

AMMANN ELBA PLANTS

MODULAR WITH MOBILITY SERIES ELBA CONCRETE BATCHING PLANTS

CC 30 – CC 150 ELBA



AMMANN
ELBA

AMMANN GROUP WORLDWIDE



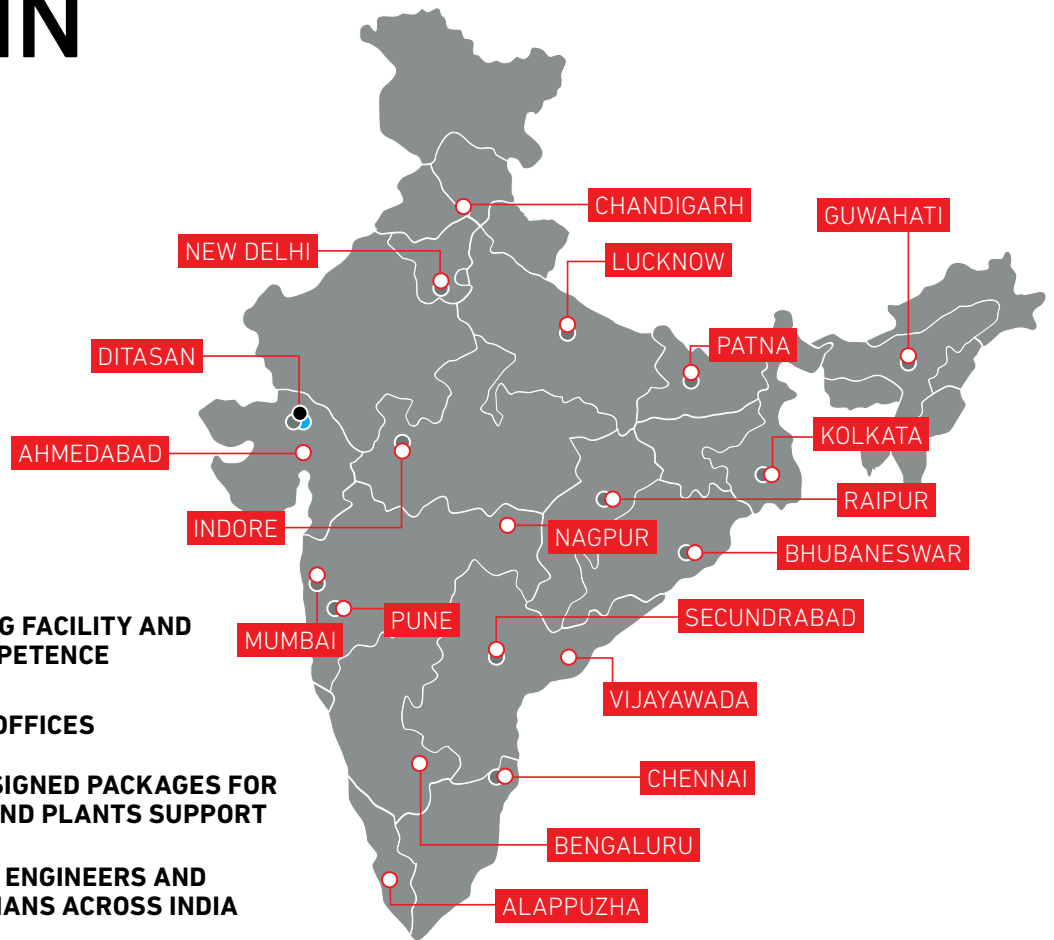
AN INNOVATIVE FAMILY FIRM

Ammann is a world-leading supplier of mixing plants, machines and services to the construction industry, with core expertise in road-building and transportation infrastructure. Our strengths are the forthcoming approach of a family firm that has been operating for many years, coupled with our strong and well-established international presence. Since 1869, we have been setting benchmarks in the road-building industry, thanks to countless innovations and solutions that are as competitive as they are dependable.

True to our motto, "Productivity Partnership for a Lifetime," we gear our activities to the needs and requirements of our customers around the globe. We are aware that plants and machines that prove their merits day after day under tough operating conditions are the only way to give our customers the critical, competitive edge they need. As you would expect, we provide a well-developed service network and reliable supply of spare parts, together with support throughout the lifetimes of the plants and machines that we offer.

AMMANN INDIA

- 1** MANUFACTURING FACILITY AND CENTRE OF COMPETENCE
- 18** SALES AND SERVICE OFFICES
- 7** CUSTOM DESIGNED PACKAGES FOR MACHINES AND PLANTS SUPPORT
- 200+** TRAINED ENGINEERS AND TECHNICIANS ACROSS INDIA



PLANTS



ASPHALT-MIXING PLANTS
CONCRETE-BATCHING PLANTS

MACHINES



SOIL & ASPHALT COMPACTION
ASPHALT PAVERS



DISTRIBUTION AND SERVICE NETWORK AMMANN INDIA

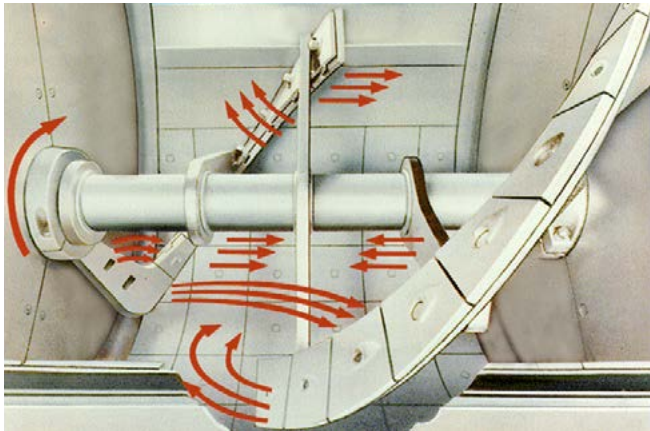
- MANUFACTURING FACILITY AND CENTRE OF COMPETENCE
- SALES AND SERVICE OFFICES
- WAREHOUSES
- TRAINING CENTRE

