## Attachments for hydraulic cylinders

to ISO 6982, ISO 8132 and ISO 8133

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### 1 MODEL CODE

<table>
<thead>
<tr>
<th>C</th>
<th>141</th>
<th>12</th>
<th>V</th>
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</thead>
<tbody>
<tr>
<td>Rod attachments:</td>
<td>136 = Rod eye spherical 146 = Rod eye spherical 141 = Rod clevis 151 = Rod eye plain 145 = Pivot pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brackets:</td>
<td>124 = Clevis bracket straight 134 = Clevis bracket in angle 144 = Eye bracket 154 = Trunnion bracket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Standard attachment**

**Painting**

**Bore size/rod diameter [mm]**

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### 2 POSSIBLE COMBINATIONS

<table>
<thead>
<tr>
<th>Ø Rod</th>
<th>Ø Bore</th>
<th>Rod attachments codes</th>
<th>Brackets codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 18 opt H(a)</td>
<td>25</td>
<td>NA C-14112 C-15112 C-14512</td>
<td>C-13425 C-14425 C-15425</td>
</tr>
<tr>
<td>14 22 opt H(a)</td>
<td>32</td>
<td>C-13616 C-14114 C-15114 C-14514</td>
<td>C-13432 C-14432 C-15432</td>
</tr>
<tr>
<td>18 22 opt H(a)</td>
<td>40</td>
<td>C-13618 C-14118 C-15118 C-14518</td>
<td>C-13440 C-14440 C-15440</td>
</tr>
<tr>
<td>22 36 opt H</td>
<td>50</td>
<td>C-14222 C-14122 C-15122 C-14522</td>
<td>C-13450 C-14450 C-15450</td>
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<tr>
<td>28 45 opt H</td>
<td>63</td>
<td>C-14228 C-14128 C-15128 C-14528</td>
<td>C-13463 C-14463 C-15463</td>
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<tr>
<td>36 45 opt H</td>
<td>80</td>
<td>C-13636 C-14136 C-15136 C-14536</td>
<td>C-13480 C-14480 C-15480</td>
</tr>
<tr>
<td>45 56 opt H</td>
<td>100</td>
<td>C-13645 C-14145 C-15145 C-14545</td>
<td>C-13490 C-14490 C-15490</td>
</tr>
<tr>
<td>56 70 opt H</td>
<td>125</td>
<td>C-13656 C-14156 C-15156 C-14556</td>
<td>C-13640 C-14640 C-15640</td>
</tr>
<tr>
<td>56 70 opt H</td>
<td>160</td>
<td>C-13656 C-14156 C-15156 C-14556</td>
<td>C-13640 C-14640 C-15640</td>
</tr>
<tr>
<td>70 90 opt H</td>
<td>200</td>
<td>C-13650 C-14150 C-15150 C-14550</td>
<td>C-13640 C-14640 C-15640</td>
</tr>
</tbody>
</table>

**Notes:**

(a) Option H: light male thread, for details see table B137 or B140
(b) C-136 is also available for rods 110, 140, 180 and 220. See section [section](#)
(c) For S mounting styles in CN cylinder
(d) For S mounting styles in CC cylinder

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### SWC Cylinders Designer

Software for assisted selection of Atos cylinders & servocylinders codes, including cylinder’s sizing, full technical information, 2D & 3D drawings in several CAD formats.

Available for download at www.atos.com

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### Table B500-21/E

The table at side shows the Atos range of standard rod attachments and brackets: they are available for each cylinder bore. See section [section](#) for possible combinations. Stainless steel attachments are available on request.

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### Ø Rod

- C-136 or C-146: Rod eye spherical
- C-141: Rod clevis
- C-151: Rod eye plain
- C-145: Pivot pin
- C-124: Clevis bracket straight
- C-134: Clevis bracket in angle
- C-144: Eye bracket
- C-154: Trunnion bracket

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### Ø Bore

- NA
- C-14112
- C-15112
- C-14512
- C-13425
- C-14425
- C-15425
- C-13432
- C-14432
- C-15432
- C-13440
- C-14440
- C-15440
- C-13450
- C-14450
- C-15450
- C-13463
- C-14463
- C-15463
- C-13480
- C-14480
- C-15480
- C-13490
- C-14490
- C-15490
- C-13640
- C-14640
- C-15640
- C-13640
- C-14640
- C-15640
- C-13640
- C-14640
- C-15640
- C-13640
- C-14640
- C-15640
- C-13640
- C-14640
- C-15640

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### Rod attachments:

- 136 = Rod eye spherical
- 146 = Rod eye spherical
- 141 = Rod clevis
- 151 = Rod eye plain
- 145 = Pivot pin

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### Brackets:

- 124 = Clevis bracket straight
- 134 = Clevis bracket in angle
- 144 = Eye bracket
- 154 = Trunnion bracket
Notes:
1. This attachment does not include the greaser because it is self-lubricated.
2. Dynamic loads has to be considered when the cylinders work with oscillatory motions or push-pull loads in high frequencies.
**C-124** - Clevis bracket straight to ISO 8132

![C-124 Clevis Bracket Straight](image1)

**Note:** Pivot pin and seeger are included in the supply. Supplied with threaded holes for pivot pin locking plate (not included).

**Notes:**
- Not compliant with ISO 8133

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**C-134** - Clevis bracket in angle to DIN 24556 or ISO 8133 with additional machining for dimension C0

![C-134 Clevis Bracket Angle](image2)

**Notes:** Pivot pin with locking plate is included in the supply.
- (1) Not compliant with ISO 8133

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**C-144** - Eye bracket to ISO 8133

![C-144 Eye Bracket](image3)

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**C-154** - Trunnion bracket (for cylinders with mounting styles G, H and L) to ISO 8132

![C-154 Trunnion Bracket](image4)

**Note:** The code includes two trunnion brackets.
- (1) To ISO 8133
EXAMPLES OF ATTACHMENTS

CK - mounting style C with rod eye C-136 and bracket C-144

CK - mounting style L with rod clevis C-141 and bracket C-154

CH - mounting style S with rod eye C-136 and bracket C-134

CH - mounting style P with rod clevis C-141

CN - mounting style S with rod eye C-136 and bracket C-124

CN - mounting style E with rod eye C-146

CC - mounting style L with rod eye C-146 and bracket C-154

CC - mounting style A with rod clevis C-141

SURFACE TREATMENT

Some attachments are provided with additional surface treatment to increase the corrosion resistance (24h in neutral salt spray), see table below for details. All the attachments, except pivot pin C-145, can be supplied with standard painting RAL 9007 (200h in neutral salt spray) selecting option -V, special painting are available on request.

<table>
<thead>
<tr>
<th>Code</th>
<th>Surface treatment</th>
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<th>Surface treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-136 or C-146</td>
<td>No treatment</td>
<td>C-124</td>
<td>No treatment</td>
</tr>
<tr>
<td>C-141</td>
<td>No treatment</td>
<td>C-134</td>
<td>No treatment</td>
</tr>
<tr>
<td>C-151</td>
<td>Black phosphate</td>
<td>C-144</td>
<td>Black phosphate</td>
</tr>
<tr>
<td>C-145</td>
<td>Black phosphate</td>
<td>C-154</td>
<td>No treatment</td>
</tr>
</tbody>
</table>