

ASPHALT MIXING PLANT



McNally Sayaji NFLG
Construction Equipment Co. Pvt. Ltd.



SAYAJI



Excellent Mixing Performance:

1. Advanced twin-shaft mixer makes it powerful in mixing and achieves homogeneity within a short period.
2. Unique discharge structure with no residue, no leaking and short discharging time.
3. Simulated design in allocation of liners and tools integrates efficiency with quality perfectly.



Modular Cold Feeding:

1. By module design concept, we could provide various combinations with cold feeding hoppers and feeding belts as per customer needs.
2. Frequency-variable feeding belt enables auto speed adjustment upon requirement of proportioning and production.
3. Collecting belt and feeding belt are driven by international branded geared motors and provided with alignment devices along the belt.
4. Sirens and alarming lights are available for no-materials warning.



Lowest Operating Cost:

The total thermal design follows the European standards, equipped with accurate weighing system, the facilities has outstanding performance in fuel consumption and power saving.

Dryer Drum:

1. Driven by 4 international-branded geared motors.
2. Optimized blade design enables thorough heating and increases heat usage.
3. Thermal insulation and stainless steel cover effectively prevent heat loss.
4. There are driving rollers by careful calculation and strict heat treatment, branded bearings for long life and reliability.



Environment Protection:

Guided by European environment protection concepts, the equipment is designed to fully meet relevant regulation on dust emission, acid article emission and noise control.

Dust Collecting:

- 1.Total dust collection with 1st-level gravity collecting , 2nd-level bag house and dust collecting modules for various portions of facilities .
- 2.Dupon non-woven fabrics with long service life.
- 3.Auto control over air adjustment and international- branded vent to ensure the quality and lifetime, the total operating performance is up to the prevailing European standards, we reduce the operating cost while fulfilling customer requirement.



Hot Bin:

- 1.With double-layer design and large capacity . Patented discharge assembly ensures accurate weighing, jam-free and maintenance-free .
- 2.Optimized structure of hot bin and discharge assembly guarantees precise AG weighing time and stable AG weighing accuracy .
- 3.Continuous level indicating or higher and lower level indicator and temperature indicator .
- 4.Overflow chutes and dust collecting pipes installed.



Weighing system:

- 1.Consists of international-branded load cells and weighing modules with direct analog input to PLC .
2. High accuracy, reliable and interference tolerable .
3. Accurate design of gravity center, the adoption of antiwearing and soft connections with full ventilation and heat resistance guarantee the weighing accuracy during operation .



HOISTING TROLLEY:

- 1.Optimized skip structure guarantees stick-free in operation .
- 2.Frequency-variable control on windlass for smooth speed control of skip .
- 3.Photo-electric pulse coder enables precise positioning of skip together with speed in different track portion .
- 4.Large capacity and special design to prevent materials isolation during storage;



Pneumatic system:

1. International-branded air compressor with screw freeze dryer, with air-compressor station and second-class air buffering, we provide ample air source for operation.
2. International-branded pneumatic components to reduce maintenance cost greatly.

Screen:

Designed by European professional, driven by electro-vibrators, with long life and free maintenance. Perfect combination of vibrating angle and structure guarantees the strict requirements on proportioning and efficiency with large mesh area. The screen is highly efficient, reliable and adaptable to various proportioning and various aggregates.

Screen System:

Main characteristics: vibrators, force adjustable from 0 to max, long service life, twice more than traditional one, easy maintenance. vibrator's beam, heavy seamless steel tube, excellent rigidity and strength, simple structure, easy installation, safe and reliable.

Screen box: riveted joint, strong and durable.

Screen mesh: age block proof.

Body: large opening structure for easy change of mesh.

Independent by-pass device: with permission of operator, the aggregate of authorized size will go directly into the hot hopper to increase the function and applicability of the vibrating screen. Large aggregate recycling device, the aggregate larger than the max mesh size will be sent to hot hoppers with permission.

Cushion system: excellent configuration to reduce the vibration damage to the tower.



Truly green and environment-friendly

Reclaimed powder treatment device, developed by NFLG radically eliminates reclaimed powder collected by bag dust collector.

