Aerial Cam Unit  General Description of UCMSNR

NAAMS STANDARD

- 70, 80, 165, 200, 300mm and 400mm are available for the mounting width.
- Standard angles from 0-60 degrees are available in 5 degree increments.
- Spring is removable from rear of cam to allow adjustment in closed home position.
- Highly rigid structure with double wear plates and S45C material.
- Product conforming to NAAMS standard.

⚠️ 65°/70°/75° are also available. Please contact your sales representative.

#### UCMSNR70, 80 Structure and Assembly / Disassembly

- Disassembly method of UCMSNR70, 80
  1) Remove hexagon socket head bolt (2) and coned disc spring (3).
  2) Loosen hexagon socket head bolt (2) and remove spring stopper plate (UCMSNR70: 2, UCMSNR80: 3). Pull out spring (3).
  3) Loosen hexagon socket bolt (3) and remove guide bar (4) and cam slider (5) from cam holder (6).
  4) Pull and remove the guide bar from the cam slider.

- Assembly method of UCMSNR70, 80
  1) Assemble components in the reverse order of disassembly.
  • Make sure that there is no foreign matter on the sliding area and assemble components.
  • The clearance between the guide bar/cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
  • When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided.

#### Structure and Assembly/Disassembly of UCMSNR165, 200, 300 and 400

- Disassembly method of UCMSNR165, 200, 300 and 400
  1) Loosen hexagon socket head bolt (3) and remove safety plate (6).
  2) Loosen hexagon socket head bolt (3) and remove stopper plate (6).
  3) Pull and remove cam slider (5) from cam holder (4).

- Assembly method of UCMSNR165, 200, 300 and 400
  1) Assemble components in the reverse order of disassembly.
  • Make sure that there is no foreign matter on the sliding area and assemble components.
  • The clearance between the guide bar/cam slider and the cam holder is controlled. Match the stamped serial number on the holder and slider before assembly.
  • When cam is disassembled and then reassembled, please do not forget to assemble all bolts provided.
Mark

Without gas spring but accessories for installation of each type are included.

1586

NAAMS STANDARD

Aerial Cam Unit

Option

UCMSNR200 – 00 – GK – N

UCMSNR200 – 00 – GK – NF

Order

Option Code Specification

N

h

16H7 dowel hole is drilled on the cam holder.

NF

Nitrogen gas is not charged.

- Applicable to GK, GD and GS only.

- Without gas spring

- Without coil spring

UCMSNR

200

00

GK

NGK

GD

NGD

GS

NGS

ISO

NISO

Order Catalog No. (W)

UCMSNR 200 – 00 – GK

UCMSNR 200 – 00 – NGK

UCMSNR 200 – 00 – NISO

Without gas spring

Without coil spring

Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Cam Unit

Spring Specification

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>0GK</td>
<td>Gas Spring (KALLER)</td>
<td>K500-63.5</td>
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<tr>
<td>0GD</td>
<td>Gas Spring (DADCO)</td>
<td>L500.063.138</td>
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</tr>
<tr>
<td>0DS</td>
<td>Gas Spring (SDT)</td>
<td>SM500.63</td>
<td></td>
</tr>
</tbody>
</table>
| 0ISO| Cal Spring (constant =74.9N/mm) | T-JMSO-178 | Guideline of spring durability 500,000 strokes

Table of Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Cam Driver</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>3</td>
<td>Cam Holder</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
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<td>Bronze with Graphite</td>
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<td>5</td>
<td>Base Plate D-M</td>
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<td>6</td>
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<tr>
<td>7</td>
<td>Cam Slide Guide</td>
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<td>Positive Return Follower</td>
<td>2</td>
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<tr>
<td>9</td>
<td>Safety Plate</td>
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<td>11</td>
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<td>30</td>
<td>Snap Ring &amp; type</td>
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<td>31</td>
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<td>34</td>
<td>Slide Lock Plate</td>
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<td>35</td>
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<tr>
<td>36</td>
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</table>

Boots for assembly are not indicated.

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**Aerial Cam Unit**

**NAAMS STANDARD**

---

**Gas Spring**

- Without gas spring but accessories for installation of each type are included.

