products



**HYGIENIC &
CLEAN STORAGE**
Keeps your grain
pure and safe



**LONG TERM
PRESERVATION**
Preserves freshness
for longer periods



**BUILT STRONG.
BUILT TO LAST.**



HIGH QUALITY STEEL
Corrosion resistant
galvanized steel



ENGINEERED SOLUTIONS
Custom designed for
your needs

TECHNICAL SPECIFICATIONS

HIGH CAPACITY, SAFE AND DURABLE GRAIN STORAGE SOLUTIONS



100 – 25.000 ton
single silo capacity



4,58 m – 32,00 m and larger
silo diameters



Up to 32 meters
body height



S350GD / S450GD
high strength
galvanized steel



Z350, Z450 and Z600
galvanized coating
options



Bolted modular
structure



High strength
roof system



Temperature
measurement
cable system



Ventilation
channels and
fan system



Level
sensors



Sweep
auger



Automatic
discharge
system

MODULAR BOLTED STRUCTURE



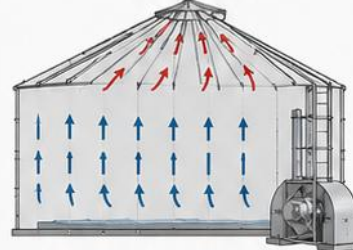
Fast assembly, high strength,
long service life

HIGH STRENGTH ROOF SYSTEM



Engineered for heavy loads,
maximum safety

VENTILATION SYSTEM



Effective aeration for grain
preservation and quality

ENGINEERED FOR ALL CONDITIONS



DESIGN COMPLIANT
WITH EUROCODE,
EN AND ANSI
STANDARDS
International standard
engineering and design



EARTHQUAKE
RESISTANT
ENGINEERING
Designed for high
seismic resistance



WIND LOAD
RESISTANT
ENGINEERING
Safe against
high wind loads



SNOW LOAD
RESISTANT
ENGINEERING
Reliable performance
under heavy snow loads



STRONGER STEEL
HIGHER SAFETY



MODULAR DESIGN
EASY AND FAST INSTALLATION



ADVANCED SYSTEMS
MAXIMUM PERFORMANCE



LONG SERVICE LIFE
LOW MAINTENANCE

ROOF VENTILATION SYSTEM

EFFECTIVE AIR CIRCULATION, SAFE GRAIN STORAGE



FUNCTION OF THE ROOF VENTILATION SYSTEM

The roof ventilation system ensures that the air passed through the grain by the ventilation fans is discharged to the outside in a controlled manner. It also helps to remove hot air, moisture and condensation that may occur in the silo, supporting the safe storage of grain for long periods.

While the fans send clean air from the bottom into the grain, the air rises through the grain layers and reaches the roof. The roof vents allow this air to escape naturally, creating continuous air circulation.



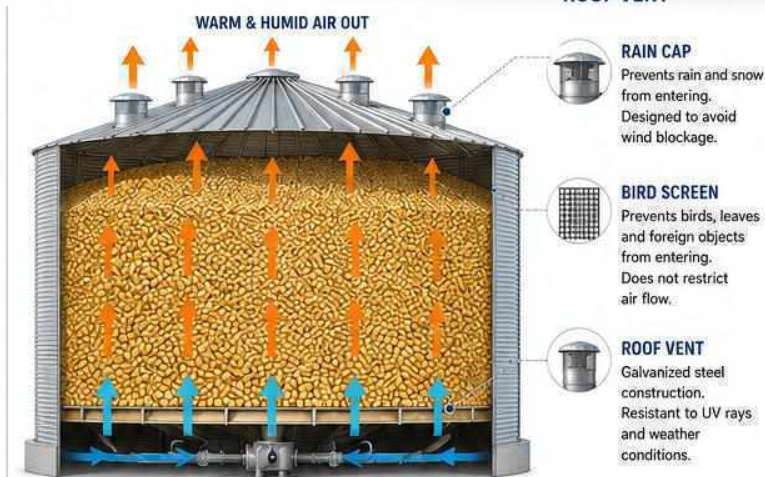
ROOF VENT



WORKING PRINCIPLE

- 1 Fans draw in outside air and push it into the ventilation channels at the silo floor.
- 2 Air moves uniformly upward through the entire grain.
- 3 It absorbs excess heat and moisture from the grain.
- 4 Warm and humid air reaches the silo roof.
- 5 Roof vents allow the air to be naturally discharged to the outside.
- 6 Thus, continuous and balanced air flow is provided inside the silo.

✓ This system prevents pressure build-up in the silo and enables the fans to operate more efficiently.



MAIN COMPONENTS



ROOF VENTS

- Made of galvanized steel
- UV and weather resistant
- Special design prevents rain entry
- Optional bird and foreign object protection
- Aerodynamic design for natural air flow



RAIN CAP

- Prevents rainwater from entering the silo
- Reduces snow entry
- Designed to avoid wind blockage



BIRD SCREEN

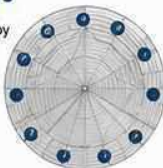
- Prevents birds from nesting
- Prevents leaves and foreign objects entering
- Mesh design that does not restrict air flow



NUMBER OF ROOF VENTS

The number of roof vents is determined by engineering calculations based on:

- ✓ Silo diameter
- ✓ Storage height
- ✓ Fan capacity
- ✓ Total air volume
- ✓ Type of stored product



In large diameter silos, the vent area is increased to ensure balanced air discharge across the entire cross-section.



BENEFITS

- ✓ Effectively removes hot air from the silo
- ✓ Reduces condensation
- ✓ Prevents water droplets under the roof
- ✓ Helps maintain the moisture balance of grain
- ✓ Reduces mold and fungus risk
- ✓ Limits the development of insect activity
- ✓ Allows fans to operate at lower pressure and higher efficiency
- ✓ Reduces energy consumption
- ✓ Extends storage period
- ✓ Helps preserve grain quality

TECO DRYER ROOF VENTILATION SYSTEM

The TECO Dryer roof ventilation system is specially designed for each project according to the air volume and silo geometry. The number, cross-sectional area and placement of roof vents are calculated in accordance with the fan capacity. This ensures homogeneous air circulation inside the silo, minimizes the risk of condensation and keeps the grain in the highest quality for longer.

Durable roof ventilation components made of galvanized steel provide reliable performance for many years without maintenance in harsh climatic conditions.



Effective air circulation



Lower energy consumption



Longer storage life



High grain quality



TECO
DRYER

EFFECTIVE AIR CIRCULATION,
SAFE GRAIN STORAGE.

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WHAT IS THE AERATION SYSTEM?

In flat bottom silos, the aeration system is one of the most important equipment used to control the temperature of stored grain, maintain moisture balance and ensure long-term safe storage.

The purpose of aeration is not to dry the grain; it is to **balance grain temperature, prevent condensation and preserve product quality.**



HOW IT WORKS

- 1 Clean air from outside is drawn in by high efficiency centrifugal or axial fans and sent to the air plenum chamber under the silo floor.
- 2 The air is evenly distributed into the grain mass through perforated aeration ducts, full perforated floor or half-perforated galvanized channels.
- 3 Air moves up through the grain mass and:
 - Lowers grain temperature
 - Eliminates hot spots
 - Prevents condensation
 - Reduces risk of insects and mold
 - Provides long-term safe storage
- 4 Finally, air exits from the roof vents of the silo.



MAIN COMPONENTS OF THE AERATION SYSTEM

1

AERATION FANS



Axial or centrifugal fans are used according to silo capacity.

- High air flow
- Low energy consumption
- Quiet operation
- IP55 motor protection
- Galvanized body
- Long life bearing system

Fan capacity is calculated according to silo diameter, grain height, product type and desired air flow.

2

AIR PLENUM CHAMBER



Incoming air from fans first reaches the plenum chamber.

- Balances the air
- Equalizes pressure
- Sends the same amount of air to all ducts

3

AERATION DUCTS



Galvanized perforated ducts on the plenum.

- Distributes air equally
- Prevents dead zones
- Delivers same air amount to every point
- Hot-dip galvanized
- High load bearing capacity

4

PERFORATED FLOOR SHEETS



In large silos, the entire floor can be made of perforated galvanized sheets.

- 100% uniform air distribution
- Lower fan pressure
- Lower energy consumption
- Better temperature control

5

ROOF VENTS



Air passing through the grain exits from the roof.

- Exhausts warm air
- Reduces condensation
- Prevents rain entry
- Prevents bird entry



TEMPERATURE MONITORING SYSTEM

Modern silos use a Temperature Cable System together with the aeration system.

Sensors placed inside the grain monitor continuously:

- Temperature
- Hot spot formation
- Product movement

When the temperature rises above the set limit, fans can be activated automatically.



AIR FLOW RATE (AIR VOLUME)

Air flow rate varies depending on the grain type and storage purpose.

