

CLY-2000 Mobile Asphalt Mixing Plant

Introduction

CLY-2000 is a full Mobile Batching Asphalt Mixing Plant, with compact and reasonable design, rapid relocation, and high accurate weighing, which could be widely used in expressway or highway build and maintenance. The CLY-2000 asphalt plant includes aggregate feeding system, aggregate heating system, screening system, weighing system, mixing system, bitumen supplying system and control system, etc. The CLY-2000 asphalt plant is very much used for road construction in many parts of Europe, Middle East, Africa and South East Asia.



1# trailer



4# trailer

2# trailer

3# trailer

Product features

1. Integrated design with optimized structure

The whole plant is composed of four separate units with compact structure. Each unit is an independent system.

2. Convenient for transport

Each unit is equipped with independent chassis to ensure movement without special vehicles.

3. Easy installation

Does not need a crane, no extra support required. Advanced hydraulic system guarantees quick erection. It takes only 3 to 5 days to install the main tower when moving from one jobsite to another jobsite.

4. Free selection and combination

Bitumen tanks, filler silos etc could be selected upon users' demand.

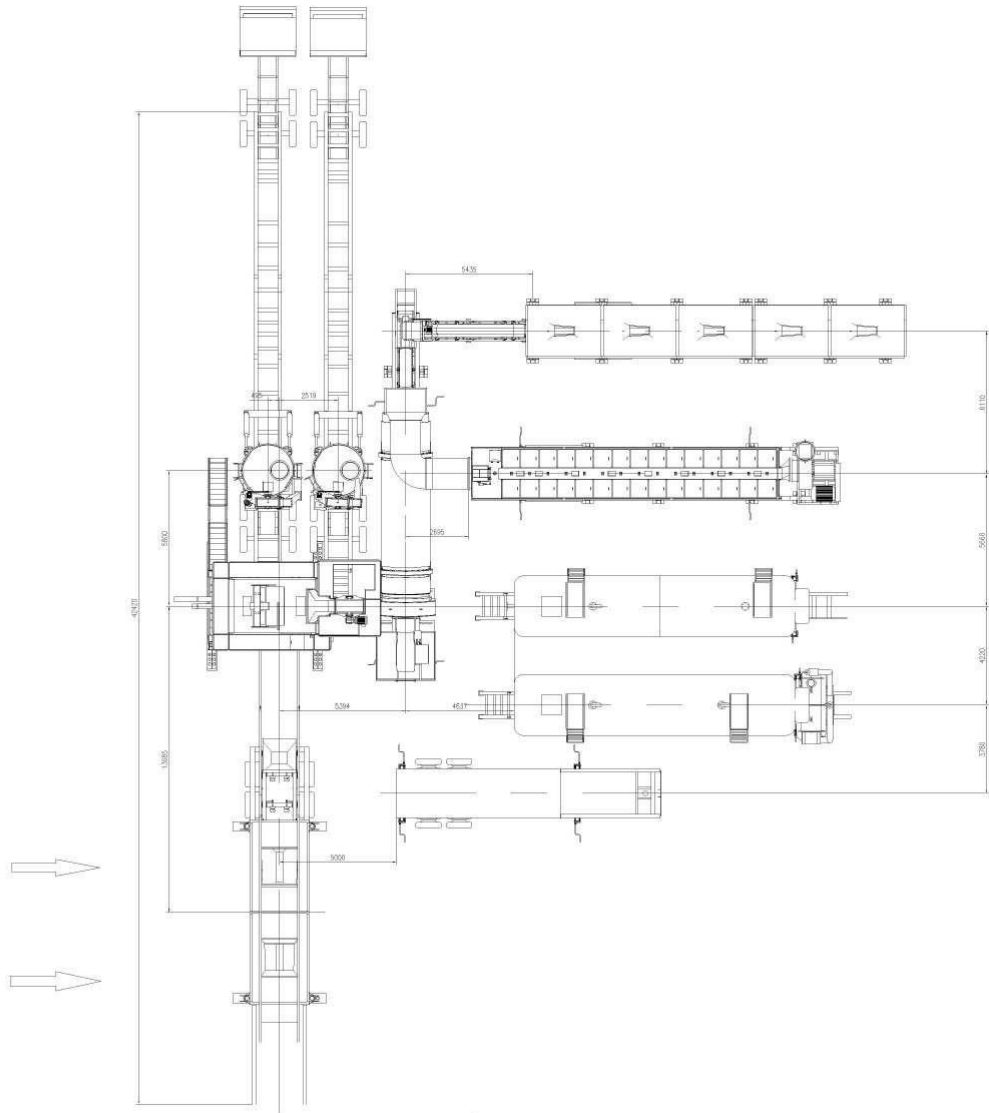
5. Does not require foundation

No need for mass concrete foundation, easy move and transport.

