For more information on this product and on our complete package of solutions please contact our local service center:

VESUVIUS GROUP, S.A.
Rue de Douvrain, 17
7011 Ghlin, Belgium
Tel: +32 65 400 810
Fax: +32 65 311 474
e-mail: gh@vesuvius.com

VESUVIUS ADVANCED CERAMICS (SUZHOU) CO., LTD
221 Xing Ming Street
China Singapore Suzhou Industrial Park
Suzhou 215021, Jiangsu Province
P.R. of China
Tel.: +86 512 6741 2088
Fax: +86 512 6741 1700

VESUVIUS USA CORP.
1404 Newton Drive
Champaign, IL 61822
USA
Tel: +1 217 301 9000
Fax: +1 217 301 9011

VESUVIUS IBERICA, LTDA
Av. Brasil 6350
Distrito Industrial de Palmares
CEP 23065-480-Campo Grande
Rio de Janeiro, Brazil
Tel: +55 21 2414 0600
Fax: +55 21 2414 0648

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. SYS120—patent applied for in various countries.

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FLOWS CONTROL SYSTEMS
FLUXES
PURGING PLUGS
SLIDE GATE REFRactories
VAPEX PRODUCTS
VIso PRODUCTS

SYS 120
Nozzle Changer
Nozzle Changer

The SYSTEM 120 is a user friendly and safe nozzle changing device available for billet, bloom and beam blank casters.

SYSTEM 120 features:
- Reduced tundish costs (refractory, manpower, energy)
- Increased casting yield
- Improved caster utilization
- Improved operational safety

Productivity
- Extended sequence length per tundish
- Less tundish changes
- Higher average casting speed

Flexibility
- Change of nozzle diameter and/or casting speed whenever required
- Cast interrupt/start of individual strands on demand

Reliability
- Easy and safe operation
- Safe nozzle exchange in < 0.2 sec.
- Safe emergency shut off by standby blank plate

Design
- Study main frame remains attached to the tundish
- Clamping ring for Top Plate / Well Nozzle
- 3x2 individual spring loaded rockers provide constant clamping force between nozzle plates
- High temperature resistant springs
- 3x2 individual spring fingers provide constant clamping force between nozzle plates
- Easy removable spring housing assembly
  (remove for installation of Top Plate / Well Nozzle)

VESUVIUS SYSTEM 120 Nozzle Changer

<table>
<thead>
<tr>
<th>TYPE</th>
<th>TYPICAL BORE (mm)</th>
<th>STROKE (mm)</th>
<th>DIMENSIONS (mm)</th>
<th>MECHANISM</th>
<th>WEIGHT (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rocker version</td>
<td>12 to 25</td>
<td>120</td>
<td>530 x 306 x 135</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>Spring Finger version</td>
<td>12 to 25</td>
<td>120</td>
<td>530 x 350 x 135</td>
<td>68</td>
<td></td>
</tr>
</tbody>
</table>

Refractory components
- Top Plate / Well Nozzle plate designed for long sequence casting beyond 90 hours
- Top Plate / Well Nozzle is installed / removed by means of the tundish tilter

User friendly tundish preparation

Fast refractory setup, easy mounting and removal from the tundish.

Tundish rotator facilitates the installation / removal of the refractory
Light weight spring housings do not require additional handling equipment
Only 1 (one) fixation bolt each spring housing
Top Plate / Well Nozzle removed with steel skull
Self-alignment of refractory components
Well zone in tundish lining completed by ramming material & fixture

The SYSTEM 120 is available with left or right side nozzle plate loading

SYSTEM 120 Tundish Installation