The reclaimed powder released by such equipment appears in wet and half-dry state and doesn't neither cake nor fly, which dramatically improves surrounding environment of the mixing plant.



More Reliable, Longer Life, Maintenance-Free

Screen with electro-vibrator
VS Screen with eccentric vibration



Control System Of Asphalt Mixing Plant:

Human computer interface consists of 2 Hewlett-Packard PC or 2 Industrial PC and control system (Active/standby control), lower computer consists Siemens S7-300PLC equipped with 16 position AD module + high speed transfer module to collect weighing signal and ensure the proportioning accuracy. This system is applied in NFLG LB series of asphalt mixing plant, which are widely used in road, airport, dam etc construction. This system possesses humanized interface, perfect production data managing and inquiry and other functions. It displays relative production data and dynamically simulate production and proportioning course, it is easy to learn and operate with high reliability and weighing accuracy.



1. PC control system

PC as the interface of the system, its main functions include start/stop the plant (send out control order), real time inspect and control the plant running (dynamic proportioning display, real time ingredients data, valve travel display), data management (user authorization management), proportion management, production management (production parameter, control parameter, proportion parameter), production report (daily report and integrated report), production record management, production data record, report inquiry and print. PC control system consists of PC, display, UPS, printer, serial port etc.

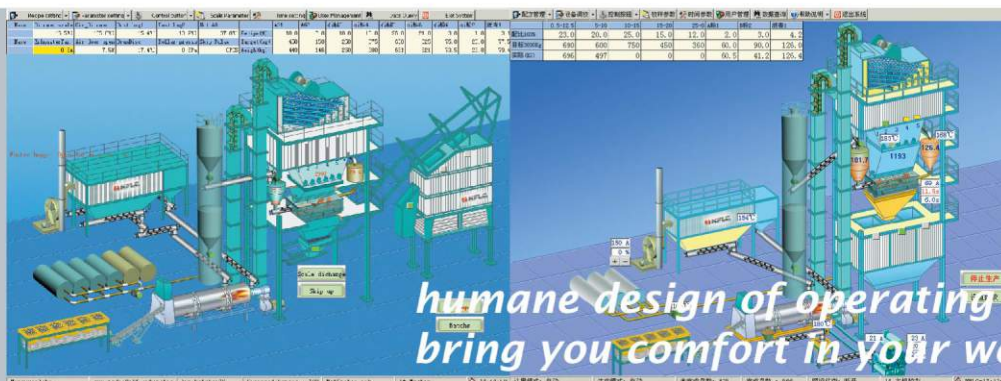


2. Electrical cabinet

Perfectly shielded Rittal standard cabinet for installation of air breaker, contactor, thermal relay, inverter, sensor, slot and terminal. Cabinet door equipped with temperature controller, phase-change switch etc. electrical units are supplied as per users' requirement. All circuit design accords with international standard, the layout is reasonable, the cabling is tidy, easy to maintain.

3. Operation desk

Ergonomically designed operation desk. PC, display, control panel, printer etc are on the main panel, buttons are all installed at the stainless faceplate of the control panel, the faceplate is etched with letters and marks, visible and durable.