**NAAMS STANDARD**

**Aerial Cam Unit**

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
<th>Specification</th>
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<tbody>
<tr>
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<td>16H7 dowel hole is drilled on the cam holder.</td>
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<tr>
<td>NF</td>
<td></td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
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<tr>
<td>-</td>
<td></td>
<td>Without gas spring</td>
</tr>
<tr>
<td>-</td>
<td></td>
<td>Without coil spring</td>
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**Order**

- **Option Code**
  - N: 16H7 dowel hole is drilled on the cam holder.
  - NF: Nitrogen gas is not charged. Applicable to GK, GD and GS only.

**Gas Springs**

- Not filled with nitrogen gas if delivery is by air freight.
- Gas Springs are not filled with nitrogen gas if delivery is by air freight.

---

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>GK</td>
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<td>Gas Spring (KALLER)</td>
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<tr>
<td>GD</td>
<td>L500.063.138</td>
<td>Gas Spring (DADCO)</td>
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<td>DS</td>
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<td>Gas Spring (SDT)</td>
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<tr>
<td>ISO</td>
<td>T.JM50-178</td>
<td>Cal Spring (constant 74.9N/mm)</td>
<td></td>
</tr>
</tbody>
</table>

**Guideline of spring durability**

- 500,000 strokes

---

**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Cam Slider</td>
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<td>FC250</td>
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<tr>
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<td>4</td>
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<td>6</td>
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<td>7</td>
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<td>1</td>
<td>Bronze with Graphite</td>
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<tr>
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<td>Positive Return Follower</td>
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<td>9</td>
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<td>Roller Driver</td>
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<tr>
<td>21</td>
<td>Snap Ring &amp; type</td>
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<tr>
<td>22</td>
<td>Key C</td>
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<td>SS400(1020)</td>
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<tr>
<td>23</td>
<td>Wear Plate</td>
<td>2</td>
<td>VDI 50 × 200 × 12</td>
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<tr>
<td>27</td>
<td>Spring</td>
<td>1</td>
<td>Refer to Spring Specification Table</td>
</tr>
</tbody>
</table>

Bolts for assembly are not indicated.

---

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**Aerial Cam Unit**

**NAAMS STANDARD**

---

**UCMSNR200–10**

---

**Cam Diagram**

---

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GK</td>
<td>K500-63.5</td>
<td>Gas Spring (KALLER)</td>
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<tr>
<td>2</td>
<td>GD</td>
<td>L500.063.138</td>
<td>Gas Spring (DDACO)</td>
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<tr>
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<td>DS</td>
<td>SM500.63</td>
<td>Gas Spring (SDT)</td>
</tr>
<tr>
<td>4</td>
<td>ISO</td>
<td>T.M50–178</td>
<td>Cal Spring (contan+H), Nitrogen gas is not charged.</td>
</tr>
</tbody>
</table>

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**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Cam Slider</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>2</td>
<td>Cam Driver</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>3</td>
<td>Cam Holder</td>
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</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
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<tr>
<td>5</td>
<td>Base Plate D-H</td>
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<td>S45C(1045)</td>
</tr>
<tr>
<td>6</td>
<td>Base Plate D-L</td>
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<td>Positive Return Follower</td>
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<tr>
<td>12</td>
<td>Stopper</td>
<td>1</td>
<td>Urethane</td>
</tr>
</tbody>
</table>

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**Order**

- **Catalog No.**
  - UCMSNR 200 — 10 — GK
  - UCMSNR 200 — 10 — NGK
  - UCMSNR 200 — 10 — NISO

---

**Mark**

- Without gas spring but accessories for installation of each type are included.
- Without coil spring

---

**Spring Support**

- Gas Springs are not filled with nitrogen gas if delivery is by air freight.

---

**Space for removing**

- Guideline of spring durability: 500,000 strokes
Without gas spring but accessories for installation of each type are included.

**Option Code Specification**

- **N**: 16H7 dowel hole is drilled on the cam holder.
- **NF**: Nitrogen gas is not charged.
  - Applicable to GK, GD and GS only.

