

SUPPORTING EQUIPMENT

PLOTTER EL480



Key words: Hollow-core slab, Casting bed, Extruder process, Slipformer process, Plotter



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1. Introduction

A plotter is a machine for printing marks on a slab or bed surface. The marks can be lines, rectangles, circles or text. A plotter is an automatic printer which reads the plotting details from production planning system in a specific ASCII-format. The plotting details data is transferred wireless in a local area network.

1.1. Advantages

Minimizes human errors

The plotter reads the piece details directly from the production planning system and draws them on the piece surface, thus eliminating human errors in measurements and lapses of memory.

High accuracy

Slab/piece positioning along the casting bed by laser-positioning ensures a high accuracy level – the same as with all laser-positioned Elematic machines.

Independent operation

The plotter is battery-operated machine with wireless data transfer capability (max. 200 m) which makes it independent in operation.

Compatible with several slab thicknesses

The height from the bed surface comes up to 655 mm which makes the plotting possible even for 500-mm-high slabs.

Compatible with Elematic total automation system

The data transfer system ELiPOS makes the plotter compatible with all Elematic automatic machines and ELiPLAN database in the same local area network which minimizes the unnecessary data transfer in the production process.

Easy operation

The machine user interface is similarly designed as other Elematic touch-screen operated machines. The display language can be chosen by the operator.

1.2. General data

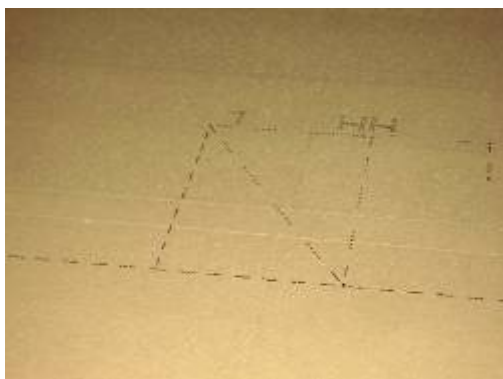
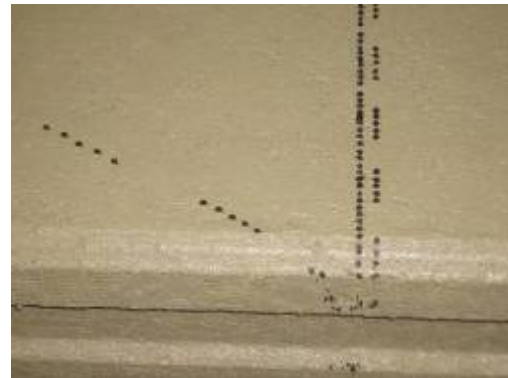
The Elematic Plotter EL 480 marks slab cutting lines, rectangles and circles for openings and recesses, texts for identification on slab surfaces or places for dividers and fittings on empty bed surfaces automatically from a plotting file. Manual operation and editing the plotting file is also possible.

Slab width 1.2 m or 2.4 m.

Slab thickness from 120 mm up to 500 mm.

Inkjet control system with one ink head on top of a slab. Text height can maximally be 50 mm, rectangles, squares, lines, dots etc. can be of any size needed.

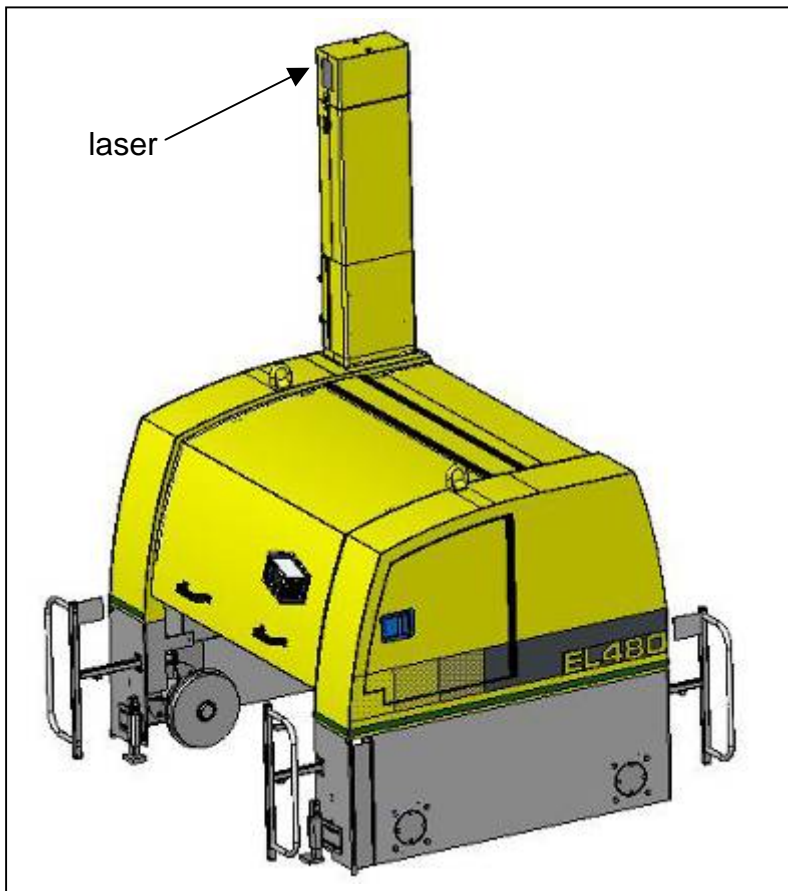
1.3. Detailed data



2. Key features

The plotting details are transferred from the production planning database in an ASCII format into plotter operation logic. The markings are plotted with ink jet printer on the top of the slab or empty bed surface. Printing text onto the slab side or both slab sides is possible with optional equipment.

2.1. Basic construction



3. Product components

The plotter EL 480 includes all the parts necessary for printing marks and moving independently on the same rails as the casting machine.

3.1. Laser

Slab/piece positioning along the casting bed is done by a laser beam. The reflector mirror for the laser needs to be installed in the bed end.

3.2. Battery

The plotter includes a battery and a charging device 120-230 VAC / 50/60 Hz with a plug connection and the possibility for an extra battery set.

3.3. Additional required components

- PC and local area network for data transfer are needed
- ELiPLAN software or other ASCII format data files producing production planning software is needed for making the plotting details.

4. Technical data

		for 1.2-m bed		for 2.4 m bed	
Length		1910	mm	1910	mm
Width		1750	mm	2950	mm
Height					
with laser		2520	mm	2520	mm
Rail gauge		1260 - 1450	mm	2460 - 2650 (standard Elematic bed 1292 mm, 2492 mm)	mm
Weight					
total (with battery)		800	kg	1050	kg
Connection power, charging unit		120 - 230 50/60	VAC Hz	120 - 230 50/60	VAC Hz
Battery		4 x 100	Ah	4 x 100	Ah

Plotter EL 480 .

5. Additional information

Elematic EL480 plotters have been successfully delivered to several countries around the world, including the U.S.A., Japan, Denmark and Austria.



1.2-m-wide plotter



Special edition, Japan



2.4-m-wide plotter, Denmark

Elematic is a leading supplier of precast concrete machinery and equipment as well as the only supplier capable of delivering complete production plants anywhere in the world. Elematic's superior technology and industry expertise is currently in use in more than 100 countries across five continents. Elematic is headquartered in Toijala, Finland.

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