Paper Trimming Nozzles

CMP-T series

| Structure |  • High-purity alumina ceramic orifice is inserted into a sleeve of strong engineering plastics.  
  • Comprises two parts: Nozzle and strainer. Worn-out nozzles can be replaced separately. |
|---|---|
| Material |  • Nozzle orifice: 99% alumina  
  • Sleeve: PA  
  • Metal parts: S303  
  • O-ring: NBR |
| Mass |  • Complete assemblies: 47 g  
  • Nozzle only: 40 g |

Complete assemblies

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

CTM series

| Structure |  • Includes a tungsten carbide orifice in the tip of the nozzle.  
  • Comprises two parts: Nozzle and adaptor-strainer. Worn-out nozzles can be replaced separately. |
|---|---|
| Material |  • Nozzle orifice: tungsten carbide  
  • Metal parts: S303 |

Complete assemblies

<table>
<thead>
<tr>
<th>Orifice diameter code</th>
<th>Nozzle thread size</th>
<th>Dimensions (mm)</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø0.2-Ø0.9</td>
<td>R1/8</td>
<td>L2 L3 H1 H2 ØD N2</td>
<td>54 92 10 17 10 11 39</td>
</tr>
<tr>
<td>Ø1.0-Ø1.5</td>
<td>R1/4</td>
<td>L1 H1 N1</td>
<td>52 90 14 17 10 11 47</td>
</tr>
</tbody>
</table>

Adaptor thread size (pipe connection size): ø R3/8

[Nozzle only]

<table>
<thead>
<tr>
<th>Orifice diameter code</th>
<th>Nozzle thread size</th>
<th>Dimensions (mm)</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø0.2-Ø0.9</td>
<td>R1/8</td>
<td>L1 H1 N1</td>
<td>40 10 7 16.5</td>
</tr>
<tr>
<td>Ø1.0-Ø1.5</td>
<td>R1/4</td>
<td>L2 N2</td>
<td>40 14 10.5 30</td>
</tr>
</tbody>
</table>

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

[Features]
- Extra fine and clear non-turbulent solid stream nozzles with high impact cutting force.

[Standard pressure]
1 MPa

[Applications]
- Trimming: Papermaking, asbestos plate
- Cutting: Timber, food
- Others: Cleaning of precision machine parts, injection of chemicals, deburring, foaming of beer (jet foamer)
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**CM series**

### CM series (with ceramic orifice inserted)

<table>
<thead>
<tr>
<th>Structure</th>
<th>Includes a ceramic orifice in the tip of the nozzle.</th>
<th>Comprises two parts: Nozzle and adaptor-strainer. Worn-out nozzles can be replaced separately.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Nozzle orifice: ceramic</td>
<td>Metal parts: S303 or B (brass)</td>
</tr>
</tbody>
</table>

#### [Complete assemblies]

<table>
<thead>
<tr>
<th>Orifice diameter code</th>
<th>Nozzle thread size</th>
<th>Dimensions (mm)</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø0.1~ø0.9</td>
<td>R1/8</td>
<td>L2 54, L3 92</td>
<td>10, 17, 10, 11</td>
</tr>
<tr>
<td>ø1.0~ø1.5</td>
<td>R1/4</td>
<td>L2 52, L3 90</td>
<td>14, 17, 10, 11</td>
</tr>
</tbody>
</table>

Adaptor thread size (pipe connection size) is R3/8.

#### [Nozzle only]

<table>
<thead>
<tr>
<th>Orifice diameter code</th>
<th>Nozzle thread size</th>
<th>Dimensions (mm)</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø0.1~ø0.9</td>
<td>R1/8</td>
<td>L1 40, L1 10</td>
<td>7, 16.5, 18</td>
</tr>
<tr>
<td>ø1.0~ø1.5</td>
<td>R1/4</td>
<td>L1 40, L1 14</td>
<td>10.5, 30, 33</td>
</tr>
</tbody>
</table>

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

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### CMP-T series (with alumina ceramic orifice inserted)

#### How to order

- Please inquire or order for a specific nozzle using this coding system.
  - **Complete assemblies**
    - Example) 3/8M CMP ø0.3T S303W
    - 3/8M CMP ø0.3T S303W
  - **Nozzle only**
    - Example) 3/8M CMP ø0.3T S303
    - 3/8M CMP ø0.3T S303

#### How to order

- Please inquire or order for a specific nozzle using this coding system.
  - **Complete assemblies**
    - Example) 3/8M CTM ø0.2 S303W (PM-Strainer ø10)
    - 3/8M CTM ø0.2 S303W (PM-Strainer ø10)
  - **Nozzle only**
    - Example) 1/8M CTM ø0.2 S303
    - 1/8M CTM ø0.2 S303

#### How to order

- Please inquire or order for a specific nozzle using this coding system.
  - **Complete assemblies**
    - Example) 3/8M CM ø0.1 S303 W (PM-Strainer ø10)
    - 3/8M CM ø0.1 S303 W (PM-Strainer ø10)
  - **Nozzle only**
    - Example) 1/8M CMP ø0.1 S303
    - 1/8M CMP ø0.1 S303

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*M* indicates male thread ("R" of the ISO standard) and *F* indicates female thread ("Rc" of the ISO standard), e.g. 1/8M = R1/8.