Ammann India, Ditasan

CC 30–75 ELBA

QUALITY CONCRETE PRODUCTION – RELIABLE AND ECONOMICAL

ELBA, a world renowned brand over 75 years producing high quality concrete products. Enjoying leadership in the market with regards to quality, output and economic efficiency. ELBA brand acquired by Ammann Group, a world-leader in supplying of asphalt mixing plants, road construction machines and services to the construction industry, with core expertise in road-building and transportation infrastructure. Since 2013, Ammann Group having a very strong presence in India, developed world class manufacturing facility in Gujarat to cater domestic and export market. AMMANN INDIA PVT. LTD. is wholly owned subsidiary of Ammann Schweiz AG (Switzerland) and ELBA concrete batching plants are being manufactured in the same state of the art manufacturing facility located at Ditasan/Mehsana near Ahmedabad which is spread over 120 000 m². The present batching plants are equipped with ELBA mixing technology, as1 Control System and internationally proven German technology with high quality components.



Patented compulsory Elba single shaft mixer.

What Makes ELBA Concrete Plant Special as preferred choice of customer?

ELBA Concrete plants are designed with modular concept and cent percent mobility for transport from any location with no exclusive foundations, only hard surface or PCC of 250–300 kN/m² required to place the compact folded plant with plug and play concept to erect and commission the plant within no time.

FEATURES

- Modular with mobility designed concrete plants give edge over competition
- Patented Single and Double Shaft Spiral Mixers – Ensure Mix quality with consistency with two zone counterflow mixing mechanism
- Auto Lubrication System – This ensure timely and effective lubrication to Shaft seals to enhance life and no breakdown time
- Easy removal of Shaft Seal – No need to take out shafts to replace Seals reduces down time
- Elba patented interlocking mixer tiles design – Reduces laborious job to replace the tiles
- Control System – Unique Real time micro processor based as1 control system ensures zero down time with extraordinary features to suit the entire requirements of management MIS

CONCEPT OF QUICK INSTALLATION AND RELOCATION

Quick & economical installation

All sub-assemblies (mixer platform, linear bins) are completely pre-installed and connected to enable fast installation. For assembly, the plant is unfolded and erected which reduces significantly the connection and installation costs.

Minimized site development costs

The Ammann CC Elba mixing plant does not require elevated foundations for installation, soil compaction or PCC of 250–300 kN/m² is sufficient. This minimize the cost of developing the site.

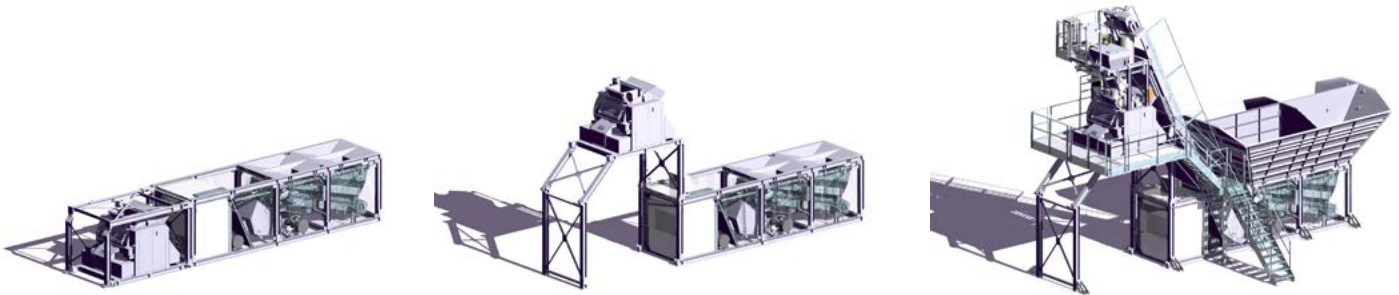
Parts

Original Ammann replacement parts are reliable and guarantee the long-term preservation of CC Elba concrete-mixing plants.

Wherever larger quantity of homogenous mix of superior quality concrete Ammann Elba plants are an ideal solution. Ammann Elba plants are used in diverse applications like construction of Roads, Dams, Bridges, Landfills, high-rise building , Airports etc. The plants can be quickly moved & transported. Thanks to the patent design of two zone counterflow mixing mechanism of Elba mixers the mixing quality is assured.

