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Advanced shroud exchange mechanism
For high productivity and quality demanding slab casters

VESUVIUS SEM3085 Tube Changer

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical bore (mm)</th>
<th>Stroke (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>SEM3085</td>
<td>Ø 85</td>
<td>392 (300 + 92)</td>
<td>1214 x 725 x 263</td>
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</tbody>
</table>

MTSP
Monoblock Tundish Shroud Plate
MTNP
Monoblock Tundish Nozzle Plate

Refractory components

Refactory characteristics
- Optimized contact pressure distribution through scientific tools
- MTSP with extended shutoff zone
- Bore size: Ø 90 mm equivalent max.
- Finning resistant tube change
- Automatic gas connection
- Porous ring for inter-plate shielding
- Sturdy metallic enclosure

Improved access and visibility
Casting strand
Strand shutoff by over-stroke

Optimized sealing at sliding joint
The optimized pressure distribution between the MTNP and the MTSP ensure the best inter-plate tightness

Improved access and visibility
Strand shutoff by over-stroke

Twisted bore technology to reduce vacuum at sliding joint

Higher contact pressure
Advanced shroud exchange mechanism

For high productivity and quality demanding slab casters

SEM3085 features

Tightness (steel quality)
- Optimized contact pressure distribution for improved tightness
- Twisted bore technology to reduce vacuum at sliding joint
- Self tightening argon connections and hard piped argon channels for reduced air contamination

Productivity
- Sturdy design for heavy duty performance during long sequences

Emergency shutoff
- Enhanced shutoff ability due to double stroke concept
- Shutoff capability during tube exchange operation
- No blank plate requirement during casting operation

Ergonomics
- Improved setting procedures for refractory components
- Fast and accurate self alignment of the tundish shroud
- Improved mould access and visibility for operators
- Fully automatic tube change capability (robotic operation)

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| COMPUTER MODELING OF CONTACT PRESSURE DISTRIBUTION |
|---|---|
| EXPERIMENTAL CONTACT PRESSURE DISTRIBUTION (Mechanical paper sensor) |

Twisted bore technology to reduce vacuum at sliding point

Improved productivity and quality demanding slab casters

SEMS085 features

- Optimized contact pressure distribution for improved tightness
- Twisted bore technology to reduce vacuum at sliding joint
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Shroud Exchange Mechanism