STORAGE PURPOSE	AIR FLOW RATE
Long term storage	2 - 4 m ³ /h-ton
Commercial storage	5 - 8 m ³ /h-ton
Cooling purpose	8 - 12 m ³ /h-ton
Light drying support	15 - 25 m ³ /h-ton

BENEFITS OF AERATION



Balances grain temperature



Prevents mold formation



Reduces insect and pest population



Preserves product quality



Balances moisture differences



Reduces carbon dioxide accumulation



Prevents self-heating



Ensures long-term safe storage



Minimizes storage losses



Maintains commercial value

TECO DRYER AERATION SYSTEM

TECO Dryer flat bottom silo aeration systems are engineered by considering silo diameter, storage height, product type, climate conditions and desired air flow rate. In each system, fan capacity, duct layout, plenum height and roof exhaust openings are optimized to ensure uniform air flow throughout the grain. This minimizes temperature differences, prevents condensation and product deterioration, reduces energy consumption and ensures long-term safe storage.



TECO silo ladder systems are designed in accordance with international safety standards to ensure secure access to silo roofs, intermediate platforms and internal areas.

External ladders simplify inspection and maintenance, while internal ladders provide safe access inside the silo for service and control.

Manufactured from high strength galvanized steel, our ladder systems offer long service life with minimum maintenance even in harsh environments.

EXTERNAL LADDER SYSTEM

External ladders provide safe access from ground level to the silo roof.

Ladders are fixed to the silo body with special brackets and supported by rest platforms according to the silo height.

– FEATURES

- ✓ Hot-dip galvanized steel construction
- ✓ Non-slip step design
- ✓ High strength structural profiles
- ✓ Safety cage (Safety Cage)
- ✓ Rest platforms at intervals
- ✓ Galvanized handrail system
- ✓ Easy installation and maintenance
- ✓ Long service life
- ✓ Seismic and wind load resistant connections



SAFE ACCESS

Designed for operator safety at every level.



EASY MAINTENANCE

Quick and secure access to all service points.



DURABLE CONSTRUCTION

Galvanized steel for maximum strength and corrosion resistance.



STANDARDS COMPLIANT

Designed according to EN, Eurocode and OSHA standards.

SAFETY CAGE



The safety cage is installed around the ladder after a certain height:

- Helps prevent operator falls
- Ensures safe climbing
- Complies with international safety standards
- Standard for high capacity silos

REST PLATFORMS



Platforms installed at regular intervals on tall silos:

- Provide safe resting points
- Create working area during maintenance
- Can be used as safe holding points in emergencies

ROOF PLATFORM



The ladder system connects to the service platform on the silo roof. From this platform the following items can be safely accessed:

- Roof vents
- Manhole / Filling hatch
- Distributor system
- Temperature cables
- Level sensors
- Maintenance points

INTERNAL LADDER SYSTEM



Internal ladders start from the roof and provide safe access inside the silo.

Used for:

- Temperature cable inspection
- Internal maintenance
- Cleaning operations
- Technical service applications

Designed to avoid interfering with grain flow.

INTERNAL LADDER FEATURES

- ✓ Galvanized steel construction
- ✓ High strength connections
- ✓ Non-slip steps
- ✓ Corrosion protection for long service life
- ✓ Easy maintenance
- ✓ Safe ascent and descent

MATERIALS USED

TECO ladder systems are manufactured using:

- S350GD / S450GD High strength galvanized steel
- Z350, Z450 or Z600 Galvanized coating
- High strength galvanized connection components
- Non-slip galvanized step profiles

ADVANTAGES



Safe access to silo roof



Easy internal maintenance



Safe personnel movement



Faster maintenance & service



Low maintenance cost



Long service life



High corrosion resistance



Complies with safety standards



Modular design for easy installation

DESIGNED IN ACCORDANCE WITH INTERNATIONAL STANDARDS



EN ISO 14122

Safety of machinery – Permanent means of access to machinery



EUROCODE

(EN 1991 / EN 1993)

Structural loads and steel structure design



ANSI / OSHA

Industrial access and safety standards (optional)



THE TECO DRYER DIFFERENCE

TECO Dryer ladder and platform systems are engineered not only for access, but for years of safe and reliable use. Each project is designed considering silo height, wind loads, personnel safety and maintenance needs. Non-slip steps, safety cages, rest platforms and strong connection details provide operators with a safe and comfortable working environment on the silo.



TECO DRYER

SAFE ACCESS, RELIABLE ENGINEERING.

+90 501 350 31 30

ENGINEERED
FOR SAFETY
BUILT FOR
PERFORMANCE

TEMPERATURE MONITORING SYSTEM

CONTINUOUS CONTROL FOR SAFE GRAIN STORAGE

The temperature monitoring system is one of the most important automation systems that continuously monitors the temperature of the stored grain in flat bottom and conical bottom silos 24/7, provides early warnings and prevents product losses.

Hot spots may occur inside the silo due to the natural respiration of the grain, high moisture, foreign matter or insect activity during storage. If this temperature increase is not detected in time, it can lead to heating, mold, product spoilage and serious economic losses.



The TECO Temperature Monitoring System detects these risks before they occur and enables the operator to take early action.



HOW IT WORKS

- 1 Special temperature cables with digital sensors are installed vertically inside the silo.
- 2 Sensors continuously measure the temperature at different levels of the grain.
- 3 Measured data is sent to the control panel or computer.
- 4 The operator can monitor the temperature distribution inside the silo in real time.
- 5 When the set alarm temperature is exceeded, the system gives an automatic warning.
- 6 If required, ventilation fans can be activated automatically.



Thus, necessary precautions are taken before the temperature rises and product safety is ensured.



MAIN COMPONENTS

1 TEMPERATURE CABLES



- Extend from the roof to the floor
 - High tensile strength
 - UV resistant outer coating
 - Stainless steel fittings
 - Long service life
 - Easy installation
 - Maintenance free
- The number of cables is determined according to the silo diameter.

2 DIGITAL TEMPERATURE SENSORS



- High accuracy measurement
- Long-term stable performance
- No calibration required for many years
- Monitors different grain levels separately
- Sensor spacing is typically 1.5 to 2.5 meters according to project requirements.

3 DATA COLLECTION UNIT



- Automatically reads sensors
- Stores temperature records
- Reports temperature history
- Manages alarm system

4 MONITORING SOFTWARE



- Real-time monitoring of all silos
- Each sensor temperature separately
- Graphical temperature analysis
- Historical data and reports
- Alarm history records
- Remote access from different locations



ALARM SYSTEM

When the temperature exceeds the set limits, the system alerts the user via multiple methods:



Audible Alarm



Visual Alarm



Operator Screen Alert



SCADA Notification



PLC Output



Automatic Fan Control

Ventilation fans can be activated automatically if required to bring the temperature under control.



BENEFITS

- ✓ Keeps grain temperature under constant control
- ✓ Detects hot spots at an early stage
- ✓ Prevents grain heating
- ✓ Reduces mold and fungus formation
- ✓ Insect activity is detected early
- ✓ Maintains grain quality
- ✓ Minimizes storage losses
- ✓ Ventilation system operates more efficiently
- ✓ Optimizes energy consumption
- ✓ Ensures long-term safe storage
- ✓ Early warning and risk prevention
- ✓ Increases operational efficiency
- ✓ Provides peace of mind

SUITABLE FOR THE FOLLOWING PRODUCTS



Wheat



Corn



Barley



Paddy Rice



Oats



Rye



Canola



Sunflower



Soybeans



Pulses



Coffee Beans



Cocoa



Feed Ingredients

TECO DRYER TEMPERATURE MONITORING SYSTEM

TECO Dryer temperature monitoring systems are designed specifically for each silo project, considering capacity, diameter, product type and storage height. The number and placement of sensor cables are determined by engineering calculations to ensure uniform temperature control inside the silo. The system works integrated with ventilation fans, automation infrastructure and SCADA software to ensure safe storage of the product, detect possible risks at an early stage and increase operational efficiency.



Smart Monitoring



Early Risk Detection



Optimized Ventilation



Energy Efficiency



Safe Grain Storage



TECO
DRYER

SMART MONITORING TECHNOLOGY
FOR SAFE GRAIN STORAGE.

SILO DISCHARGE SYSTEM

RELIABLE, CONTROLLED AND EFFICIENT GRAIN DISCHARGE SOLUTIONS

TECO silo discharge system includes all mechanical components that ensure the controlled, fast and safe discharge of stored grain from the silo. Designed to take maximum advantage of the natural flow characteristics of the product, the system provides high discharge performance with minimum product loss and low energy consumption.

HOW IT WORKS

The stored product flows by gravity to the central discharge opening in the silo floor. When the discharge gates are opened, the grain is transferred in a controlled manner to the discharge auger, chain conveyor or the downstream conveying system.

In flat bottom silos, most of the product is discharged through the center outlet by gravity. In the final stage of discharge, the sweep auger collects the remaining grain and moves it to the center outlet, ensuring the silo is almost completely emptied.



FLAT BOTTOM SILO



Sweep auger collects the remaining grain and conveys it to the center.

CONICAL BOTTOM SILO



Product flows by gravity to the center outlet and is completely discharged.

