Traffic Regulation Installations come in all shapes and sizes. From the largest bespoke Gantries to Cantilevers and push button poles. Sapa Pole Products has developed a range of Traffic Signal Poles, called Punch, that are suitable for all kinds of traffic situations.

The advantages of the Sapa Punch are:

- **Light weight aluminium**, easy to install;
- **50 year** design life;
- **Low level access door** as standard, remove high level electrical connections to low level;
- **Passively Safe**, FULLY crash tested and endorsed by a Notified Body – NE2 rating – see certification;
- **Sustainable**, the product is Carbon Neutral;
- **Raise and Lower** versions overcome the problems of the Working at Height regulations;
- **Large stocks** of all column types in U.K.: 2m, 4m, 6m, 6m wide based, 6m raise and lower, 4m cranked.
D145 + D165 can be supplied with shear-off inside to reach 70NE3 or 100NE3. D165 can also be upgraded to bigger diameters up to d250 if more strength is needed. In those cases a shear-off inside the column is always needed to become passive safe (class 70NE3/100NE3).

**Punch Selection Matrix**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dm</td>
<td>114-120</td>
<td>114-145</td>
<td>114-145 cr*</td>
<td>145-165**</td>
</tr>
<tr>
<td>M</td>
<td>2</td>
<td>4/6</td>
<td>4,2</td>
<td>4,2/6</td>
</tr>
<tr>
<td>Passive Safety classes</td>
<td>70NE2</td>
<td>70NE2</td>
<td>70NE2</td>
<td>70NE2</td>
</tr>
<tr>
<td></td>
<td>100NE2</td>
<td>100NE2</td>
<td>100NE2</td>
<td>100NE2</td>
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<tr>
<td>Max. bending moment Mu</td>
<td>3,5</td>
<td>6,5</td>
<td>6,5</td>
<td>8,5</td>
</tr>
</tbody>
</table>

* Cranked pole (swan neck)
** D145 + D165 can be supplied with shear-off inside to reach 70NE3 or 100NE3. D165 can also be upgraded to bigger diameters up to d250 if more strength is needed. In those cases a shear-off inside the column is always needed to become passive safe (class 70NE3/100NE3).
*** Raise and Lower version optional

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**Technical specifications**

- Retro-fit into a standard 114mm Ground Socket – 145mm above ground to enable standard door size to be used (protected solution);
- Door equipped with twin flush-fit locks (anti-vandal optional);
- Finishes: available in a range of RAL finishes, typically Grey/Black or Brushed finish;
- Factory drilled for signal heads on four axis (0, 90, 180, 270 degree);
- Equipped with its own removable top cap to aid installation and provide protection against water ingress;
- Raise and Lower versions are designed for SEPERATE PBU units only;
- CCTV - Raise and Lower versions available;
- The poles are fitted with a vented top cap.

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**Give the green light** to Traffic Signal Poles, the Punch of Sapa

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**Sapa Pole Products**

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