

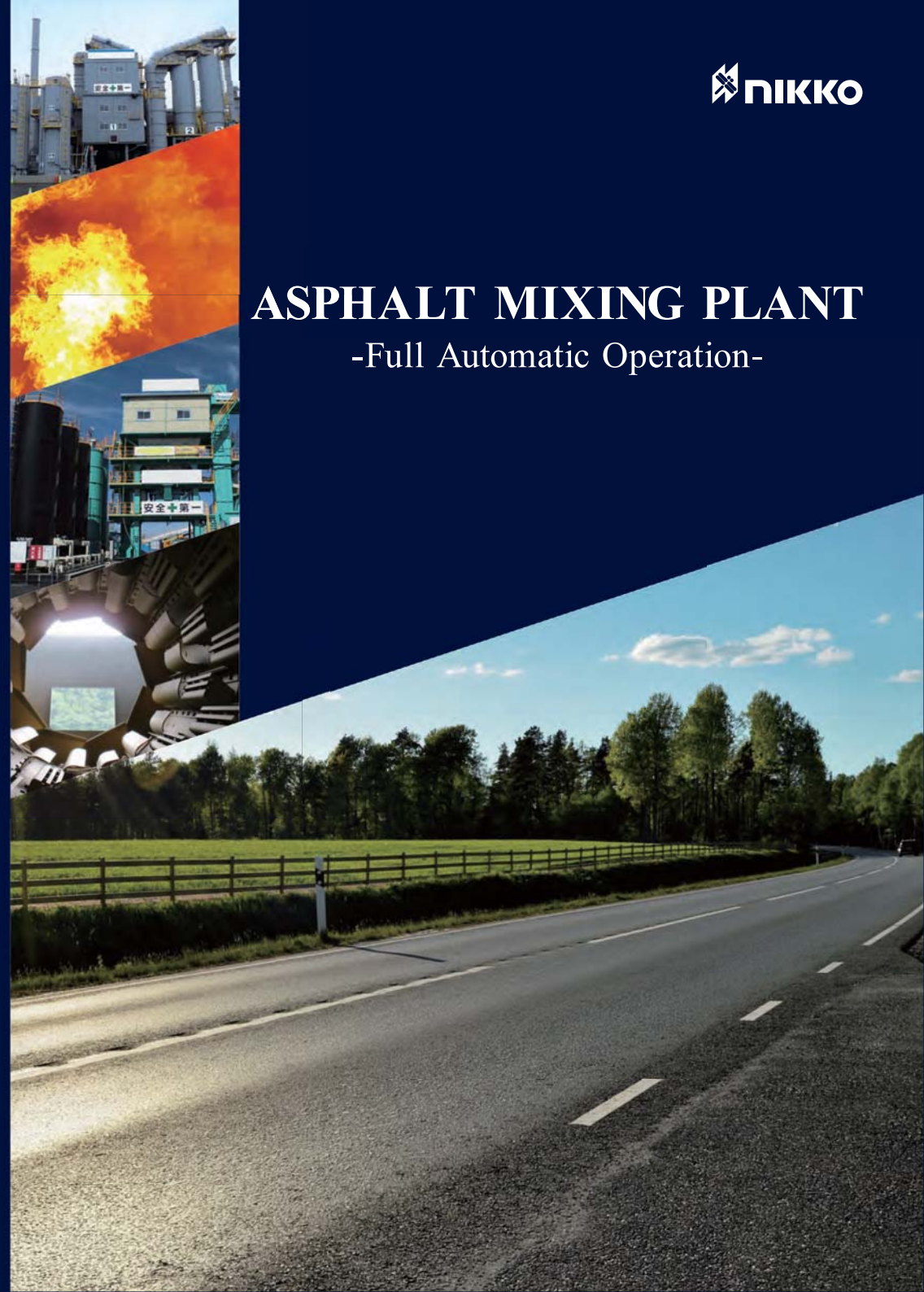
ASPHALT MIXING PLANT

-Full Automatic Operation-



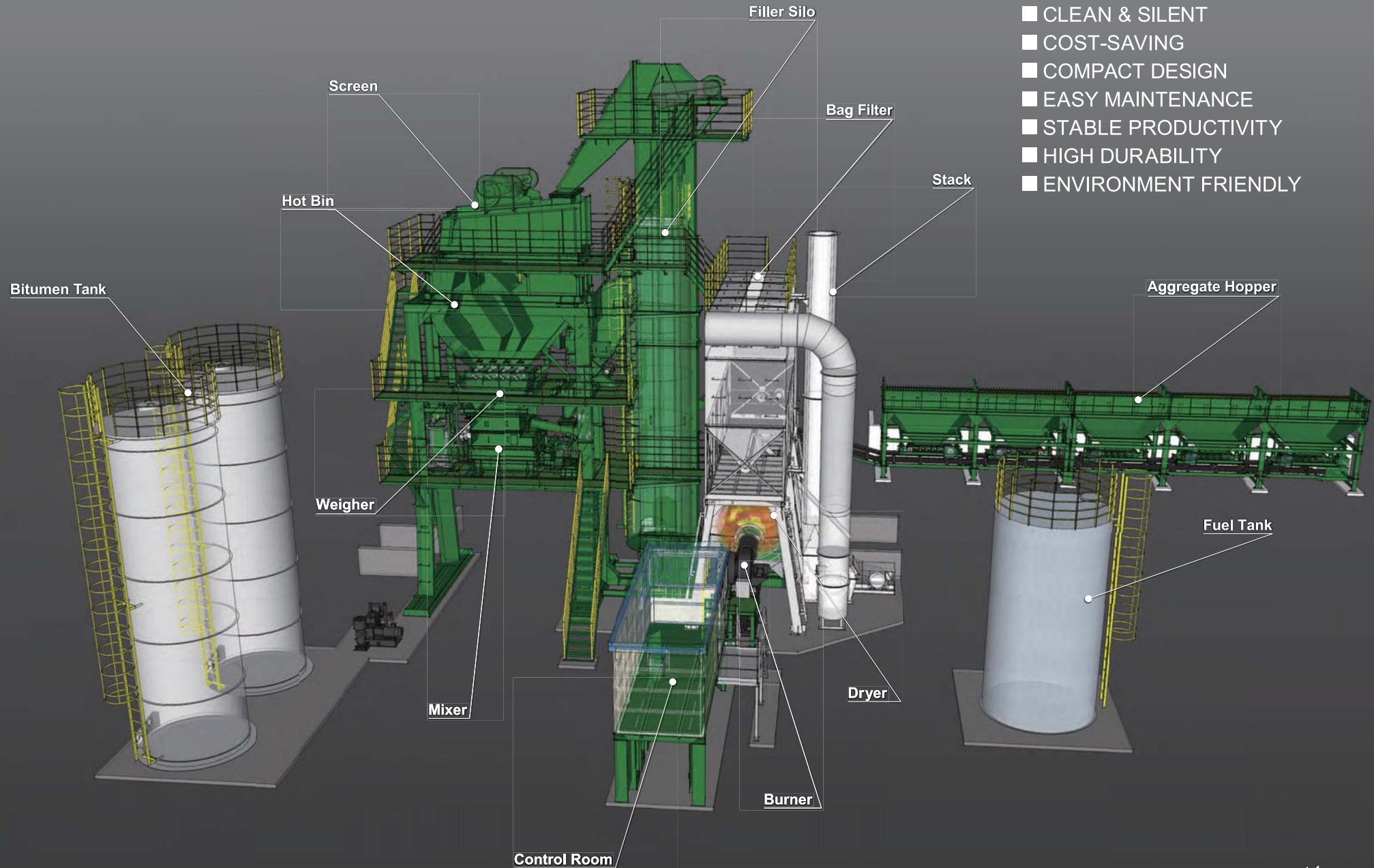
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DESIGN CONCEPT

- CLEAN & SILENT
- COST-SAVING
- COMPACT DESIGN
- EASY MAINTENANCE
- STABLE PRODUCTIVITY
- HIGH DURABILITY
- ENVIRONMENT FRIENDLY



DRYER AND DUST COLLECTOR UNIT

NTB Burner



- > Low excess air ratio
⇒ Fuel efficient
- > Low noise level
- > Easy maintenance
- > Simple control

NTBG Burner (Gas Burner)



- > Low excess air ratio
⇒ Fuel efficient
- > Low noise level
- > Low NOx & CO2 emission
- > Zero emission of SOx



NTBGO Burner (Gas & Oil Burner)



- > One touch to switch between oil or gas
⇒ Flexibly correspond to fuel price fluctuations

Heat Pack Dryer



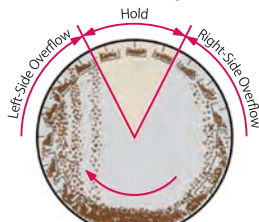
Basket flights can switch the flow of aggregates in the motion "leftside overflow→hold→rightside overflow". Following this movement, aggregates retained inside the basket flights absorb the heat of the burner's flames and no radiant heat is wasted. This design greatly increases thermal efficiency to over 90%.

Conventional Models



Angle Flight

Heat Pack Dryer

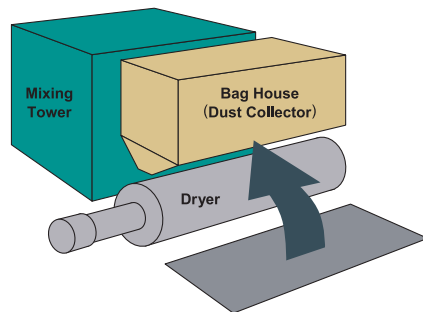


Basket Flight

BOND (Bag Filter on Dryer)

