Die Mounted Cam Unit General Description of SVSC

- SVSC complies with the VDI-BAK specification.
  - Specification of Gas Spring complies with VDI3003.
- V-shaped guides.
- 50, 85, 110, 150, 220, 330mm and 400mm mounting widths are available.
- Available angle are 0° to 20° in increments of 5°.
- Designed to facilitate easy removal of gas spring. (Disassembly of cam is unnecessary)
- Heavy duty type: high working force / return force.
- Made-to-order product.

SVSC Specifications

<table>
<thead>
<tr>
<th>Mounting Surface</th>
<th>Working Angle</th>
<th>Travel</th>
<th>Working Force kN(tonf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>H</td>
<td></td>
<td>Standard Working Force (one million strokes)</td>
</tr>
<tr>
<td>50</td>
<td>75</td>
<td>55</td>
<td>29.4(3.0)</td>
</tr>
<tr>
<td>85</td>
<td>85</td>
<td>55</td>
<td>58.8(6.0)</td>
</tr>
<tr>
<td>110</td>
<td>05</td>
<td>70</td>
<td>117.7(12.0)</td>
</tr>
<tr>
<td>150</td>
<td>10</td>
<td>70</td>
<td>166.7(17.0)</td>
</tr>
<tr>
<td>220</td>
<td>15</td>
<td>80</td>
<td>245.2(25.0)</td>
</tr>
<tr>
<td>330</td>
<td>180</td>
<td>80</td>
<td>343.2(36.0)</td>
</tr>
<tr>
<td>400</td>
<td>300</td>
<td>80</td>
<td>431.5(44.0)</td>
</tr>
</tbody>
</table>

SVSC50/85 Structure and Assembly / Disassembly

1) Remove hexagon socket head bolt(5) and pull guide bar(6) from cam holder(7) 20mm to the rear. Remove the guide bar and cam slider(6). 3) Pull out the gas spring (SVSC 50:6, SVSC50:5).

Note) Only spring can be removed.

- Disassembly method of SVSC50/85
  1) Remove hexagon socket head bolt(5) and pull guide bar(6) from cam holder(7) 20mm to the rear. Remove the guide bar and cam slider(6).
  2) Pull and remove the guide bar from the cam slider.

- Assembly method of SVSC50/85
  1) Assemble components in the reverse order of disassembly.
  - Make sure that there is no foreign material on the sliding area and assemble components.
  - The clearance between the guide bar / cam slider and the cam holder is adjusted. Match the stamped serial number on the holder and slider before assembly.
  - After reassembling, please ensure that all bolts removed are re-installed and tightened.
Die Mounted Cam Unit  General Description of SVSC

![Diagram of SVSC110/150/220/330/400 Structure and Assembly / Disassembly]

**Disassembly method of SVSC110/150/220/330/400**
1. Remove hexagon socket head bolt(⑬) and remove stopper plate(⑿).
2. Pull and remove the cam slider(⑱) from the cam holder(⑲) to the rear.

**Assembly method of SVSC110/150/220/330/400**
1. Assemble components in the reverse order of disassembly.
   - Make sure that there is no foreign material on the sliding area and assemble components.
   - The clearance between the guide bar / cam slider and the cam holder is adjusted. Match the stamped serial number on the holder and slider before assembly.

Note) Only spring can be removed.
1. Remove hexagon socket head bolt(⑬).
2. Pull out the spring stopper(⑴).
3. Pull out the gas spring(⑮).

※ This figure shows SVSC110
Die Mounted Cam Unit

VDI-BAK STANDARD

Option Code Specification

K: Dedicated key is attached. (It is not assembled to the main unit)
NF: Nitrogen gas is not charged. Applicable to GK, GS and GD only.
V: Gas Spring is changed to Power type.

