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VESUVIUS reserves the right to modify and/or improve the equipment as described and specified in this leaflet, at any time according to the state-of-art. LT80 - patent applied for in various countries.

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Compact gate - Large refractory products

For big size ladles and high casting rate

LT80 features

- **Productivity**
  - Faster ladle turnaround due to multiple heat practice
  - Longer service intervals for spring checking
- **Flexibility**
  - Available with separate lower plate and collector nozzle or with one piece lower plate-collector nozzle assembly
  - Flocon fixation pattern or fixation by bolts on external mounting blocks
  - Rear drive for operation in make-up area (optional)
- **Reliability**
  - Cantilever springs provide compensation for thermal plate expansion
  - Outboard heat resistant springs with extended check period
  - Rigid cross head to absorb vertical force - component of bell crank drive
  - Air cooling capability
- **Feasibility**
  - Easy and fast replacement for existing Flocon / Flogates installations
  - Reuse of existing ladle bottom and drive assembly
  - Stroke of 155-180mm (depending on application)
- **Refractory feature**
  - Type 5 refractory plate shape for optimized plate crack pattern
  - Reliable inner nozzle setting through positive stop ring
  - Removable positive stop ring for precise inner nozzle setting
- **Operation**
  - Easy plate clamping by eccentric cams
  - Simple and user friendly design
  - Hydraulic device for door opening and closing operation

<table>
<thead>
<tr>
<th>VESUVIUS LT80 Ladle Slide Gate</th>
<th>Model</th>
<th>per Typical Example</th>
<th>Stroke (mm)</th>
<th>Dimenstions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT80</td>
<td>up to 80</td>
<td>180</td>
<td>879 x 610 x 324</td>
<td>620</td>
<td></td>
</tr>
</tbody>
</table>

Base plate compatible with Flocon and Flogates gates

Cross head for bell crank force alignment

Elastic plate clamp to provide space for thermal plate expansion

Brushed elastic plate clamp to provide능 space for thermal plate expansion

Refactory components

- **Inner nozzle**
  - Positive stop shoulder design (15 kg)
- **Type 5 plate**
  - 441 x 230 x 45 mm (10 kg)
  - Banded or canned plates
- **Inner nozzle with positive stop**
  - Canned type 5 plate
- **Collector nozzle**
  - Exchangeable collector nozzle

Refractory characteristics

- **Inner nozzle**
  - Positive stop shoulder design (15 kg)
- **Type 5 plate**
  - 441 x 230 x 45 mm (10 kg)
- **Banded or canned plates**
- **Collector nozzle**
  - Detachable or integrated with lower plate (8-12 kg)

Plate crack control

Shape and clamping of refractory plates ensure that any cracks remain closed and kept outside the throttling path.

Slide gate preparation

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Compact gate - Large refractory products

For big size ladles and high casting rate

LT80 features

- **Productivity**
  > Faster ladle turnaround due to multiple heat practice
  > Longer service intervals for spring checking

- **Flexibility**
  > Available with separate lower plate and collector nozzle or with one-piece lower plate-collector nozzle assembly
  > Flocon fixation pattern or fixation by bolts on external mounting blocks
  > Rear drive for operation in make-up area (optional)

- **Reliability**
  > Cantilever springs provide compensation for thermal plate expansion
  > Outboard heat resistant springs with extended check period
  > Rigid cross head to absorb vertical force component of bell crank drive
  > Air cooling capability

- **Feasibility**
  > Easy and fast replacement for existing Flocon / Flogates installations
  > Reuse of existing ladle bottom and drive assembly
  > Stroke of 155-180mm (depending on application)

- **Refractory feature**
  > Type 5 refractory plate shape for optimized plate crack pattern
  > Reliable inner nozzle setting through positive stop ring
  > Removable positive stop ring for precise inner nozzle setting

- **Operation**
  > Easy plate clamping by eccentric cams
  > Simple and user-friendly design
  > Hydraulic device for door opening and closing operation

### LT80 bore (mm)
- **Model**
  - LT80 up to 80
- **Dimension**
  - Stroke: up to 80
  - Dimensions: 610 x 324
  - Weight: 620 kg

### VESUVIUS LT80 Ladle Slide Gate

![LT80 Ladle Slide Gate](image)

<table>
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<tr>
<th>Model</th>
<th>Typical bore (mm)</th>
<th>Stroke (mm)</th>
<th>Dimensions (mm)</th>
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**Base plate compatible with Flocon and Flogates gates**

**Elastic plate clamp to provide space for thermal plate expansion**

**Cross head for bell crank force alignment**

**Refractory components**

- **Inner nozzle**
  - Positive stop ring
- **Canned type 5 plate**
- **Type 5 plate with integrated collector nozzle**
- **Inner nozzle with positive stop**
- **Canned type 5 plate**
- **Banded or canned type 5 plates**

**Refractory characteristics**

- **Inner nozzle**
  - Positive stop shoulder design (15 kg)
- **Type 5 plates**
  - 441 x 230 x 45 mm (10 kg)
  - Banded or canned plates
- **Collector nozzle**
  - Detachable or integrated with lower plate (8-12 kg)

**Plate crack control**

Shape and clamping features of refractory plates ensure that any cracks remain closed and kept outside the throttling path.
for more information on this product and on our complete package of solutions please contact our local service center:

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