DATASHEET

Asphalt Mixing Plants

Batch and drum mix production



2000	4	100+	ISO 9001
MANUFACTURER SINCE	MODELS IN THIS FAMILY	EXPORT MARKETS	QUALITY SYSTEM

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Overview

A plant decision sets the economics of a paving programme for a decade. Metong builds batch plants around a modular tower: aggregate feed, drying drum, weighing, mixing and finished-product storage can be specified as a complete station or staged as the project grows.

The environmental package is part of the base design rather than an add-on: enclosed screens, ducted dust collection and low-NOx burners keep emission concentration inside the limits municipal permits now require. Plants are shipped in container-sized modules, which keeps ocean freight and site assembly predictable.

Model overview

MODEL DESIGNATION	TYPE / MODEL NUMBER
DLB2000 Environmental Mixing Plant	DLB2000
DLB-1500 Asphalt Mixing Plant	DLB-1500
Asphalt Mixer	configured per project
Cold In-Plant Recycling Equipment	LZS250

DLB2000 Environmental Mixing Plant · DLB2000

160 t/h batch plant with enclosed screening and dust emission under 20 mg/Nm³.

KEY DATA	VALUE
Rated productivity■t/h)	160
Total installed capacity■KW)	380
Capacity of finished product silo (t)	60
Asphalt tank quantity	2×50000L
Heavy oil tank quantity	1×30000L

Model comparison — Model / DLB2000 / BLB3000 / BLB4000

PARAMETER	MODELS
Rated productivity■t/h)	160 · 240 · 320
Total installed capacity■KW)	380 · 570 · 734
Fuel consumption	≤6.0 (standard condition) · ≤6.0 (standard condition) · ≤6.0 (standar…
Capacity of finished product silo (t)	60 · 120 · 160
Dust emission concentration	≤20mg/Nm³, Ringelmann emittance≤ Class I · ≤20mg/Nm³, Ringelmann emit…
Measuring accuracy	Static · Aggregate: ±0.3% Powder: ±0.2% Asphalt: ±0.15% · Aggregate: …
Measuring accuracy	Dynamic · Aggregate: ±1.5% Powder: ±1.0% Asphalt: ±1.0% · Aggregate: …
Measuring accuracy	Bitumen-aggregate ratio · ≤±0.1% ·
Asphalt tank quantity	2×50000L · 3×50000L · 4×50000L
Heavy oil tank quantity	1×30000L · 1×50000L · 1×50000L
Diesel tank	1×12000L · 1×12000L · 1×12000L

Thermal oil boiler	600,000 kilocalorie · 800,000 kilocalories · 800,000 kilocalories

Model comparison — Model / DLB2000 / DLB3000 / DLB4000

PARAMETER	MODELS
Total installed capacity	380KW · 570KW · 734KW
Max. power of a single machine	110KW · 160KW · 185KW
Transformer	≥500kV/A · ≥630kV/A · ≥800kV/A
Voltage of power supply	380V±5% · 380V±5% · 380V±5%
Frequency of power supply	50±0.1Hz · 50±0.1Hz · 50±0.1Hz
Transmission system	Three-phase four –wire system · Three-phase four –wire system · Three…
Wire diameter of cable	2×■3×150+35■copper core cable · 2×■3×185+50■copper core cable · 2×■3×…
Cable length	The distance between the power distribution cabinet of the transforme…
Ground resistance	≤4Ω · ≤4Ω · ≤4Ω
Ground connection	TM-S neutral-to-case connection · TM-S neutral-to-case connection · T…
Lightning arrester	Apply to local meterological department for installation according to…

DLB-1500 Asphalt Mixing Plant · DLB-1500

120 t/h compact batch plant with multi-function connectors for recycling add-ons.

