

CONCRETE BATCHING PLANT



McNally Sayaji NFLG
Construction Equipment Co. Pvt. Ltd.



SAYAJI



Concrete Batching Plant (Station Type)

ADDITIVE WEIGHING SYSTEM

Implemented two sets of weighing system of stainless steel, using free flow additive to carry out weighing. The additive could be changed also and it is advisable to clean the additive scale after every change.

DISTRIBUTION HOPPERS

It consists of Aggregate Hopper with specially designed pressure controlled gate opening mechanism having high valley angle and indicator for gate closing position.

HORIZONTAL AND INCLINED BELT CONVEYORS

Belt conveyors are provided with replaceable rubberised roller group for proper alignment of belt. Uniquely designed and thoroughly sealed bearing housing with amply dimensioned bearing.

MIXER

Spiral Mixer – Advanced design with increased efficiency by 15% to 20%.

CONTROL SYSTEM

Synchronized dual computer are capable of controlling the whole production process in auto, semi auto or manual mode utilizing NFLG IPR protected software.

DUST COLLECTOR

NFLG developed and Patented Impulse jet type bag filter to ensure minimum dust emission.

PNEUMATIC SYSTEM

High quality compressor and air tank of ample volume ensure sufficient pressure and accuracy of the system. It also adopts automatic discharge mechanism.

POWDER WEIGHING SYSTEM

Soft flexible joint implemented in this powder scale of high bending angle could eliminate phenomenon of dragging scale. The powder guiding mechanism could reduce blockage possibility of mixer shaft.

WATER WEIGHING SYSTEM

Implemented transition liquid tank ensures precision weighing of water. The water discharge system adopts self flow technology.

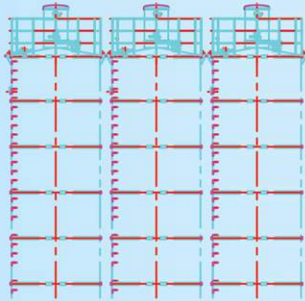
HZS Series Of Concrete Batching Plant

Main technical parameters

Model		HZS60	HZS75	HZS100	HZS150	HZS200	HZS225
Productivity(m ³ /h)		60	75	100	150	200	225
Mixer	Type	JS1000	JS1500	JS2000	JS3000	JS4000	JS4500
	Power(kW)	2X18.5	2X30	2X37	2X55	2X75	2X75
	Output(m ³)	1	1.5	2	3	4	4.5
	Agg. Size(mm)	≤60	≤80	≤120	≤150	≤150	≤150
Batcher	Hopper capacity(m ³)	13-30	15-30	20-30	30	30	30
	Hopper quantity	3-6	3-6	3-6	3-6	3-6	3-6
Conveyor Capacity(t/h)		300	450	550	600	900	900
Weighing Scope and Accuracy	Aggregate(kg)	2500±2%	4000±2%	4X2400±2%	4X3600±2%	4X4800±2%	4X5500±2%
	Cement (kg)	600±1%	900±1%	1200±1%	1800±1%	2400±1%	2700±1%
	Fly ash(kg)	200±1%	300±1%	400±1%	600±1%	800±1%	900±1%
	Water(kg)	300±1%	400±1%	500±1%	700±1%	1000±1%	1200±1%
	Additive (kg)	2X30±1%	2X30±1%	2X50±1%	2X50±1%	2X80±1%	2X80±1%
basic Power (kW)		92	120	140	190	230	230
Discharge Height (m)		3.9	3.9	3.9	3.9	3.9	3.9