Series of Asphalt Mixing Plants

Main Technical Parameters

Type	Mixer Production	Mixer Capacity	Weighing Accuracy			Power	Fuel oil consumption
			Aggregate	Filler	Bitumen		
LB1000	80t/h	1000kg	± 0.5%	± 0.5%	± 0.25%	235 kw	6.0kg/t
LB1500	120t/h	1500kg	± 0.5%	± 0.5%	± 0.25%	360 kw	6.0kg/t
LB2000	160t/h	2000kg	± 0.5%	± 0.5%	± 0.25%	460 kw	6.0kg/t
LB3000	240t/h	3000kg	± 0.5%	± 0.5%	± 0.25%	685kw	6.0kg/t
LB4000	320t/h	4000kg	± 0.5%	± 0.5%	± 0.25%	865 kw	6.0kg/t
LB5000	400t/h	5000kg	± 0.5%	± 0.5%	± 0.25%	998 kw	6.0kg/t
GLB1000	80t/h	1000kg	± 0.5%	± 0.5%	± 0.25%	205kw	6.0kg/t
GLB1500	120t/h	1500kg	± 0.5%	± 0.5%	± 0.25%	330kw	6.0kg/t
GLB2000	160t/h	2000kg	± 0.5%	± 0.5%	± 0.25%	420kw	6.0kg/t
GLB3000	240t/h	3000kg	± 0.5%	± 0.5%	± 0.25%	630kw	6.0kg/t
GLB4000	320t/h	4000kg	± 0.5%	± 0.5%	± 0.25%	790kw	6.0kg/t
GLB5000	400t/h	5000kg	± 0.5%	± 0.5%	± 0.25%	908kw	6.0kg/t
PLB1500	120t/h	1500kg	± 0.5%	± 0.5%	± 0.25%	335kw	6.0kg/t
PLB2000	160t/h	2000kg	± 0.5%	± 0.5%	± 0.25%	425kw	6.0kg/t
PLB3000	240t/h	3000kg	± 0.5%	± 0.5%	± 0.25%	635kw	6.0kg/t
PLB4000	320t/h	4000kg	± 0.5%	± 0.5%	± 0.25%	795kw	6.0kg/t
PLB5000	400t/h	5000kg	± 0.5%	± 0.5%	± 0.25%	913kw	6.0kg/t





GLB5000

OF ASPHALT MIXING PLANTS

LB系列沥青混合料搅拌设备



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LB 4000

OF ASPHALT MIXING PLANTS

LB系列沥青混合料搅拌设备



PLANT IN KOSOVO

YLB MOBILE ASPHALT MIXING PLANT

Characteristics

YLB Series Compulsory and intermittent mobile asphalt mixing plant is a newest type of asphalt mixing equipment, independently developed and manufactured by NFLG on the basis of LB series compulsory and intermittent asphalt mixing plant in combination with achievements of technology abroad as well as at home. It's distinguished by reasonable and compact structure, accurate weighing, easiness of operating, environment friendliness and convenience upon site transfer and presents a relatively ideal choice upon choosing mobile asphalt mixing equipment.

YLB 1500 MOBILE ASPHALT MIXING PLANT

Main performance parameters

Total power	400 kw
Capacity	90-120 t/h
Screening capacity	120 t/h
Layer of sieve	4
Capacity of hot aggregate hopper	15 m ³
Capacity of mixer	1750 kg
Capacity of aggregate scale	1750 kg
Capacity of asphalt scale	150 kg
Capacity of powder scale	225 kg
Discharge height	3700 mm
Total weight	131 t
Trailer speed	40 km/h
Maximum shaft load	10-20 t
Transport dimensions	16000X3000X4200 mm

