miyay process



COAL DRYING SYSTEM

GENERAL

Coal drying facilities are established to reduce the moisture content of coal, making it more combustible and increasing its calorific value. Additionally, they are utilized to enhance the quality of coal and improve energy production processes. These facilities are crucial for various applications, including industrial plants, power stations, and coal mines.

ADVANTAGES

- High thermal efficiency, stable drying quality.
- Extended component lifespan.
- Compact and modular design.
- Environmentally friendly with low emission values.
- Low energy consumption.
- High safety.

FEATURES

- Low moisture content,
- Homogeneous material flow,
- High heat transfer, Heat-treated,
- Thermally Stress-Relieved Long-Life Buckets
- Use of High-Strength Material



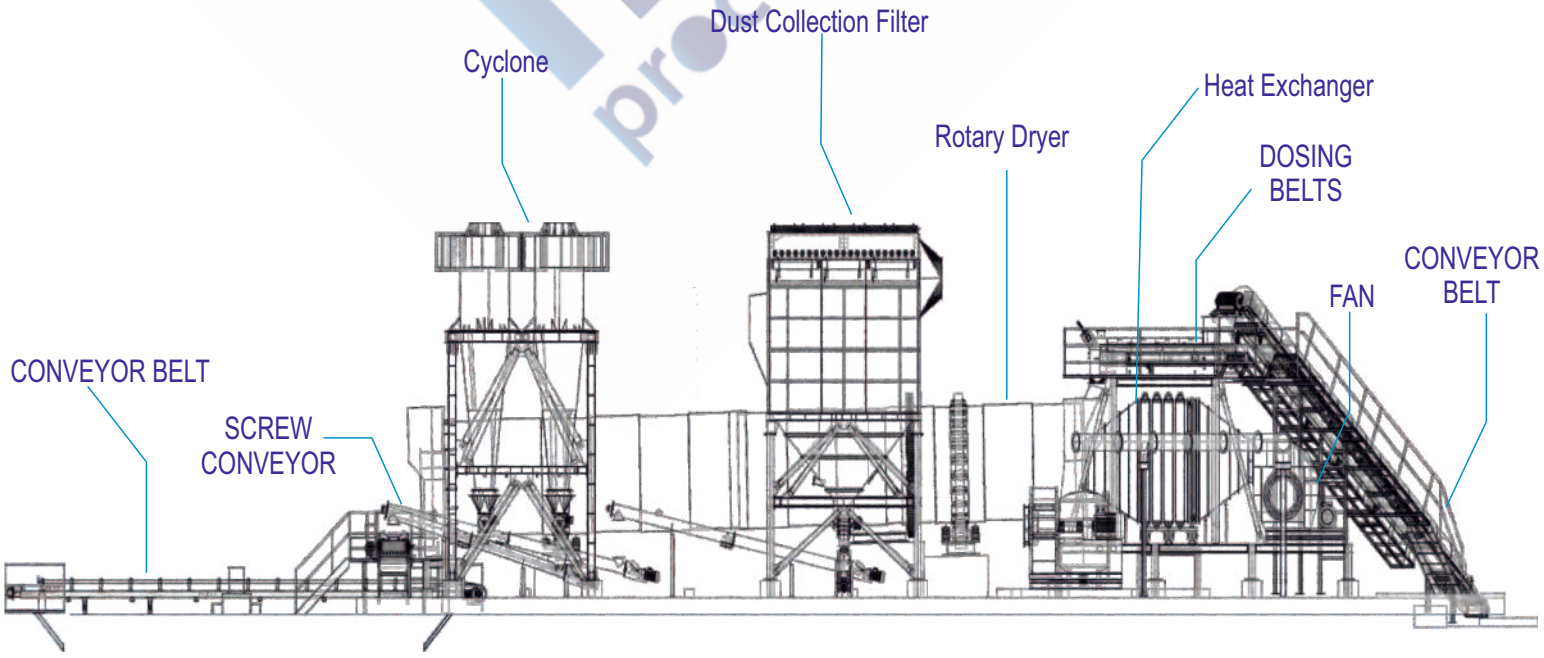
Catalog product code

MPS - MKK - 10 - A1110

- MPS: Equipment Code
- MKK: Product Code
- 10: Capacity
- A: Drying Oven
- 1: Filtration System
- 1: Cyclone System
- 1: Dosing System
- 0: Scrubber System

Product Code	Capacity (t/h)	Drying Oven	Filtration System	Cyclone System	Dosing System	Scrubber Sistemi
MPS-MKK	10	A	1	1	1	0
	25					
	50					

Drying Oven	Filtration System	Cyclone System	Dosing System	Scrubber System
A-Rotary Dryer	0 - none	0 - none	0 - none	0 - none
B-Fluidized Bed Dryer	1- Available	1- Available	1- Available	1- Available



Machine Technical Specifications

Feeding System

Coal is transported to the starting point of the facility and stored in bunkers. At this point, the coal is fed into the dryer based on the set value through the dosing system.

