**Alpha Column System**

**Description**

The Alpha Column is a lifting device for the continuous height adjustment of assembly tables, medical equipment, audio visual displays etc.

Due to the well designed anodised aluminium profile the column does not need any other external panelling.

The Alpha column is available in two sizes “Medium” and “Large”. Due to increased dimensions the “Large” version is able to take higher overhung loads.

Load Capacity up to 10,000N at 5mm/s and a maximum travel length of 1000mm. Special stroke lengths on request.

**Features**

- Adjusted sliding guides guarantee zero backlash, even after years of operation
- Assembly dimensions can be adjusted by ± 3mm
- Integrated limit switches
- Self locking, even under maximum load
- Compressive and tensile forces
- Attractive design, anodised aluminium
- Smooth surface for easy cleaning
- Single unit or synchronised controls
Dimensions

Technical Data

Standard Column

Voltage 24VDC for Standard 120/230VAC
Controller 5A maximum
Current IP40
Protection -10°C to + 75°C
Ambient Temperature 1000N, 2000N, 3000N
Load Capacity

Heavy Duty Column

Voltage 24VDC – 48VDC
Controller 120/230VAC
Current 10A maximum
Protection IP40
Ambient Temperature -10°C to + 75°C
Load Capacity 2000N, 5000N, 10,000N

<table>
<thead>
<tr>
<th>Dimension</th>
<th>ACM “Medium”</th>
<th>ACL “Large”</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>150</td>
<td>190</td>
</tr>
<tr>
<td>B</td>
<td>130</td>
<td>170</td>
</tr>
<tr>
<td>C</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>D</td>
<td>128</td>
<td>163</td>
</tr>
<tr>
<td>E</td>
<td>114</td>
<td>145</td>
</tr>
<tr>
<td>F</td>
<td>100</td>
<td>128</td>
</tr>
</tbody>
</table>
**Duty Cycle**
The lifting columns are designed for intermittent service. The maximum operating time under normal load may not exceed 20% (2 minutes operation, 8 minutes rest).

**Over Hung Load**
Medium Units – 250Nm
Large Units – 450Nm
Heavy Duty Alpha Column Large Data

**Speed / force**

- F max = 2000 N
- F max = 5000 N
- F max = 10000 N

**24 VDC: Current / force**

- F = 2000 N, I = 1.36 A
- F = 5000 N, I = 2.87 A
- F = 10000 N, I = 4.37 A