**Order**

- **UCMSNR200** – 15 – **GK** – N
- **UCMSNR200** – 15 – **NGK** – NISO
- **UCMSNR200** – 15 – **NGD** – NISO
- **UCMSNR200** – 15 – **NGS** – NISO
- **UCMSNR200** – 15 – **GK** – NF
- **UCMSNR200** – 15 – **NGK** – NF ISO
- **UCMSNR200** – 15 – **NGD** – NF ISO
- **UCMSNR200** – 15 – **NGS** – NF ISO

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
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<td>Gas Spring (KALLER)</td>
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<td>Gas Spring (DADCO)</td>
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<td>ISO</td>
<td>T.JM50-178</td>
<td>Cal Spring (constant =74.9N/mm)</td>
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</table>

**Guideline of spring durability**: 500,000 strokes

**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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<tr>
<td>1</td>
<td>Cam Slider</td>
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<td>FC250</td>
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<tr>
<td>2</td>
<td>Cam Driver</td>
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<td>FC250</td>
</tr>
<tr>
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<td>Cam Holder</td>
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<td>6</td>
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<td>Positive Return Follower</td>
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<td>Urethane</td>
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**Spring Support**

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<td>VDI 50 × 200 × 12</td>
</tr>
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<td>Slide Lock Plate</td>
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<td>36</td>
<td>Spring Guide Plate</td>
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<td>37</td>
<td>Spring</td>
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<td>Refer to the Spring Specification Table</td>
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Boils for assembly are not indicated.
Without gas spring but accessories for installation of each type are included.

**NAAMS STANDARD**

### Aerial Cam Unit

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
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<tr>
<td>N</td>
<td>16H7 dowel hole is drilled on the cam holder.</td>
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<tr>
<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
</tr>
<tr>
<td>UCMSNR200</td>
<td>Without gas spring</td>
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<tr>
<td>UCMSNR200</td>
<td>Without coil spring</td>
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</table>

**Order**

<table>
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<th>Option Code</th>
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</thead>
<tbody>
<tr>
<td>N</td>
<td>16H7 dowel hole is drilled on the cam holder.</td>
</tr>
<tr>
<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
</tr>
</tbody>
</table>

**Cam Unit**

- Without gas spring but accessories for installation of each type are included.
- Nitrogen gas is not charged.
- Without gas spring
- Without coil spring
- Gas Springs are not filled with nitrogen gas if delivery is by air freight.

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>GK</td>
<td>K500-63.5</td>
<td>Gas Spring (KALLER)</td>
<td></td>
</tr>
<tr>
<td>GD</td>
<td>L500.063.138</td>
<td>Gas Spring (DADCO)</td>
<td></td>
</tr>
<tr>
<td>DS</td>
<td>SM500.63</td>
<td>Gas Spring (SDT)</td>
<td></td>
</tr>
<tr>
<td>ISO</td>
<td>JM50-178</td>
<td>Cal Spring (constant =74.9N/mm)</td>
<td>Guideline of spring durability 500,000 strokes</td>
</tr>
</tbody>
</table>

**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Material and Remark</th>
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<tbody>
<tr>
<td>1</td>
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<td>1</td>
<td>FC250</td>
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<td>2</td>
<td>Cam Driver</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>3</td>
<td>Cam Holder</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>5</td>
<td>Base Plate D-R</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>6</td>
<td>Base Plate D-L</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>7</td>
<td>Stopper Plate</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>8</td>
<td>Cam Slide Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>9</td>
<td>Positive Return Follower</td>
<td>2</td>
<td>S45C(1045)</td>
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<td>10</td>
<td>Safety Plate</td>
<td>2</td>
<td>S2400(1020)</td>
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<tr>
<td>11</td>
<td>Key A</td>
<td>4</td>
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<tr>
<td>12</td>
<td>Key B</td>
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<td>S400(1020)</td>
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<tr>
<td>13</td>
<td>Stopper</td>
<td>1</td>
<td>Urethane</td>
</tr>
</tbody>
</table>

**Spring Support**

- Slide Plate: S45C(1045)
- Roller: S45C(1045)
- Bushing: S45C(1045)
- Roller Bracket: S400(1020)
- Roller Driver: S45C(1045)
- Snap Ring E type: 1.5
- Wear Plate: 2VDI 50×200×12
- Spring: S400(1020)
- Slide Lock Plate: S400(1020)
- Spring Guide Plate: S400(1020)

- Bolts for assembly are not indicated.
**Aerial Cam Unit**

NAAMS STANDARD

---

**Option**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
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<tbody>
<tr>
<td>N</td>
<td>Dowel hole is drilled on the cam holder.</td>
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<tr>
<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
</tr>
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**Without gas spring but accessories for installation of each type are included.**

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**Order**

<table>
<thead>
<tr>
<th>Order</th>
<th>Catalog No.</th>
<th>(W)</th>
<th>(F)</th>
<th>G</th>
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<td>200 – 25 – GK</td>
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<td>200 – 25 – ISO</td>
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**UCMSNR200 – 25 – GK – N**