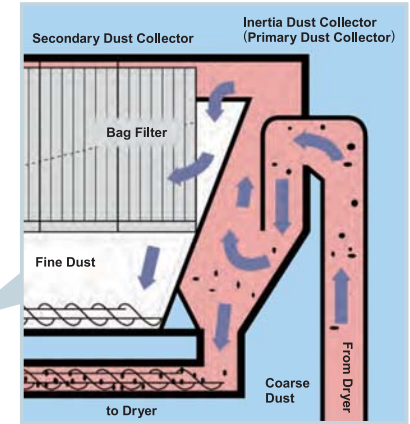
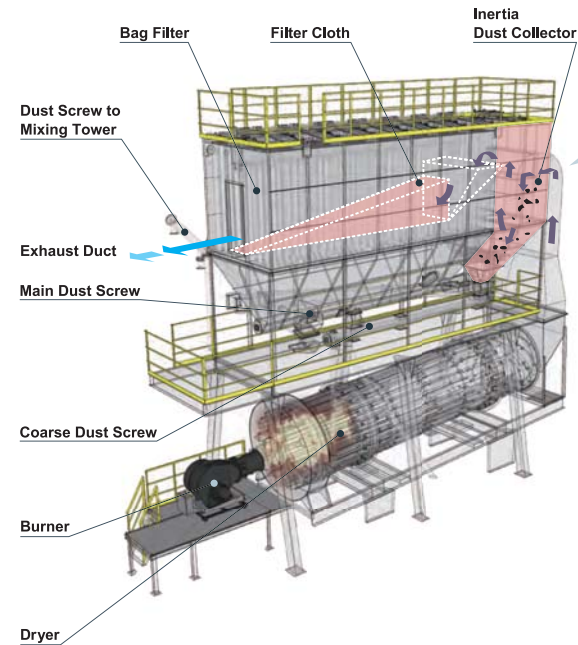


- > Low dryer floor and friction drive for easy maintenance

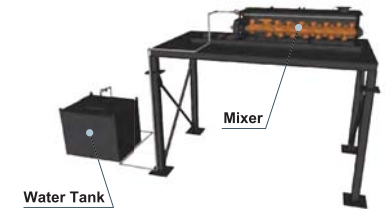


- > Space Saving - - No foundation for dust collector
- > Energy Saving - - Heat diffused from dryer prevents condensation at bag filter

Bag Filter

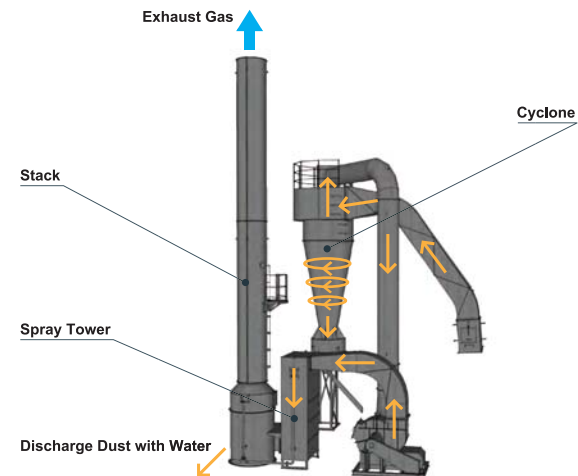


Optional Dust Mixer



- > Suitable for areas with strict environment regulations
- > When dusts are undesired as a component in the hot mixture

Wet (scrubber) Type



- > Simple structure
⇒ Minimum initial investment
*Cistern construction, sludge treatment and water purity control system are required
- > Suitable for areas with strict environment regulations

Mixing Tower

Screen

- > Low headed gearless screen
- > Vibrator is located at the exterior for easy access and maintenance



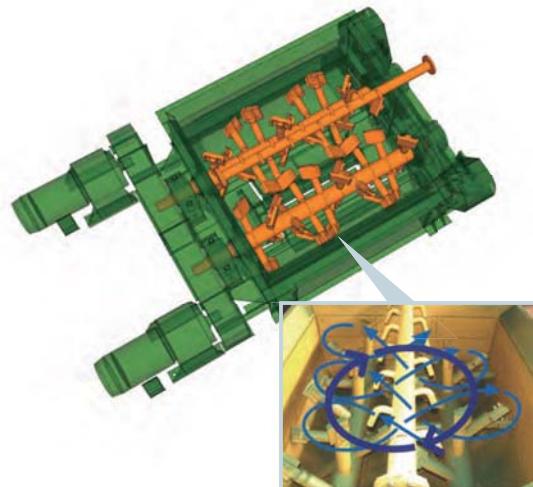
Hot Bin

- > Rock-ladder and liners configuration inside the hot bin, hot elevator chute and screen outlet forms an abrasion proof structure to protect the casing from wearing.
- > Extra bins can be added as required.



Mixer

- > Materials are uniformly mixed by Nikko's powerful spiral type mixer
- > Dynamic flow of hot mix by mixer blades fixed at an angle of 45°
- > With a shallow structure, mixer blades can cover most of the area inside the mixer, resulting in an enhanced mixing performance
- > Durable mixer parts to achieve a long life span and minimal maintenance fee. Mixer shafts and arms are fully covered by customized protectors.