MAIN COMPONENTS

1 CENTER DISCHARGE



- High flow capacity
- Low grain breakage
- Wear resistant structure
- Galvanized steel body
- Easy maintenance

2 INTERMEDIATE DISCHARGE



- Faster discharge
- More balanced product flow
- Reduces sweep auger operating time
- Energy savings

3 SLIDE GATES



- Manual slide gate
- Electric slide gate
- Pneumatic slide gate
- Hydraulic slide gate

4 DISCHARGE AUGER



- High conveying capacity
- Low energy consumption
- Quiet operation
- Low product damage

5 SWEEP AUGER



- Collects grain that cannot flow to the center
- Conveys it to the center outlet
- Ensures the silo floor is largely cleaned

INTERNAL DISCHARGE GATES

SAFE SOLUTION FOR CONTROLLED PRODUCT FLOW

Internal gates are mechanical gate systems located above the center discharge opening inside the silo that control product flow. They help ensure safe maintenance, service and discharge operations, especially in large capacity flat bottom silos.

The internal gate system allows the operator to completely stop or start the product flow in a controlled manner. Thus, uncontrolled product flow during maintenance of discharge equipment is prevented.



FUNCTIONS OF INTERNAL GATES

- ✓ Safely open and close product flow
- ✓ Facilitates maintenance of discharge equipment
- ✓ Protects augers and conveyors
- ✓ Prevents sudden product surge
- ✓ Starts discharge in a controlled manner
- ✓ Increases operational safety

TYPES OF INTERNAL GATES

MANUAL INTERNAL GATE

- Hand operated
- Simple and economical solution
- Suitable for small and medium scale facilities



ELECTRIC INTERNAL GATE

- Operated by motor gearbox
- Can be controlled remotely
- Can be integrated with PLC and automation systems



PNEUMATIC INTERNAL GATE

- Fast opening and closing
- Compatible with industrial automation systems
- Suitable for high duty cycle operations



ADVANTAGES OF INTERNAL GATES

- ✓ Safe product control
- ✓ Controlled discharge
- ✓ Low product loss
- ✓ High safety during maintenance
- ✓ Full compatibility with automation systems
- ✓ Long service life
- ✓ Low maintenance cost



APPLICATIONS



- Grain storage facilities
- Licensed warehouses
- Flour mills
- Feed mills

- Rice processing plants
- Oilseed processing plants
- Port grain terminals
- Seed processing plants

TECO DRYER ADVANTAGE

TECO silo discharge systems are specially designed for each project by considering the product type, silo capacity and desired discharge performance. The center discharge system, internal gates, slide gates, sweep auger and conveying equipment are engineered to work in perfect harmony. This ensures safe and controlled product flow, minimizes product losses, simplifies maintenance processes and increases the efficiency of your operation.



Controlled Discharge



Maximum Efficiency



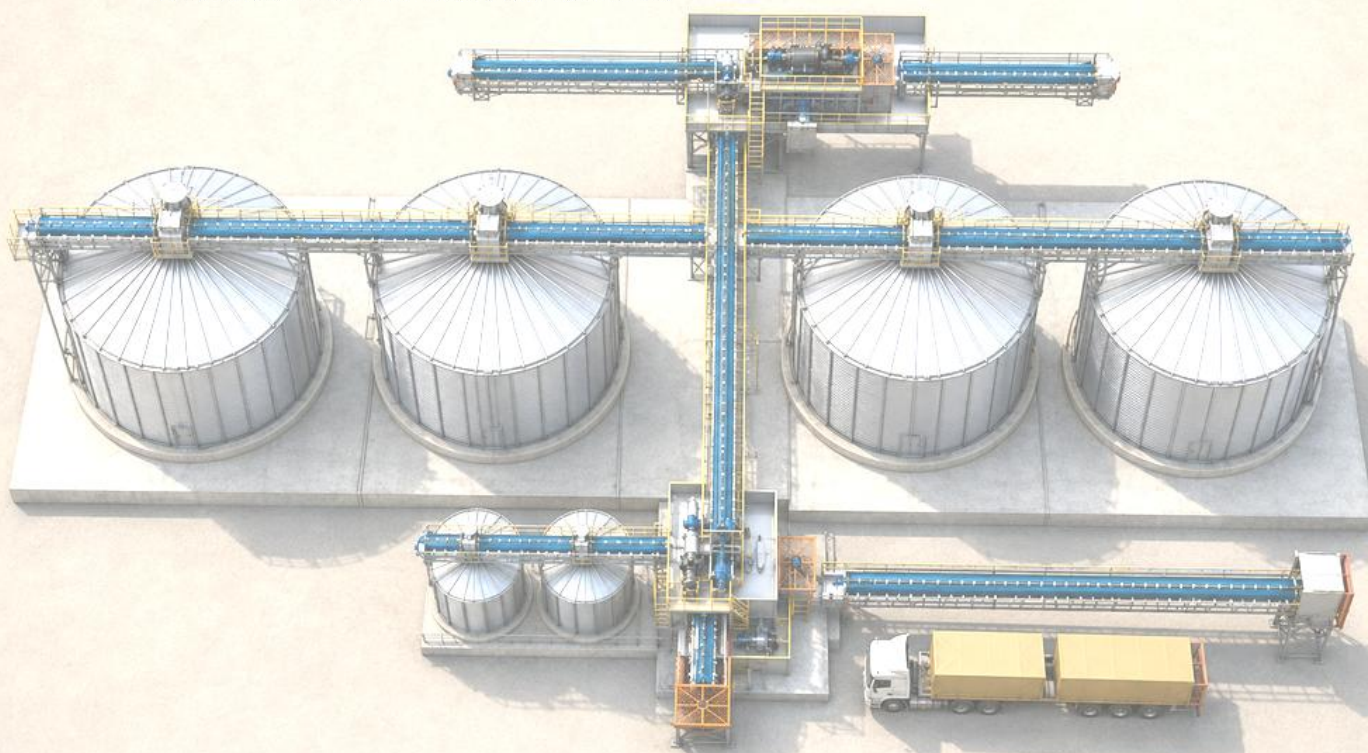
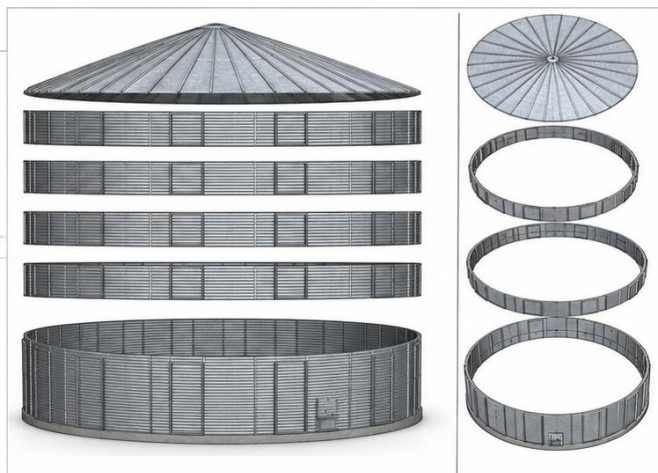
Reliable Engineering



Lower Operating Costs



Preserved Grain Quality







TECO DRYER
GRAIN STORAGE & DRYING SYSTEMS

02 —

CONE BOTTOM SILO

**Fast unloading. Maximum efficiency.
Suitable for a wide range of products.**

Cone bottom silos are storage systems designed to ensure fast, safe and complete unloading of grain and granular products by gravity. They are ideal for facilities that require frequent product turnover.

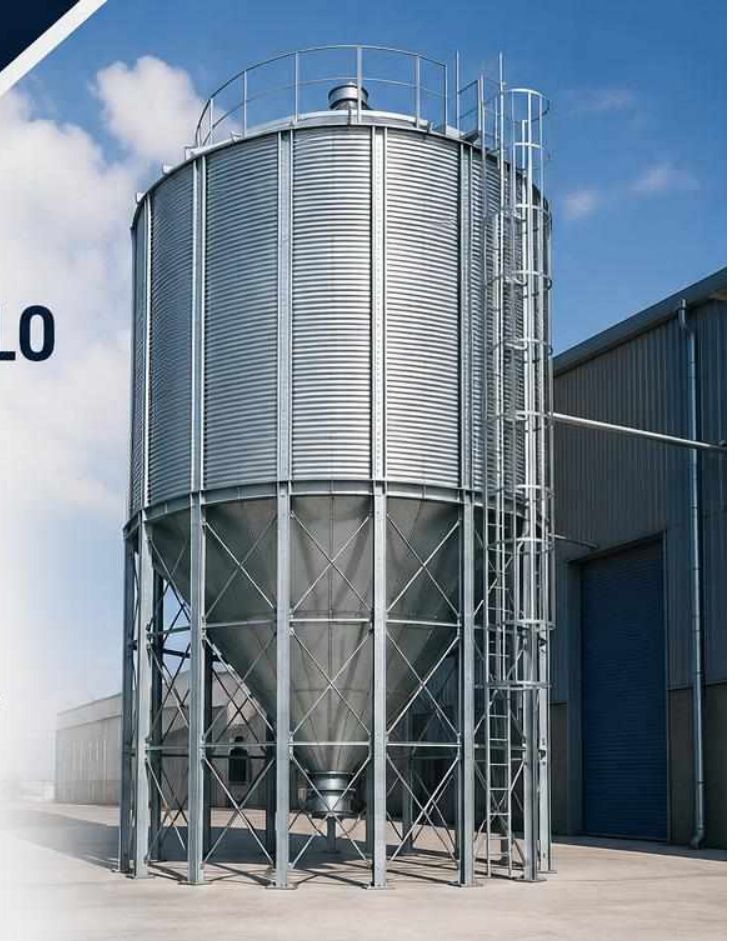
TECO Dryer cone bottom silos provide ideal storage solutions for wheat, corn, barley, sunflower, soybean, rice, feed, pulses and other bulk agricultural products. Thanks to the galvanized steel structure, they offer long-lasting performance with minimal maintenance.