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**Spring Specification**

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<tr>
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<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>GK</td>
<td>K500-63.5</td>
<td>Gas Spring (KALLER)</td>
</tr>
<tr>
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<td>GD</td>
<td>L500.063.138</td>
<td>Gas Spring (DADCO)</td>
</tr>
<tr>
<td>2</td>
<td>DS</td>
<td>SM500.63</td>
<td>Gas Spring (SDT)</td>
</tr>
<tr>
<td>3</td>
<td>ISO</td>
<td>TJ.M50-178</td>
<td>Cal Spring (constant = 74.9N/mm)</td>
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**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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<tbody>
<tr>
<td>1</td>
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<td>1</td>
<td>FC250</td>
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<tr>
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<td>Cam Driver</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>3</td>
<td>Cam Holder</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>5</td>
<td>Base Plate D-H</td>
<td>1</td>
<td>S45C(1045)</td>
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<tr>
<td>6</td>
<td>Base Plate D-L</td>
<td>1</td>
<td>S45C(1045)</td>
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<tr>
<td>7</td>
<td>Stopper Plate</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>8</td>
<td>Cam Slide Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>9</td>
<td>Positive Return Follower</td>
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<td>S45C(1045)</td>
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<tr>
<td>10</td>
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<td>12</td>
<td>Key B</td>
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<td>SS400(1020)</td>
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<td>13</td>
<td>Stopper</td>
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<td>Urethane</td>
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<td>Roller Bracket</td>
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<td>Roller Driver</td>
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<td>Wear Plate</td>
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<td>VDI 50 × 200 × 12</td>
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<tr>
<td>23</td>
<td>Spring Support</td>
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<td>24</td>
<td>Spring Lock Plate</td>
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<td>25</td>
<td>Spring Guide Plate</td>
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<tr>
<td>26</td>
<td>Spring</td>
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<td>Non to be Spring Specification Table</td>
</tr>
</tbody>
</table>

---

**Guideline of spring durability** 500,000 strokes

---

**Without gas spring but accessories for installation of each type are included.**

---

**UCMSNR200**

---

**Backup**

---

**Without gas spring but accessories for installation of each type are included.**

---

**UCMSNR200 – 25 – GK – N**

---

**Without gas spring but accessories for installation of each type are included.**

---

**UCMSNR200 – 25 – GK – NF**

---

**Without gas spring but accessories for installation of each type are included.**

---

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**Without gas spring but accessories for installation of each type are included.**

### NAAMS STANDARD

**Aerial Cam Unit**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Without gas spring but accessories for installation of each type are included.</td>
</tr>
<tr>
<td>NF</td>
<td>Without gas spring</td>
</tr>
<tr>
<td></td>
<td>Without coil spring</td>
</tr>
</tbody>
</table>

**Order**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gas Springs are not filled with nitrogen gas if delivery is by air freight.</td>
</tr>
</tbody>
</table>

**UCMSNR200 – 30 – GK – N**

**UCMSNR200 – 30 – GK – NF**

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>K</td>
<td>K500-63.5</td>
<td>Gas Spring (KALLER)</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>L500.063.138</td>
<td>Gas Spring (DADCO)</td>
</tr>
<tr>
<td>2</td>
<td>SM</td>
<td>SM500.63</td>
<td>Gas Spring (SDT)</td>
</tr>
<tr>
<td>3</td>
<td>ISO</td>
<td>JM50-178</td>
<td>Cal Spring (constant = 74.9N/mm)</td>
</tr>
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</table>

