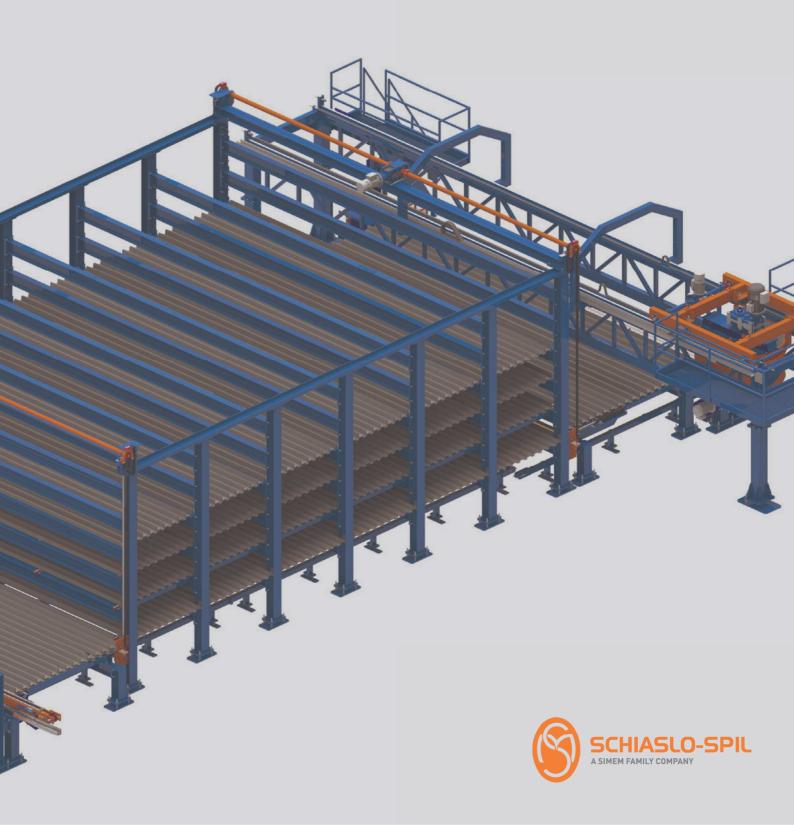
# **CRETEBEAM**



C.G.S. 105/400

Casting machine for concrete beams.

Compact machinery to produce concrete lattice girder beams and concrete lintels.



The machinery is designed to produce all-concrete items, specifically lintels and lattice girder beams. Special "U" section metal formwork is used, to contain and mould the concrete until its hardening.

# **Machinery composition**

The machinery consists of a set of modular moulds, i.e. the metal formwork, moved sequentially between the operative stations. This movement is represented as a closed loop assembly line. The curing magazine is built into the machinery and appears like a 7-level Tower.

The operative stations are in a fixed cosition, a specific production stage is carried out at each operative station.

# The five main operative stations

- · framework station, requires operator
- · casting and vibrofinishing station, automatic
- · curing station, automatic
- · demoulcing station, automatic
- · stacking station, requires operator.

All formwork movements are carried out automatically. within the machinery, according to a pre-set sequence, in a simple and fast manner:

- from the initial packaging stages
- · to the final stage of cleaning and recovering the empty formwork.

### Special features

## Standard EN 15037

The use of metal framework together with the suitable spacers to support the reinforcement bars assures the required enveloping of the metal reinforcement, in full compliance with european standards on reinforced concrete items, with regard to protecting reinforcement from oxidation.

# Tower magazine for curing

The machinery includes a suitable tower curing magazine. consisting of 7 superposed levels

## In this way:

- · the metal formwork always remains housed on the machinery, removing the need for external handling, typically slow and manual
- · the machinery's overall dimensions is minimum, much less than the overall dimensions of machinery with equivalent performance
- · the machinery's overall dimensions are very compact.

## Typical size of the items

10 m at the most, which corresponds to the useful length of the metal formwork, considering that nothing can protrude from their heads. One or two aligned items may be produced on the same formwork in single file.

12 cm nominal, which corresponds to the nominal width of the formwork.

## Height of the items

20 cm at most, which corresponds to the free height between the 7 levels of the tower magazine.

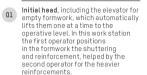
# Thickness of the all-concrete

50 mm at most, which corresponds to the internal height of the two sides of the metal formwork.