Heat Source

The hot gases needed to dry the coal are typically generated using a hot gas generator or a combustion chamber. This heat source can be obtained from various fuels such as natural gas, oil, coal, or waste gases. Miyay Proses selects the heat source based on customer demand and cost-effectiveness principles.

Drying Process

The hot gases are directed to a drying unit where the coal will be dried. This drying unit is typically a fluidized bed dryer or a rotary dryer system. The hot gases are conveyed into the dryer where coal is fed. The hot gases come into contact with the coal, causing the moisture in the coal to evaporate, thus facilitating the drying process. Drying units ensure the homogeneity of the drying process.

Coal Transfer System

The coal, dried through conveyor belts, is transferred to the stockyard or combustion facility.

Filtration System / Exhaust Gas Cleaning

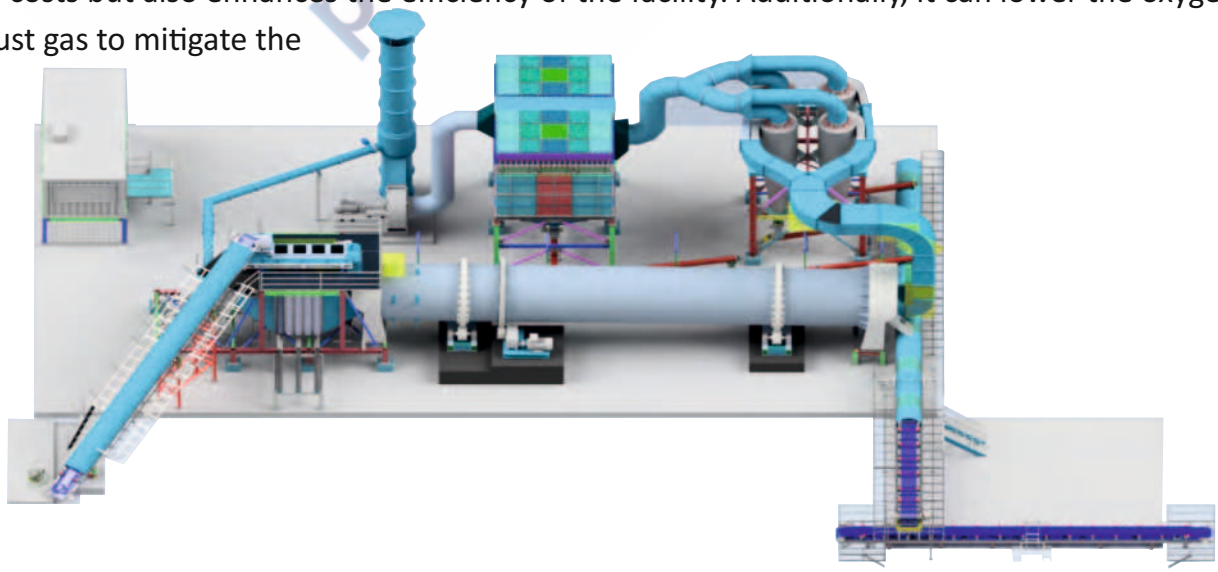
The exhaust gas generated during the drying process must be cleaned before being released into the atmosphere to prevent harm to the surroundings. For this purpose, the exhaust gas is passed through a cyclone and a bag filter. This process removes particles and pollutants from the gas, ensuring clean air emissions.

Scrubber System (Optional)

The gases exiting the filter are released into the environment after passing through scrubbing towers in a zero-emission context.