Accessories:

- Silos, Belt Conveyors, Pneumatic conveying system.
- Cement, Fly ash, Micro-Silica feeding system.
- Automatic Bags Silting machine
- Environmental/Pollution control Equipment
- Weigh Bridge
- Icing & chilling plant



Ammann CC 60 Elba

TECHNICAL SPECIFICATION CC 30–CC 75 ELBA

TYPE	CC 30		CC 45		CC 60						CC 75
	Skip	Belt	Skip	Belt	Belt + Skip		Belt + Belt		Belt + Belt		Belt + Belt
OUTPUT ¹	30 m³ / h		45 m³ / h		60 m³ / h						75 m³ / h
CONCRETE DISCHARGE HEIGHT	4 m		4 m		4 m						4 m
OPERATING VOLTAGE / FREQUENCY	415 V / 50 Hz		415 V / 50 Hz		415 V / 50 Hz						415 V / 50 Hz
CONTAINERS / TRAILERS	1 x 40' OT HQ container		1 x 40' OT HQ container		2 x 40' OT HQ containers						2 x 40' OT HQ containers
CONTROL SYSTEM	as1		as1		as1						as1
MIXER	Single shaft		Single shaft		Single shaft		Single shaft		Twin shaft		Twin shaft
Mixer model	CEM 500 S		CEM 750 S		CEM 1000 S		CEM 1000 S		CEM 1000 T		CEM 1250 T
Compacted fresh concrete	0.5 m³		0.75 m³		1 m³						1.25 m³
Dry filling	0.75 m³		1.125 m³		1.5 m³						1.87 m³
Mixer driving power	1 x 18.5 kW		1 x 28 kW		1 x 37 kW		1 x 37 kW		2 x 18.5 kW		2 x 22 kW
AGGREGATE WEIGHING SYSTEM	Skip	Belt	Skip	Belt	Belt						Belt
No. of weighing cells	4 pcs		4 pcs		4 pcs						4 pcs
Drive power	11.2 kW	11.2 kW	15 kW	15 kW	9.2 kW						9.2 kW
AGGREGATE TRANSFER SYSTEM	Same Skip	Same Belt	Same Skip	Same Belt	Skip		Belt		Belt		Belt
Drive power	–		–		18.5 kW		11.2 kW				11.2 kW
AIR COMPRESSOR	Reciprocating		Reciprocating		Reciprocating						Reciprocating
Max. pressure	10 bar		10 bar		10 bar						10 bar
Volume of pressure vessel	180 l		180 l		220 l						220 l
CEMENT WEIGHING SYSTEM	450 kg		450 kg		600 kg		750 kg				750 kg
No. of weighing cells	3 pcs		3 pcs		3 pcs		3 pcs				3 pcs
WATER WEIGHING SYSTEM	225 kg		225 kg		300 kg		375 kg				375 kg
No. of weighing cells	1 pc		1 pc		3 pcs		2 pcs				2 pcs
AGGREGATE BIN FEEDER ^{3,4}	Compartment		Compartment		Compartment	Inline	Compartment	Inline	Compartment	Inline	Inline
Capacity	22 m³	30 m³	22 m³	30 m³	30 m³	40 m³	30 m³	40 m³	30 m³	40 m³	60 m³
Number of chambers	4 pcs		4 pcs		4 pcs						4 pcs
Batching gates	4 pcs		4 pcs		4 pcs						4 pcs
Filling height	4 m	4.7 m	4 m	4.7 m	4 m	4 m	4 m	3.65 m	4 m	3.65 m	4.15 m
Filling width per chamber	2.7 m	2.9 m	2.7 m	2.9 m	3.05 m	2.9 m	3.05 m	2.9 m	3.05 m	2.9 m	2.9 m
Connected power with generator set ² Simultaneous factor 1	90 KVA		121 KVA		157 KVA		160 KVA				174 KVA
Connected power with main supply ² Simultaneous factor 0.8	36 kW		48 kW		63 kW		64 kW				69 kW

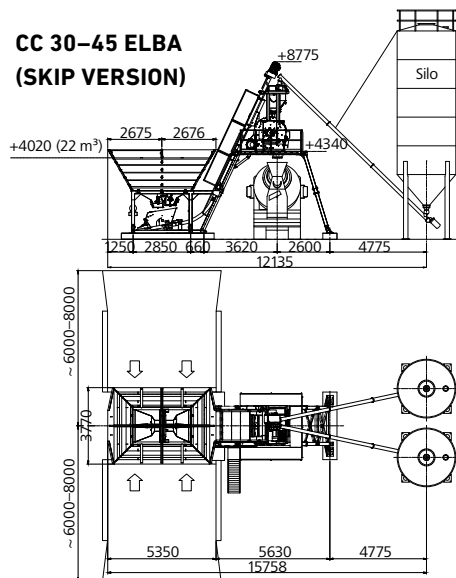
¹ The concrete output depends on several parameters and has to be calculated individually for every case of application. The figures theoretical based on a discharging on dump trucks.

² The exact electrical connection data are to be determined in accordance with the real plant layout including accessories and plant extensions.

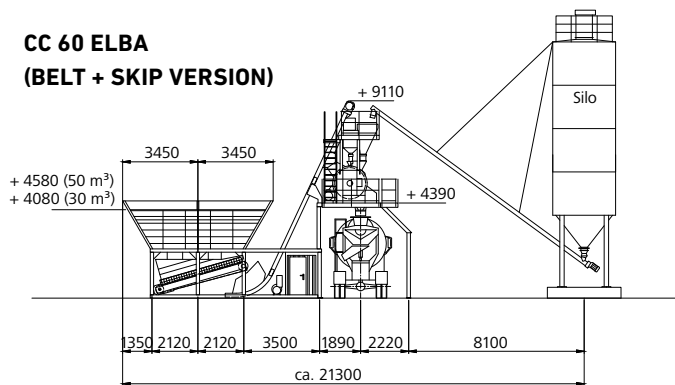
³ Compartment bin feeder of 50 m³ available on demand for CC 60

