Spindle drives
## OVERVIEW OF SPINDLE DRIVES

<table>
<thead>
<tr>
<th>Type</th>
<th>Form</th>
<th>Model</th>
<th>Stroke</th>
<th>Force</th>
<th>Speed</th>
<th>Stroke in</th>
<th>Cut-off current</th>
<th>Use</th>
<th>Location</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA</td>
<td>S3</td>
<td>24</td>
<td>100–1200</td>
<td>600</td>
<td>6,0</td>
<td>6,0</td>
<td>350</td>
<td>0,8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA</td>
<td>S12</td>
<td>24</td>
<td>600–600</td>
<td>600</td>
<td>6,0</td>
<td>6,0</td>
<td>350</td>
<td>0,8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA8</td>
<td>S3</td>
<td>24</td>
<td>100–1200</td>
<td>800</td>
<td>10,0</td>
<td>10,0</td>
<td>600</td>
<td>1,4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA8</td>
<td>S12</td>
<td>24</td>
<td>100–800</td>
<td>800</td>
<td>10,0</td>
<td>10,0</td>
<td>600</td>
<td>1,4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA10</td>
<td>S12</td>
<td>24</td>
<td>100–1200</td>
<td>1000</td>
<td>12,6</td>
<td>12,6</td>
<td>750</td>
<td>2,5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA10</td>
<td>S12</td>
<td>24</td>
<td>100–1200</td>
<td>1000</td>
<td>4,6</td>
<td>4,6</td>
<td>250</td>
<td>1,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA10</td>
<td>S12</td>
<td>24</td>
<td>100–1200</td>
<td>1000</td>
<td>4,6</td>
<td>4,6</td>
<td>250</td>
<td>1,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA16</td>
<td>S12</td>
<td>24</td>
<td>100–1200</td>
<td>1600</td>
<td>7,0</td>
<td>7,0</td>
<td>400</td>
<td>2,5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA16</td>
<td>S12</td>
<td>24</td>
<td>100–1200</td>
<td>1600</td>
<td>4,0</td>
<td>4,0</td>
<td>240</td>
<td>1,2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS</td>
<td>S12</td>
<td>24</td>
<td>300–1200</td>
<td>1500</td>
<td>16,0</td>
<td>16,0</td>
<td>950</td>
<td>4,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS30</td>
<td>S12</td>
<td>24</td>
<td>300–1200</td>
<td>2000</td>
<td>7,8</td>
<td>7,8</td>
<td>450</td>
<td>5,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS50</td>
<td>S12</td>
<td>24</td>
<td>200–750</td>
<td>5000</td>
<td>4,0</td>
<td>4,0</td>
<td>240</td>
<td>4,2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>S2</td>
<td>24</td>
<td>100–750</td>
<td>800</td>
<td>7,0</td>
<td>7,0</td>
<td>400</td>
<td>1,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>S2</td>
<td>230</td>
<td>300–750</td>
<td>800</td>
<td>7,0</td>
<td>7,0</td>
<td>400</td>
<td>0,2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

- **suitable**
- **not recommended**

- **S2** Internal load dependent cut-off switch
- **S3** Internal load dependent cut-off switch, post cycle resistant, programmable for motion monitoring (up to 300 mm stroke) and sequence control
- **S12** Internal Intelligent Control Electronics for synchronised run and programmable functions
- **only with external modules (cut-off switch system, synchronisation module, sequence control module)**

**Technical Details**

- **Type of cut-off**
- **Rated voltage**
- **Range**
- **Cut-off current**
- **Natural ventilation**
- **Facade**
- **Roof**
- **Run monitoring**
- **Sequence control**
- **Max. pushing force**
- **Max. pulling force**
## TECHNICAL DATA OF SPINDLE DRIVES

### PLA SPINDLE DRIVES
- Model: 24V DC, S3 and S12
- Pulling force: 600–1600 N (type depending)
- Stroke length: 100–1200 mm
- Speed: 4.0–12.5 mm/s (type depending)
- Housing (DxL): D=36 mm, length depends on stroke
- Opening mechanism: stainless steel spindle tube
- Versions: SOLO, Tandem, Synchro
- Protection rating: IP65

### PLS SPINDLE DRIVES
- Model: 24V DC, S12
- Pulling force: 1500–5000 N
- Stroke length: 300–1200 mm
- Speed: 4.0–17.0 mm/s (type depending)
- Housing (DxL): D=50/60 mm, length depends on stroke
- Opening mechanism: stainless steel spindle tube
- Versions: SOLO, Tandem, Synchro
- Protection rating: IP54

### SP SPINDLE DRIVES
- Model: 24V DC, S2/230V AC, S2
- Pulling force: 800 N
- Stroke length: 100–750 mm (230V AC: 300–750)
- Speed: 7.0 mm/s
- Housing (DxL): 43x76 mm, length depends on stroke
- Opening mechanism: aluminium spindle tube
- Versions: SOLO, Z with feedback contact
- Protection rating: IP54/IP65