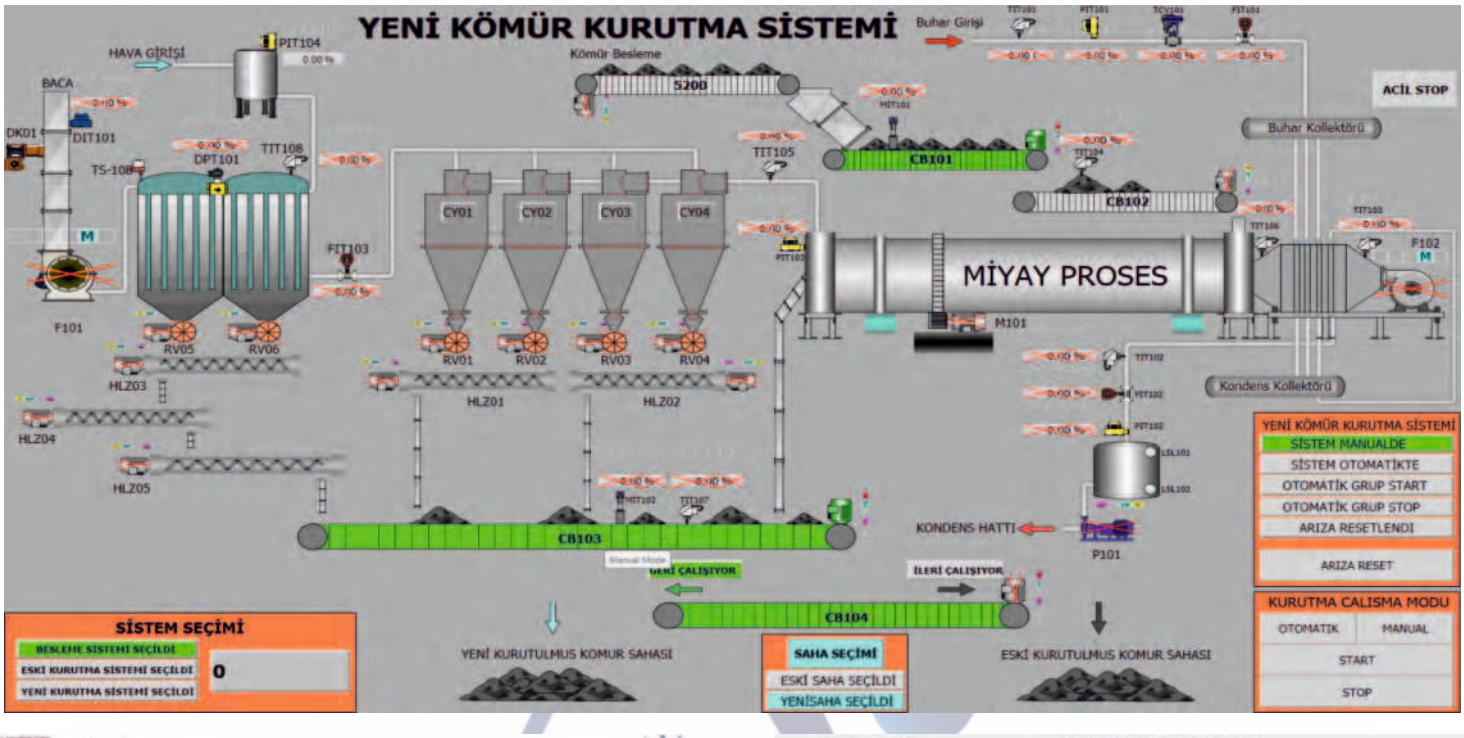
Heat Recovery (Optional)

Miyay coal drying plants can achieve heat recovery by recirculating a portion of the exhaust gases. This not only reduces energy costs but also enhances the efficiency of the facility. Additionally, it can lower the oxygen content of the exhaust gas to mitigate the risk of explosions.