⁴ Combination of different size of 4 bin inline feeder available on demand 40/60/80/100/120/140/208 (up to 6 inline bin also possible)

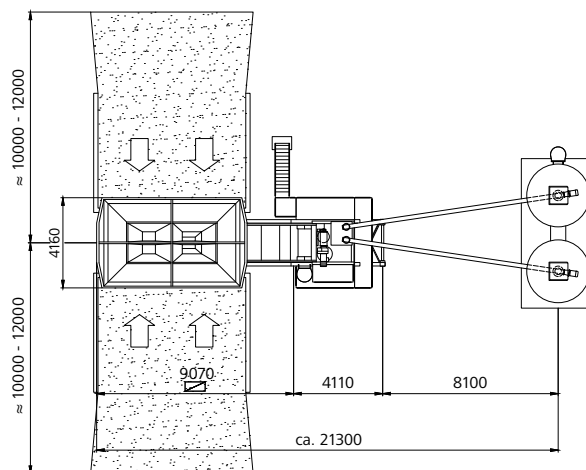
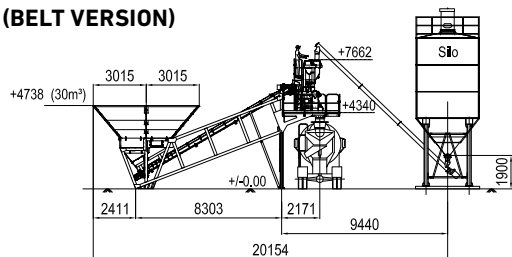
**CC 30-45 ELBA
(SKIP VERSION)**



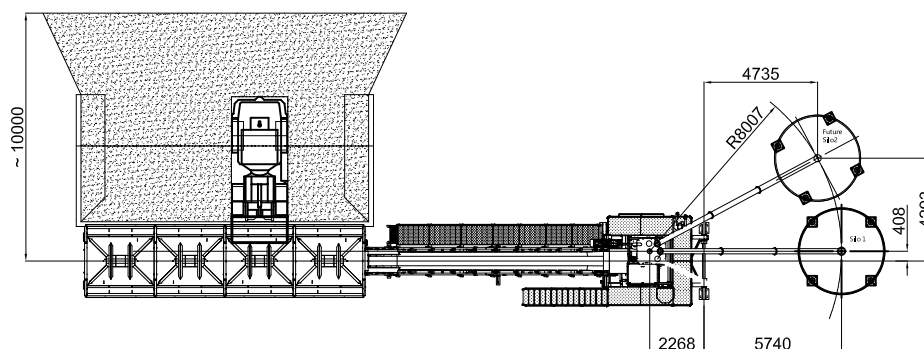
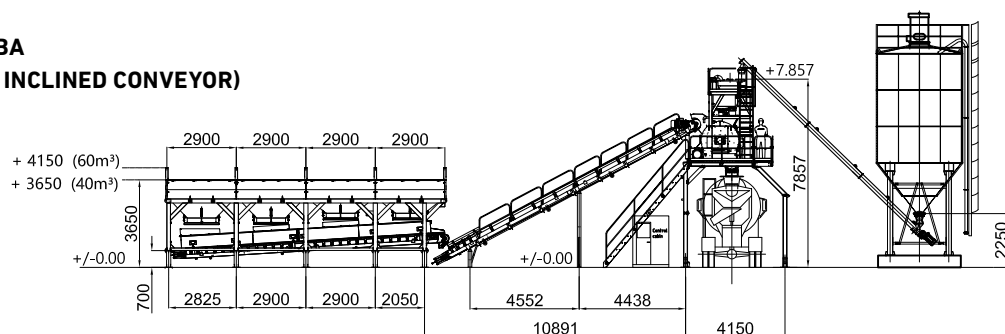
**CC 60 ELBA
(BELT + SKIP VERSION)**



