



# ARCAMIX CONCRETE MIXING PLANT

Different plant options, from small footprint plants to big volume production facilities. Capacity range 100 – 520 yd<sup>3</sup>/h (80 – 400 m<sup>3</sup>/h)

- Relocatable modular plant
- Winterized
- Preassembled and pre-wired
- Drive through operation
- Saves cement up to 10 %
- Reduces CO<sub>2</sub> up to 50 lb/yd<sup>3</sup> (30 kg/m<sup>3</sup>) of concrete
- Partially manufactured in North America







# ARCAMIX CONCRETE PLANT

Arcamix is a modular, containerized, high performance batch plant.

## ARCAMIX PLANT HIGHLIGHTS

- Low cost setup – can be erected on a concrete slab or on our steel skids
- Fast set up time even in winter
- Preassembled - pre-wired and tested at the factory
- Precise concrete temperature - total control in cold and hot weather
- Automatic slump control for wet batch
- Consistent throughput with more repeatable batch quality
- Quick cycle time for high performance concrete



PARTS, SERVICE, PARTIALLY MANUFACTURED IN NORTH AMERICA.

## STANDARD EQUIPMENT

		ARCAMIX 2.5	ARCAMIX 3.0	ARCAMIX 3.33	SUPER ARCAMIX 4.0	SUPER ARCAMIX 4.5	MEGA ARCAMIX 6.0	ARCAMIX DRY BATCH
Max production capacity*	m <sup>3</sup> /h	100	120	130	140	150	200	110
Max production capacity*	yd <sup>3</sup> /h	130	156	170	180	195	260	140
Inline aggregate bins								
Number	pcs	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7
Bin volume with filling ramp	yd <sup>3</sup>	40	40	40	40	40	40	40
	tonnes	45	45	45	45	45	45	45
Bin volume with filling conveyor	yd <sup>3</sup>	80	80	80	80	80	80	80
	tonnes	90	90	90	90	90	90	90
Aggregate weighing system					Flying weighing with belt conveyor			
Cement silos	pcs	1 - 5	1 - 5	1 - 5	1 - 5	1 - 5	1 - 5	1 - 5
Cement scale	lb.	3750	3750	3750	5290	5290	7260	5290
Water scale	lb.	1760	1760	1760	2200	2200	2640	2200
Admixture pumps	pcs	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8
Admixture system		Volumetric or scale	Volumetric or scale	Volumetric or scale	Volumetric or scale	Volumetric or scale	Volumetric or scale	Volumetric or scale
Twin-shaft mixer								
Motor size	hp	2 × 60 or 1 × 100	2 × 75	2 × 88	2 × 88	2 × 100	2 × 145	
Max batch size	yd <sup>3</sup>	3.2	3.9	4.3	5.2	5.9	7,8	6/12
Control system		Tecwill WillControl or provided by Customer						

\* Feature with Tecwill WillControl batch control system

## OPTIONS

### FACTORY ASSEMBLED ENCLOSURE

- Mixing unit insulation
- Aggregate bin insulation
- Aggregate bin lids including hydraulic opening
- UL/CSA pre-wired low-voltage electricity including lights, room heating and maintenance receptacles

### FACTORY ASSEMBLED AGGREGATE AND WATER HEATING SYSTEM

- Non-boiler heating unit, power 1.7 - 6.8 MBTU/h
- Hot water dosing valve
- Heating pipes and heating valves
- Insulated water pipes

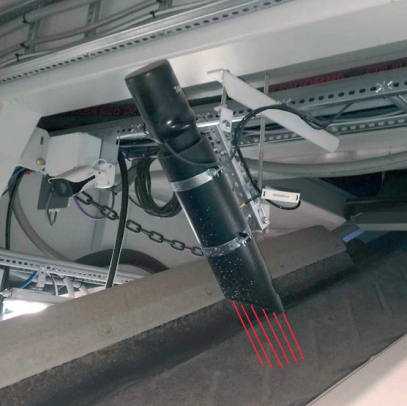
### INSULATED CONTAINERS

- Admixture container with admixture storage tanks and pumps
- Batch office container
- Laboratory container
- Insulated storage container
- Workshop container
- Drivers room container



IF A STANDARD SOLUTION DOES NOT MEET THE CUSTOMER'S REQUIREMENTS, A CUSTOMIZED SOLUTION WILL BE PROVIDED.





### **TECWILL OPTIMOIST - IMPROVED AGGREGATE MOISTURE MEASURING**

One sensor for all aggregate fractions. More accurate and faster measuring. Ski sensor or optical non-contacting sensor.



### **HIGH- PRESSURE MIXER WASHING SYSTEM**

Automatic use from plant control system. Cleans the mixer using rotating washing nozzles. Easier maintenance.



### **FACTORY ASSEMBLED ENCLOSURE**

Heating and lighting. Pre-assembled at the factory, no need for disassembly when moving the plant. Racks, covers and enclosure for aggregate bins.



### **AGGREGATE BIN LOADING SYSTEM**

Receiving hopper, a lifting conveyor and distribution conveyor. Inclined belt conveyor or the Tecwill Vertec vertical conveying system. The Vertec system requires little space and ensures reliable operation in winter.



### **AGGREGATE AND WATER HEATING SYSTEM**

Aggregate and water heating guarantees concrete production in harsh winter conditions. Heats the aggregates in the bins up to the desired temperature. Concrete can be produced to required temperature. Enclosed aggregate bins with racks and lids.



### **SHOTCRETE WITH FIBER DOSING SYSTEM**

Fully automated system for dosing steel and/or synthetic and PP fibers. Pre-mixing of fibers with aggregate avoids fiber clumps. Better shotcrete quality.

**A WIDE RANGE OF  
OPTIONS ARE  
AVAILABLE FOR THE  
ARCAMIX PLANT.  
PLEASE LET US KNOW IF  
YOU NEED AN OPTION  
NOT ON THE LIST.**

#### **TECWILL**

Since starting in 1994, Tecwill has become a world leader in the fabrication of modular concrete batch plants. Headquartered in Joensuu, Finland and operating in Europe, North America, Asia and Africa, we have commissioned over 300 plants within the ready mix, precast, block and paving stone, mining and construction segments.

Tecwill Canada Inc. is based in Toronto, Ontario and coordinates concrete batch plants sales, service support, manufacturing, and spare parts in North America.

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