

## Epoca 7 pro F

### Technical data

#### Machine types

<b>Foundation (F)</b>	Foundation version
<b>Standard (ST)</b>	Without embroidering position selector
<b>Man. Pentamat (MPE)</b>	Manual embroidering position selector with standard thread delivery roller
<b>Pentamat (PE)</b>	Automatic embroidering position selector
<b>PentaCut (PEC)</b>	Automatic embroidering position selector with thread cutting device

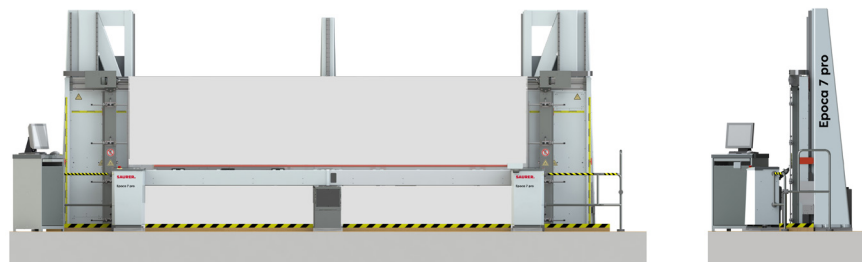
#### Functions:

- Unique electronically adjustable thread guide
- Unique electronically adjustable fabric presser
- Automatic rear carriage adjustment

#### Options:

- Several roller cloth systems:
  - With velcro strip (to sew on or with longitudinal tension rod)
  - With cord or fish bone (to sew on)
- Devices for fabric pull-through
- PentaGuide: Individual, automatic thread guide control (PE & PEC)
- PentaFeed: Single thread delivery with manual switching (ST & MPE)
- Cone carriers: 4/4, 8/4
- Winding sensor
- Other embroidery lengths on request

#### Illustration



#### Specifications

		[yard]	4.9	10.6	16.3	22.0	27.7	33.4
<b>Embroidery length</b>		[m]	4.5	9.7	14.9	20.1	25.3	30.5
<b>No. of embroidering positions</b>			168	360	552	744	936	1128
<b>Machine length</b>		[m]	7.7	12.9	18.1	23.3	28.5	33.7
<b>Fabric roller length</b>		[m]	5.2	10.4	15.6	20.8	26.0	31.2
<b>Net weight (approx.)</b>		[t]	5.6	9.2	12.0	14.5	17.4	20.0
<b>Maximum speed <sup>1)</sup></b>	nominal	[1/min]	-	630	630	600	520	
	fast	[1/min]	700	700	700	650	600	
	fast strong	[1/min]	-	-	-	650	-	-

1) The speed depends on the article to be manufactured, the yarns used and the operating conditions.

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**Specifications**

Embroidery height <sup>2)</sup>		[mm]	1650
<b>Machine height</b>	from floor	[m]	3.0
	operating height	[m]	0.95
<b>Room height</b>	minimum	[m]	3.5
	recommended	[m]	3.8
<b>Machine width</b>	net	[m]	1.55

2) Restriction for machines with thread cut and roller cloths with longitudinal tension rods: The thread cut can only be used 1 cm below the upper longitudinal tension rod and 10 cm above the lower longitudinal tension rod.

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**General technical data**
**Smallest needle repeat:**

4/4 French inch = 27.07 mm

**Lateral movement:**

Max. 116/4 repeat = 785 mm

**Smallest stitch unit:**

0.1 mm horizontally and vertically

**Boring depth:**

0 to 20 mm stepless

(= max. Ø 4.2 mm with borer 12%)

**Fabric roller Ø:**

Without fabric: 120 mm

With fabric: max. 134 mm

**Spool sizes:**

Normal: Ø 50 × 85 mm

Cones: Ø 125 × 230 mm (4/4, with 6 rows)

Ø 125 × 230 mm (8/4, with 3 rows)

**Shuttles:**

Only Saurer "Silenzio"

**Bobbin size:**

43<sup>0/-0.2</sup> × 14.7<sup>0/-0.2</sup> mm

**Max. acoustic pressure:**

$L_{eq} = 84.2$  dB (A)

Measuring distance: Distance to machine 1 m,  
1.6 m above ground

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**Control system**
**Operation:**

Colour monitor with multi touch screen, manual control unit, keyboard for wind-up, foot switch

**Thread monitor:**

Standard/Man.Pentamat: Segmental monitoring  
Pentamat/PentaCut: SmartMon (electronic thread monitor to monitor single embroidering position)

**Data format:**

Standard Highlevel Code (SHC)

**Data interface:**

LAN; USB

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**Connection requirements**
**Electrical supply:**

3 × 400 VAC +/- 10% + PE

50/60 Hz +/- 2%

A transformer (option) is necessary if the voltages deviate from the above! We recommend using an UPS for the entire company.

Overvoltage protection in accordance with our specifications is a prerequisite.

**Back-up fuses:**

32 A delayed action, 3-pin

(Cable cross-section min. 4 × 16 mm<sup>2</sup>)

If local regulations require the installation of RCDs (e.g. not necessary in Switzerland with direct connection), use a selective circuit breaker with a sensitivity of min. 600 mA that is pulse-power stable and inverter proof.

**Compressed air (customer):**

Compressed air supply 7 to 10 bar

For further specifications refer to document:  
DS0.0169.E50