**CC 30-45 ELBA
(BELT VERSION)**



**CC 60-75 ELBA
(INLINE BIN + INCLINED CONVEYOR)**



CC 30 ELBA



CC 60 ELBA



CC 45 ELBA



CC 75 ELBA



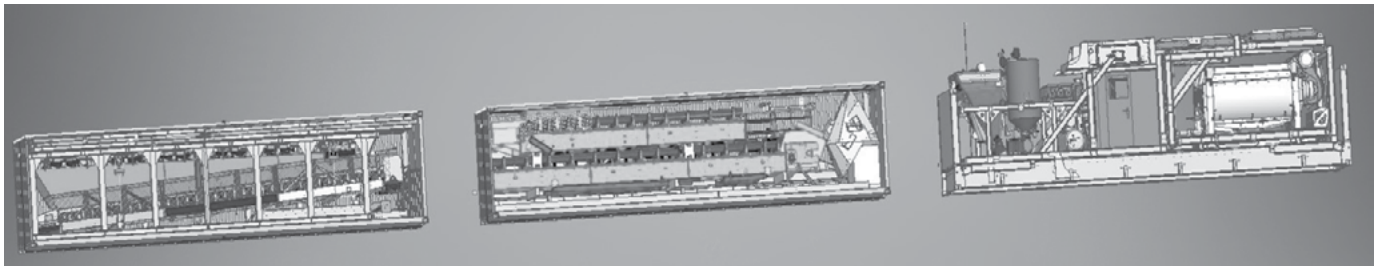
ELBA MOBILE SERIES CONCRETE-BATCHING PLANTS

CC 105 – CC 150 ELBA

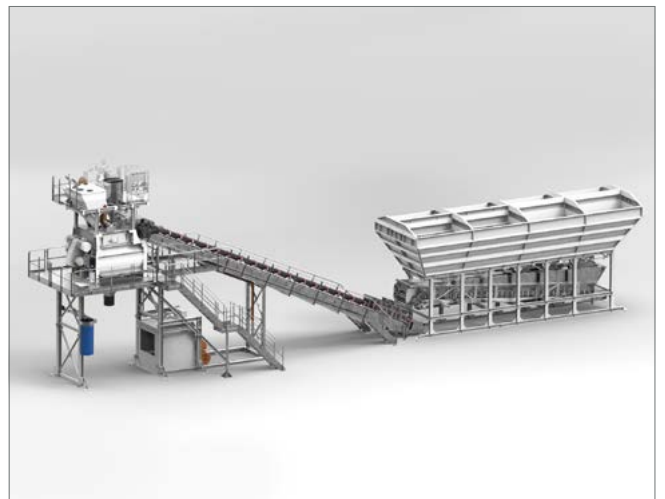
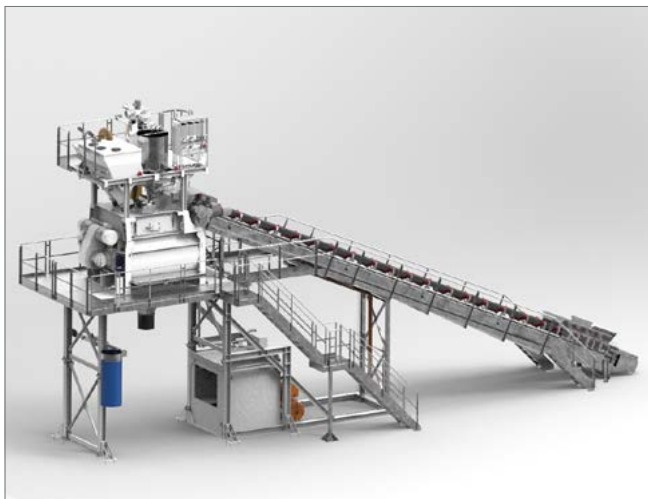


FEATURES

- Twin Shaft Spiral Mixer
- Three dimensional movement of material ensures intensive mixing.
- Short Mixing time & fast homogenisation, Low wear & tear due to gentle rotation.
- Fast & complete discharge
- Large opening for cleaning & maintenance
- New Design of boltless S Style wear plates.
- Option of concrete probe outlet available
- Optional Camera also available



Transport basic unit CC Elba



FAST, LOW-COST INSTALLATION

All installed plant components are connected as much as possible pre-installed both electrically and pneumatically. During assembly, the concrete-mixing plant will be unfolded, erected and the already pre-assembled weighing unit will be mounted on top.

The inclined conveying belt is delivered with an endless vulcanised rubber belt. For transport the belt is divided in 2 pre-mounted sections, lying one above the other. The belt supports are also pre-assembled and locked on the belt frame. For operational readiness, connect the scaffolding, tension the belt and install the walk ways. The supports have predefined fastening points at the plant.

The linear bin is also pre-installed ready for use and placed behind the conveyor belt. Complex connection and installation work is largely eliminated. The aggregate weighing belt and dosing flaps are installed and ready for operation.



Mixer drive with automatic central greasing system.



Twin shaft spiral mixer.

PERFORMANCE

The aggregates were dosed and weighed on the installed weighing belt and then transferred to the inclined conveying belt. The performance of the inclined conveyor belt is designed to reach short cycle times and therefore a high concrete output of the mixing plant can be achieved.

MINIMIZED SITE DEVELOPMENT COSTS

The Ammann CC Elba concrete mixing plant does not require elevated concrete foundation for installation, the flat concrete at ground level is good enough.

PARTS

Original Ammann spare parts are reliable and guarantee a reliable, long-term operation of CC Elba concrete mixing plants.



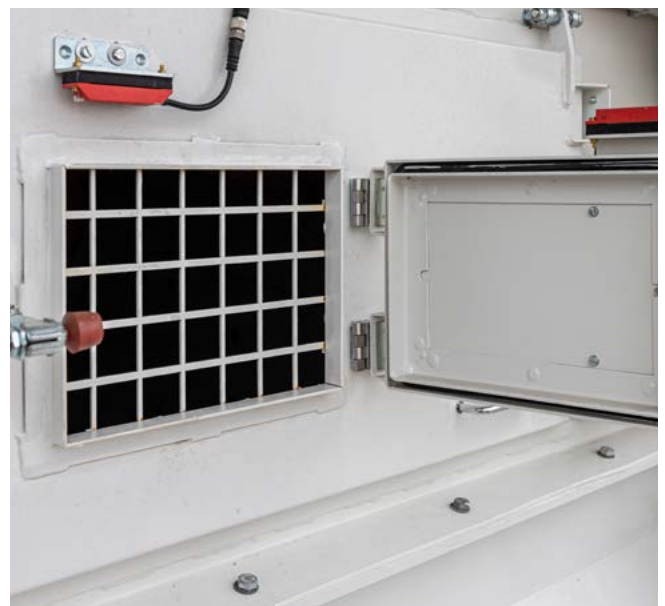
Compact mixing plant: Integrated compressed air system, water connection, pluggable electrical connection points for the linear bin and as option the warm/chilled water connection.



