The trailer pumps STAR series 8” series 6” are the result of over 30 years of experience to the continuous improvement of: reliability, high efficiency, low operating costs and low noise in all operating conditions. The trailer STAR allows high flow of concrete both in vertical and in horizontal plan; results obtained from research and testing in the yards, in severe working conditions for any type of use.

**Serie 8” SR:** engine power reaches 175 kW (diesel motor), with max theoretical concrete output till 120 m³/h (rod side) and pressure on concrete till 172 bar (piston side).

**Serie 6” ST:** engine power reaches 55 kW (diesel motor), with max theoretical concrete output till 70 m³/h (rod side) and pressure on concrete till 75 bar (piston side).

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### PUMPING GROUPS

**RELIABILITY AND HIGH PERFORMANCE**

The concrete S-valve of the pumping unit has an excellent geometry which facilitates consistent concrete charges pumping both at height and at distance with minimal load leaks; these results have been gained through continuous research, testing the machines on site in extremely difficult working conditions.

- **THE HOPPER:** excellent geometry for concrete pumping

- Large capacity concrete hopper made of wear-resistant steel equipped with electric vibrator. The excellent combination between the agitator and the mixer shaft avoids any stagnation of concrete ensuring maximum efficiency during the pumping and making it easier to clean.

- Mixer shaft with screwed blades, made of wear-resistant steel.

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### TRAILER CONCRETE PUMPS

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### STAR SERIES 8"

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<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>SR 80</th>
<th>SR 80 HP</th>
<th>SR 100</th>
<th>SR 100 HP</th>
<th>SR 120</th>
</tr>
</thead>
<tbody>
<tr>
<td><em><em>TH. CONCRETE OUTPUT (MAX)</em> ROD SIDE</em>*</td>
<td>80 m³/h (104 yd³/h)</td>
<td>80 m³/h (104 yd³/h)</td>
<td>100 m³/h (131 yd³/h)</td>
<td>100 m³/h (131 yd³/h)</td>
<td>120 m³/h (157 yd³/h)</td>
</tr>
<tr>
<td><em><em>TH. CONCRETE OUTPUT (MAX)</em> PISTON SIDE</em>*</td>
<td>53 m³/h (69 yd³/h)</td>
<td>52 m³/h (68 yd³/h)</td>
<td>66 m³/h (86 yd³/h)</td>
<td>65 m³/h (85 yd³/h)</td>
<td>79 m³/h (103 yd³/h)</td>
</tr>
<tr>
<td><em><em>CONCRETE PRESSURE (MAX)</em> ROD SIDE</em>*</td>
<td>81 bar 1174 p.s.i.</td>
<td>101 bar 1450 p.s.i.</td>
<td>81 bar 1174 p.s.i.</td>
<td>101 bar 1450 p.s.i.</td>
<td>81 bar 1174 p.s.i.</td>
</tr>
<tr>
<td><em><em>CONCRETE PRESSURE (MAX)</em> PISTON SIDE</em>*</td>
<td>137 bar 1986 p.s.i.</td>
<td>172 bar 2479 p.s.i.</td>
<td>137 bar 1986 p.s.i.</td>
<td>172 bar 2479 p.s.i.</td>
<td>137 bar 1986 p.s.i.</td>
</tr>
<tr>
<td><em><em>NO. OF STROKES (MAX)</em> ROD SIDE</em>*</td>
<td>26</td>
<td>21</td>
<td>26</td>
<td>27</td>
<td>32</td>
</tr>
<tr>
<td><em><em>NO. OF STROKES (MAX)</em> PISTON SIDE</em>*</td>
<td>18</td>
<td>14</td>
<td>18</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td><strong>PISTON DIAMETER</strong></td>
<td>200 mm</td>
<td>200 mm</td>
<td>200 mm</td>
<td>200 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td><strong>STROKE LENGTH</strong></td>
<td>1,600 mm</td>
<td>2,000 mm</td>
<td>2,000 mm</td>
<td>2,000 mm</td>
<td>2,000 mm</td>
</tr>
<tr>
<td><strong>POWERED BY</strong></td>
<td>AUS D/E</td>
<td>AUS D/E</td>
<td>AUS D/E</td>
<td>AUS D/E</td>
<td>AUS D/E</td>
</tr>
<tr>
<td><strong>DIESEL AUXILIARY ENGINE</strong></td>
<td>IVECO N67MNTX 129 kW</td>
<td>IVECO N67MNTX 129 kW</td>
<td>IVECO N67MNTX 129 kW</td>
<td>IVECO N67MNTX 129 kW</td>
<td>IVECO N67ENTX 175 kW</td>
</tr>
<tr>
<td><strong>ELECTRIC AUXILIARY ENGINE</strong></td>
<td>110 kW</td>
<td>110 kW</td>
<td>110 kW</td>
<td>160 kW</td>
<td>160 kW</td>
</tr>
</tbody>
</table>

*Cannot be reached simultaneously*
**MAIN TECHNICAL CHARACTERISTICS SERIE 8” - SERIE 6”**