Order

SVSC110 – 10 – 70 – GK – NF – K
SVSC110 – 10 – 70 – GK – V

Spring Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Spring Force N(kgf)</th>
<th>Final Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>GK</td>
<td>6700 (683.7)</td>
<td>TU500-080(KALLER)</td>
</tr>
<tr>
<td>GD</td>
<td>6100 (622.4)</td>
<td>J-0800.0650.080(DADCO)</td>
</tr>
<tr>
<td>GS</td>
<td>6600 (673.5)</td>
<td>SPF-500.80(SDT)</td>
</tr>
</tbody>
</table>

Spring Specification(Qty 1)

<table>
<thead>
<tr>
<th>Model</th>
<th>Spring Type PS</th>
<th>Spring Force N(kgf)</th>
<th>Final Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>GK</td>
<td>11900 (1214.3)</td>
<td>X750-080(KALLER)</td>
<td></td>
</tr>
<tr>
<td>GD</td>
<td>11360 (1159.2)</td>
<td>J-0800.0650.080(DADCO)</td>
<td></td>
</tr>
<tr>
<td>GS</td>
<td>12150 (1239.8)</td>
<td>SFC-750.80(SDT)</td>
<td></td>
</tr>
</tbody>
</table>

Option

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>Dedicated key is attached. (It is not assembled to the main unit)</td>
</tr>
<tr>
<td>NF</td>
<td>Nitrogen gas is not charged. Applicable to GK, GS and GD only.</td>
</tr>
<tr>
<td>V</td>
<td>Gas Spring is changed to Power type.</td>
</tr>
</tbody>
</table>

Without gas spring but accessories for installation are included.

Catalog No.

SVSC 110 – 10 – 70 – GK

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## Die Mounted Cam Unit

### VDI-BAK STANDARD

#### Cam Diagram

**00°**

![Cam Diagram 00°](image)

**05°**

![Cam Diagram 05°](image)

**10°**

![Cam Diagram 10°](image)

**15°**

![Cam Diagram 15°](image)

**20°**

![Cam Diagram 20°](image)

#### Required space for removing

<table>
<thead>
<tr>
<th>Working Angle</th>
<th>J</th>
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<tbody>
<tr>
<td>00°</td>
<td>111</td>
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<tr>
<td>05°</td>
<td>109</td>
</tr>
<tr>
<td>10°</td>
<td>105</td>
</tr>
<tr>
<td>15°</td>
<td>101</td>
</tr>
<tr>
<td>20°</td>
<td>94</td>
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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>
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<tbody>
<tr>
<td>1</td>
<td>Cam Driver</td>
<td>1</td>
<td>GGG60(FCD600)</td>
</tr>
<tr>
<td>2</td>
<td>Slide Plate</td>
<td>1</td>
<td>Bronze With Graphite(VSM-31-SP2)</td>
</tr>
<tr>
<td>3</td>
<td>Slide Plate</td>
<td>1</td>
<td>Bronze With Graphite(VSM-31-SP2)</td>
</tr>
<tr>
<td>4</td>
<td>Cam Positive Return</td>
<td>2</td>
<td>S45C HRC28~</td>
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<tr>
<td>5</td>
<td>Cam Slider</td>
<td>1</td>
<td>GGG60(FCD600)</td>
</tr>
<tr>
<td>6</td>
<td>Slide Plate</td>
<td>1</td>
<td>SCM440(VSM-64-ST01)</td>
</tr>
<tr>
<td>7</td>
<td>Slide Plate</td>
<td>2</td>
<td>Bronze With Graphite(VSM-30-SP2)</td>
</tr>
<tr>
<td>8</td>
<td>Spring Stopper</td>
<td>2</td>
<td>S45C</td>
</tr>
<tr>
<td>9</td>
<td>Cam Holder</td>
<td>1</td>
<td>GGG60(FCD600)</td>
</tr>
<tr>
<td>10</td>
<td>Spring Block</td>
<td>1</td>
<td>S45C HRC55~</td>
</tr>
<tr>
<td>11</td>
<td>Cam Slide Guide(Lower)</td>
<td>1</td>
<td>S45C HRC55~</td>
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<tr>
<td>12</td>
<td>Keeper Plate</td>
<td>2</td>
<td>S45C HRC28~</td>
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<tr>
<td>13</td>
<td>Cam Slider Stopper</td>
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<td>14</td>
<td>Stopper</td>
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<td>Stopper</td>
<td>1</td>
<td>Urethane</td>
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<tr>
<td>16</td>
<td>Lock Spacer</td>
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<td>SS400</td>
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<tr>
<td>17</td>
<td>Gas Spring</td>
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<td>Refer to the Spring Specification Table.</td>
</tr>
<tr>
<td>18</td>
<td>Lock Spacer</td>
<td>2</td>
<td>SS400</td>
</tr>
</tbody>
</table>

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