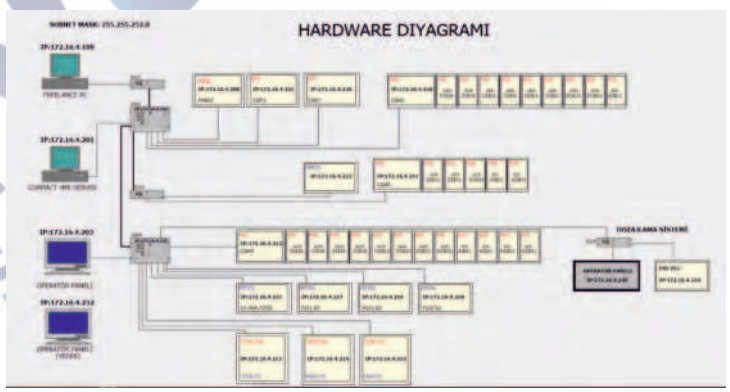


Automation System

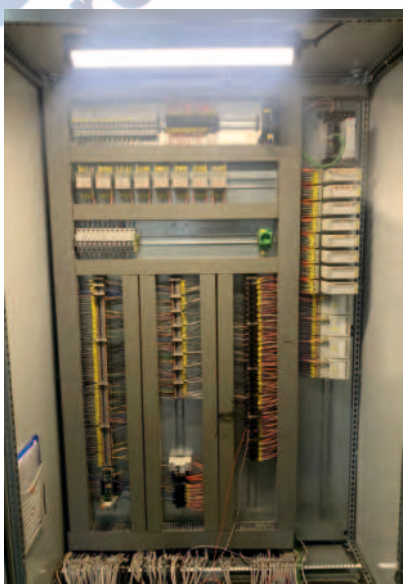
The drying system is Industry 4.0 compliant, capable of operating in both automatic and manual modes with the control system. Depending on customer demand, the redundant control system allows the system to operate continuously, and connections to existing DCS systems in factories can be established.


























miyay




miyay













Dryer Request Form

Offer Date: _____

Order Date: _____

Order Number: _____

Customer Contact Information

Company Name: _____ Customer Reference Number: _____

Contact: _____ Address: _____

Phone: _____ Fax: _____

Email: _____ Date: _____

A - PRODUCT INFORMATION TO BE DRIED: _____

TYPE OF COAL TO BE DRIED _____

D50 MATERIAL VALUE _____ mm

INPUT MOISTURE VALUE (%) _____

REQUESTED OUTPUT MOISTURE VALUE (%) _____

FEED CAPACITY (t/h) _____

B - PLANT INFORMATION: _____

PLANT'S DAILY OPERATING HOURS _____

Daily Operational Working Hours _____

C- FEATURES OF THE DRYER

HEAT SOURCE

☐ Steam ☐ Natural Gas ☐ Coal

DIMENSIONS OF THE DRYER

Diameter (mm) _____ Length (mm) _____

D- ADDITIONAL EQUIPMENT

☐ Dust Capture Filter ☐ Cyclone ☐ Scrubber ☐ Fan

☐ Conveyor Belt ☐ Heat Exchanger ☐ Dosing Conveyor Belt Scale ☐ Automation System

G- GENERAL MATERIAL QUALITY

☐ SS304L ☐ SS316L ☐ Carbon Steel

H- MATERIAL QUALITY OF THE DRYER BUCKET

☐ SS304L ☐ SS316L ☐ Karbon Çelik ☐ Carbon Steel

NOTES _____

Merkez : Gökkuşağı Mah.Gökkuşağı Cad. 1209.Sok.No:17/2 Vadi Apt.
Balgat /AnkaraTel :+90 (312) 472 61 22 Fax :+90 (312) 472 61 76
Fabrika : Saray Keresteciler Sitesi 3.Cd. No:64 Kazan / Ankara
Tel : +90 312 472 61 93 Fax:+90 (312) 395 29 32

DESTEK
Saha Hizmeti

BAKIM VE MODİFİKASYON
Makine Optimizasyonu ve Modernizasyonu

EĞİTİM
Operatör İle İşletme ve Bakım Personel Eğitimleri

YEDEK PARÇA
Makine Yedek Parça Stok ve Temini

SERVİS ANLAŞMALARI
Önleyici Bakım Servis Sözleşmeleri

PROSES OPTİMİZASYON
Proses Optimizasyon Hizmetleri

LABARATUVAR TESTLERİ
Labaratuvar Test Hizmetleri

Central:
Gökkuşağı Mah. Gökkuşağı Cad.
1209. Sok. No:17/2 Vadi Apt. 06520
Balgat-Çankaya/Ankara

Telefon: +90(312) 472 61 22
Fax: +90(312) 472 61 76
Eposta: miyay@miyay.com

Factory:
Saray Keresteciler Sitesi 3.Cd. No:64
Kahramankazan/Ankara

Telefon: +90(312) 472 61 93
Fax: +90(312) 395 29 32
Sabit Gsm: 0533 408 04 73
Mobil Gsm: 0533 686 90 51
Eposta: satis@miyay.com

www.miyay.com