**Flush Socket Nutrunners**

**Cleco®**

### 34 Series

**Torque Range:**
- 5 – 103 Nm
- 4 – 76 Ft. Lbs

- External torque adjustment
  - (Clecomatic models)
- Indexable anglehead
- One torque spring to meet specified range
- Oilless blades
- Reversible

### X Dimension For Flush Socket

<table>
<thead>
<tr>
<th>Head</th>
<th>Inches</th>
<th>Millimeters</th>
<th>Socket Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>1.54</td>
<td>39</td>
<td>8–15mm</td>
</tr>
<tr>
<td>F2</td>
<td>1.69</td>
<td>43</td>
<td>10–15mm</td>
</tr>
<tr>
<td>F3</td>
<td>2.32</td>
<td>59</td>
<td>13–21mm</td>
</tr>
</tbody>
</table>

**NOTE:** Models listed are examples. Use chart on bottom of facing page for specific model required but not listed.

### 34 Series Models

- **Cleomatic - Lever Start - Reversible**
  - 34RAA09F1 1825 4-7 5-9 17.0 432 3.7 1.7 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAA16F1 1055 7-12 9-16 17.0 432 3.7 1.7 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAA28F1 645 10-20* 14-28* 17.8 452 3.9 1.8 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAA33F2 540 12-24 17-33 18.8 478 4.7 2.1 1.69 43 0.67 17 3/8” 5/16” 34
  - 34RAA47F2 380 17-39 24-47 19.0 483 5.1 2.3 1.69 43 0.67 17 3/8” 5/16” 34
  - 34RAA53F2 265 17-39 24-47 19.0 483 5.1 2.3 1.69 43 0.67 17 3/8” 5/16” 34
  - 34RAA67F3 265 24-49 33-67 20.5 521 5.8 2.6 2.32 59 0.87 22 3/8” 5/16” 34
  - 34RAA94F3 185 35-69 47-94 20.5 521 5.8 2.6 2.32 59 0.87 22 3/8” 5/16” 34

- **Stall - Lever Start - Reversible**
  - 34RAS10F1 1825 7 10 17.0 432 3.4 1.5 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAS18F1 1055 13 18 17.0 432 3.4 1.5 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAS30F1 645 22* 30* 17.8 452 3.5 1.6 1.54 39 0.55 14 3/8” 5/16” 34
  - 34RAS40F2 480 29 40 19.0 483 4.4 2.0 1.69 43 0.67 17 3/8” 5/16” 34
  - 34RAS52F2 380 38 52 19.0 483 4.4 2.0 1.69 43 0.67 17 3/8” 5/16” 34
  - 34RAS58F3 335 43 58 20.5 521 5.5 2.5 2.32 59 0.87 22 3/8” 5/16” 34
  - 34RAS73F3 265 54 73 20.5 521 5.5 2.5 2.32 59 0.87 22 3/8” 5/16” 34
  - 34RAS103F3 185 76 103 20.5 521 5.5 2.5 2.32 59 0.87 22 3/8” 5/16” 34

* Maximum torque of tool exceeds the maximum torque rating for the head; high maintenance should be expected when operated at the upper torque capacity range.

**General:**
- Tool performance rated at 90 psi (620kPa) air pressure.

### Standard Equipment:
- Operating instructions & service manual
- Suspension ball
- Exhaust Overhose
- Clutch adjustment tool (Clecomatic tools)
- Mounting plate (F3 tools)

### Optional Equipment:
- Assembly wrench: 201898
- Torque signal kit: 301937PT
- Non-reversible kit: 204999
- Mounting plates: F1 tools 57217101
- F2 tools 57218103
- F3 tools 43287131
- Additional accessories: Page 36

**NOTE:** Models listed are examples. Use chart on bottom of facing page for specific model required but not listed.
Standard right angle head with square drive and separate socket will not fit on tight clearance applications. The overall head height is greater than the available clearance.

Flush socket tools have plenty of clearance to fit on the same application. Cleromatic flush socket tools tighten with much higher accuracy than tools with crowfoot attachment. The overall head height is less than the available clearance.