STANDARD CAPACITY RANGE

5 to 2,000 TONS

Higher capacities available upon request.



KEY ADVANTAGES



NEARLY 100% PRODUCT DISCHARGE

Cone bottom design ensures complete and smooth emptying.



FAST LOADING AND UNLOADING

Saves time and increases operational efficiency.



SELF-SUPPORTING STEEL STRUCTURE

Strong and durable design for long-term reliability.



HOT-DIP GALVANIZED LONG-LASTING BODY

Excellent corrosion resistance and long service life.



COMPATIBLE WITH VENTILATION, LEVEL & TEMPERATURE SYSTEMS

Easy integration with modern monitoring and control systems.



SUITABLE FOR FOOD, FEED & AGRICULTURAL PRODUCT STORAGE

Hygienic and safe storage for a wide range of products.



PRODUCTS SUITABLE

- Wheat
- Corn
- Barley
- Sunflower
- Soybean
- Rice
- Feed
- Pulses
- And other bulk agricultural products



**HIGH QUALITY
MATERIALS**



**ENGINEERED
FOR SAFETY**



**EASY INSTALLATION
& MAINTENANCE**



**CUSTOM DESIGN
OPTIONS**

TECO DRYER
GRAIN STORAGE & DRYING SYSTEMS

MADE IN TÜRKİYE



THE TECO DRYER DIFFERENCE

Every TECO Dryer silo is custom engineered to meet the specific storage capacity, product flow, conveying systems and potential future expansion plans of our customers.

With a strong engineering infrastructure, high-quality materials and long-lasting durability, TECO Dryer delivers storage solutions that protect your investment and perform reliably for years to come.

TECO DRYER —
Reliable Engineering
Solutions for
Grain Storage.



CUSTOM ENGINEERING

Tailored designs based on your capacity, product type and operational needs.



HIGH STRENGTH & DURABILITY

Manufactured from high quality galvanized steel for maximum strength and long service life.



INTEGRATED SYSTEMS

Compatible with all conveying, cleaning and drying systems for efficient operation.



FUTURE EXPANSION

Engineered to allow easy capacity increase and system expansion.



SAFE & SECURE STORAGE

Ensures the safety, quality and value of your grain for the long term.



**SUPERIOR
ENGINEERING**



**PROVEN
PERFORMANCE**



**PREMIUM QUALITY
MATERIALS**



**RELIABLE PARTNER
WORLDWIDE**

TECO
DRYER

BUILT STRONG. BUILT TO LAST.
Your Trusted Partner in Grain Storage Solutions.



GLOBAL
EXPERIENCE



QUALITY
ASSURED



CUSTOMER
FOCUSED



AFTER SALES
SUPPORT

02

CONE BOTTOM SILO

FAST. CLEAN. EFFICIENT.
BUILT FOR PERFORMANCE.

Cone bottom silo systems designed for the safe and fast storage of various products.

TECO cone bottom silos are the ideal solution for facilities with frequent product turnover such as seed processing plants, feed mills, rice facilities and short-term storage applications.

The special cone bottom design allows complete unloading by gravity, minimizing product residue, reducing cross-contamination between different products and significantly shortening cleaning time. This preserves product quality and increases operational efficiency.

Each project is engineered and customized considering the type of product, capacity requirements, loading-unloading systems, climatic conditions and future capacity expansions.



COMPLETE UNLOADING

Almost 100% product discharge



FAST & CLEAN OPERATION

Shorter cleaning time, higher efficiency



STRONG & DURABLE

Galvanized steel structure for long-lasting service

TECHNICAL ADVANTAGES

- ✓ 50 – 2,500 ton single silo capacity
- ✓ 45° and 60° cone bottom options for complete unloading
- ✓ High strength galvanized steel body
- ✓ S350GD / S450GD steel quality
- ✓ Z350, Z450 and Z600 galvanized coating options
- ✓ Bolted modular construction
- ✓ Heavy duty steel supporting leg system
- ✓ Temperature monitoring system
- ✓ Ventilation and fan system
- ✓ Level sensors
- ✓ Manual or automatic discharge system
- ✓ Wide access for maintenance and cleaning
- ✓ Design in accordance with Eurocode, EN and ANSI standards
- ✓ Engineered for earthquake, wind and snow loads

CONE BOTTOM OPTIONS



45° CONE



60° CONE



HEAVY DUTY
SUPPORT LEGS



SMOOTH & FAST
DISCHARGE



SAFE ACCESS &
MAINTENANCE



CLEAN & HYGIENIC
STORAGE

SUITABLE PRODUCTS

- | | |
|--------|--------------------|
| Wheat | Sunflower |
| Corn | Soybeans |
| Barley | Pulses |
| Rice | Coffee Beans |
| Oats | Cocoa |
| Rye | Feed Raw Materials |
| Canola | Seed Products |

THE TECO DRYER DIFFERENCE



CUSTOM ENGINEERING

Tailor-made designs for your needs and future growth



HIGH QUALITY MATERIALS

Premium galvanized steel for maximum durability



GLOBAL STANDARDS

Eurocode, EN and ANSI compliant engineering



EXPERT SUPPORT

From project planning to after-sales service



RELIABLE STORAGE. HIGHER EFFICIENCY. LONG-TERM VALUE.



TECO DRYER
GRAIN STORAGE & DRYING SYSTEMS



WhatsApp & Phone

+90 501 350 31 30

MADE IN
TÜRKİYE



01 FLAT BOTTOM GRAIN SILOS

HIGH-CAPACITY & LONG-LASTING GRAIN STORAGE SOLUTIONS

TECO Dryer flat bottom silos are engineered to provide safe, efficient and long-term storage for all types of grains and oilseeds. Manufactured from high-quality galvanized steel and designed in accordance with international standards, our silos ensure maximum durability, reliability and excellent performance.

TECHNICAL FEATURES

-  **Single silo capacity**
100 – 25,000 tons
-  **Silo diameters**
4.58 m – 32.00 m and above
-  **Sidewall height**
Up to 32 meters
-  **High strength galvanized steel**
S350GD / S450GD
-  **Galvanized coating options**
Z350, Z450 and Z600
-  **Bolted modular construction**
-  **High strength roof system**
-  **Temperature monitoring cable system**
-  **Aeration channels and fan system**
-  **Level sensors**
-  **Sweep auger**
-  **Automatic unloading system**
-  **Designed in accordance with Eurocode, EN and ANSI standards**
-  **Engineered to withstand seismic, wind and snow loads**



CAPACITY RANGE



100 TONS
MINIMUM
SINGLE SILO
CAPACITY



25,000 TONS
MAXIMUM
SINGLE SILO
CAPACITY



For large projects, multi-silo solutions can provide total storage capacities exceeding **500,000 tons**.

APPLICATIONS



STANDARDS & ENGINEERING



- ✓ Seismic Resistant Design
- ✓ Wind Load Resistant Design

- ✓ Snow Load Resistant Design
- ✓ Long Service Life
- ✓ Low Maintenance Cost

03

FEED SILO

RELIABLE STORAGE SOLUTIONS
FOR FEED MILLS, LIVESTOCK FARMS
AND FEED PROCESSING PLANTS

TECO Feed Silos are designed to meet the storage needs of feed mills, livestock farms and compound feed production facilities. They ensure hygienic, safe and controlled storage of pellet feed, mash feed, cracked grains, bran and other feed ingredients.

Manufactured from high-strength galvanized steel, our silos provide excellent resistance against weather conditions and protect the feed from moisture, rain and environmental factors. Thanks to the modular structure, capacity expansion is easy and integration with existing production lines is seamless.

TECO feed silos are engineered to work perfectly with automatic feeding systems, augers, chain conveyors, bucket elevators and dosing equipment.