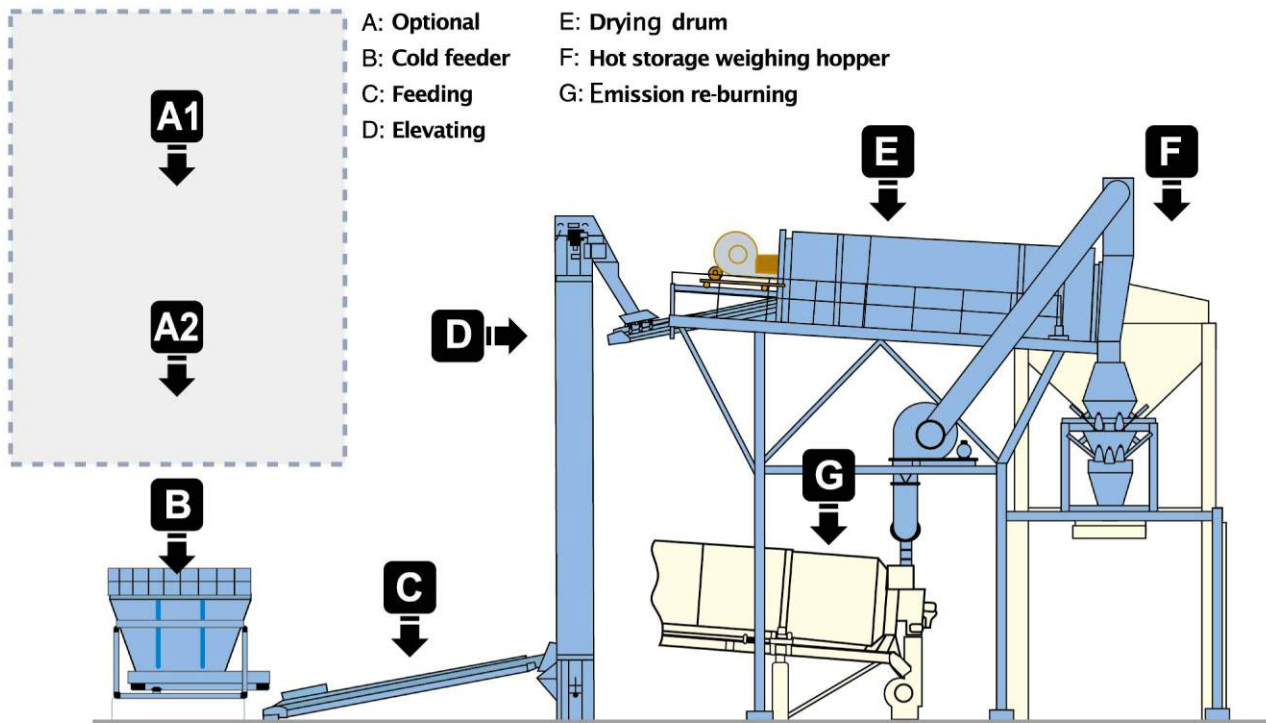


RLB Series Hot Recycling Plants

Main Technical Parameters

Type	Production	Accuracy		Power	Max Substitution Percentage: (by capacity)		
		Static	Dynamic		LB4000	LB3000	LB2000
RLB1000	60~80t/h	± 0.5%	± 2.5%	165kW	25%	33%	——
RLB1750	110~140t/h	± 0.5%	± 2.5%	210kW	40%	54%	50%
RLB2000	120~160t/h	± 0.5%	± 2.5%	245kW	50%	67%	——

Process :



RLB SERIES HOT RECYCLING PLANTS

Hot recycling Plant is for processing of reclaimed asphalt pavement.

The reclaimed asphalt is screened, heated, stored and weighed, and then it is added into various plants in proportion. The RAP materials is combined with virgin aggregate and new asphalt pavement, and mixed homogenously for the new hot mix paving mixture.

Cold Feeder :

There are two independent cold feeders of 18t each, with no material warning lamp and over-sized screen on top. Vibrators are installed on the feeder wall to enable quick loading of recycling asphalt. Special anti-bridging device for fast discharging of materials.



Collecting belt :

Double control on quantity with frequency-variable speed adjustment and gate opening. Trough belt to prevent material overflow. No-material warning device with signals on control panel and warning lamp for timely delivery.

Feeding belt :

With cleaner and emergency pull-cord safety switch.
A set of special screen for removal, over-sized materials.



Heating system:

Parallel-flow heating special internal design for heat utilization and prevention of asphalt plastering on walls and blade. Furthermore, it will help to prevent the aging and damaging of asphalt and heat the asphalt homogeneously.

Burner :

Low-pressure atomization: Special flame design, light diesel oil and heavy oil available.
Pre-heating device for heavy oil: Heating temperature control with branded infrared thermotector, to control temp variation within: $\pm 5^{\circ}\text{C}$.



Elevator :

Sprocket chain elevator with anti-abrasive processing and anti-reversing device.

Hot aggregate hopper:

Hot aggregate transition hopper: huge capacity, equipped with advanced infrared thermotector and level sensor to continually detect material level.



Control System :

RAP hot recycling control system: computer control, automatic and manual operation available.
Real-time Process display, user-friendly interface, warning display.
Main electrical components use international brands.

Weighing hopper :

Branded loadcells for accuracy. Branded air cylinders and solenoid valves for weighing and discharging. Diathermic oil heating for intermediate hopper, weighing hopper and chute for easy RAP transportation.

Dust Collecting system :

Special vent imported from Italy that prevents the oil plastering with flights. Hydrocarbon emission is delivered into the main dryer for re-burning to eliminate the air pollution.



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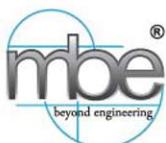
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