

# KOMPATTO R16

The Inimitable "All in One" Plant for the Production of LightWeight Concrete

MADE IN ITALY



## WHAT'S IT?

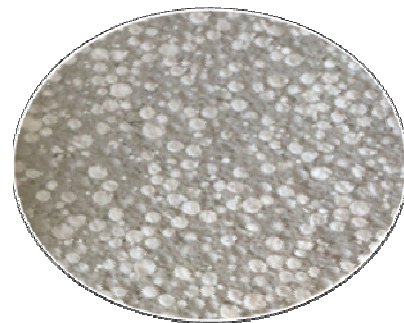
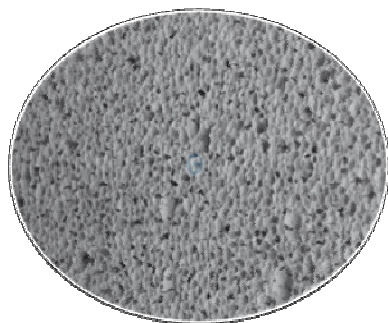
Complete plant for **LIGHTWEIGHT CONCRETE** production, designed with top quality components and based on the needs of construction site. The series is composed by a wide range of versions, each one equipped for specific application.

## WHAT MAKES?

**LIGHTWEIGHT CONCRETE with FOAM (FOAM CONCRETE - CLC) and LIGHTWEIGHT CONCRETE with EPS (POLYTECH – EPS CONCRETE).**

It differentiates from ordinary concrete because the inert, is replaced partially or totally by small air bubbles, that are artificially placed in the mixture or by the EPS beads of max 6 mm.

The amount of these small cells or beads, determines the characteristics of the material obtained, as lightness, insulation, mechanical strength, fire resistance, workability, etc ..



## HOW IT WORKS?

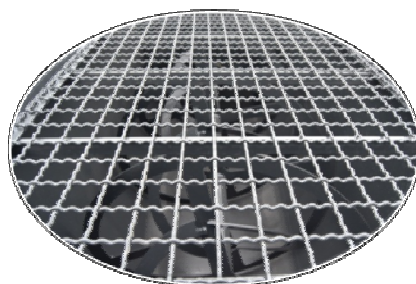
The raw materials water, cement and sand (if needed), are mixed into the mixer and at the end is added the quantity needed of foam or EPS, by the Foam Generator or by the EPS bags.

The ready product is pumped by the Mono-screw system and hoses.

The daily maintenance of the machine after work, is the cleaning with water using the "Cleaning Kit" supplied and the greasing of all the bearings.

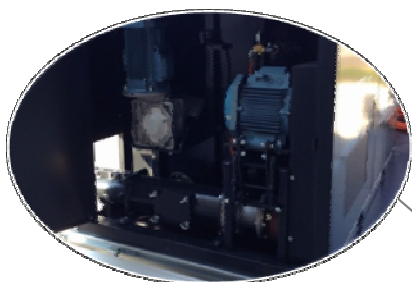
The ordinary maintenance instead is the replacement of the stator of the Mono-screw pump and the "Spare part Kit" of the Foam Generator. The duration of these parts depends on how and how much the machine has been used.

## HOW IS COMPOSED?



### MIXER

- 1.000 lt of capacity
- Automatic Water Pump
- Double mixing direction
- Splash covers



### PUMPING SYSTEM

- Mono-screw System
- Clutch System for starting
  - Rotor / Stator
- Fast connection for replacement.
- Pump inversion button



### HOSES CONNECTION & FOAM SETTINGS



### ELECTRICAL PANEL

- Phase Inverter
- Contactors and Motors protections
- Timer for water



### FOAM GENERATOR

- Air compressor with tank
- Foam Pump
- Flow meter for Foam density control
- Pressure regulator
- Nozzle



# KOMPATTO R16

The Inimitable "All in One" Plant for the Production of LightWeight Concrete

MADE IN ITALY

## USED FOR?

Screeds, Roofs & Void Fillings, Road Sub-Bases, Bridge Abutments, Ground Stabilization, Walls cast on site, Precast Panels, Light Blocks, Slope Roofs.



Road Sub-Bases



Roofs & Void Fillings



Ground Stabilization



Walls cast on site



Precast Panels



Bridge Abutments



Slope Roofs



Light Blocks



**coisoimper.com**  
AVANTGARDE LIGHTWEIGHT CONCRETE

## OPTIONAL FITTINGS

- **EWS:** Electronic Weighing System for an automatic and accurate production.  
EWS controls the automatic loading of the raw materials from the screw conveyor and the water pump, increasing the production capacity until the 25%.  
It is composed by: Load cells, display for setting formulas, structure in steel.
- **DOSING PUMP:** for the automatic dosage of the Foaming Agent.
- **DIGITAL TIMER:** for the automatic loading of foam.
- **FLOW CONTROL:** to change the flow rate of the material pump (Reduce the flow up the 50%).  
Very useful when pumping in tight spaces, as walls with small thickness or for pumping in vertical increasing the distances. **With FLOW CONTROL is also possible pump SELF-LEVELING**
- **FOAM GENERATOR 500 lt/min (+ production capacity):** The Foam Generator is composed by a bigger Air Compressor and a Foam Pump with high pressure, to increase the foam capacity up to 500 lt/min. Increasing the total production capacity from 2 to 5 m<sup>3</sup>/hr. (Depends on the version).
- **KIT FOR LONG DISTANCES:** Kit for pumping 80 mt in vertical / +100 horizontal.
- **TSR:** System to be applied in the mono-screw pump reducer, to prevent the entry of concrete into the gears, due to the back pressure of the material during vertical pumping.
- **MiV System:** to increase the production of 40 – 50 %. (Only Foam Concrete 400 kg/m<sup>3</sup>).