SAFE STORAGE

Protects feed quality from moisture, pests and contamination



HIGH DURABILITY

Galvanized steel construction for long service life



OPERATING EFFICIENCY

Smooth material flow and fast discharge



EASY INTEGRATION

Compatible with all feed handling and automation systems



TECHNICAL FEATURES

- ✓ 5 – 500 ton single silo capacity
- ✓ Flat bottom or cone bottom design options
- ✓ S350GD / S450GD high strength galvanized steel
- ✓ Z350, Z450 and Z600 galvanized coating options
- ✓ Bolted modular construction
- ✓ Heavy duty supporting structure
- ✓ Manual or automatic discharge system
- ✓ Level sensors
- ✓ Ventilation system (optional)
- ✓ Dust control and filter connections
- ✓ Compatible discharge system with feed augers
- ✓ Designed in accordance with Eurocode, EN and ANSI standards
- ✓ Engineered for earthquake, wind and snow loads



SUITABLE PRODUCTS

- | | |
|---|---|
|  Pellet Feed |  Sunflower Meal |
|  Mash Feed |  Bran |
|  Compound Feed |  DDGS |
|  Corn |  Cottonseed Meal |
|  Barley |  Feed Additives |
|  Wheat |  Mineral Mixes |
|  Soybean Meal |  Cracked Grains |



STRONG & SAFE DESIGN



STRONG SUPPORT
LEG SYSTEM



ROOF
VENTILATION SYSTEM



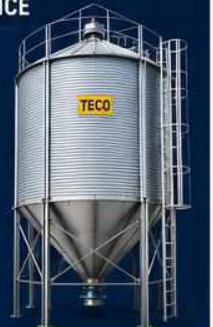
SMOOTH & COMPLETE
DISCHARGE



SAFE ACCESS &
MAINTENANCE

THE TECO DRYER DIFFERENCE

-  **CUSTOM ENGINEERING**
Tailor-made silo solutions for your capacity, layout and future growth
-  **HIGH QUALITY MATERIALS**
Premium galvanized steel and advanced manufacturing
-  **ADVANCED TECHNOLOGY**
Compatible with automation and smart monitoring systems
-  **RELIABLE SERVICE**
Fast technical support and spare parts availability



TECO Dryer – Reliable Storage Systems
for Livestock and Feed Industry.



TECO DRYER
GRAIN STORAGE & DRYING SYSTEMS



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MADE IN
TÜRKİYE



04 –

SELF-STIFFENED LEG CONICAL SILOS

HIGH LOAD CAPACITY AND MAXIMUM STRUCTURAL STRENGTH WITH SELF-STIFFENED LEG SYSTEM

TECO Self-Stiffened Leg Conical Silos are specially designed for high-capacity storage needs. The high-strength self-stiffened leg system integrated with the conical bottom transfers the loads directly to the supporting structure and minimizes deformation on the silo body.

This innovative design provides higher stability, longer service life and safer operation compared to conventional legged silo systems. It delivers superior performance especially in facilities with intensive filling-discharging operations and in regions with high wind and seismic loads.

Thanks to its conical bottom, the product is completely discharged without any residue. Cleaning time is reduced and cross contamination risk between different products is minimized.

Each silo is custom-engineered by TECO engineers considering the stored product, capacity, ground conditions, climate and facility layout.



-  **HIGH STRENGTH STRUCTURE**
Engineered for heavy loads
-  **LONG SERVICE LIFE**
Built with premium materials
-  **COMPLETE DISCHARGE**
Conical bottom ensures no product residue
-  **WIND & SEISMIC RESISTANT**
Designed for extreme conditions
-  **LOW MAINTENANCE**
Easy access for inspection and cleaning
-  **FLEXIBLE SOLUTIONS**
Modular design for future expansion

TECHNICAL FEATURES

-  Single silo capacity: 100 – 2,500 tons
-  45° and 60° conical bottom options
-  Self-stiffened (reinforced) leg system
-  Heavy duty steel supporting structure
-  S350GD / S450GD high strength galvanized steel
-  Z350, Z450 and Z600 galvanized coating options
-  Bolted modular construction
-  High strength roof system
-  Temperature monitoring cable system
-  Aeration and fan system
-  Level sensors
-  Manual or automatic discharge system
-  Easy maintenance and cleaning access
-  Designed in accordance with Eurocode, EN and ANSI standards
-  Engineered to withstand seismic, wind and snow loads

SELF-STIFFENED LEG SYSTEM

The self-stiffened leg design provides maximum load transfer and structural integrity. Integrated stiffeners increase stability and reduce steel usage while enhancing overall strength.



45° CONE



60° CONE

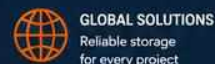
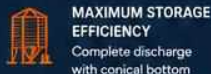


SUITABLE FOR STORING

- | | | |
|--|---|--|
|  Wheat |  Rye |  Feed Ingredients |
|  Corn (Maize) |  Canola (Rapeseed) |  Pellet Feed |
|  Barley |  Sunflower Seeds |  Coffee Beans |
|  Paddy (Rice) |  Soybeans |  Cocoa |
|  Oats |  Pulses |  Industrial Granular Products |

THE TECO DRYER DIFFERENCE

TECO's self-stiffened leg conical silo system is developed to ensure maximum safety and long service life in projects that require high load capacity. The integrated stiffened leg structure optimizes load distribution, balances steel consumption, increases structural strength and reduces maintenance requirements. Its modular design allows easy integration into existing facilities and adapts to future capacity expansions.





TRUCK LOADING SYSTEM

FAST, ACCURATE AND DUST-FREE LOADING OF GRAINS AND BULK PRODUCTS

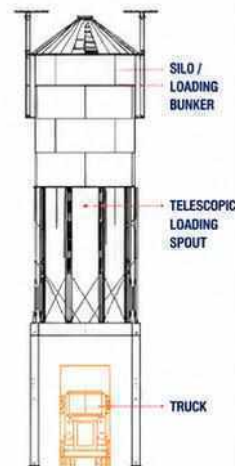
TECO Truck Loading Systems are high efficiency solutions designed for safe, fast and controlled loading of grains, feed raw materials and other bulk products into trucks, trailers and lorries. They are specially engineered for high throughput loading operations in storage facilities, licensed warehouses, port terminals, flour and feed mills and grain processing plants.

The system transfers the product from silo or intermediate storage bunker to the loading spout with controlled flow. Thanks to automatic loading control, product loss and dust formation are minimized and loading time is significantly reduced.

TECO truck loading systems are designed to work in full integration with chain conveyors, belt conveyors, elevators and automation systems.



SYSTEM SCHEMATIC



**50 – 500
TONS/HOUR**
LOADING CAPACITY



**FAST
LOADING**
SHORTER WAIT TIME



**DUST
CONTROL**
CLEAN OPERATION



**AUTOMATION
INTEGRATION**
PLC & SCADA



**SAFE &
RELIABLE**
SECURE OPERATION

WORKING PRINCIPLE

-  The product stored in silo or loading bunker is transferred to the system through slide gates with controlled flow.
-  The product is conveyed to the telescopic loading spout by conveying equipment. The spout extends into the truck body and discharges the product in a controlled manner.
-  The dust generated during loading is captured by the integrated dust collection system, preventing it from spreading to the environment. Level sensors and automatic control system ensure a safe, fast and accurate loading process.

MAIN COMPONENTS

1 TELESCOPIC LOADING SPOUT



- Adjustable telescopic design
- Minimal dust formation
- Adaptable to different truck heights
- Wear resistant material
- Easy maintenance

2 PRODUCT FEEDING SYSTEM



- Chain conveyor
- Belt conveyor
- Screw conveyor
- Elevator feeding system

3 SLIDE GATE CONTROL



- Options:**
- Manual slide gate
 - Electric slide gate
 - Pneumatic slide gate

4 DUST COLLECTION SYSTEM



- Benefits:**
- Clean working environment
 - Low product loss
 - Environmentally friendly operation
 - Compliant with occupational health and safety standards

5 AUTOMATION & CONTROL SYSTEM



- Start loading with one button
- Adjustable loading speed
- Level sensors monitoring
- Emergency stop system
- Safe and complete process control

TECHNICAL SPECIFICATIONS

- ✓ 50 – 500 tons/hour loading capacity
- ✓ Telescopic loading spout
- ✓ Heavy duty galvanized steel structure
- ✓ Dust collection filter system
- ✓ Automatic height adjustment (optional)
- ✓ PLC and SCADA integration
- ✓ Low energy consumption
- ✓ Easy maintenance and service
- ✓ Modular design
- ✓ Suitable for indoor and outdoor use

APPLICATION AREAS

- Grain storage facilities
- Licensed warehouses
- Port terminals
- Flour mills
- Feed mills
- Rice processing plants
- Oilseed processing plants
- Seed processing plants
- Industrial bulk product storage facilities

SYSTEM ADVANTAGES

- ✓ Fast loading operation
- ✓ Controlled product flow
- ✓ Minimum product loss
- ✓ Low dust emission
- ✓ Short vehicle waiting time
- ✓ Low operating cost
- ✓ Easy to use
- ✓ Long service life
- ✓ Compatibility with different vehicle types
- ✓ Full integration with automation systems

THE TECO DRYER DIFFERENCE

TECO truck loading systems are custom designed according to facility capacity, product characteristics and daily shipment volume. With the telescopic loading spout, precise flow control, dust collection system and automation infrastructure, fast, safe and environmentally friendly loading operations are achieved. With its robust steel structure and low maintenance requirements, it provides high performance for many years and increases the efficiency of logistics processes.