Model Number Example

<table>
<thead>
<tr>
<th>Base Tool</th>
<th>Socket No. (ordered with base tool)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor: Reversible</td>
<td>FS – Flush</td>
</tr>
<tr>
<td>Control: A – Clutch, S – Stall</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque Output: F1 Clutch: 9, 16, 28 Nm; Stall: 10, 18, 30 Nm; F2 Clutch: 33, 47, 53 Nm; Stall: 40, 52 Nm; F3 Clutch: 67, 94 Nm; Stall: 58, 73, 103 Nm</td>
<td></td>
</tr>
<tr>
<td>Flush Socket Head: F1 Head: 8–15 mm socket capacity; F2 Head: 10–15 mm socket capacity; F3 Head: 13–21 mm socket capacity</td>
<td></td>
</tr>
<tr>
<td>Output Type: 1–Thru Hex, 2–Magnetic</td>
<td></td>
</tr>
<tr>
<td>Extension Length: 0 – Flush, 2 – 1/4&quot;, 4 – 1/2&quot;, 6 – 3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Socket Sizes: EC – 3/8&quot;, ED – 7/16&quot;, EE – 1/2&quot;, EF – 9/16&quot;, MA – 7mm, MB – 8mm, MC – 9mm, MD – 10mm, ME – 11mm, MF – 12mm, MG – 13mm, MH – 14mm, MI – 15mm, MM – 19mm</td>
<td></td>
</tr>
</tbody>
</table>

Note: When ordering, specify the base tool and order the socket separately. The socket will be installed in the tool before shipment.
34 Series

Torque Range:
14 – 30 Nm
10 – 22 Ft. Lbs

■ External torque adjustment
  (Clecomatic models)
■ Indexable anglehead
■ One torque spring to meet specified range
■ Oilless blades
■ Reversible

NOTE: Models listed are examples. Use chart on bottom of facing page for specific model required but not listed.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Free Speed</th>
<th>Torque Range</th>
<th>Socket Size</th>
<th>Length</th>
<th>Weight</th>
<th>Air Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 Degree Head</td>
<td>30 Degree Head</td>
<td>RPM</td>
<td>ft.-lbs.</td>
<td>Nm</td>
<td>in.</td>
</tr>
<tr>
<td>Clecomatic - Lever Start - Reversible</td>
<td>34RCA30D1</td>
<td>34RCA30D3</td>
<td>425</td>
<td>11-22</td>
<td>15-30</td>
<td>5/16</td>
</tr>
<tr>
<td>Stall - Lever Start - Reversible</td>
<td>34RCS29D1</td>
<td>34RCS29D3</td>
<td>490</td>
<td>21</td>
<td>29</td>
<td>5/16</td>
</tr>
</tbody>
</table>

General:
Tool performance rated at 90 psi (620kPa) air pressure.

Standard Equipment:
- Operating instructions & service manual
- Suspension ball
- Exhaust Overhose
- Clutch adjustment tool (Clecomatic tools)

Extra Equipment:
- Specify socket from page 31

Optional Equipment:
- Assembly wrench: 201898
- Torque signal kit: 301937PT
- Non-reversible kit: 204999
- Additional accessories: Page 36
15° Head
Part Number: 301071
Maximum Recommended Torque: 22 ft lbs (30 Nm)
Standard Length Socket

30° Head
Part Number: 301072
Maximum Recommended Torque: 22 ft lbs (30 Nm)
Standard Length Socket

Model Number Example

<table>
<thead>
<tr>
<th>Base Tool</th>
<th>Socket No. (ordered with base tool)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 R C A 30 D1</td>
<td>CS XX X X</td>
</tr>
</tbody>
</table>

Motor 34
Rotation R – Reversible
Tool Style C = Crowfoot
Control
A = Clecomatic
S = Stall

Max Output Torque
Clecomatic: 30
Stall: 14, 29

Tool Termination
D1 15° Head
D3 30° Head

Output Type
1 – Thru Hex

Extension Length
0 – Flush
4 – 1/2”
6 – 3/4”

Sockets
Flush
EA – 1/4”
EC – 3/8”
ED – 7/16”
EE – 1/2”
EF – 9/16”
MB – 8mm
EH – 11/16”

1/2” Extended
EB – 5/16”
EC – 3/8”
ED – 7/16”
EE – 1/2”
EF – 9/16”
MB – 8mm
MD – 10mm
ME – 11mm
MF – 12mm
MG – 13mm