Bitumen Tank

Electrical Heating

Merits of Electrical Heating

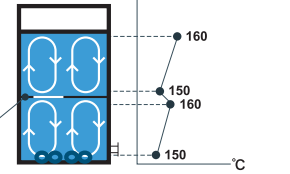
Compared with hot oil heating system

- > Zero emission of waste gas during operation
- > High safety standard
 - ⇒ No risks of fire or oil explosions
- > Less floor space required
- > Lower initial costs

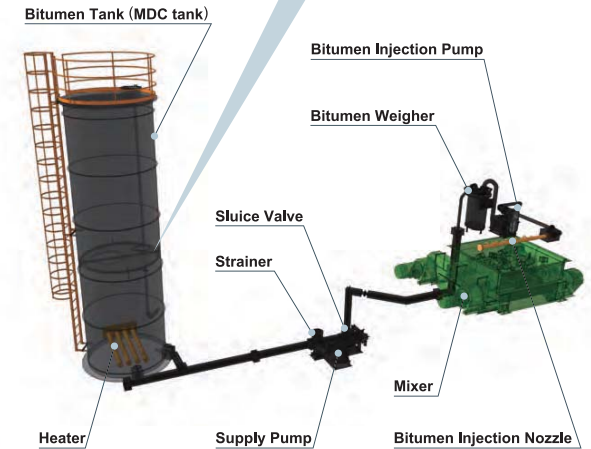


Dual Convection Tank

Uniform temperature inside bitumen tank

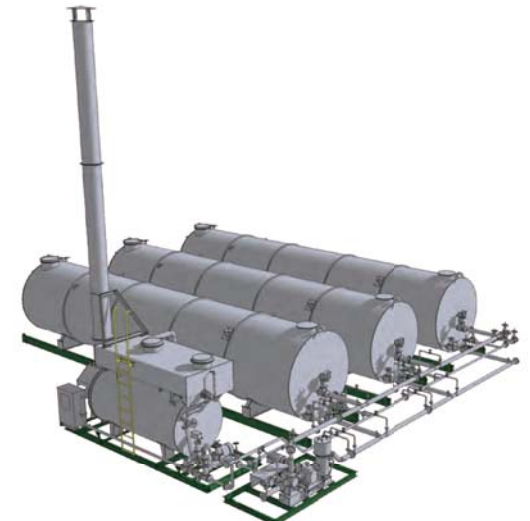


Partition plate eliminates temperature difference



Hot Oil Heating

- > For areas without stable electricity supply



PROFESSIONAL ELECTRONIC CONTROL SYSTEM

The perfect combination of plant and control panel



Founded in 1971, Nikko Electronics Corp., specializes in the R&D, design and manufacturing of electronic control systems. We believe that the perfect combination of machinery and operation panel is essential for bringing out the full capacity of our products. Thus, Nikko Electronics Corp., designs control systems exclusively for Nikko plants.

With over 35 years of history, Nikko Electronics Corp. works hand in hand with technicians at Nikko Headquarters and is dedicated to meeting users' changing needs by incorporating the newest technologies. The high reliability and user friendliness of the operating systems has gained favourable reviews from users around the world.

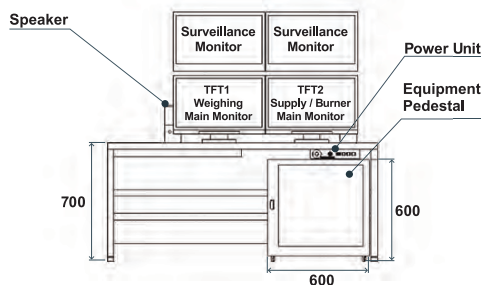
Product Lineup

Command-Arvo

Latest Model



- > New control system for burner and weighing system
- > User-friendly with operation guidelines and trouble-shooting