CRETEBEAM C.G.S. 105/400 Compact machinery to produce concrete lattice girder beams

and concrete lintels

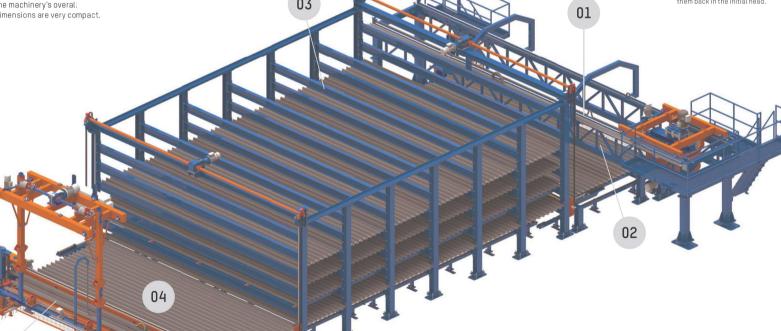








The Clamps are operated by the third operator Cleaning station of empty formwork, includes the lowerator for empty formwork, which automatically lowers one formwork at a time to the lower level, where they are loaded onto a suitable conveyor belt that takes them back in the initial head.

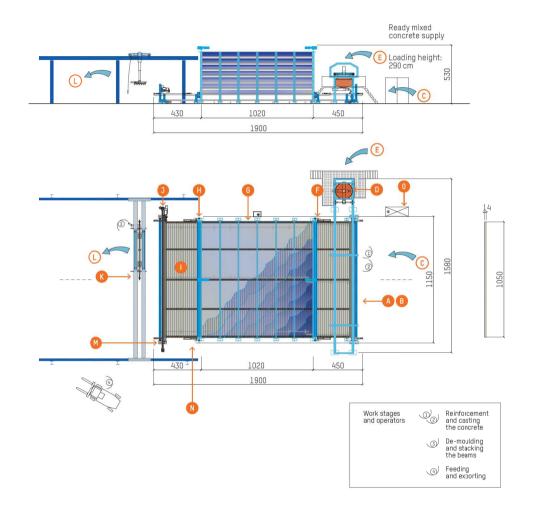


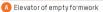


# **CRETEBEAM**

C.G.S. 105/400

All dimensions are in certimetres.





B Manual reinforcement station

C Reinforcement supply

Self-propelled Batching Carriage, mobile on gantry tracks

E Concrete supply

- Flevator to load the curing magazine
- 6 Tower curing magazine with 7 levels
- Lowerator to unload the curing Magazine
- Demoulding station
- Brushing and Oiling Carriage, self-propelled

N Conveyor belt of empty formwork

Main electric panel

- Stacking Clamps, mobile on bridge crane
- (L) Stacking Stations
- Lowerator of empty formwork

Minimum length 1.8m in conformity with the Stacking Clamps Maximum length 10 m\*\*

Width

12 cm nominal\*\*

Width of the concrete base 4 cm nominal, 5 cm max\*\*

Height of the lattice 18 cm max Height of the beam 20 cm max

\*\* In conformity with the real formwork dimension



Length 19 m Width 16 m Height 5,5 m



Metal formwork

N.400 formworks with "U" section

10,5 m Width 14 cm Height 5 cm Thickness 5 mm

Length



Cycle time

on average 90 seconds/formwork Hourly productive capacity 300 m/hour, equal to 40 formwork/hour

Daily productive capacity

3000 m/day in 10 hours of work equal to 400 75% filled formwork

on average



Manpower

1 or 2 teams consisting of 4 workers of whom: 3 workers on the machinery 1 worker with forklift truck



Raw material used to

Concrete 1600 litres/hour, divided into n.4 400 litre refills

Lattice 300 m/hour, already cut to measure Reinforcement bars

approx. 500 m/hour, already cut

to measure in various diameters

Installed power 55 kwh Average hourly consumption

20 kwh/hr Daily consumption (10 hours):

135 kwh/day



End of day washing

7 bar compressed air approx. 300 L/day

Water

approx. 200 L/day



Capacity 800 L (1000 litres flush) Loading height 290 cm





↑ Stacking clamps in the picking stage.



- ← Beams in two side-by-side rows, to form a double-width stack.
- ↑ Loading the concrete in the batcher's hopper.



 Automatic stage of the concrete casting. → The self-propelled batching carriage, on its own overhead track.



◆ Stacking clamps in the clamping stage for picking.







# Operating headquarters Schiaslo-Spil s.r.l. via Milano, 2 - I 31048

via Milano, 2 - I 31048 Olmi di San Biagio Treviso - Italy p. +39 0422 899129 f. +39 0422 899682 info@schiaslo-spil.com www.schiaslo-spil.com