**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cam Slide</td>
<td>1</td>
<td>FC250</td>
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<tr>
<td>2</td>
<td>Cam Driver</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>3</td>
<td>Base Plate</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>4</td>
<td>Cam Holder</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>5</td>
<td>Cam Slide Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>6</td>
<td>Base Plate D-R</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>7</td>
<td>Base Plate D-L</td>
<td>1</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>8</td>
<td>Stopper</td>
<td>1</td>
<td>SS400(1020)</td>
</tr>
<tr>
<td>9</td>
<td>Positive Return Follower</td>
<td>2</td>
<td>S45C(1045)</td>
</tr>
<tr>
<td>10</td>
<td>Safety Plate</td>
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<td>SS400(1020)</td>
</tr>
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<td>11</td>
<td>Key A</td>
<td>4</td>
<td>SS400(1020)</td>
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<td>Key B</td>
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<tr>
<td>13</td>
<td>Stopper</td>
<td>1</td>
<td>Urethane</td>
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<td>14</td>
<td>Slide Plate</td>
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<td>15</td>
<td>Key C</td>
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<tr>
<td>16</td>
<td>Wear Plate</td>
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<td>VD5.0x200 x 12</td>
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<td>17</td>
<td>Slide Lock Plate</td>
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<td>SS400(1020)</td>
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<td>18</td>
<td>Spring Plate</td>
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<td>SS400(1020)</td>
</tr>
<tr>
<td>19</td>
<td>Spring</td>
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<td>Refer to the Spring Specification Table</td>
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</table>

**Guideline of spring durability** 500,000 strokes
Mark
Without gas spring but accessories for installation of each type are included.

NAAMS STANDARD
Aerial Cam Unit

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>N</td>
<td>16H7 dowel hole is drilled on the cam holder.</td>
</tr>
<tr>
<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
</tr>
</tbody>
</table>

- Applicable to GK, GD and GS only.
- Without gas spring
- Without coil spring

Without gas spring but accessories for installation of each type are included.

UCMSNR200-35 - GK - N
UCMSNR200-35 - GK - NF

Order
Catalog No. (W) (K) Travel
GK NGK GD NGD GS NGS ISO NISO

UCMSNR 200 35

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
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<tbody>
<tr>
<td>GK</td>
<td>K500-63.5</td>
<td>Gas Spring (KALLER)</td>
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</tr>
<tr>
<td>GD</td>
<td>L500.063.138</td>
<td>Gas Spring (DADCO)</td>
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</tr>
<tr>
<td>DS</td>
<td>SM500.63</td>
<td>Gas Spring (SDT)</td>
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<tr>
<td>ISO</td>
<td>T.JM50-178</td>
<td>Cal Spring (constant =74.9N/mm)</td>
<td></td>
</tr>
</tbody>
</table>

Spring Specification

Guideline of spring durability 500,000 strokes

Table of Components

- Bolts for assembly are not indicated.
Without gas spring but accessories for installation of each type are included.

**Aerial Cam Unit**

**NAAMS STANDARD**

### Option

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
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<tbody>
<tr>
<td>N</td>
<td>T 16H7 dowel hole is drilled on the cam holder.</td>
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<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GD and GS only.</td>
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**Order**

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<th>Specification</th>
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<td>UCMSNR200</td>
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**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cam Slider</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>2</td>
<td>Cam Driver</td>
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<td>FC250</td>
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<td>Cam Holder</td>
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<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Base Plate D-R</td>
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<td>SS400(1020)</td>
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<tr>
<td>5</td>
<td>Base Plate D-L</td>
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<td>SS400(1020)</td>
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<td>Cam Slide Guide</td>
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<td>SS400(1020)</td>
</tr>
<tr>
<td>7</td>
<td>Positive Return Follower</td>
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<td>SS400(1020)</td>
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<tr>
<td>8</td>
<td>Key A</td>
<td>4</td>
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<tr>
<td>9</td>
<td>Key B</td>
<td>2</td>
<td>SS400(1020)</td>
</tr>
<tr>
<td>10</td>
<td>Stopper</td>
<td>2</td>
<td>Urethane</td>
</tr>
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</table>

**Spring Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
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</thead>
<tbody>
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<td>Gas Spring (KALLER)</td>
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<td>Gas Spring (DADCO)</td>
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<td>50</td>
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<td>Gas Spring (SDT)</td>
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<td>51</td>
<td>ISO</td>
<td>TJ,M50-178</td>
<td>Cal Spring (carrier=11.8mm)</td>
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</tbody>
</table>

Guideline of spring durability: 500,000 strokes

Gas Springs are not filled with nitrogen gas if delivery is by air freight.

