**How it works**

The ACD / Aluminium Compact Degasser® is a multi-stage, sealed in-line rotary degassing equipment that processes molten aluminium using spinning nozzles directly in the casting trough between the furnace and the casting pit.

The ACD is much smaller and flexible than conventional in-line degassers (with refractory-lined steel boxes). Although the physical, mechanical and operational differences between the ACD and conventional degassers are significant, the underlying metallurgical principles involved in metal treatment are the same.

Since there is no metal hold up in the machine at the end of a cast, alloy changes are much easier, and no heating is required. Then, the operating and maintenance costs of the ACD are lower than for any other type of degasser on the market.

The ACD is particularly effective for applications such as batch casting or when multiple alloy changes are required.

**Key features**

- **Metal Quality Improvement**
  - High hydrogen removal efficiency.
  - Average alkali and inclusion removal efficiency.

- **Productivity Improvement**
  - Operates in sealed mode; very little dross formation.
  - Eliminates metal loss due to alloy changes; furthermore, no need to remelt aluminium.
  - Eliminates the need to maintain molten aluminium between casts in the degassing chamber.
  - Operator-friendly, easy to operate, fully automatic operation.
  - Low floor space required for installation (several models available).

- **Low Operation and Maintenance Costs**
  - Eliminates high-cost heating elements and thermocouples.
  - Eliminates high costs for replacement of refractory lining.
  - Reduces energy consumption.
  - Reduces casting downtime for maintenance.
  - Significantly reduces overall O&M costs.

- **Safe Operating Environment**
  - Elimination of chlorine, if required, through the use of the FFD / Flux Feeder Device®.
  - Compliance with U.S. Secondary MACT emission standards.

**Models available**

2 to 8 rotor systems available for treatment of various metal flow rates from 20 up to 1500 kg/min. Custom designed retraction systems are available.

**Typical specifications**

<table>
<thead>
<tr>
<th>Models</th>
<th>Main unit Overall dimensions</th>
<th>Argon gas</th>
<th>Chlorine gas (if required)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length (mm)</td>
<td>Width (mm)</td>
<td>Height (mm)</td>
</tr>
<tr>
<td>ACD 2 rotors</td>
<td>1200</td>
<td>2000</td>
<td>3200</td>
</tr>
<tr>
<td>ACD 4 rotors</td>
<td>1805</td>
<td>2150</td>
<td>3500</td>
</tr>
<tr>
<td>ACD 6 rotors</td>
<td>2600</td>
<td>2300</td>
<td>3600</td>
</tr>
<tr>
<td>ACD 8 rotors</td>
<td>3500</td>
<td>2300</td>
<td>3600</td>
</tr>
</tbody>
</table>

* Models with standard retraction system

* Power requirement: 10 kVA, 415 or 575 V, 3 phases, 50/60 Hz