



*Concrete technology  
for a **CONCRETE** future*

***NEW WiTech EXTRUDER***

# NEW WiTech EXTRUDER casting machine

WiTech by Weiler Italia has been operating since 1970 in the field of concrete industry in Italy and foreign countries, at the service of companies dealing with pre-cast and industrial constructions.

WiTech Extruder is the result of studies and accurate design made by our technicians and, thanks to the high quality of the used materials for wearing parts, the new machine is more long-lasting, and the expenses for spare parts replacement are reduced.

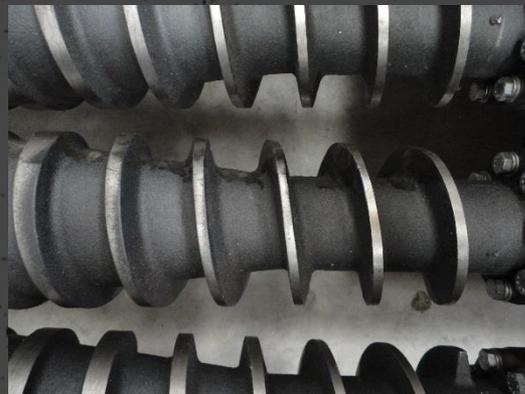


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The Witech Extruder is made with a new technology, the machine doesn't use any internal vibrators for concrete compaction,

WiTech Extruder uses the innovative system of “Share compaction” that provides a better compaction and minimizes the level of noise of the machine.



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Witech has introduced new solutions for improving the Extruder machine for hollow-core slabs production:

- Reduced maintenance interventions;
- Higher quality of the hollow-core slabs;
- Completely electronic machine;
- Easy regulations and fast maintenance;
- Low noise level during work;
- Different types of hollow core cross sections from H=200mm to H=400mm;
- Two different types of hollow core slab width 1200mm and 1500mm.



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The machine is composed of two groups, a control and concrete feeding unit, called Silo, and a mechanical part dedicated to the proper hollow-core slab production, called Assembly.

The Silo is the upper part of the machine, containing the concrete that the Extruder will use for producing the hollow-core slab.

The Silo of the extruding casting machine, consists of a concrete hopper with capacity of 2500 l, controls, electrical and electronic automation devices.



The Silo is equipped with a control board that, through the use of a simplified user's interface with a touch-screen panel, allows to control the production process in all its forms and provide all necessary regulations to obtain a high quality product.



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The assembly is the part of the machine dedicated to the proper hollow-core slab production. Each assembly is designed for a different height of the element and it is composed of four groups of equal importance:

## 1 – Motorized Frame

The motorized frame is used to contain the moulding groups for the slab production.

## 2 – Side Plates

The electromechanically operated side plates are installed on the motorized frame.

## 3 – Moulding Group

Each height and width of the slab require a different moulding group, because the section of the hollows is different. The moulding group contains all the motors necessary for the extrusion, and all the functional mechanical parts related to the extrusion process.

## 4 – Smoothing Plate

Like the side plates, the smoothing plate is bound to the motorized frame. This device is used to smooth the upper surface of the slab.



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## Very High quality of hollow core slab



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# Witech Extruder vs Slipformer

Consumption of concrete for the production of 135.000m<sup>2</sup> / year of Hollow core slabs

		EXTRUDER	SLIPFORMER	Difference
HOLLOW CORE H=220 W=1500mm kg/m <sup>2</sup>	kg/m <sup>2</sup>	250	283	33
PRODUCTION OF HOLLOW CORE SLAB /YEAR m <sup>2</sup>	m <sup>2</sup>	135.000	135.000	
COST OF 1m <sup>3</sup> OF CONCRETE	€	80	80	
CONSUMPTION OF CONCRETE m <sup>3</sup>	m <sup>3</sup>	14.063	15.919	1.856
COST OF CONCRETE / YERA WITH PRODUCTION OF 135,000 m <sup>2</sup> (250 WORKING DAYS)	€	1.125.000	1.273.500	148.500
<b>CONCRETE SAVING IN 1 YEAR</b>	<b>m<sup>3</sup></b>			<b>1.856</b>
<b>MONEY SAVING IN 1 YEAR</b>	<b>€</b>			<b>€ 148.500</b>

In this table, a comparison between Extruder and Slipformer with an example of production of about 135.000m<sup>2</sup>/year of hollow core slab.

# *Concrete Technology for a CONCRETE Future*

Our company is sure that it is really possible to meet any requirement; for this reason our staff is always seeking for some new valid solutions, in order to favor its research for a better productivity.



*Thank You for Your attention*

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