3/4” Extended
EE – 1/2”
MG – 13mm
MH – 14mm
34 Series

Torque Range: 24 – 103 Nm 17 – 76 Ft. Lbs

- External torque adjustment (Clecomatic models)
- Indexable anglehead
- One torque spring to meet specified range
- 1" retraction of hold spindle
- Oilless blades
- Reversible

**NOTE:** Models listed are examples. Use chart on bottom of facing page for specific model required but not listed.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Hold Size</th>
<th>Free Speed</th>
<th>Torque</th>
<th>Length</th>
<th>Weight</th>
<th>Anglehead</th>
<th>Air Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RPM ft-lbs</td>
<td>Nm</td>
<td>in.</td>
<td>mm</td>
<td>lbs kg</td>
<td>Height</td>
</tr>
<tr>
<td>34RAA53H3</td>
<td>5mm Female Hex</td>
<td>335</td>
<td>17-39</td>
<td>24-53</td>
<td>20.7</td>
<td>526 8.0 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAA67H3</td>
<td>7mm Female Hex</td>
<td>265</td>
<td>24-49</td>
<td>33-67</td>
<td>20.7</td>
<td>526 8.0 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAA94H3</td>
<td>8mm Female Hex</td>
<td>185</td>
<td>35-69</td>
<td>47-94</td>
<td>20.7</td>
<td>526 8.0 3.5</td>
<td>2.4</td>
</tr>
</tbody>
</table>

**Clecomatic - Lever Start - Reversible**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Hold Size</th>
<th>Free Speed</th>
<th>Torque</th>
<th>Length</th>
<th>Weight</th>
<th>Anglehead</th>
<th>Air Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RPM ft-lbs</td>
<td>Nm</td>
<td>in.</td>
<td>mm</td>
<td>lbs kg</td>
<td>Height</td>
</tr>
<tr>
<td>34RAS58H3</td>
<td>5mm Female Hex</td>
<td>335</td>
<td>43</td>
<td>58</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAS79H3</td>
<td>T30 Torx</td>
<td>265</td>
<td>54</td>
<td>73</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAS103H3</td>
<td>10mm Female Hex</td>
<td>185</td>
<td>76</td>
<td>103</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
</tbody>
</table>

**Stall - Lever Start - Reversible**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Hold Size</th>
<th>Free Speed</th>
<th>Torque</th>
<th>Length</th>
<th>Weight</th>
<th>Anglehead</th>
<th>Air Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RPM ft-lbs</td>
<td>Nm</td>
<td>in.</td>
<td>mm</td>
<td>lbs kg</td>
<td>Height</td>
</tr>
<tr>
<td>34RAS58H3</td>
<td>5mm Female Hex</td>
<td>335</td>
<td>43</td>
<td>58</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAS79H3</td>
<td>T30 Torx</td>
<td>265</td>
<td>54</td>
<td>73</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>34RAS103H3</td>
<td>10mm Female Hex</td>
<td>185</td>
<td>76</td>
<td>103</td>
<td>20.7</td>
<td>526 7.7 3.5</td>
<td>2.4</td>
</tr>
</tbody>
</table>

**General:** Tool performance rated at 90 psi (620kPa) air pressure.

**Standard Equipment:** Operating instructions & service manual, Suspension bail, Exhaust Overhose, Clutch adjustment tool (Clecomatic tools), Mounting Plate

**Optional Equipment:** Assembly wrench: 201898, Torque signal kit: 301937PT, Non-reversible kit: 204999, Additional accessories: Page 36

NOTE: Hold & Drive Nutrunners
Clecomatic Clutch & Stall
"Hold & Drive" bolts are used with these tools in automotive and truck frame applications. They reduce assembly handling to one person working from one side of the workpiece. The bolt is held stationary by the tool while the nut is tightened from the same side.