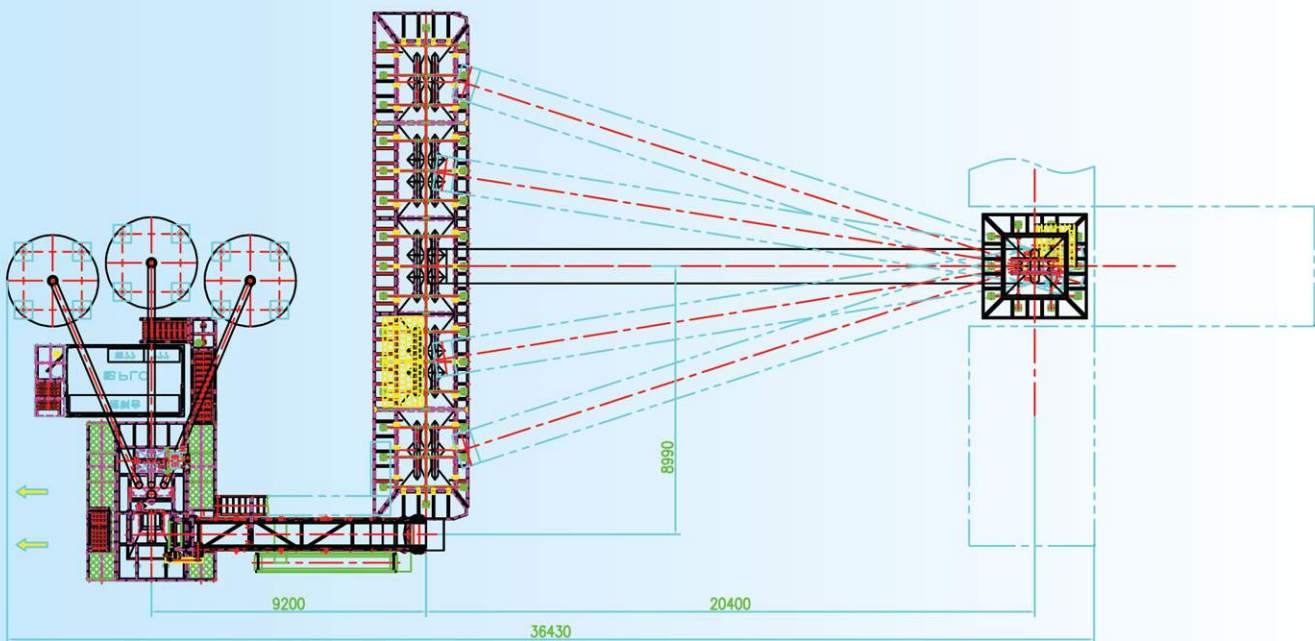
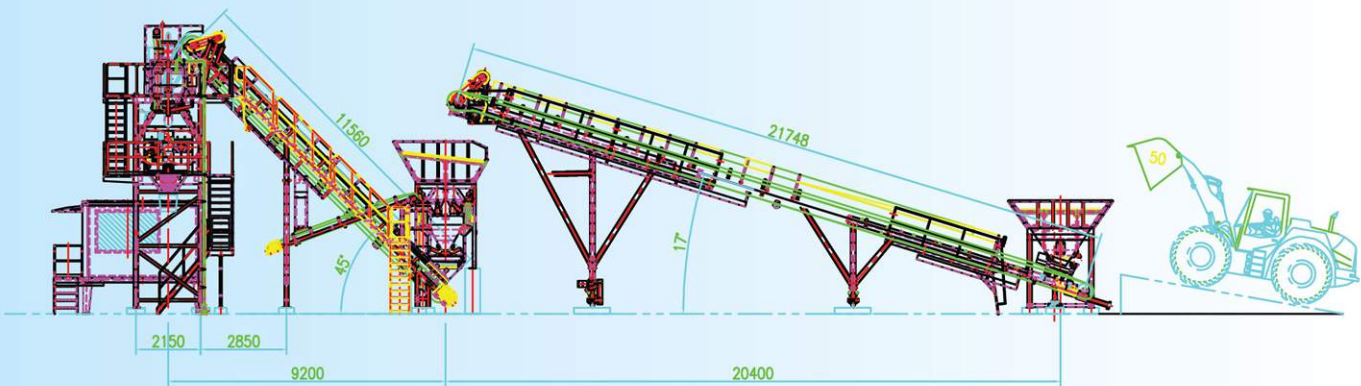
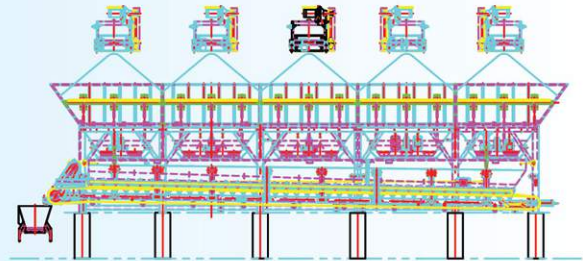
- Note: 1. The total power does not include the power of screw conveyor
2. The quantity of hopper can be designed as required
3. All above specifications are subject to alteration without notice

