A powerful machine that meets any surface finishing challenge

Trowal circular vibrators are universal finishing machines which can be utilized for treating a wide range of different parts. They are employed for aggressive deburring and radiusing (edge breaking) as well as for high gloss polishing of delicate work pieces, i.e. their applications range from aggressive cut down all the way to generating pre-plate surface finishes. Trowal circular vibrators can be utilized as cost efficient “stand-alone” units. However, they can be easily automated allowing their integration into interlinked, fully automatic manufacturing systems.

The CB circular vibrators – the latest technical equipment development from Trowal – are powerful machines that meet the most stringent requirements with regard to surface finish, productivity and reliability. The spiral bottom processing channel with continuous ascent over more than 180° and the sturdy vibratory drive ensure gentle and, at the same time, aggressive processing of the parts with an exceptionally high metal removal rate. Central feature of the CB machines is the gate clearing system that prevents media and parts getting pinched between the separation flap and the work bowl bottom, when the flap is lowered at the beginning of the media/parts separation cycle: The gate area is cleared of all media and parts so that the separation flap can be lowered without the risk of any residual media or parts getting caught. Customers can choose from 8 different models with work bowl volumes ranging from 100 liters up to 1,800 liters.
The Trowal CB circular vibrators are among the most modern and powerful vibratory systems available in the market. Their design incorporates more than 60 years of experience in vibratory finishing.

- With their sturdy steel construction and powerful vibratory drive the CB machines are ideally suited for heavy-duty 24/7 operation including ball burnishing applications and pressure deburring with steel media.
- By preventing any part lodging during the finishing process, the gate clearing feature (optional) makes the CB machines perfect for fully automatic operation.
- Easy and quick exchange of separation screens.
- Lifetime lubrication of the vibratory drive (except for CB 100).
- The part in-feed chute built into the outer wall of the work bowl facilitates integration of the CB machines into fully automatic manufacturing processes.

** Accessories**
- Noise dampening lids.
- Various types of compound dosing systems.
- Magnetic separators.
- Various types of drying equipment, etc.

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**Specifications**

<table>
<thead>
<tr>
<th>Gross volume of work bowl (l)</th>
<th>CB 100</th>
<th>CB 200</th>
<th>CB 300</th>
<th>CB 400</th>
<th>CB 600</th>
<th>CB 800</th>
<th>CB 1200</th>
<th>CB 1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable volume (l)*</td>
<td>100</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1,200</td>
<td>1,800</td>
</tr>
<tr>
<td>Max. work piece dimension (mm)**</td>
<td>83</td>
<td>125</td>
<td>190</td>
<td>260</td>
<td>345</td>
<td>470</td>
<td>700</td>
<td>1,050</td>
</tr>
<tr>
<td>Total screen area (cm²)</td>
<td>1,960</td>
<td>2,190</td>
<td>2,710</td>
<td>3,270</td>
<td>4,000</td>
<td>4,900</td>
<td>6,300</td>
<td>7,500</td>
</tr>
<tr>
<td>Drive power at 1,500 RPM</td>
<td>1.5 kW</td>
<td>4.0 kW</td>
<td>4.0 kW</td>
<td>7.0 kW</td>
<td>7.0 kW</td>
<td>8.0 kW</td>
<td>11.0 kW</td>
<td>11.0 kW</td>
</tr>
<tr>
<td>Speed range (RPM)***</td>
<td>Infinitely adjustable up to 1,800 RPM **</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. centrifugal force (N)</td>
<td>21,500</td>
<td>49,000</td>
<td>49,000</td>
<td>49,000</td>
<td>82,000</td>
<td>100,000</td>
<td>142,000</td>
<td>250,000</td>
</tr>
<tr>
<td>Total weight, empty (kg)</td>
<td>510</td>
<td>740</td>
<td>1,020</td>
<td>1,190</td>
<td>1,435</td>
<td>2,110</td>
<td>2,650</td>
<td>4,400</td>
</tr>
</tbody>
</table>

**Accessories**

- Magnetic separator
- Vibratory driers

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Dimensions in mm

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