### Hold & Drive tool approaches the application.

### Hold socket fits over bolt and prevents it from rotating.

### Tool is pushed down and started until drive socket engages and tightens nut.

---

**Model Number Example**

<table>
<thead>
<tr>
<th>Base Tool</th>
<th>Drive Socket</th>
<th>Hold Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 R A A 53 H</td>
<td>H3 ML O M6 B</td>
<td></td>
</tr>
</tbody>
</table>

**Motor**
- Reversible

**Tool Style**
- A – Angle

**Control**
- A – Clutch
- S – Stall

**Maximum Torque Output**
- Clutch: 53, 67, 94 Nm
- Stall: 58, 73, 103 Nm

**Tool Termination**
- H – Hold & Drive

**Retainer Shaft Length**
- 3 – 3 1/2"
- 4 – 4"
- 5 – 5 3/8"
- 6 – 5 7/8"
- 9 – 9"

**Drive Socket Size**
- EE – 1/2"
- EF – 9/16"
- EG – 5/8"
- EH – 11/16"
- EI – 3/4"
- EJ – 13/16"
- EK – 7/8"
- EL – 15/16"
- EM – 1"
- EN – 1 1/16"
- EO – 1 1/8"
- EP – 1 3/16"

**Oval Length (for oval only)**
- (Example: For a 6mm x 8mm oval, this dimension would be M6, but drop the "M" as in M6B.)

**Hold Socket**
- (dimension across flats, oval also)
  - EA – 1/4"
  - EB – 5/16"
  - EC – 3/8"
  - ED – 7/16"
  - EE – 9/16"
  - EG – 5/8"
  - EH – 11/16"
  - EI – 3/4"
  - EJ – 13/16"
  - EK – 7/8"
  - EL – 15/16"
  - EM – 1"
  - EN – 1 1/16"
  - EO – 1 1/8"
  - EP – 1 3/16"
- (Example: On a 6mm x 8mm oval, this dimension would be M6)

**Hold Socket Style**
- F – Female Hex
- M – Male Hex
- O – Female oval

**Oval Length**
- M – 6mm
- MH – 14mm
- EA – 1/4"
- EB – 5/16"
- EC – 3/8"
- ED – 7/16"
- EE – 9/16"
- EG – 5/8"
- EH – 11/16"
- EI – 3/4"
- EJ – 13/16"
- EK – 7/8"
- EL – 15/16"
- EM – 1"
- EN – 1 1/16"
- EO – 1 1/8"
- EP – 1 3/16"
- (Example: On a 6mm x 8mm oval, this dimension would be M6)

**Note:** When ordering, specify the base tool and order the socket separately. The socket will be installed in the tool before shipment.
**Cleco**

**24 Series**

**Torque Range:**
- 14 - 40 Nm
- 19 - 54 Ft. Lbs

- One hand, two position throttle
- External torque adjustment
- Auto alignment socket

**Termination**

T2, T3 & T4 Head Height

**T2 Head**

- 2.63" (67 mm)
- 1.56" (40 mm)

**T3 Head**

- 1.44" (37 mm)

**T4 Head**

- 1.94" (49 mm)

**Note:** Models listed are examples. Use chart on bottom of facing page for specific model required but not listed.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Free Speed RPM</th>
<th>Torque Range Ft. Lbs.</th>
<th>Weight</th>
<th>Length</th>
<th>Socket Size</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min - Max</td>
<td></td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Min - Max</td>
<td></td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>lbs.</td>
<td>kg.</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td><strong>Power Unit Only</strong></td>
<td></td>
<td>24RTA12</td>
<td>670</td>
<td>3.6 - 8.9</td>
<td>5 - 12</td>
<td>2.7</td>
<td>1.2</td>
<td>12</td>
<td>305</td>
</tr>
<tr>
<td><strong>Self Aligning</strong></td>
<td></td>
<td>24RTA2OT2</td>
<td>240</td>
<td>10.4 - 14.7</td>
<td>14 - 20</td>
<td>4.3</td>
<td>2.0</td>
<td>16.8</td>
<td>426</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24RTA3OT3</td>
<td>175</td>
<td>14.7 - 22.1</td>
<td>20 - 30</td>
<td>4.5</td>
<td>2.0</td>
<td>16.7</td>
<td>426</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24RTA40T4</td>
<td>130</td>
<td>19.2 - 29.5</td>
<td>26 - 40</td>
<td>5.1</td>
<td>2.3</td>
<td>17.7</td>
<td>449</td>
</tr>
</tbody>
</table>

*Varies by socket dimension.