- Frame composed of high quality steel.
- Pumping unit whit open hydraulic circuit.
- Concrete S-valve made of cast iron wear-resistant.
- Automatic lubrication of the pumping unit on all moving parts.
- Automatic wears compensation system between plate and ring.
- Diesel engine Iveco STEP3, 129 kW or 175 kW (Serie 8”) or Kubota STEP3, 55 kW (Serie 6”).
- Electric auxiliary engine on request.
- Single axle with plugged pneumatics.
- Tow shaft with eyelet.
- Support wheel iron made adjustable in height.
- Manual stabilization on 4 points adjustable in height.
- Radio remote control.
- Concrete capacity adjustment from electric box and radio remote control.
- Hydraulic pumps Bosch-Rexroth at variable capacity.
- Automatic greasing system pumping group.
- High pressure water pump 22 l/min, 138 bar (Serie 8”) or 85 l/min, 20 bar (Serie 6”).
- Washing nozzle.
- Exit pipeline with bend and section 7” + reduction 5” (Serie 8”).
- Large capacity concrete hopper made by anti-wear steel equipped with alternate blades mix.
- Electric vibrator on hopper grid.
- Maintenance kit.
- Acoustic alarm.
- Water tank: 200 l (Serie 8”) or 210 l (Serie 6”).
- Diesel tank: 200 l (Serie 8”) or 70 l (Serie 6”).
- Monochromatic painting.

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**PUMPING UNIT - specifications**

<table>
<thead>
<tr>
<th>TRAILER PUMP</th>
<th>ST 45</th>
<th>ST 70</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TH. CONCRETE OUTPUT (MAX)</strong>*&lt;br&gt;ROD SIDE</td>
<td>45 m³/h</td>
<td>70 m³/h</td>
</tr>
<tr>
<td><strong>CONCRETE PRESSURE (MAX)</strong>*&lt;br&gt;ROD SIDE</td>
<td>75 bar</td>
<td>60 bar</td>
</tr>
<tr>
<td><strong>NUMBER OF STROKES (MAX)</strong>*&lt;br&gt;ROD SIDE</td>
<td>30</td>
<td>46</td>
</tr>
<tr>
<td><strong>PISTON DIAMETER</strong></td>
<td>180 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td><strong>STROKE LENGTH</strong></td>
<td>1,000 mm</td>
<td>1,000 mm</td>
</tr>
<tr>
<td><strong>POWERED BY</strong></td>
<td>AUX D/E</td>
<td>AUX D/E</td>
</tr>
<tr>
<td><strong>DIESEL AUXILIARY ENGINE</strong>&lt;br&gt;KUBOTA V3307-DI-T-E3B</td>
<td>KUBOTA V3307-DI-T-E3B</td>
<td></td>
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<tr>
<td><strong>ELECTRIC AUXILIARY ENGINE</strong></td>
<td>45 KW</td>
<td>45 KW</td>
</tr>
</tbody>
</table>

*Cannot be reached simultaneously
MAIN TECHNICAL CHARACTERISTICS

■ Frame composed of high quality steel.
■ Pumping unit with open hydraulic circuit.
■ Easy and quick maintenance of all components.
■ Excellent performance for any type of concrete.

STANDARD DOTATION

■ Concrete S-valve made of cast iron wear-resistant.
■ Automatic lubrication of the pumping unit on all moving parts.
■ Pumping group:
  - Cylinders Ø 180 mm / stroke 1,000 mm.
  - Concrete flow up to 30 m³/h (piston side).
  - Concrete pressure up to 87 bar (piston side).
■ Short width 1,295 mm.
■ Total weight 3,500 kg.
■ Electric auxiliary engine.
■ Single axle with plugged pneumatics 10,075/15.3”.
■ Tow shaft with eyelet.
■ Front manual support adjustable in height.
■ Rear manual stabilization on 2 points adjustable in height.
■ Radio remote control.
■ Concrete capacity adjustment from electric box and remote control.
■ Hydraulic pump Bosh-Rexroth with regulator constant power.
■ Automatic greasing system pumping group.
■ High pressure water pump 120 bar.
■ Washing nozzle.
■ Exit pipeline with bend and section 6” + reduction 5”.
■ Large capacity concrete hopper made by anti-wear steel equipped with alternate blades mix.
■ Electric vibrator on hopper grid.
■ Maintenance kit.
■ Acoustic alarm.
■ Water tank: 90 l.
■ Oil tank: 300 l.
■ Monochromatic painting.

OPTIONALS EXTRAS

■ Light on hopper.
■ Connection high pressure to pumping group.
■ Exit pipeline with bend and section 6” + reduction 5” (Serie 6”).
■ Air compressor 550 l/min, 10 bar.
■ Heating coil water tank.
■ Polychromatic painting.

PUMPING UNIT - specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH. CONCRETE OUTPUT (MAX)*</td>
<td>30 m³/h (39 yd³/h)</td>
</tr>
<tr>
<td>CONCRETE PRESSURE (MAX)*</td>
<td>87 bar (1261 p.s.i.)</td>
</tr>
<tr>
<td>NUMBER OF STROKES (MAX)*</td>
<td>21</td>
</tr>
<tr>
<td>PISTON DIAMETER</td>
<td>180 mm</td>
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<tr>
<td>STROKE LENGTH</td>
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<tr>
<td>POWERED BY</td>
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<tr>
<td>ELECTRIC AUXILIARY ENGINE</td>
<td>30 KW</td>
</tr>
</tbody>
</table>

*Cannot be reached simultaneously