**FAST, ACCURATE & EFFICIENT
LOADING OF GRAIN AND BULK
MATERIALS INTO RAILCARS**

TECO Railcar Loading Systems are high-capacity solutions designed for fast, accurate and controlled loading of grain and bulk materials into railway wagons. With telescopic loading spout, automatic flow control, weighing system and dust collection unit, it ensures high speed, safe and environmentally friendly loading operations.

WORKING PRINCIPLE

- 1 The product is discharged from silo or loading hopper into the conveying system.
- 2 It is transported to the rail loading station by conveyor or elevator.
- 3 The telescopic loading spout extends into the railcar and loads the product safely.
- 4 The system continuously monitors level and controls the flow.
- 5 Dust is collected and each railcar can be loaded to target weight (optional).

MAIN SYSTEM COMPONENTS**01 TELESCOPIC
LOADING SPOUT**

- Automatic extension and retraction
- Minimal dust
- Wear-resistant
- Compatible with various railcars
- Easy maintenance

**02 PRODUCT
FEEDING SYSTEM**

- Chain Conveyor
- Belt Conveyor
- Screw Conveyor
- Bucket Elevator

**03 FLOW CONTROL
GATES**

- Manual Slide Gate
- Electric Slide Gate
- Pneumatic Slide Gate

**04 DUST COLLECTION
SYSTEM**

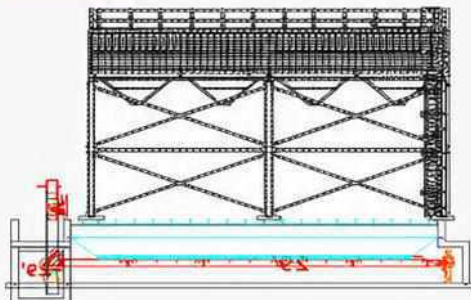
- Low dust emission
- Clean working environment
- Minimum product loss
- Environmental compliance

**05 AUTOMATION &
WEIGHING SYSTEM**

- PLC & SCADA control
- Target weight loading
- Level & flow monitoring
- Emergency stop system
- Reports & data logging

TECHNICAL SPECIFICATIONS

- ✓ 100 - 1,000 tons/hour loading capacity
- ✓ Telescopic loading spout
- ✓ Heavy-duty galvanized steel construction
- ✓ Automatic weighing system (optional)
- ✓ PLC and SCADA integration
- ✓ Dust collection filter system
- ✓ Low energy consumption
- ✓ Easy maintenance
- ✓ Modular design
- ✓ Suitable for indoor & outdoor use

SYSTEM LAYOUT**APPLICATIONS**

- Grain Storage Facilities
- Port Terminals
- Railway Logistics Centers
- Flour Mills
- Feed Mills
- Rice Processing Plants
- Oilseed Processing Plants
- Industrial Bulk Material Terminals

SYSTEM ADVANTAGES

- | | | | | |
|----------------------------|----------------------------------|----------------------------------|--------------------|--------------------------------|
| Very High Loading Capacity | Short Loading Time | Minimal Product Loss | Low Operating Cost | Automatic Weighing & Reporting |
| Long Service Life | Compatible with Various Railcars | Full Automation & Remote Control | | |

THE TECO DRYER ADVANTAGE

Engineered to your requirements with advanced automation, precise control and robust design, TECO Railcar Loading Systems increase efficiency, reduce operating costs and deliver reliable long-term performance.

TECO Dryer — Fast Railcar Loading, Maximum Efficiency and Reliable Engineering for Bulk Material Logistics.

07

GRAIN DRYER

HIGH-EFFICIENCY DRYING SYSTEMS
FOR GRAIN AND OILSEEDS

TECO
DRYER
TECHNOLOGY & ENGINEERING

MAXIMUM PRODUCT QUALITY WITH HIGH PERFORMANCE DRYING

TECO Grain Dryers are high-performance continuous flow drying systems that safely reduce the excess moisture of harvested grain for secure storage. They provide excellent drying performance for corn, wheat, rice, sunflower, soybeans and other bulk agricultural products.



CORN



WHEAT



SUNFLOWER



RICE

SOYBEAN
AND MORE

HIGH
EFFICIENCY



HOMOGENEOUS
DRYING



SAFE
STORAGE



CONTINUOUS
FLOW

WORKING PRINCIPLE



1 FEEDING

Grain is lifted by elevator and distributed evenly at the top of the dryer.



2 DRYING

Heated air passes through the drying columns. Moisture is removed while grain moves down slowly.



3 COOLING

After drying, grain is cooled to ambient temperature for safe storage.



4 DISCHARGE

Dried and cooled grain is discharged automatically and conveyed to silos or shipping line.

MAIN SYSTEM COMPONENTS

1 FEEDING SYSTEM



- Bucket Elevator
- Top Distributor
- Feed Hopper
- Automatic Distributor

2 DRYING COLUMNS



- Uniform air distribution
- Low grain breakage
- Continuous flow
- High drying efficiency
- Galvanized steel structure

3 HEATING SYSTEM



- Natural Gas
- LPG
- Diesel (Optional)
- Fuel-Oil (Optional)
- Hot air generator or heat exchanger (optional)

4 BURNER SYSTEM



- High combustion efficiency
- Low fuel consumption
- Automatic flame control
- Safe operation

5 FAN SYSTEM



- High air volume
- Low energy consumption
- Low noise level
- Long service life

6 COOLING SECTION



- Prevents condensation
- Safe storage
- Prevents temperature rise in silo

7 DISCHARGE SYSTEM



- Automatic discharge
- Uniform grain flow
- Maintains capacity
- Stable drying quality

8 AUTOMATION & CONTROL SYSTEM



- PLC & SCADA control
- Temperature control
- Moisture reduction
- Product flow rate
- Fan & burner control
- Alarms & safety



TECHNICAL SPECIFICATIONS

- ✓ Drying capacity: 5 – 120 tons/hour
- ✓ Continuous flow operating system
- ✓ Low temperature homogeneous drying
- ✓ Galvanized steel construction
- ✓ Modulating high efficiency burner
- ✓ High efficiency axial fan system
- ✓ Automatic discharge mechanism
- ✓ PLC and SCADA integration
- ✓ Low energy and fuel consumption
- ✓ Easy maintenance and service
- ✓ Modular design



DRYABLE PRODUCTS

- ✓ Corn
- ✓ Wheat
- ✓ Barley
- ✓ Rice
- ✓ Sunflower
- ✓ Canola
- ✓ Soybean
- ✓ Oats
- ✓ Rye
- ✓ Triticale
- ✓ Paddy
- ✓ Coffee Beans
- ✓ Cocoa
- ✓ Pulses
- ✓ Oilseeds
- ✓ And more...



SYSTEM ADVANTAGES

- ✓ Homogeneous and quality drying
- ✓ Low fuel consumption
- ✓ High drying capacity
- ✓ Minimum grain breakage
- ✓ Continuous uninterrupted operation
- ✓ Low operating cost
- ✓ Long service life
- ✓ Safe automation system
- ✓ Easy maintenance
- ✓ Suitable for different products



APPLICATION AREAS

- ✓ Licensed Grain Storage Facilities
- ✓ Grain Storage Plants
- ✓ Flour Mills
- ✓ Feed Mills
- ✓ Rice Processing Plants
- ✓ Oilseed Processing Plants
- ✓ Seed Production Plants
- ✓ Port Terminals
- ✓ Agricultural Cooperatives
- ✓ Industrial Agricultural Operations

THE TECO DRYER ADVANTAGE

Every TECO Grain Dryer is custom engineered according to grain type, initial and target moisture content, climate conditions and daily capacity needs. With high-efficiency drying columns, optimized air channels, low fuel consumption burner system and advanced automation, TECO Dryers deliver maximum product quality with minimum energy cost. Our robust galvanized steel construction ensures long-lasting and reliable performance in any part of the world.



HIGH
EFFICIENCY



LOW ENERGY
CONSUMPTION



MAXIMUM
QUALITY



LONG
SERVICE LIFE

TECO
DRYER
TECHNOLOGY & ENGINEERING

TECO Dryer — High Efficiency Drying Technology, Maximum Product Quality and Reliable Engineering.

Your Solution Partner in Grain Drying

07

GRAIN DRYER

HIGH-EFFICIENCY DRYING SYSTEMS
FOR GRAIN AND OILSEEDS

TECO
DRYER
TECHNOLOGY & ENGINEERING



TECO Grain Dryers are high-performance continuous flow drying systems that remove excess moisture from harvested grain in a controlled way for safe storage. They provide excellent drying performance for corn, wheat, rice, sunflower, soybeans and other bulk agricultural products.