Fast installation through pre-installed electrical installation Plug & Play.



Aggregates transfer into the mixer trough conveyor belt.



Mixer cleaning flap with integrated inspection hatch contact-protected.

CC 130 ELBA



CC 130 ELBA



CC 105 ELBA



CC 130 ELBA



OPTIONS



Concrete Mixer Probe.



Inclined conveyor with one side walkway.



Mixer inlet for cement with the options silica inlet and mixer cleaning system.



Weighing platform with cement weigher and optional silica weigher.

TECHNICAL SPECIFICATION CC 105 – CC 150 ELBA

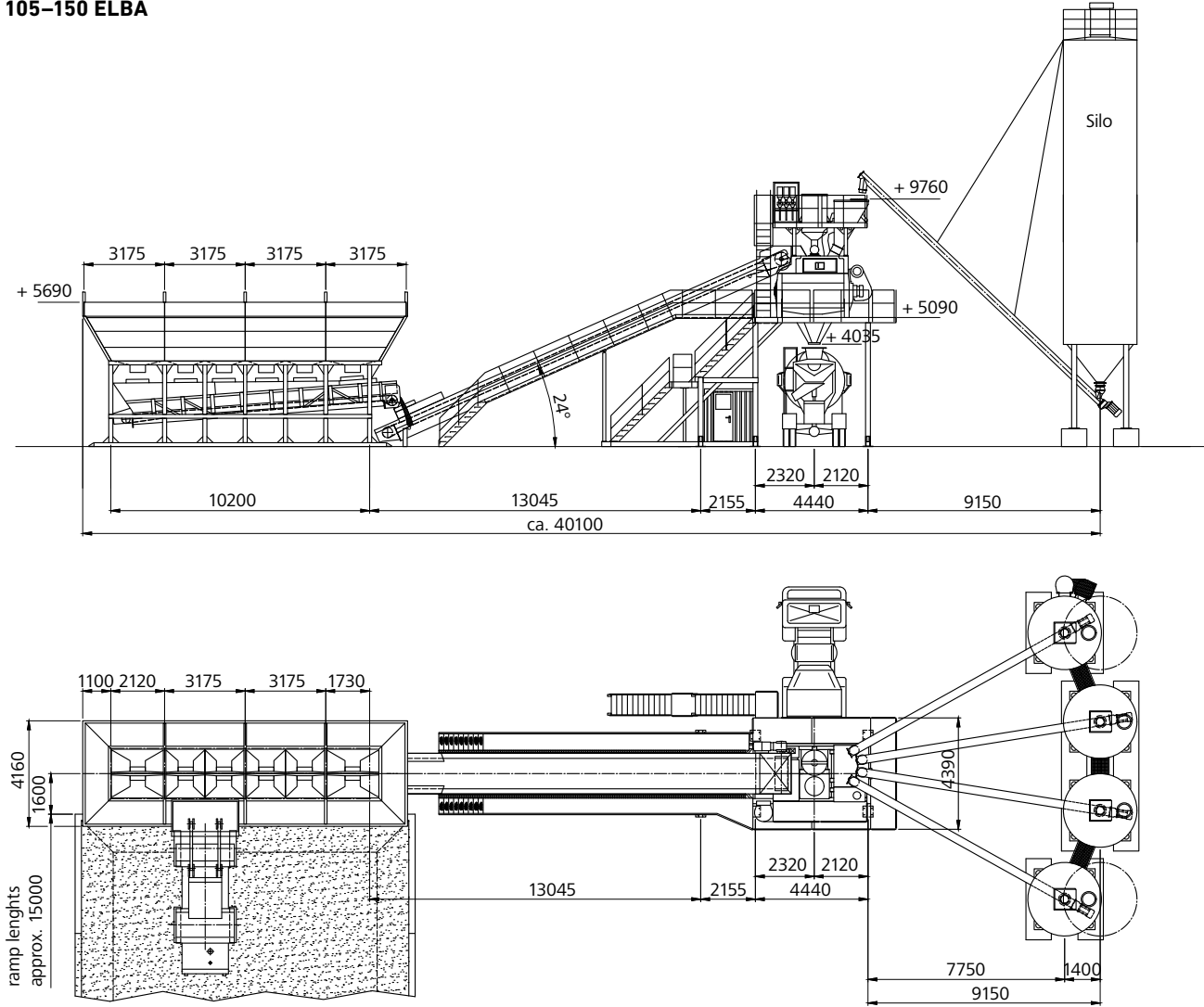
TYPE	CC 105	CC 120	CC 130	CC 150
	Belt + Belt	Belt + Belt	Belt + Belt	Belt + Belt
OUTPUT¹	91 m ³ / h	105 m ³ / h	120 m ³ / h	128 m ³ / h
CONCRETE DISCHARGE HEIGHT	4 m	4 m	4 m	4 m
OPERATING VOLTAGE / FREQUENCY	415 V / 50 Hz	415 V / 50 Hz	415 V / 50 Hz	415 V / 50 Hz
CONTAINERS / TRAILERS	2 x 40' OT HQ containers 1 x 40' flatrack	2 x 40' OT HQ containers 1 x 40' flatrack	2 x 40' OT HQ containers 1 x 40' flatrack	2 x 40' OT HQ containers 1 x 40' flatrack
CONTROL SYSTEM	as1	as1	as1	as1
MIXER	Twin shaft	Twin shaft	Twin shaft	Twin shaft
Mixer model	CEM 2000 T	CEM 2500 T	CEM 3000 T	CEM 3500 T
Compacted fresh concrete	2 m ³	2.5 m ³	3 m ³	3.5 m ³
Dry filling	3 m ³	3.75 m ³	4.5 m ³	5.25 m ³
Mixer driving power	2 x 37 kW	2 x 45 kW	2 x 55 kW	2 x 65 kW
AGGREGATE WEIGHING SYSTEM	Belt	Belt	Belt	Belt
No. of weighing cells	4 pcs	4 pcs	4 pcs	4 pcs
Drive power	15 kW	15 kW	18.5 kW	18.5 kW
AGGREGATE TRANSFER SYSTEM	Belt	Belt	Belt	Belt
Drive power	22 kW	22 kW	37 kW	37 kW
AIR COMPRESSOR	Reciprocating	Reciprocating	Reciprocating	Reciprocating
Max. pressure	10 bar	10 bar	10 bar	10 bar
Volume of pressure vessel	500 l	500 l	500 l	500 l
CEMENT WEIGHING SYSTEM	2100 kg	2100 kg	2100 kg	2100 kg
No. of weighing cells	3 pcs	3 pcs	3 pcs	3 pcs
WATER WEIGHING SYSTEM	1200 kg	1200 kg	1200 kg	1200 kg
No. of weighing cells	3 pcs	3 pcs	3 pcs	3 pcs
AGGREGATE BIN FEEDER³	Inline	Inline	Inline	Inline
Capacity	80 m ³	80 m ³	100 m ³	100 m ³
Number of chambers	4 pcs	4 pcs	4 pcs	4 pcs
Batching gates	8 pcs	8 pcs	8 pcs	8 pcs
Filling height	5.45 m	5.45 m	5.7 m	5.7 m
Filling width per chamber	3.08 m	3.08 m	3.08 m	3.08 m
Connected power with generator set² Simultaneous factor 1	291 KVA	323 KVA	400 KVA	454 KVA
Connected power with main supply² Simultaneous factor 0.8	116 kW	129 kW	160 kW	181 kW

