DC88X
DOUBLE CYLINDER
E1320X - E1420X - E1520X
DOUBLE CYLINDER
E1320X - E1420X - E1520X

Double cylinder 2 feeds machine for the production of men’s, women’s and children’s socks in ribs, plain knit and links. Needle-needle single-magnet selection for several rib and links patterns. Tuck knitting option on first feed of lower cylinder. Brushless motor incorporated in the column with variable heel and toe reciprocating motion. 2 selection points instead of pickers and needle droppers. Electronic size control by automatic adjustment of the stitch. Available in 3” 1/2, 3” 3/4 and 4” diameters and gauge from 7 to 22.

- Needle-needle single-magnet selection instead of pickers and needle droppers and links drums for different rib and links patterns.
- Simplified shell/skirt with less mobile cams
- Takedown with electronic control and size self adjustment
- Stitch cams with independent stepper motors
- Electronic full control of yarnfingers and of all functions
- Easier sinkers maintenance thanks to the rotating knitting head

**MACHINE DIMENSIONS**
- Length cm 90 + yarn creel cm 32
- Depth cm 104 + yarn creel cm 69
- Height cm 260

**MACHINE WEIGHT**
- Machine ca. 350 Kg
- Yarn creel ca. 30 Kg

**NOTE:**
All data relating to outer appearance, performance, dimensions and weight are just as an indication.
DOUBLE CYLINDER
E1320X - E1420X - E1520X

TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CYLINDER DIAMETER</th>
<th>GAUGE</th>
<th>NEEDLE THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1320X</td>
<td>3 1/2</td>
<td>from 9 to 22</td>
<td>0.5 - 0.6 - 0.7 mm</td>
</tr>
<tr>
<td>E1420X</td>
<td>3 3/4</td>
<td>from 9 to 22</td>
<td>0.5 - 0.6 - 0.7 mm</td>
</tr>
<tr>
<td>E1520X</td>
<td>4</td>
<td>from 7 to 22</td>
<td>0.5 - 0.6 - 0.7 - 0.9 mm</td>
</tr>
</tbody>
</table>

Above data are indicative and not binding.

STANDARD DEVICES

- Needle-needle single-magnet electronic selection system;
- Sock downtake with downwards movement control;
- Automatic turning device;
- Multi-stiffening by means of stepper motor;
- High heel by means of single-magnetic selection;
- Sinker cap with internal lubrication;
- 6 pneumatic yarnfingers;
- 4-rod take-up device;
- Suction valve controlled with stepper motor;
- Tail knitting at the start of the sock;

SISTEMI OPZIONALI

- Fan
- Picot welt
- Size electronic control
- Split device
- Pneumatic yarnfinger number 7
- First yarnfinger positioning at feeds 5, 6 and 7
- Second yarnfinger positioning at feeds 2, 3 and 4
- Lycra plating
- Bare Lycra
- 6-rod take-up device
- Yarn brake discs opener 1 and 2
- Prearrangement for YoYo feeder
- Prearrangement for LGL feeder
- Spyder sensors
- Cassefiis mechanical sensors
- Knots electric sensors
- Ethernet board

SUITABLE YARNS

The machine is designed to be used with the following yarns
- Natural fibers
- Synthetic yarn
- Elastic yarn

POSSIBLE KNITTING

The standard machine can perform the following knittings
- Plain knit
- Rib
- Links
- Tuck stitch on lower cylinder
### DISCLAIMER:
For gauges lower or higher than those in the chart, their maximum speed must be reduced by 10–15%.
Should you use staple fiber, maximum speed has to be detected each time according to the yarn and the item to be produced.

### NUMBER OF COLORS

| Number of colors | 1 color on the same course | Up to 5 colors on first feed | Up to 3 colors on second feed |

### PERFORMANCES

<table>
<thead>
<tr>
<th>4” CYLINDER DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINKS = 360 Rpm</td>
</tr>
<tr>
<td>Rib and plain knit = 380 Rpm</td>
</tr>
<tr>
<td>Tuck stitch = 260 Rpm</td>
</tr>
<tr>
<td>Reciprocated motion = 360 Rpm</td>
</tr>
</tbody>
</table>

### GAUGE

#### 1320X

<table>
<thead>
<tr>
<th>Model</th>
<th>ø</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>20</th>
<th>22</th>
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</thead>
<tbody>
<tr>
<td>3”1/2</td>
<td>96</td>
<td>100</td>
<td>104</td>
<td>120</td>
<td>124</td>
<td>128</td>
<td>132</td>
<td>136</td>
<td>140</td>
<td>144</td>
<td>148</td>
<td>152</td>
<td>156</td>
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#### 1420X

<table>
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<th>Model</th>
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<th>8</th>
<th>9</th>
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<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>20</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”3/4</td>
<td>104</td>
<td>108</td>
<td>112</td>
<td>116</td>
<td>120</td>
<td>124</td>
<td>132</td>
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<td>148</td>
<td>152</td>
<td>156</td>
<td>160</td>
<td>164</td>
<td>168</td>
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#### 1520X

<table>
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<th>Model</th>
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<th>7</th>
<th>8</th>
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<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>20</th>
<th>22</th>
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<tbody>
<tr>
<td>76</td>
<td>80</td>
<td>84</td>
<td>88</td>
<td>92</td>
<td>96</td>
<td>100</td>
<td>104</td>
<td>108</td>
<td>112</td>
<td>116</td>
<td>120</td>
<td>124</td>
<td>132</td>
<td>136</td>
<td>140</td>
<td>144</td>
</tr>
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Above data are indicative and not binding.

Lonati is recommending needles from Groz-Beckert.
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E1320X - E1420X - E1520X

ELECTRIC POWER CONSUMPTION
With program for medium length socks.

<table>
<thead>
<tr>
<th>MACHINE MODEL</th>
<th>CONSUMPTION kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1320X - E1420X – E1520X</td>
<td>0.54</td>
</tr>
</tbody>
</table>

COMPRESSED AIR CONSUMPTION
Gauge pressure 6.5 bar, humidity 0% and dryer outlet temperature 18°C-21°C.

<table>
<thead>
<tr>
<th>MACHINE MODEL</th>
<th>CYCLE TIME</th>
<th>CONSUMPTION FOR SOCK</th>
<th>CONSUMPTION PER MINUTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1320X - E1420X – E1520X</td>
<td>2'42&quot;</td>
<td>110 - ft³ 3.8</td>
<td>40.7 - Cfm 1.4</td>
</tr>
</tbody>
</table>

SUCTION
Depression = Cylinder = 800 - 850 mm/H20 - Flow = 2 m³/min

NOISE LEVEL
Machine average noise level, suction included LpA=81.9 dB LwA=99 db

LUBRICANTS
Average consumption for 100 dozens= 330 gr. Lonati recommends: Kluber Madol 183 Supreme

GREASE
For seals, bearing etc Lonati recommends: Damping grease Nyogel 774F
FRONT VIEW
Machine dimensions + 16 positions yarn creel.

NOTE:
The picture may show fittings and equipment that are supplied on demand and not.
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SIDE VIEW
Machine dimensions + 16 positions yarn creel.
FRONT VIEW
Machine dimensions + 18 positions yarn creel.

NOTE:
The picture may show fittings and equipment that are supplied on demand and not.
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SIDE VIEW
Machine dimensions + 18 positions yarn creel.
NOTE
E1320X - E1420X - E1520X