Concrete Batching Plant (Station Type)



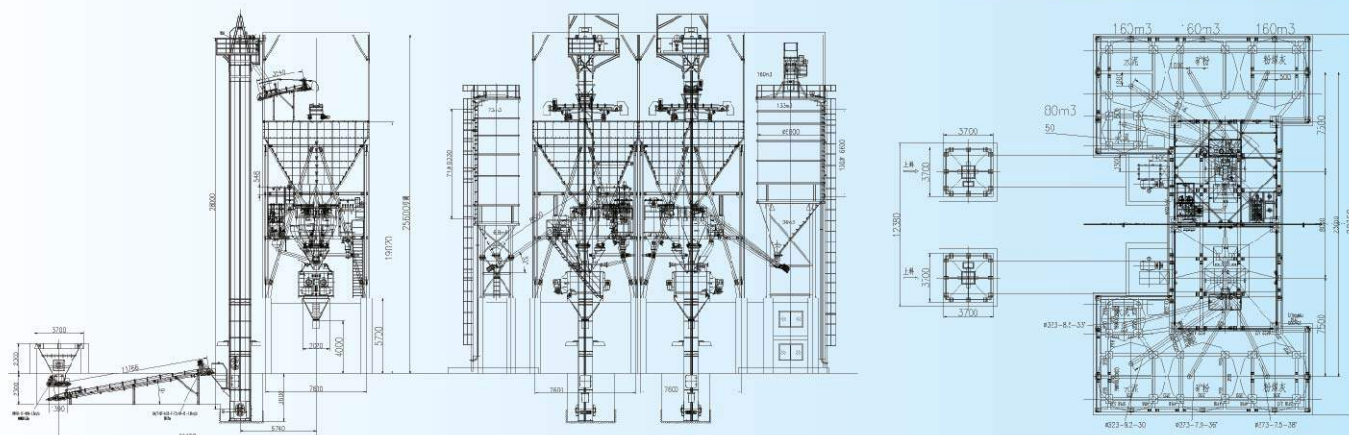
technical parameter	
capacity	60m ³ /h
mixer	JS1000D3
scale	aggregate 2500kg±2%
	cement 600kg±1%
	water 300kg±1%
	additive 50kg±1%
total power ≈140kW	

CONCRETE BATCHING PLANT – TROUGH BELT TYPE
MODEL No. HZS 60



Concrete Batching Plant (Tower Type)

NFLG specializes in development and manufacture of high quality concrete mixing towers, striving to reduce their indirect operating cost of equipment and eventually generate more value. The core advantage of NFLG lies in its cutting edge technological process, reliable and stable performance and compact and elegant structure of its equipments. Atop the mixer, a hopper of huge volume is installed. The whole production process involves weighing, mixing, and discharging ensuring environment protection. It is suitable for application in commercial concrete production, large civil construction projects, precast concrete products and so on.



HLS Series Of Concrete Batching Plant

Main technical parameters

Model	HLS60	HLS 90	HLS120	HLS180	HLS240	HLS270
Productivity (m ³ /h)	60	90	120	180	240	270
Mixer	Type	Js1000	Js1500	Js2000	Js3000	Js4500
	Power(kW)	2x18.5	2x30	2x37	2x55	2x75
	Output(m ³)	1	1.5	2	3	4.5
	Agg.Size(mm)	≤60	≤80	≤120	≤150	≤150
Waiting Hopper Capacity(m ³)		120	120	200	200	240
Conveyor Capacity(t/h)		200	300	400	500	600
Weighing Scope and Accuracy	Aggregate(kg)	2x1500±2%	2x2000±2%	3x2400±2%	3x3600±2%	3x4800±2%
	Cement (kg)	600±1%	1000±1%	1200±1%	1800±1%	2400±1%
	Fly ash(kg)	200±1%	300±1%	400±1%	600±1%	800±1%
	Water(kg)	300±1%	400±1%	500±1%	700±1%	1000±1%
	Additive (kg)	2x30±1%	2x30±1%	2x50±1%	2x50±1%	2x80±1%
basic Power (kW)		85	117	170	210	240
Discharge Height (m)		3.9	3.9	3.9	3.9	3.9