¹ The concrete output depends on several parameters and has to be calculated individually for every case of application. The figures theoretical based on a discharging on dump trucks.

² The exact electrical connection data are to be determined in accordance with the real plant layout including accessories and plant extensions.

³ Combination of different size of 4 bin inline feeder available on demand 40/60/80/100/120/140/208 (up to 6 inline bin also possible)

CC 105-150 ELBA



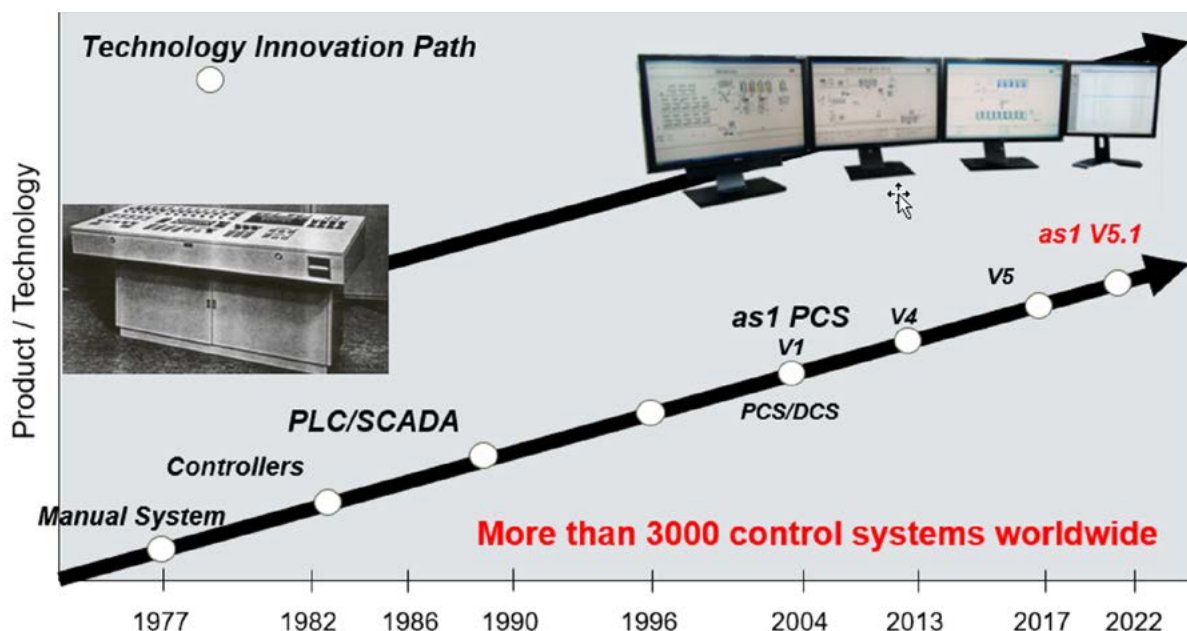
AS1 CONTROL SYSTEM

AS1 PCS INNOVATIVE CONTROL TECHNOLOGY AND END-TO-END DIGITALISATION WITH REAL TIME CONTROLS. >> SCADA SYSTEM



HIGHLIGHTS OF AS1 PCS (PROCESS CONTROL SYSTEMS)

- Clear overview: plant operation is simple and safe
- Precise dosing: dynamic self-learning (Auto-Correction) overrun correction function
- Highly accurate Water/Cement ratio: Automatic consistency control
- Recycled water: Dynamic recycled water addition up to 100 %
- Flexibility of Recipe (Quality Standards): Each recipe can be controlled according to the EN consistency standards or the Ammann consistency standard.