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**Aerial Cam Unit**

**NAAMS STANDARD**

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**Spring Specification**

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<thead>
<tr>
<th>No.</th>
<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
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<td>SM500.63</td>
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<td>4</td>
<td>T.JM50-178</td>
<td>Cal Spring (constant = 74.9N/mm)</td>
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Guideline of spring durability 500,000 strokes

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**Table of Components**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Cam Slider</td>
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<td>Cam Driver</td>
<td>1</td>
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</tr>
<tr>
<td>3</td>
<td>Cam Holder</td>
<td>1</td>
<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
<td>1</td>
<td>Bronze with Graphite</td>
</tr>
<tr>
<td>5</td>
<td>Base Plate D-R</td>
<td>1</td>
<td>S45C(1045)</td>
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<td>10</td>
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<td>11</td>
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<td>18</td>
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**Option**

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<tr>
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<th>Specification</th>
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</tr>
<tr>
<td>NF</td>
<td>Without gas spring</td>
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---

**UCMSNR200-45**

**Order**

- UCMSNR 200 – 45 – GK – N
- UCMSNR 200 – 45 – GK – NF

Without coil spring

---

**Backup**

- Bolts for assembly are not indicated.

---

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Mark
Without gas spring but accessories for installation of each type are included.

NAAMS STANDARD

Aerial Cam Unit

Option
Order Option Code Specification

N Dowel hole is drilled on the cam holder.

NF Nitrogen gas is not charged.

- Applicable to GK, GD and GS only.

Without gas spring
Without coil spring

Gas Springs are not filled with nitrogen gas if delivery is by air freight.

- Refer to the Spring Specification Table.

- Bolts for assembly are not indicated.

---

Table of Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Material and Remark</th>
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<td>Cam Slide</td>
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<td>FC250</td>
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<td>Cam Driver</td>
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<td>FC250</td>
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<td>FC250</td>
</tr>
<tr>
<td>4</td>
<td>Spring Guide</td>
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<td>Bronze with graphite</td>
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<td>Base Plate D-M</td>
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<td>S45C[1045]</td>
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<td>Cam Slide Guide</td>
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<td>Bronze with graphite</td>
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Without gas spring but accessories for installation of each type are included.

NAAMS STANDARD

Aerial Cam Unit

Option

Order

Option Code | Specification
--- | ---
N | 16H7 dowel hole is drilled on the cam holder.
NF | Nitrogen gas is not charged. Applicable to GK, GD and GS only.

Without gas spring
Without coil spring

UCMSNR200 – 55 – GK – N
UCMSNR200 – 55 – GK – NF

UCMSNR 200 55

GK *NGK
GD *NGD
GS *NGS
ISO *NISO

No. | Description | Qty | Material and Remark
--- | --- | --- | ---
1 | Cam Slider | 1 | FC250
2 | Cam Driver | 1 | FC250
4 | Cam Holder | 1 | FC250
5 | Spring Guide | 1 | Bronze with Graphite
6 | Base Plate D-H | 1 | S45C(1045)
7 | Base Plate D-L | 1 | S45C(1045)
8 | Stopper Plate | 1 | S45C(1045)
9 | Cam Slide Guide | 1 | Bronze with Graphite
10 | Positive Return Follower | 2 | S45C(1045)
12 | Safety Plate | 2 | SS400(1020)

UCMSNR 200

1607

Backup

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Without gas spring but accessories for installation of each type are included.

16101609

NAAMS STANDARD

Aerial Cam Unit

Option

Order

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UCMSNR 200 – 60 – GK – N
UCMSNR 200 – 60 – NGK – ISO *NISO

Without gas spring but accessories for installation of each type are included.

UCMSNR200 – 60 – GK – NF

Without coil spring

UCMSNR200 – 60 – NGK – ISO *NISO

Without coil spring

UCMSNR200 – 60 – NGK – ISO *NISO

Without gas spring

Gas Springs are not filled with nitrogen gas if delivery is by air freight.

UCMSNR 200 – 60 – NGK – ISO *NISO

Without gas spring

UCMSNR200 – 60 – NGK – ISO *NISO

Without coil spring

Order

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Option Code

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<td>16H7 dowel hole is drilled on the cam holder.</td>
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<td>NF</td>
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Cam Diagram

Spring Specification

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<th>Spring Type</th>
<th>Model</th>
<th>Remark</th>
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<tr>
<td>1</td>
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<td>ISO</td>
<td>T.JM50-178</td>
<td>Cal Spring (carton+4 Wrench)</td>
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Guideline of spring durability 500,000 strokes

Table of Components

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material and Remark</th>
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<td>1</td>
<td>FC250</td>
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<td>Cam Driver</td>
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<td>FC250</td>
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<td>Base Plate D-M</td>
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<table>
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Bolts for assembly are not indicated.

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