KEY DATA	VALUE
Production capacity	120 t/h
Installed capacity (standard)	330kw
Maximum unit capacity	75kw(Induced draft fan)
Power	AC 380V 50Hz
Storage bin capacity	50 tons (bottom-mounted)

Specifications

SPECIFICATION	VALUE
Production capacity	120 t/h
Drying cylinder combustor fuel consumption rate(standard)	Fuel consumption rate ≤6.0kg/t mixture, Gas consumption rate ≤7.5 Nm³…
Measuring accuracy	Dynamic measurement accuracy: asphalt±1.0%, powder±1.0%, aggregate±2.…
Emission concentration	Smoke and dust emission concentration ≤50mg/Nm³■Ringelman blackness ≤I
Installed capacity (standard)	330kw
Maximum unit capacity	75kw(Induced draft fan)
Power	AC 380V 50Hz
Storage bin capacity	50 tons (bottom-mounted)
Covering area	800-900■

Features

• Wide application: Asphalt mixing machine is equipped with multi-function connector, allowing the installation of asphalt recycling equipment, cold-in-plant recycling equipment and etc. for use in the processing for colored asphalt and additives. Meanwhile, it only requires a slight

improvement to make it capable for the mixing of both bituminous mixture and concrete

• Cost effectiveness: The asphalt mixing plant allows high precision measurement, so as to ensure a min. production cost. Besides, it is outfitted with a best-in-class combustor for min. fuel consumption. Moreover, the mixing plant introduces many maintenance-free parts and structure, so the maintenance cost could also be largely reduced

• Reliability: Highly advanced techniques and high-end configuration allows our asphalt mixing plant a reliable and stable operation

• Modularized structure: Thanks to its modularized structure, our mixing plant could be moved to other construction sites in a short period of time; Meanwhile, its transportation, installation and commissioning all become easier and more convenient

• High security and comfortability: Asphalt mixing plant is designed in strict accordance with the philosophy of human engineering, so not only am attractive appearance, our asphalt mixing plant also has a comfortable use experience

• DLB-1500 asphalt mixing machine enjoys a compact structure and a small floor space, so both the installation and component changing will become convenient

Asphalt Mixer

Standalone twin-shaft mixer for depots adding batch capacity without a new tower.

KEY DATA	VALUE
General Parameter — Productivity	≤3-5T/h
General Parameter — Total Power of Electrical Equipment	≤12Kw
Agitation Vat — Capacity (m³)	0.22
Asphalt System — Capacity (m³)	0.48

Specifications

SPECIFICATION	VALUE
General Parameter — Productivity	≤3-5T/h
General Parameter — Working Voltage	380V/50HZ
General Parameter — Total Power of Electrical Equipment	≤12Kw
General Parameter — Dimension (mm)	5290x2133x3450
General Parameter — Manual Asphalt Speed (L/min)	30
Agitation Vat — Capacity (m³)	0.22
Agitation Vat — Temperature (■)	120-160
Agitation Vat — Driving Mode (KW)	3
Agitation Vat — Burner (KW)	240
Asphalt System — Capacity (m³)	0.48
Asphalt System — Asphalt Temperature (■)	100-160
Asphalt System — Asphalt Pump (m³/h)	3
Asphalt System — Pressure (Mpa)	0.6
Electric System — Generator (KW)	12

Cold In-Plant Recycling Equipment · LZS250

Add-on module that returns reclaimed asphalt into the mix at the plant.

KEY DATA	VALUE
Model	LZS250
Agitator Power	2×55 KW
Installed Gross Capacity	≤155 KW

Specifications

SPECIFICATION	VALUE
Model	LZS250
Production	250 t/h
Agitator Power	2×55 KW
Aggregate Hopper	2×6.5 m3
Powder Hopper	4 m3
Filling Height	3.6 m
Unloading Height	3.5 m
Installed Gross Capacity	≤155 KW
Operation Mode	Manual/Automatic Control

Features

• The cold in-plant recycling equipment adopts double horizontal shaft high speed boiling agitator, which makes that the oil materials could be thoroughly mixed

• It is equipped with dense gear impeller spiral for crushing materials so that the powder could be delivered more accurately

• A device for breaking the arch installed at the bottom of the powder hopper makes the powder flow smoothly, thus improving the uniformity of powder delivery

• The light-weight and free vibration powder spiral could greatly improve the measurement precision

• Intelligent control system with the human-machine interface adopts PLC control and computer measuring controlling display for easy operation to meet the needs of different users

• The modular design makes the cold in-plant recycling equipment having the following features such as easy installation, convenient maintenance and quick removal