6. Design meets European norms, such as EN536, EN 60204, EN ISO 12100.



Layout Sample



CLY-2000 components

1# trailer	
1.1 Vibrating screen	1set
1.2 Hot bin	1set
1.3 Weighing system (aggregate, bitumen, filler, additives)	1set
1.4 Mixer	1set
1.5 Hot elevator	1set
1.6 Filler elevator	1set
1.7 Pneumatic system	1set
1.8 Hydraulic system(hydraulic cylinder, valves, connectors)	1set
1.9 Trailer chassis (with brake system, lamp system)	1set
2# trailer	
2.1 Drying drum	1set
2.2 Main burner (2-Fuel: diesel oil, heavy oil Exclude assistant system for heavy oil)	1set
2.3 Trailer chassis (with brake system, lamp system)	1set
3# trailer	
3.1 Gravity+ bag filter	1set
3.2 Induced fan	1set
3.3 Screw conveyor	3pcs
3.4 Chimney	1pc
3.5 Trailer chassis (with brake system, lamp system)	1set
4# trailer	
4.1 Cold aggregate bin	5pcs
4.2 Collecting belt conveyor	5pcs
4.3 Horizontal belt conveyor	1set

4.4 Inclined belt conveyor	1set
4.5 No aggregate warning system	5sets
4.6 Trailer chassis (with brake system, lamp system)	1set
5# trailer Imported filler silo	1set
6# trailer Reclaimed filler silo	1set
7# trailer HMA storage silo	1set
8# trailer Control room plus air compressors	3pcs
9# trailer Bitumen tanks	2sets
10# trailer Diesel oil tank	1set
11. Additional system	
12.1 SMA liquid additive system (ig. Wetfix)	1set
12.2 SMA granulate additive system (ig. Viatop)	1set
12. Free tools and spare parts	1set

Note: 1) Lightning rod is not included. (We can provide drawings and users need install the plant by themselves.)

- 2) **Main cable** from control room to transformer/generators is not included;
- 3) **Cable** from hot oil control panel to transformer/generators is not included.
- 4) **Each trailer has its own electric box located in the trailer, say distributed control for this Mobile AMP.**

Main technical parameters of CLY-2000

No.	Item	Technical Specifications
	Capacity (Moisture <5%)	160t/h (under standard working conditions)
	Trailer quantity	10pcs
		Coupling pin: 90# (Φ88.9mm)
		Fifth wheel height: 1.25m
	Height of plant after erecting	Max.14.5m
	Occupied area	60x40m
	Installed power	>450kw
		Equipped with steel bases
	1# trailer	
1.1	Trailer	Dimension: 19.12x3.0x4.1m (LxWxH)
		Note: length of each trailer exclude truck head.
		G.W: 40ton
		Trailer rated speed:60km/h
		Axis x tires=3x4
1.2	Hot elevator	Chain & hopper type,180ton/h
		Motor power: 15kw
1.3	Filler elevator	Belt & hoppers, capacity: 30t/h
		Motor power: 4.0kw
1.4	Vibrating screen	Capacity: 180t/h
		Vibrating motors: 5.0kw x 2pcs
		Mesh size: 5 x 5, 10 x 10, 16 x 16, 25 x 25, 35 x 35 (or requested by user)
		Screen: 5 decks 9 segments
1.5	Hot bin	Volume: 10.0 m ³
		Bin quantities.: 5+1 (small filler bin)
		Level meter: 5pcs continuous+1pc paddle switch
1.6	Weighing system	Aggregate scale: Weighing range: 1 – 2,500kg
		Load cell type: 3pcs press load cell
		Accuracy:≤±0.3%
		Filler scale: Weighing range: 1 – 220kg
		Load cell type: 3pcs press load cell