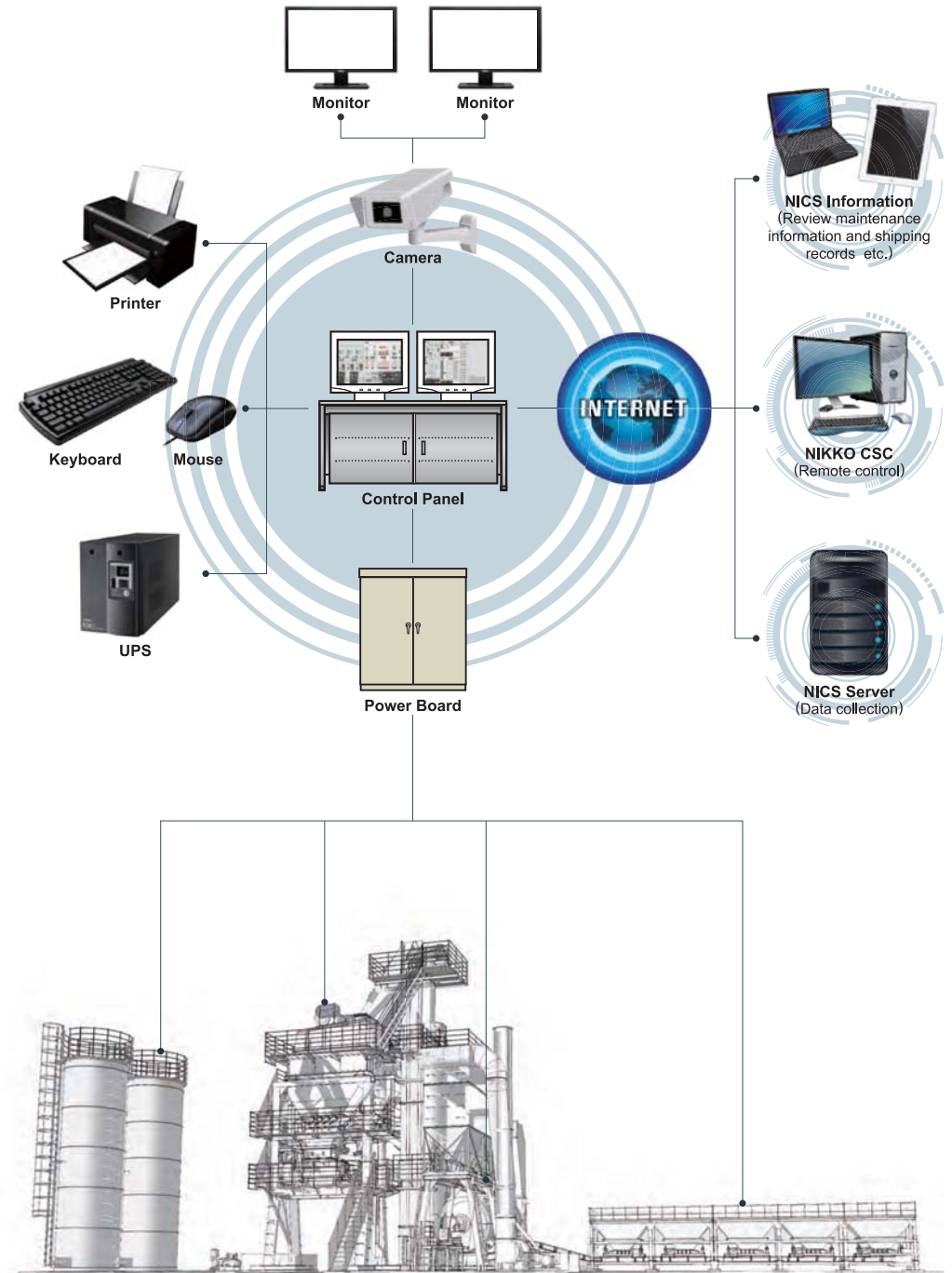
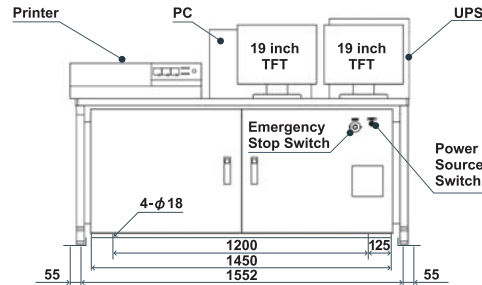