-  **HIGH EFFICIENCY**
Low fuel consumption, high drying performance
-  **HOMOGENEOUS DRYING**
Uniform airflow and product flow
-  **SAFE STORAGE**
Reduces moisture to safe storage level
-  **CONTINUOUS FLOW**
High capacity, uninterrupted operation
-  **DURABLE CONSTRUCTION**
Galvanized steel structure for long service life
-  **ADVANCED AUTOMATION**
PLC & SCADA control for maximum reliability



WORKING PRINCIPLE

- 1 FEEDING**
Grain is lifted by elevator and distributed evenly at the top of the dryer.
- 2 DRYING**
Heated air passes through the drying columns. Moisture is removed while grain moves down slowly.
- 3 COOLING**
After drying, grain is cooled to ambient temperature for safe storage.
- 4 DISCHARGE**
Dried and cooled grain is discharged automatically and conveyed to silos or shipping line.

MAIN SYSTEM COMPONENTS

1 FEEDING SYSTEM



- Bucket Elevator
- Top Distributor
- Feed Hopper
- Automatic Distributor

2 DRYING COLUMNS



- Uniform air distribution
- Low grain breakage
- Continuous flow
- High drying efficiency
- Galvanized steel structure

3 HEATING SYSTEM



- Natural Gas
- LPG
- Diesel (Optional)
- Fuel-Oil (Optional)
- Hot air generator or heat exchanger (optional)

4 BURNER SYSTEM



- High combustion efficiency
- Low fuel consumption
- Automatic flame control
- Safe operation

5 FAN SYSTEM



- High air volume
- Low energy consumption
- Low noise level
- Long service life

6 COOLING SECTION



- Prevents condensation
- Safe storage
- Prevents temperature rise in silo

7 DISCHARGE SYSTEM



- Automatic discharge
- Uniform grain flow
- Maintains capacity
- Stable drying quality

8 AUTOMATION & CONTROL SYSTEM



- Inlet / outlet temp.
- Drying air temp.
- Moisture reduction
- Product flow rate
- Fan status
- Burner capacity
- Alarms & safety
- PLC, MCC & SCADA integration

TECHNICAL SPECIFICATIONS

- ✓ Drying capacity: 5 – 120 tons/hour
- ✓ Continuous flow operating system
- ✓ Low temperature homogeneous drying
- ✓ Galvanized steel construction
- ✓ Modulating high efficiency burner
- ✓ High efficiency axial fan system
- ✓ Automatic discharge mechanism
- ✓ PLC and SCADA integration
- ✓ Low energy and fuel consumption
- ✓ Easy maintenance and service
- ✓ Modular design

DRYABLE PRODUCTS

- ✓ Corn
- ✓ Wheat
- ✓ Barley
- ✓ Rice
- ✓ Sunflower
- ✓ Canola
- ✓ Soybean
- ✓ Oats
- ✓ Rye
- ✓ Triticale
- ✓ Paddy
- ✓ Coffee Beans
- ✓ Cocoa
- ✓ Pulses
- ✓ Oilseeds
- ✓ And more



SYSTEM ADVANTAGES

- ✓ Homogeneous and quality drying
- ✓ Low fuel consumption
- ✓ High drying capacity
- ✓ Minimum grain breakage
- ✓ Continuous uninterrupted operation
- ✓ Low operating cost
- ✓ Long service life
- ✓ Safe automation system
- ✓ Easy maintenance
- ✓ Suitable for different products

APPLICATION AREAS

- ✓ Licensed Grain Storage Facilities
- ✓ Grain Storage Plants
- ✓ Flour Mills
- ✓ Feed Mills
- ✓ Rice Processing Plants
- ✓ Oilseed Processing Plants
- ✓ Seed Production Plants
- ✓ Port Terminals
- ✓ Agricultural Cooperatives
- ✓ Industrial Agricultural Operations



"THE TECO DRYER ADVANTAGE"

Every TECO Grain Dryer is custom engineered according to grain type, initial and target moisture content, climate conditions and daily capacity needs. With high-efficiency drying columns, optimized air channels, low fuel consumption burner systems and advanced automation, TECO Dryers deliver homogeneous drying, reduce energy costs and preserve maximum product quality. Our robust galvanized steel construction ensures long-lasting and reliable performance in any part of the world.



TECO
DRYER

High Efficiency Drying Technology,
Maximum Product Quality and
Reliable Engineering.

TECO DRYER
TECHNOLOGY & ENGINEERING



RECEIVING HOPPER SYSTEM

FAST, SAFE AND EFFICIENT PRODUCT RECEPTION FROM DUMP TRUCKS AND TRANSPORT VEHICLES

TECO Receiving Hopper Systems are high-capacity solutions designed for fast, safe and controlled reception of grains and other bulk products from dump trucks, trailers and agricultural transport vehicles.

The product is discharged into the hopper and then conveyed by chain conveyor, screw conveyor or elevators to cleaning, drying or storage systems. The large capacity hopper and high conveying capacity reduce vehicle waiting times and significantly increase the facility's intake capacity.


**50 – 500
TONS/HOUR**
RECEPTION CAPACITY


**FAST
DISCHARGE**
SHORTER WAIT TIME


**DUST
CONTROL**
CLEAN OPERATION


**AUTOMATION
INTEGRATION**
PLC & SCADA


**SAFE &
RELIABLE**
SECURE OPERATION



WORKING PRINCIPLE

-  The vehicle is positioned on the platform and the product is discharged into the hopper.
-  The conveying system transfers the product in a controlled manner to the main conveyor.
-  From the main conveyor, the product is automatically transported to cleaning, drying, storage silos or production lines.

MAIN COMPONENTS

1 RECEIVING HOPPER



- Large capacity hopper
- High impact resistance
- Wear resistant inner surface
- Optimized slope for smooth flow
- Heavy duty steel structure

2 GRIZZLY GRID



- Heavy duty grizzly grid
- Separates large stones, wood pieces, sacks and foreign materials
- Protects conveyors and elevators

3 CONVEYING SYSTEM



- Chain conveyor
- Screw conveyor
- Belt conveyor
- Continuous and controlled product flow

4 DUST CONTROL SYSTEM



- Integrated dust extraction and filter system
- Low dust emission
- Clean working environment
- Environmentally friendly

5 AUTOMATION SYSTEM



- PLC and MCC panel integration
- Automatic start of conveyors
- Sequential motor control
- Overload protection
- Full system integration

TECHNICAL SPECIFICATIONS

- ✓ 50 – 500 tons/hour reception capacity
- ✓ Above ground or pit type options
- ✓ Heavy duty steel construction
- ✓ Wear resistant inner surface
- ✓ Galvanized or painted options
- ✓ Chain, belt or screw conveyor integration
- ✓ Dust collection filter system
- ✓ PLC and SCADA integration
- ✓ Modular design
- ✓ Easy maintenance and service

APPLICATION AREAS

- Grain storage facilities
- Licensed warehouses
- Flour mills
- Feed mills
- Rice processing plants
- Oilseed processing plants
- Port terminals
- Grain drying facilities
- Seed processing plants
- Industrial bulk product storage facilities

SYSTEM ADVANTAGES

- ✓ High product reception capacity
- ✓ Reduced vehicle waiting time
- ✓ Fast and uninterrupted discharge
- ✓ Minimum product loss
- ✓ Low dust emission
- ✓ Protects conveying equipment
- ✓ Low maintenance cost
- ✓ Long service life
- ✓ Full automation compatibility
- ✓ Safe and efficient operation

OPTIONAL EQUIPMENTS

- Hydraulic tipper truck unloading system
- Weighing system integration
- Sampling probe
- Magnetic separator
- Vibrating pre-screening system
- Level sensors
- Heated hopper (cold climate)
- Remote monitoring and SCADA integration



DUMP TRUCK UNLOADING



HEAVY DUTY GRIZZLY GRID



CHAIN CONVEYOR



DUST COLLECTION SYSTEM



ROBUST STEEL STRUCTURE

TECO Dryer

Fast Product Reception,
Uninterrupted Flow and
Reliable Engineering.



TECO Drum Type Pre-Cleaning Machine is designed to remove coarse and light impurities such as straw, stalks, stones, chaff, husk and other foreign materials from grain before storage or further processing.

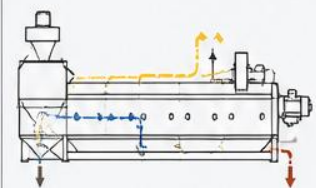


WORKING PRINCIPLE

Grain enters the machine from the inlet and is evenly distributed over the rotating drum. Clean grain passes through the screen holes and is discharged from the clean grain outlet. Coarse impurities move to the end of the drum and are discharged from the oversize outlet. Light materials and dust are removed by the aspiration system.