- Note: 1. The total power does not include the power of screw conveyor
 2. The quantity of hopper can be designed as required
 3. All above specifications are subject to alteration without notice

Twin Spiral Mixer

1. Double spirals concrete mixer is one of the important patented innovation of NFLG.
2. Double spirals concrete mixers can increase mixing efficiency b 15% reduce energy consumption by 20% compared to traditional Double shafts mixers.
3. This mixer is especially suitable for concrete production of high mark with high homogeneity of product.
4. It is equipped with continual mixing blades and boasts of a powerful mixing capacity which slashes mixing time with high quality of output product.
5. The ends of the shafts adopt unique several layered sealing and protection structure, preventing slurry leakage .
6. The charge port of the mixer cover is designed specially to efficiently prevent concrete from sticking to the shafts and thus reducing shaft blockage.

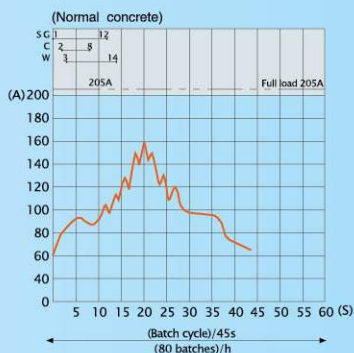


Twin Spiral Mixer

Main Technical Parameters

Concrete performance	Technical parameters	Equipment	
		Twin-spiral mixer	Traditional Mixer
Normal concrete	Mixing time(S)	20	40
	Mixing cycle(S)	45	72
	Capacity (1m ³)m ³ /h	80	50
	Capacity (1.5m ³)m ³ /h	120	75
	Capacity (2m ³)m ³ /h	160	100
	Capacity (3m ³)m ³ /h	240	150
	Capacity (4m ³)m ³ /h	320	200
High performance concrete	Mixing time(S)	40	120
	Mixing cycle(S)	80	150
	Capacity (1m ³)m ³ /h	45	24
	Capacity (1.5m ³)m ³ /h	67.5	36
	Capacity (2m ³)m ³ /h	90	48
	Capacity (3m ³)m ³ /h	135	72
	Capacity (4m ³)m ³ /h	180	96

shortened Cycle Time



Computer Control System

The synchronized control system for concrete mixing plants of NFLG is made up of two advanced industrial computers , high performance PLC , human machine interface, highly precise weighing units and low voltage electronic elements of best brands.

CONFIGURATION OF HIGH PERFORMANCE HARDWARE TO ENSURE RELIABLE AND STABLE CONTROL.

- Industrial class computer.
- High performance, long service life PLC with super high running speed.
- Main low voltage electronic components are of best brands in the world like Schneider, ABB, Omron, equivalent etc.

FULL AND SMART CONTROL FUNCTIONS

- Password protected control program or scale calibration reliably ensure security of important production data.
- Full animated production process demonstrating crucial production data such as weighing value, target value and error value in real time.
- Preset production task and reset production sequence available.
- Possible to automatically assign batch output in accordance with batch volume and mixer capacity.
- Express scale calibration, self diagnostics and tip functions available.
- Automatic adjustment of fall, capable to judge trend, carry out automatic correction of negative value , zero position following and tar removal by pressing a button.
- Capable to compensate upon underweight and deduct upon overweight.
- Correction window of aggregate moisture to increase / decrease water content is also provided.
- Possible to pause water weighing in any time or alter water volume in the recipe.
- Uploading of delivery billing is also available. User is also allowed to design and change delivery billing in the software.
- Data management system is provided to enable user to conveniently carry out inquiry , browsing and printing of production data.



Computer Control System



Skip type concrete batching plant



Tower type concrete batching plant

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