		Accuracy: $\leq \pm 0.3\%$
		Bitumen scale: Weighing range: 1 – 200kg
		Bitumen scale hopper is electrical heated
		Load cell type: 3pcs pull load cell
		Accuracy: $\leq \pm 0.25\%$
1.7	Mixer	Capacity: 2,000kg/batch
		Power: 37kw x 2
1.8	Oversize pipe, waste pipe	
		Type: rubble pipe
1.9	Hydraulic system	Control type: remote control
		Power: 11kw
		Oil Cylinder: 4pcs
	2# trailer	
2.1	Trailer	Dimension: 16.0x2.6x4.0m (LxWxH)
		G.W: 25ton
		Trailer rated speed: 60km/h
		Axis x tires = 2x4
2.3	Drying drum	$\Phi 1,980 \times 9,200$ mm (Diameter x length)
		Power: 11kw x 4
		Rock wool thermal insulated, with stainless steel
2.4	Main Burner	2-fuel: diesel oil / heavy oil
		Exclude assistant system for heavy oil
		Burner power: 12.0MW
		Oil pump: 4.0kw
		Blower fan: 30kw
	3# trailer	
3.1	Trailer	Dimension: 16.07x2.55x4.0m (LxWxH)
		G.W: 22ton
		Trailer rated speed: 60km/h
		Axis x tires = 2x4
3.2	Dust cleaning system	Gravity + bag filter
		Emission standard: ≤ 20 mg/Nm ³ (under standard working conditions)
		Bags number: 720pcs
		Bag filtering area: 752m ²

		Induced fan: 110kw
		Cleaning type: Reverse-air dust-blown
3.3	Screw conveyor	Screw conveyor in dust cleaning hopper:5.5kw
		Coarse filler recycled screw conveyor: 5.5kw x 2
4# trailer		
4.1	Trailer	Dimension: 17.5x2.4x4.0m (LxWxH)
		G.W: 24ton
		Trailer rated speed:60km/h
		Axis x tires=2x4
4.2	Cold aggregate bin	Silo nos.:5pcs; each capacity: 10.5m ³
		Power: 5x2.2kw, frequency speed control
		10mm x 600mm (thickness x width)
		Feeding height: 3,414mm
		Feeding width: 3,200mm
4.3	Horizontal belt conveyor	Capacity: 180t/h
		Motor& speed reducer: 4kw
		12mm x 600mm (Thickness x width)
4.4	Primary vibrating screen	
		Vibrating motor power: 0.6kw
4.5	Inclined belt conveyor	Capacity: 180t/h
		Motor& speed reducer: 4kw
		12mm x 600mm (Thickness x width)
5# trailer		
5.1	Trailer	Dimension: 19.6x2.4x4.1m (LxWxH)
		G.W: 18.5ton
		Trailer rated speed:60km/h
		Axis x tires=1x4
5.2	New filler silo	Capacity: 40ton, with level indicator
5.3	Filler elevator	1pc
5.4	Hydraulic system	Control type: remote control
		Power: 6.0kw
		Oil Cylinder: 2pcs
6# trailer		
6.1	Trailer	Dimension: 19.6x2.4x3.6m (LxWxH)

		G.W: 15.5ton
		Trailer rated speed:60km/h
		Axis x tires=1x4
6.2	Reclaimed filler silo	Capacity: 40ton, with level indicator
6.3	Filler elevator	1pc
6.4	Hydraulic system	Control type: remote control
		Power: 6.0kw
		Oil Cylinder: 2pcs
	7# trailer	
7.1	Trailer	Dimension: 20.0x2.3x4.2m (LxWxH)
		G.W: 17.0ton
		Trailer rated speed:60km/h
		Axis x tires=2x4
7.2	HMA storage silo	Capacity: 30+30ton, direct loading is available
	8# trailer	
8.1	Trailer	Dimension: 11.4x2.2x3.5m (LxWxH)
		G.W: 13.0ton
		Trailer rated speed:60km/h
		Axis x tires=1x4
8.2	Control system	With windows in 3 sides, with air conditioner
	Control room	Dimension: 7.2m×2.2m×2.5m (LxWxH)
		With air plugs
		Monitoring system:1set
8.3	Pneumatic system	Air compressor: 2pcs, screw type Motor power: 11kw, 22kw
	9# trailer	
9.1	Trailer	Dimension: 15.5x3.2x4.2m (LxWxH)
		G.W: 18.0ton
		Trailer rated speed:60km/h
		Axis x tires=2x4
9.2	Bitumen tank	Capacity: 2pcs x 40m ³
		Net Diameter=2.8m, L=6.5m
		Insulation thickness: 200mm, rock wool.