Next-Duo

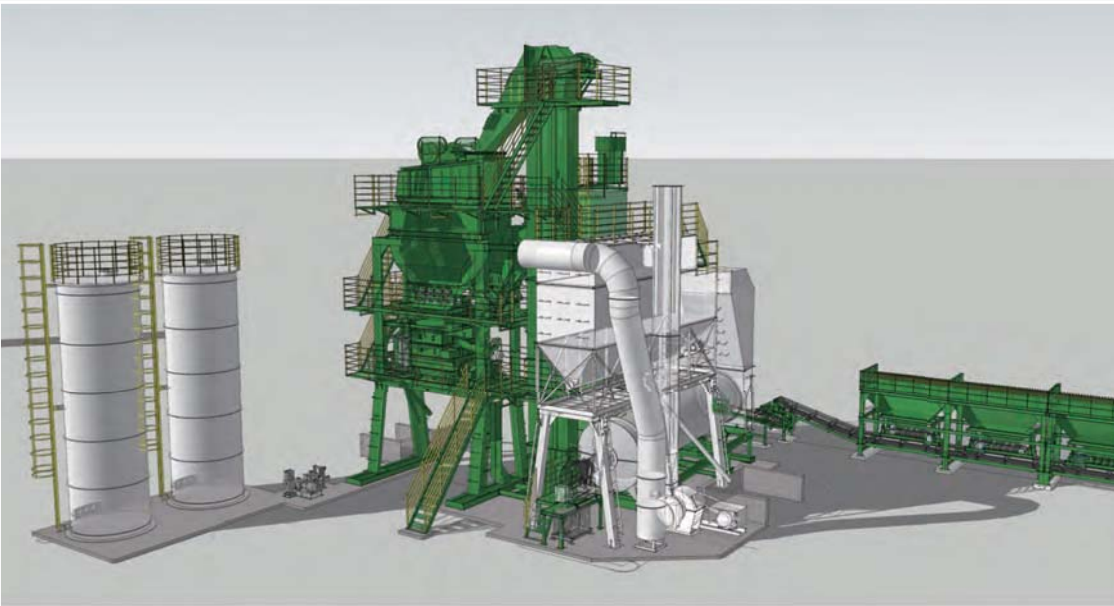
Standard Model



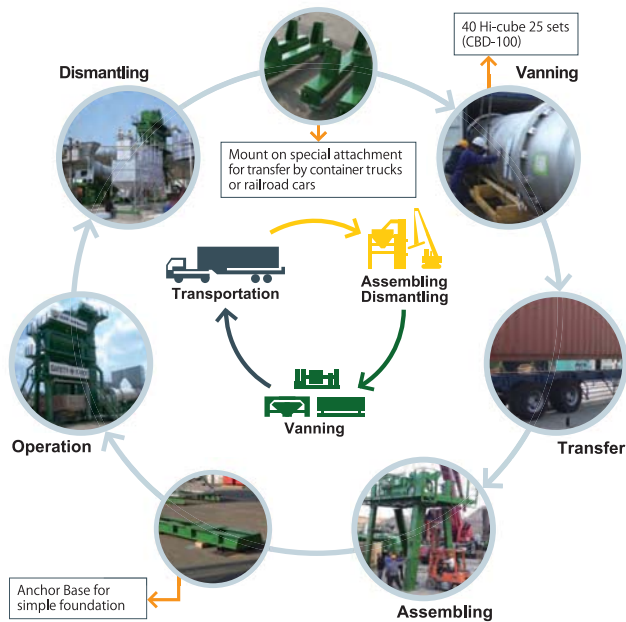
- > Simple operation
- > Sophisticated graphic design



CBD SERIES 60 / 80 / 100 / 120



- Containerized unit
- Minimum transport cost
- Quick assembly



The CBD series is exclusively designed to meet the demands of overseas users.

While inheriting the features of NBD series, all units can fit into 40 HQ containers for easy transportation and cost reduction.

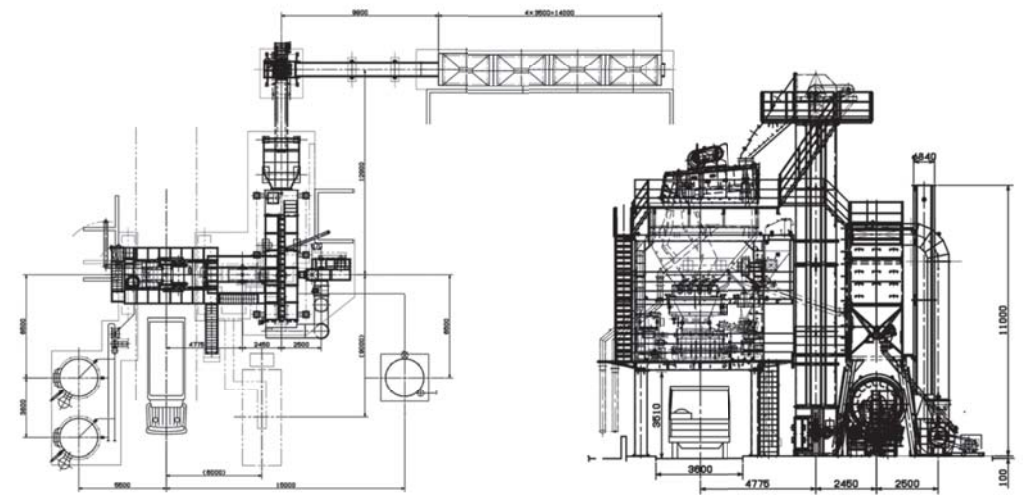
Relocation of plant is made possible by the specially designed steel anchor base and hauling attachments.

Installation time is also significantly reduced.

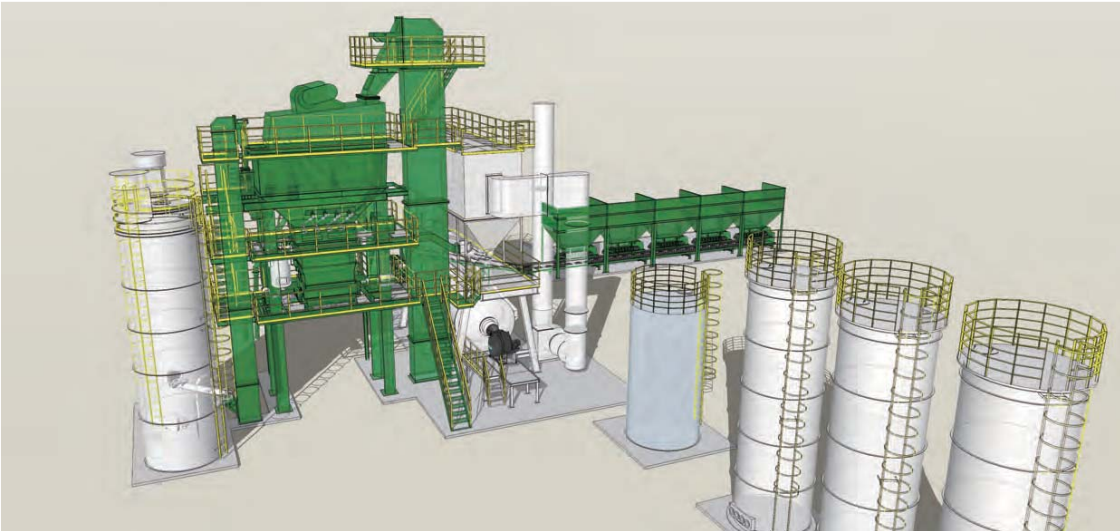
CBD-120ABD



Standard Layout



NBD Series 160 / 180 / 200 / 240



An integration of all Nikko's technologies and know-hows, with improved efficiency and simplified maintenance

