

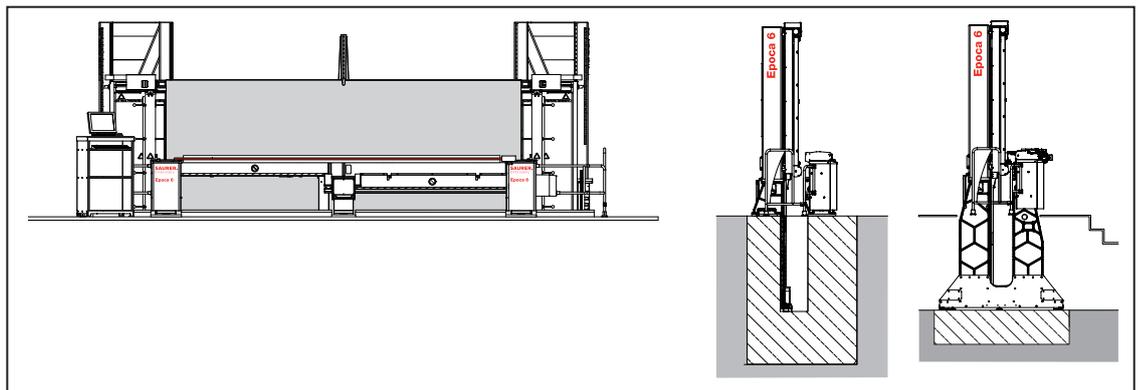
# EPOCA 6.

## STEEL FRAME/FOUNDATION 1-1.

### TECHNICAL DATA.

<b>Machine types</b>	<b>Standard</b>	without embroidering position selector
	<b>Man. Pentamat</b>	manual embroidering position selector with standard thread delivery roller
	<b>Pentamat</b>	automatic embroidering position selector
	<b>Pentacut</b>	automatic embroidering position selector with thread cutting device
	<b>Steel frame</b>	steel frame version
	<b>Foundation</b>	foundation version
	<b>Options:</b>	<ul style="list-style-type: none"> <li>- Several roller cloth systems:               <ul style="list-style-type: none"> <li>- with velcro strip (to sew on or with longitudinal tension rod);</li> <li>- with cord or fish bone (to sew on)</li> </ul> </li> <li>- Devices for fabric pull-through</li> <li>- Pentafeed: single thread delivery with manual switching</li> <li>- Cone carriers: 4/4, 8/4</li> <li>- Winding sensor</li> <li>- User-optimised carriage width adjustment</li> <li>- other embroidery lengths on request</li> </ul>

### Illustration



Specifications	Embroidery length	[yard]	4.9	10.6	16.3	22.0	27.7	33.4	
			[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>	steel frame version	[t]	9.7	14.4	19.4	24.2	29.2	34.0
		foundation version	[t]	4.7	7.2	9.8	12.3	15.1	17.5
	<b>Maximum speed <sup>1)</sup></b>	nominal	[1/min]	-	500	500	470 <sup>2)</sup>	450	450
							450		
		fast	[1/min]	600	600	600	570 <sup>2)</sup>	550	520
	race	[1/min]				600			

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

2) Higher number of revolutions only on Pentamat machines with a rapport of  $\geq 8/4$ .

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## Specifications

Embroidery height <sup>3)</sup>		[mm]	1650 Steel frame	1650 Foundation
<b>Machine height</b>	from floor	[m]	4.4	3.0
	platform height	[m]	1.43 - 1.33	-
	operating height (depending on platform height)	[m]	0.95 - 1.05	0.95
<b>Room height</b>	minimum	[m]	4.9	3.5
	recommended	[m]	5.2	3.8
<b>Machine width</b>	net	[m]	1.4	1.4
	with platform	[m]	~2.5	-

3) Restriction for machines with thread cutting and roller cloths with longitudinal tension rods: The thread cutting device can be used 10 cm above the lower longitudinal tension rod and higher.

## 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 cloth: 120 mm  
wound with fabric: max. 134 mm

### Spool sizes:

normal: Ø 50 x 85 mm  
Cones: Ø 125 x 230 mm (4/4, with 6 rows)  
Ø 125 x 230 mm (8/4, with 3 rows)

### Shuttles:

Only Saurer "Silenzio"

### Bobbin size:

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

### Max. acoustic pressure:

$L_{eq} = 80$  dB (A)  
Measuring distance: distance to machine 1 m,  
1.6 m above ground; middle of needle side

## Control system

### Operation:

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

### Thread monitor:

Standard/Man.Pentamat: segmental monitoring  
Pentamat/Pentacut: OptiPoint (single embroidering position monitoring)

### Data format:

Standard Highlevel Code (SHC)

### Data interface:

LAN; USB

## Connections

### Electrical supply:

3 x 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 x 16 mm<sup>2</sup>)  
If local regulations require the installation of RCCBs, selective, pulse-power stable and inverter proof breakers with a breaking current of 300 mA must be used.

### Compressed air (customer):

Compressed air supply 7 to 10 bar

For further specifications refer to document:  
DS0.0168.E40 steel frame; DS0.0169.E40 foundation