		With level indicator, electro-pneumatic valves, max level switches
9.3	Hot oil Boiler	Capacity: 600,000Kcal/h
9.4	Bitumen pump	2pcs x15kw, Screw type
	10# trailer	
10.1	Trailer	Dimension: 11.8x2.3x3.4m (LxWxH)
		G.W: 12.0ton
		Trailer rated speed:60km/h
		Axis x tires=1x4
10.2	Diesel oil tank	Capacity: 40ton,With level indicator.
11	Additional system	
11.1	SMA liquid additive system (ig. Wetfix)	To mixer directly, without tank to storage additives.
		Liquid additive scale: flow meter
		Small hopper for liquid additives is electrical heated
11.2	SMA granulate additive system (ig. Viatop)	Mode: flexible screw conveyor
	Feeding bin:	1pc x 2.5m ³
		Granulate scale: Weighing range: 1 – 15kg
		Load cell type: 1pc load cell
		Accuracy: $\leq\pm 0.5\%$
11.3	Cold RAP (optional)	
	Cold bin for recycled	1pcx7.5m ³
	Recycled scale	Weighing range: 1 - 500kgs
		Load cell type: 3pcsx350kg
		Accuracy: $\leq\pm 0.3\%$

Free Spare parts list

No.	Items	Specification	Quantity	Location
1	Proportion belt	W=600, 3.22m	1pc	
2	Roller	Φ89 x 700	10pcs	Belt conveyer
3	Roller	Φ79 x 190	5pcs	Belt conveyer
4	Bearing	UCF210	1pc	Belt conveyer
5	Chain	24A-2×16	1pc	Drying roller
6	Metal thermometer	Wss-502, L=100	1pc	Drying roller
7	Solenoid valve	SR550	1pc	Main burner
8	Ignition transformer	2×7KV	1pc	Main burner
9	Plate chain	L=400mm	1pc	Hot elevator
10	Chain connector		10pcs	Hot elevator
11	Seated bearing	UCT316	1pc	Hot elevator
12	Hopper		5pcs	Hot elevator
13	Chain	16A-2x18	2pcs	Screw conveyer
14	Screen(include 9pcs)		1set	Vibrating screen
15	Grease nipple	GB1152-89 M10	40pcs	

16	Level indicator	L=600	1pc	Hot bin
17	Mixing tips		3pcs	Mixer
18	Bags		5pcs	Bag filter
19	Silicone seal	Φ450x50	10pcs	
20	Triangle belt	SPC3550	1set	Induced fan
21	Fast tie-in	PC12-03	5pcs	
22	Fast tie-in	PC08-02	5pcs	
23	High pressure pipe	ø12	3m	Pneumatic system
24	High pressure pipe	ø10	3m	Pneumatic system
25	Muffler	1", 1/4"	6pcs	
26	Solenoid valve for cylinder	RN35DK	3pcs	Pneumatic system
31	Hot resistance	PT100	1pc	Bitumen storage system
32	Metal thermometer	L=800	1pc	Bitumen heating system
33	Contactors	3TF40	2pcs	Control system
34	Contactors	3TF41	2pcs	Control system
35	Proximity switch	TK-30N15C	1pc	Mixer
36	Air switch	C65N 10A	2pcs	Control system
37	Motor protective breaker	3VU1340-1M	2pcs	Control system
38	Motor protective breaker	3VU1340-1N	2pcs	Control system
39	Relay	3UA50	2pcs	Control system
40	Miniature relay	DC24V	4pcs	Control system
41	Weighing module TR200H	TR200H	1pc	Control system
42	Far-distance pressure meter	YTZ-150 1.6MPa	1pc	Control system
43	Differential pressure meter	XMT-2004	1pc	Bitumen heating system
44	Temp. Control room	XMT-122	1pc	Bitumen heating system

45	Pressure load cell	SQB-1500	1pc	Aggregate weighing system
46	Pressure load cell	SQB-250	1pc	Filler weighing system
47	Pull load cell	615-200	1pc	Bitumen weighing system
48	Oil filter		2pcs	Air compressor
49	Air filter		2pcs	Air compressor
50	Lubricate oil		1barrel	Air compressor
51	Tools		1set	For installation
52	Tools		1set	For maintenance