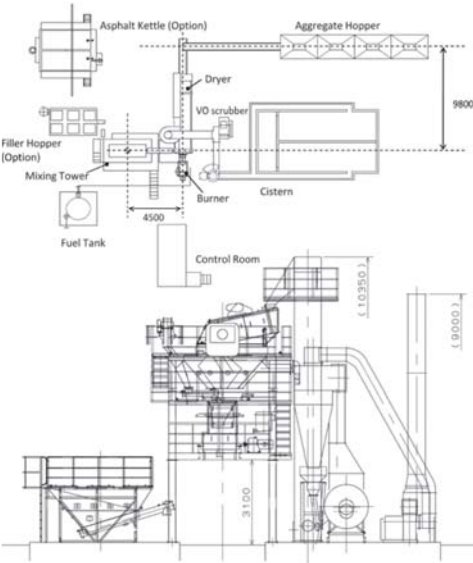
- > High sustainability
- > Energy-saving

ATOM Series 500 / 600 (30t~40t)



- > Compact design, high performance and easy operation
- > Lower initial costs and running expense
- > Perfect for areas with little space

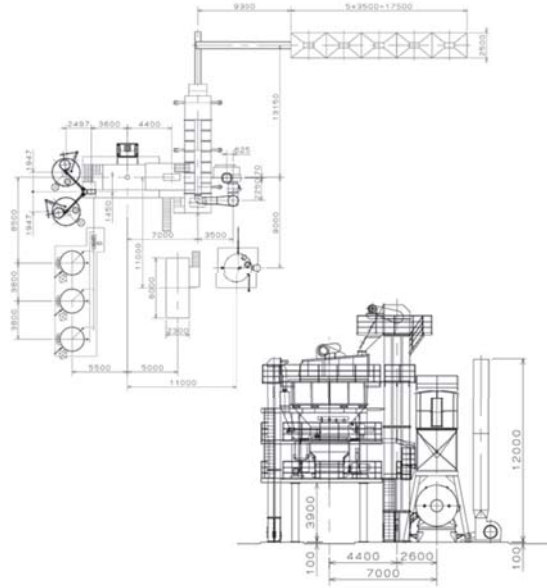
Standard Layout



NBD160ABD



Standard Layout



MOBILE PLANT

Fully mobile asphalt plant
Capacity : 10t/h



Dryer	φ 965 × 3500mm
Burner	45 ~ 130 ℓ/h
Dust collector	Dry cyclone
Mixer	200kg / Batch
Option	VO scrubber

- > Maximum Mobility

SPECIFICATIONS

Type		ATOM-600	CBD-60	CBD-80	CBD-100
Capacity		Max.40t/H Moisture content 5% Aggregates temp. +150°C	Max.60t/H Moisture content 5% Aggregates temp. +150°C	Max.80t/H Moisture content 5% Aggregates temp. +150°C	Max.100t/H Moisture content 5% Aggregates temp. +150°C
Dryer Unit	Heat-pack Dryer	φ 1300 x 6000mm Capacity : Max.40t/H	φ 1450 x 7000mm Capacity : Max.60t/H	φ 1550 x 7300mm Capacity : Max.80t/H	φ 1750 x 7300mm Capacity : Max.100t/H
	Burner	Low-noise, high-pressure atomizing type max.360 ℓ/H	Low-noise, high-pressure atomizing type max.500 ℓ/H	Low-noise, high-pressure atomizing type max.600 ℓ/H	Low-noise, high-pressure atomizing type max.750 ℓ/H
Dust Collection Unit	Bag Filter	Filtration area; 202.0m²; back pressure, multi-compartment	Filtration area; 230.4m²; Venturi, multi-compartment	Filtration area; 259.2m²; Venturi, multi-compartment	Filtration area; 288.0m²; Venturi, multi-compartment
	Exhaust Fan	310m³/min x 3.2kPa at 100°C	400m³/min x 3.2kPa at 100°C	420m³/min x 3.2kPa at 100°C	500m³/min x 3.2kPa at 100°C
Mixing Tower	Hot Elevator	Vertical induction	Vertical induction	Vertical induction	Vertical induction
	Screen	C&O gearless type; max.40t/H	C&O gearless type; max.60t/H	Low-head gearless type; max.80t/H	Low-head gearless type; max.100t/H
	Hot Bin	4 compartments; Total capacity; 4.1m³	4 compartments; Total capacity; 8.0m³	4 compartments; Total capacity; 9.2m³	4 compartments; Total capacity; 12.0m³
	Weighing Scale	Remote digital indication by load cell Agg.: 600kg x 1.0kg As.: 80kg x 0.2kg Fil.: 100kg x 0.2kg	Remote digital indication by load cell Agg.: 800kg x 2.0kg As.: 100kg x 0.5kg Fil.: 100kg x 0.5kg	Remote digital indication by load cell Agg.: 1000kg x 5.0kg As.: 150kg x 1.0kg Fil.: 150kg x 1.0kg	Remote digital indication by load cell Agg.: 1300kg x 5.0kg As.: 200kg x 1.0kg Fil.: 150kg x 1.0kg
	Spiral Flow Mixer	Twin shaft pugmill 600kg	Twin shaft pugmill 800kg	Twin shaft pugmill 1000kg	Twin shaft pugmill 1300kg
	Asphalt Spray Equipment	Geared pump 180 ℓ/min	Geared pump 300 ℓ/min	Geared pump 300 ℓ/min	Geared pump 500 ℓ/min
Control	Control Panel	Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display
Power		140kW	170kW	210kW	250kW
Space		600m² (31.5m x 19m)	900m² (30m x 29.3m)	1000m² (33.5m x 29.3m)	1000m² (33.5m x 29.3m)
Options		Heat shelter, Conveyer scale, Wet type dust collector, Filler supply system, Recycle system			