**General:**
- Air Inlet: 1/4" NPT
- Tool performance rated at 90 psi (620kPa) air pressure.

**Extra Equipment:**
- Specify socket from page 35

**Optional Equipment:**
- Torque signal kit: 301937PT (see page 39)
Auto Alignment Head

Tube and hose applications, once only accessible by the use of hand tools, can now be tightened by the Cleco family of Tube Nut Wrenches at a speed that maximizes productivity.

Torque repeatability is assured by the proven Clecomatic clutch and low inertia motor. These models use a single lever for the tightening of the fastener and the return of the socket to the open position. The flexibility coupled with the proven capabilities greatly increases the productivity rate of the assembly line.

Make sure that the socket is set to the open position. If not, push the throttle lever down half way to release the socket back to the open position.

Slide the tool on the fastener and push the throttle lever down fully to run the fastener down.

To free the tool, slide the tool off the tightened fastener and operate the throttle lever halfway to release the socket back to the open position.

Model Number Example

<table>
<thead>
<tr>
<th>Base Tool</th>
<th>Socket (Order Separately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 R T A 20 T2</td>
<td>KS2 ED 0 0</td>
</tr>
<tr>
<td>Motor 24</td>
<td>Output Type</td>
</tr>
<tr>
<td>Tool Style R – Reversing mechanism for socket orientation</td>
<td>0 Partial Thru Hex</td>
</tr>
<tr>
<td>Tool Type T – Tube Nut</td>
<td>1 Thru Hex</td>
</tr>
<tr>
<td>Torque Control A – Clecomatic Clutch</td>
<td>2 Double Thru Hex</td>
</tr>
<tr>
<td>Max Torque (Nm)</td>
<td></td>
</tr>
<tr>
<td>T2 - 20 Nm Max.</td>
<td>3 Partial Thru Double Hex</td>
</tr>
<tr>
<td>T3 - 30 Nm Max.</td>
<td></td>
</tr>
<tr>
<td>T4 - 40 Nm Max.</td>
<td></td>
</tr>
<tr>
<td>Head Size</td>
<td></td>
</tr>
<tr>
<td>T2 - 20 Nm Max.</td>
<td></td>
</tr>
<tr>
<td>T3 - 30 Nm Max.</td>
<td></td>
</tr>
<tr>
<td>T4 - 40 Nm Max.</td>
<td></td>
</tr>
<tr>
<td>Socket Sizes</td>
<td></td>
</tr>
<tr>
<td>EA - 1/4&quot; M5 - 5mm</td>
<td></td>
</tr>
<tr>
<td>EC - 3/8&quot; M6 - 6mm</td>
<td></td>
</tr>
<tr>
<td>ED - 7/16&quot; MA - 7mm</td>
<td></td>
</tr>
<tr>
<td>EE - 1/2&quot; MB - 8mm</td>
<td></td>
</tr>
<tr>
<td>EF - 9/16&quot; MD - 10mm</td>
<td></td>
</tr>
<tr>
<td>EH - 11/16&quot; ME - 11mm</td>
<td></td>
</tr>
<tr>
<td>EJ - 13/16&quot; MF - 13mm</td>
<td></td>
</tr>
<tr>
<td>EK - 7/8&quot; MG - 13mm</td>
<td></td>
</tr>
<tr>
<td>EL - 15/16&quot; MH - 14mm</td>
<td></td>
</tr>
<tr>
<td>EM - 1&quot; MI - 15mm</td>
<td></td>
</tr>
<tr>
<td>EO - 1 1/8&quot; MJ - 16mm (5/8&quot;)</td>
<td></td>
</tr>
<tr>
<td>Maximum Hex Socket Sizes</td>
<td></td>
</tr>
<tr>
<td>MG, 1/2&quot; T2 Head Type</td>
<td></td>
</tr>
<tr>
<td>MM, 3/4&quot; T3 Head Type</td>
<td></td>
</tr>
<tr>
<td>MU, 1 1/16&quot; T4 Head Type</td>
<td></td>
</tr>
<tr>
<td>00, # (specials) T3 Head Type</td>
<td></td>
</tr>
</tbody>
</table>
| Note: When ordering, specify the base tool and order the socket separately. The socket will be installed in the tool before shipment.