## OPTIONAL ACCESSORIES

- **RUBBER HOSE Ø50 - mt 10/pcs.** Hoses (40 Bar) used for pumping **density higher than 600 kg/m<sup>3</sup>**.
- **RUBBER HOSE Ø60 - mt 10.** Initial hose used for pumping **max density 600 kg/m<sup>3</sup>**. (Needed 1 piece)
- **PVC HOSE Ø60 - mt 15/pcs.** Intermediate hose extension, for pumping **max density 600 kg/m<sup>3</sup>**.
- **PVC HOSE Ø60 - mt 20.** Final Hose with 1 fitting for pumping **max density 600 kg/m<sup>3</sup>**. (Needed 1 piece)
- **WIRED REMOTE CONTROL - 50 mt.** For starting and stopping the mono-screw pump at a distance.
- **ELECTRIC CABLE - mt 25.** To connect the machine to the main power of the Building Site.
- **TOOLS** for maintenance (tool box, spanners, screw drivers....).
- **KIT FOR CLEANING** hoses and the machine.
- **WATER TANK – 1.000 lt.** For water storage.
- **GREASE GUN** for the Anti-drip seals of mixer and pump.

Hoses, Cable,  
Remote Control, Tools..



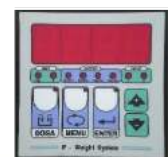
Dosing Pump



"Cleaning Kit"



EWS display



## OPTIONAL EQUIPMENT

### ➤ CTC

Screw conveyor designed to reduce dust and loading times of the cement bags into the mixer.

**CTC** is supplied in 2 versions:

- **CTC v1** with length of 2,5 mt (used with machine placed on the ground).
- **CTC v2** with length from 2,6 to 3,5 mt (used with machine placed on a trailer or truck).

**Removable in two pieces for an easy transport.**

#### Technical details:

Power: Kw 1,5 for CTC v1 – 2,2 Kw for CTC v2

Length: **CTC v1** = 2,5 mt – **CTC v2** from 2,6 mt to 3,5 mt.

Hopper capacity: 150 Kg

Weight: from 150 to 200 Kg



### ➤ CBS

Conveyor belt designed for loading sand into the mixer, to facilitate and reduce the loading times.

**CBS** is supplied in 2 versions:

- **CBS3** with length of 3 mt (used with KOMPATTO placed on the ground).
- **CBS4** with length of 4mt (used with KOMPATTO placed on a trailer or truck).

**Foldable in two pieces for an easy transport.**

#### Technical details:

Length: mt 3 or 4 (Foldable in 2 pieces).

Hopper capacity: kg 125

Power: Kw 1,5



### ➤ TRAILER

For the transport of KOMPATTO R16 and all the accessories.



# KOMPATTO R16

The Inimitable "All in One" Plant for the Production of LightWeight Concrete

MADE IN ITALY

Versions		R16 Basic Version without "anti dust doors"	R16s	R16x	R16xp	R16xl
Max production capacity		10 m <sup>3</sup> /hr	10 m <sup>3</sup> /hr	12 m <sup>3</sup> /hr	6 m <sup>3</sup> /hr	11 m <sup>3</sup> /hr
Designed for		Pumping medium-low distances. Screeds/ roofs Walls Blocks	Pumping medium-low distances. Screeds/ roofs Walls Blocks	Pumping medium-low distances. Screeds/ roofs Walls Blocks	Pumping over long distances. Screeds/ roofs	Pumping over long distances. Screeds/ roofs
Other applications		Panels Geotechnical	Panels Geotechnical	Panels Geotechnical	-	-
Dimensions		220x135x108 cm				
Weight		900 kg	950 kg	980 kg	1.000 kg	1.100 kg
Power		13 Kw	13 Kw	15 Kw	17 Kw	15 Kw
Foam production capacity		250 lt/min				
Max pumping capacity		300 lt/min	300 lt/min	500 lt/min	150 lt/min	320 lt/min
Maximum Dry Density		1600 kg/m <sup>3</sup>				
Max pumping distance	Low density 400 kg/m <sup>3</sup>	Vertical 50 mt Horizontal 100 mt	Vertical 50 mt Horizontal 100 mt	Vertical 40 mt Horizontal 80 mt	Vertical 80 mt Horizontal 100 mt	Vertical 80 mt Horizontal 100 mt
	High density 1600 kg/m <sup>3</sup>	Vertical 30 mt Horizontal 60 mt	Vertical 30 mt Horizontal 60 mt	Vertical 25 mt Horizontal 55 mt	Vertical 50 mt Horizontal 80 mt	Vertical 45 mt Horizontal 75 mt
Optional fittings	Ews	Applicable				
	Dosing Pump	Applicable				
	Digital Timer	Applicable				
	Flow Control	Applicable				
	Foam generator 500 lt/min	Applicable (+ 3 m <sup>3</sup> /hr) Total: 13 m <sup>3</sup> /hr	Applicable (+ 3 m <sup>3</sup> /hr) Total: 13 m <sup>3</sup> /hr	Applicable (+ 5 m <sup>3</sup> /hr) Total: 17 m <sup>3</sup> /hr	Applicable (+ 2 m <sup>3</sup> /hr) Total: 8 m <sup>3</sup> /hr	Applicable (+ 5 m <sup>3</sup> /hr) Total: 16 m <sup>3</sup> /hr
	Kit for long distances	Applicable			Included	Included
	Tsr	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	MiV	Applicable		Not Applicable	Applicable	Not Applicable
Optional Accessories		Applicable				
Optional Equipment		Applicable				