FEATURES

- High capacity and continuous operation
- Rotary drum with perforated screens
- Adjustable drum speed
- Effective separation of coarse and light impurities
- Low energy consumption
- Easy maintenance and screen replacement
- Optional aspiration system
- Robust steel construction
- Suitable for indoor and outdoor installation



- CLEAN GRAIN
- LIGHT IMPURITIES (ASPIRATION)
- COARSE IMPURITIES (OVERSIZE)

SUITABLE PRODUCTS

- Corn
- Wheat
- Barley
- Paddy Rice
- Sunflower
- Soybean
- Canola
- Oats
- Rye
- Triticale
- Pulses
- Rice
- Coffee Beans
- Oilseeds
- Other Bulk Agricultural Products



APPLICATIONS

- Grain Receiving Facilities
- Grain Drying Plants
- Licensed Warehouses
- Flour Mills
- Feed Mills
- Rice Processing Plants
- Oilseed Processing Plants
- Seed Processing Facilities
- Port Grain Terminals
- Agricultural Cooperatives

BENEFITS

- Improves grain quality
- Increases dryer & silo efficiency
- Reduces wear on conveying equipment
- Prevents blockages
- Reduces dust and plant contamination
- Ensures safe storage
- Low energy consumption
- High cleaning efficiency



IMPROVES
GRAIN QUALITY



INCREASES DRYER &
SILO EFFICIENCY



PREVENTS BLOCKAGES IN
CONVEYING EQUIPMENT



LOW ENERGY
CONSUMPTION



REDUCES DUST &
PLANT CONTAMINATION



RELIABLE &
LONG LIFE

09 TRUCK WEIGHBRIDGE

HIGH-PRECISION, RELIABLE AND HEAVY-DUTY WEIGHING SYSTEMS FOR HIGH-CAPACITY VEHICLES

TECO Truck Weighbridges are advanced electronic weighing systems designed for accurate and reliable weighing of heavy-duty vehicles in grain storage facilities, licensed warehouses, flour and feed mills, port terminals, and industrial plants.

Accurate weighing is critical for product receiving, dispatch operations, commercial reliability and inventory management. TECO Truck Weighbridges provide long-term reliable performance with high-precision load cells, robust steel or concrete platform structures and advanced electronic indicators.

The system is engineered to work in full compatibility with vehicle access control, automatic data recording, computer integration and plant automation.



WORKING PRINCIPLE

The vehicle is completely positioned on the weighing platform. The load on the platform is detected by high-precision load cells and converted into an electrical signal.

These signals are transmitted to the electronic weighing indicator and processed by advanced digital processors to calculate the actual weight.

Weighing results can be displayed on the indicator, transferred to a computer, printed or integrated with ERP and automation systems.

MAIN COMPONENTS



1 WEIGHING PLATFORM

Main structure that carries the vehicle load.

- Heavy duty steel or concrete platform
- High load bearing capacity
- Low platform deflection
- Non-slip surface design
- Long service life



2 LOAD CELLS

Sensors that measure the load on the platform with high accuracy.

- Stainless steel body
- IP68 / IP69K protection class
- Overload protection
- High accuracy
- Long operational life



3 WEIGHING INDICATOR

Processes data from load cells and displays weight information.

- Gross weight
- Tare weight
- Net weight
- Date and time record
- Vehicle information
- Product information
- Printer and computer connection



4 SOFTWARE & AUTOMATION SYSTEM

Advanced software records all product inbound and outbound operations.

- Vehicle registration system
- License plate recognition (Optional)
- Barcode and RFID integration
- Daily dispatch reports
- Inventory tracking
- ERP integration
- Remote monitoring and reporting

ACCESSORIES (Optional)



Traffic Light



Barrier System



Camera System



License Plate Recognition (LPR)



Printer



LED External Display



Card Reader



RFID System



Remote Control

TECHNICAL SPECIFICATIONS

- Weighing capacity: 30 – 150 ton
- Platform length: 6 – 24 meter
- Platform width: 3 – 3.5 meter
- Steel or concrete platform option
- Digital load cells
- High accuracy $\pm 0.02\%$
- IP68 / IP69K protected load cells
- Computer and network connection
- PLC and SCADA integration
- Suitable for indoor and outdoor use

APPLICATIONS

- Licensed warehouses
- Grain storage facilities
- Grain drying plants
- Flour mills
- Feed mills
- Rice processing plants
- Oilseed processing facilities
- Port terminals
- Agricultural cooperatives
- Industrial manufacturing plants
- Logistics centers
- Mining and recycling facilities

SYSTEM ADVANTAGES

- High weighing accuracy
- Reliable commercial measurement
- Durable platform structure
- Long service life
- Low maintenance cost
- Fast vehicle throughput
- Digital data recording
- Easy operation
- Full integration with automation systems
- Compliant with international metrology standards

OPTIONAL EQUIPMENT

- Fully automatic weighbridge management system
- Vehicle identification and license plate recognition
- RFID access control
- Camera assisted recording system
- Remote access and cloud reporting
- Traffic barriers and signaling
- External LED weight display
- Printer and ticket issuing system
- Solar powered operation (Optional)

**TECO
DRYER**

THE TECO ADVANTAGE

TECO Truck Weighbridges are custom designed for each project based on daily vehicle traffic, maximum vehicle weight and automation needs. High-precision load cells, robust platform structure and advanced electronic control system ensure reliable weighing results and seamless integration with automation and ERP systems. Durable construction and low maintenance requirements guarantee long-lasting high performance even in heavy-duty working conditions.



TECO DRYER
PRECISION WEIGHING,
RELIABLE MEASUREMENT
AND STRONG INDUSTRIAL
SOLUTIONS

TRUCK DUMPER SYSTEM

FAST, SAFE AND EFFICIENT UNLOADING OF TRUCKS AND TRAILERS

TECO Truck Dumper Systems are heavy duty hydraulic tilting solutions designed to unload grains and other bulk agricultural products from trucks and trailers quickly, safely and completely.

The truck is hydraulically lifted to an optimal angle, allowing the material to flow by gravity into the receiving hopper. This ensures full discharge in a short time, reducing vehicle waiting time and increasing daily receiving capacity.



					
60 - 120 TONS LIFTING CAPACITY	45° - 55° TILTING ANGLE	SAFE & RELIABLE OPERATION	FAST UNLOADING TIME	HIGHER RECEIVING CAPACITY	LOW ENERGY CONSUMPTION

WORKING PRINCIPLE

1 The truck is positioned on the platform and secured. 	2 The operator activates the system. Hydraulic cylinders start lifting the platform. 	3 The platform is lifted to the required angle. The product flows by gravity into the receiving hopper. 	4 The truck bed is completely emptied. 	5 The platform is lowered down and the vehicle leaves the system safely. 
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MAIN COMPONENTS

1 HYDRAULIC PLATFORM  - Heavy duty steel construction - High load capacity - Reinforced structure - Anti-slip surface - Long service life	2 HYDRAULIC CYLINDER SYSTEM  - Powerful lifting capacity - Smooth and stable movement - Low maintenance - High safety - Long working life	3 HYDRAULIC POWER UNIT  - Hydraulic pump - Oil tank - Filter system - Pressure control valves - Safety valves - Electric motor	4 SAFETY SYSTEM  - Emergency stop button - Mechanical safety locks - Hydraulic safety valves - Platform limit switches - Wheel chocks - Overload protection	5 ELECTRICAL & AUTOMATION  - MCC or PLC control panel - One-touch lifting and lowering - Automatic stop system - Pressure monitoring - Fault alarms - SCADA integration (optional)
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TECHNICAL SPECIFICATIONS

Lifting Capacity	60 - 120 Tons
Tilting Angle	45° - 55°
Hydraulic Cylinders	Single or Double
Platform Construction	Heavy Duty Steel
Drive System	Electro-Hydraulic
Power Supply	380 - 415 V / 50 Hz
Operating Temperature	-20 °C to +50 °C
Control System	MCC / PLC
Unloading Time	2 - 5 Minutes
Installation	Above Ground / Pit Type
Maintenance	Easy and Low Cost
Usage	Indoor / Outdoor

APPLICABLE PRODUCTS



- Corn
- Wheat
- Barley
- Rice
- Sunflower
- Soybean
- Canola
- Oats
- Rye
- Triticale
- Pulses
- And other bulk agricultural products

APPLICATION AREAS



- Grain storage facilities
- Licensed warehouses
- Grain drying plants
- Flour mills
- Feed mills
- Oilseed processing plants
- Rice processing plants
- Port terminals
- Agricultural cooperatives
- Industrial storage facilities

SYSTEM ADVANTAGES

- ✓ Very fast unloading
- ✓ Increases daily receiving capacity
- ✓ Full and clean discharge
- ✓ Reduces manual labor
- ✓ Safe and controlled operation
- ✓ Low maintenance cost
- ✓ Long service life
- ✓ High performance in peak season
- ✓ Compatible with receiving hopper and conveying systems
- ✓ Suitable for different truck types and sizes

								
Remote Control	Automatic Safety Barriers	Vehicle Position Sensors	Camera System	Oil Temperature Monitoring	Wind Protection System	SCADA Integration	Automatic Lubrication	Galvanized Platform

TECO Dryer

Fast Unloading, Safe Operation,
Powerful Hydraulic Technology.