※Some asphalt plants displayed in this catalog are attached with optional equipment (for example,enclosure cladding, conveyer hood, etc.).
※The electric power mentioned above includes accessory units: asphalt supply system, aggregate supply system, fuel oil supply system, filler supply system (optional)
※Specifications are subject to change without prior notice due to improvements and/or modifications.

CBD-120	NBD-160	NBD-240	NBD-320	NBD-400
Max.120t/H Moisture content 5% Aggregates temp. +150°C	Max.160t/H Moisture content 5% Aggregates temp. +140°C	Max.240t/H Moisture content 5% Aggregates temp. +140°C	Max.320t/H Moisture content 5% Aggregates temp. +140°C	Max.400t/H Moisture content 5% Aggregates temp. +140°C
φ 1950 x 7750mm Capacity : Max.120t/H	φ 2150 x 8500mm Capacity : Max.160t/H	φ 2550 x 9000mm Capacity : Max.240t/H	φ 2900 x 9500mm Capacity : Max.320t/H	φ 3100 x 10500mm Capacity : Max.380t/H
Low-noise, high-pressure atomizing type max.900 ℓ/H	Low-noise, high-pressure atomizing type max.1200 ℓ/H	Low-noise, high-pressure atomizing type max.1800 ℓ/H	Low-noise, high-pressure atomizing type max.2400 ℓ/H	Low-noise, high-pressure atomizing type max.3000 ℓ/H
Filtration area; 345.2m²; Venturi, multi-compartment	Filtration area; 461.0m²; Venturi, multi-compartment	Filtration area; 720.0m²; Venturi, multi-compartment	Filtration area; 864.0m²; Venturi, multi-compartment	Filtration area; 1080.0m²; Venturi, multi-compartment
600m³/min x 3.2kPa at 100°C	800m³/min x 3.2kPa at 100°C	1200m³/min x 3.2kPa at 100°C	1500m³/min x 3.2kPa at 100°C	1080m³/min x 3.2kPa at 100°C
Vertical induction	Vertical induction	Vertical induction	Vertical induction	Vertical induction
Low-head gearless type; max.120t/H	Low-head gearless type; max.160t/H	Low-head gearless type; max.240t/H	Low-head gearless type; max.320t/H	Low-head gearless type; max.360t/H
4 compartments; Total capacity; 15.0m³	4 compartments; Total capacity; 19.0m³	5 compartments; Total capacity; 30.0m³	5 compartments; Total capacity; 50.0m³	6 compartments; Total capacity; 65.0m³
Remote digital indication by load cell Agg.: 1600kg x 5.0kg As.: 200kg x 1.0kg Fil.: 200kg x 1.0kg	Remote digital indication by load cell Agg.: 2000kg x 5.0kg As.: 300kg x 1.0kg Fil.: 300kg x 1.0kg	Remote digital indication by load cell Agg.: 3000kg x 10.0kg As.: 400kg x 1.0kg Fil.: 400kg x 1.0kg	Remote digital indication by load cell Agg.: 4000kg x 10.0kg As.: 500kg x 2.0kg Fil.: 500kg x 2.0kg	Remote digital indication by load cell Agg.: 5000kg x 10.0kg As.: 625kg x 1.0kg Fil.: 625kg x 1.0kg
Twin shaft pugmill 1600kg	Twin shaft pugmill 2000kg	Twin shaft pugmill 3000kg	Twin shaft pugmill 4000kg	Twin shaft pugmill 5000kg
Geared pump 500 ℓ/min	Geared pump 700 ℓ/min	Geared pump 900 ℓ/min	Geared pump 1800 ℓ/min	Geared pump 1800 ℓ/min
Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display	Next-Duo; Industrial computer; LCD Display	PC based control panel
290kW	375kW	495kW	705kW	800kW
1000m² (33.5m x 29.3m)	1700m² (44m x 38.9m)	2000m² (44.9m x 43.4m)	2500m² (49.9m x 50.3m)	2500m² (49.9m x 50.3m)

(Recycle unit, Top drum, Drum mixing plant), Hot mix storage silo