STANDARDS

System is preloaded with EN 206,
DIN 1045 & IS 4926 2003 clause 9.1.3

REAL TIME OPERATING SYSTEM (INTIME RTOS)

Real Time Controllers helps in processing, facilitating Data Exchange & Plant Control without any Time lags, Processing Time and delay due to PLC scan times

CONSISTENTLY HIGH MIX QUALITY

- Ongoing humidity measurement throughout the mixing process
- Automatic overrun correction for dosing processes
- Automatic consistency control with recipe-specific control parameters

ADVANCE REPORTS

- Raw material component statistics
- Batch protocol and batch summary protocol
- Production and component statistics
- Component Consumption Comparison
- Object-Oriented Event counter report of Plant Operation
- Operating unit report for straight forward plant documentation

DIAGNOSTIC TOOLS FOR TROUBLE SHOOTING

- Integrated tools for fieldbus diagnosis
- Recording tool for digital and analogue signals
- Professional hotline support via integrated remote maintenance access

SPARE SYSTEM OPTION FOR ORDER PROCESS

USER FRIENDLY FEATURE FOR OPTIMIZED OPERATIONS

- Calibration assistant for all material weighing units.
- Calibration assistant for various humidity measuring sensors
- Detailed Parameterisation options to optimise the plant

THE DIGITAL FUTURE

- Electronic data exchange with customer 's ERP systems
- Configurable PlantX data interface (REST-based)
- Software service for data exchange with cloud-based

COMPREHENSIVE DATA STORAGE AND MANAGEMENT

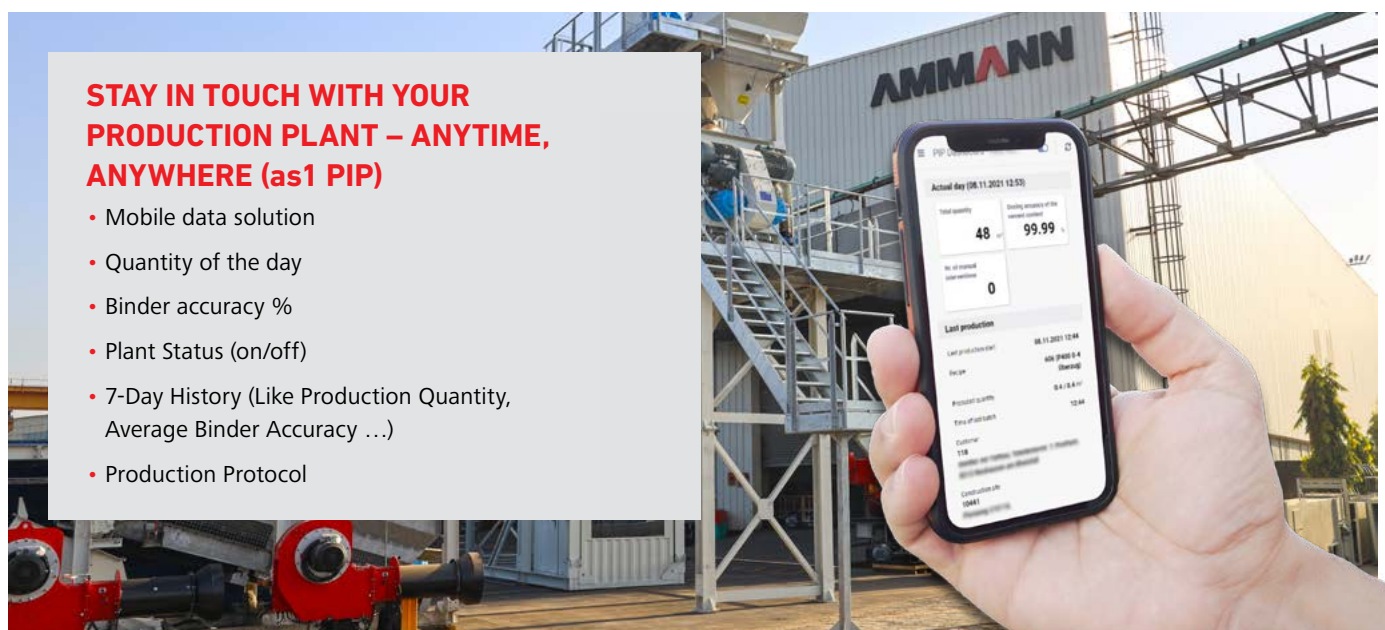
- Detailed logging and a full-scale statistics package
- Integrated material management tool
- Structured browser-based document archive

CUTTING-EDGE TECHNOLOGY

- Microsoft Windows 10 IoT operating system
- Microsoft SQL database
- Real-time subsystem
- Ethernet-based PROFINET fieldbus system

STAY IN TOUCH WITH YOUR PRODUCTION PLANT – ANYTIME, ANYWHERE (as1 PIP)

- Mobile data solution
- Quantity of the day
- Binder accuracy %
- Plant Status (on/off)
- 7-Day History (Like Production Quantity, Average Binder Accuracy ...)
- Production Protocol



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