Spiral dewaterer SDC

Metso spiral dewaterer consists basically of an open trough with arrangements for collection of the products. The inlet flow is evenly spread out by means of a feed distributor. Coarse material settles and is continuously removed by means of the transport spiral. The material will be dewatered by drainage in the upper part of the spiral before discharge. The discharge launder for the dewatered material is easily adjusted between two positions, allowing alternative discharge into two separate bins.

Spiral dewaterer model – SDC
Metso Spiral Dewaterer Model SDC is a new development of the spiral dewaterer model SD.

The spiral dewaterer with special designed spiral and enlarge pool area is able to handle large flows of effluents, offering a well dewatered mill scale product and a clear overflow (typically 100 ppm).

Main benefits of the SDC dewaterers:
• Competitive price
• Assembly and installation friendly
• Fewer components
• New inclined plate pack design
• High strength
• "Self supporting"

Main features of the SDC dewaterers:
• Separate bolted assembly details designed for easy erection
• No assembly welding at erection
• No after work such as painting
• Easy erected components prepared with fixed lifting points
• One plate package with straight vertical fit
• Part dimensions suitable for 40’ container transport

Service platforms
Optional service platforms and stairs can be provided to suit local conditions.

Inclined plate packs
In order to increase the sedimentation area of the tank, the spiral dewaterer can be supplied with inclined plate packs. The plates are arranged in two steel frames, easy to remove if required.

Hydraulic spiral lifting device
If discharge of solids is intermittent whilst the feed is continuous, a hydraulic spiral lifting device can be supplied as an option.
**Standard options:**
1. Stairs and service platform
2. Oil Skimmer
3. Manual decanter

**Bearings**
The submerged bearing assembly is of grease purged type and is lubricated every second week. The lower end bearing pack can be disassembled and replaced without lifting the spiral out of the tank. The upper end of the spiral is provided with lower end bearing pack can be disassembled and replaced without lifting the spiral out of the tank. The upper end of the spiral is provided with a spherical roller bearing in a standard bearing housing.

<table>
<thead>
<tr>
<th>Model</th>
<th>H mm (inch)</th>
<th>L mm (inch)</th>
<th>W mm (inch)</th>
<th>Power kW/hp</th>
<th>Weight nominal ton (empty)</th>
<th>Tank volume m³ (ft³)</th>
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<tbody>
<tr>
<td>SDC45-3</td>
<td>3450 (136)</td>
<td>6700 (264)</td>
<td>2000 (79)</td>
<td>1.5 (2)</td>
<td>2,3</td>
<td>1.4/1.8 (49/64)</td>
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<tr>
<td>SDC45-5</td>
<td>3450 (136)</td>
<td>6700 (264)</td>
<td>2150 (85)</td>
<td>1.5 (2)</td>
<td>2,5</td>
<td>3,5/4,2 (123/148)</td>
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<tr>
<td>SDC45-7</td>
<td>3450 (136)</td>
<td>6700 (264)</td>
<td>2200 (87)</td>
<td>1.5 (2)</td>
<td>2,7</td>
<td>5,9 /6,6 (208/233)</td>
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<tr>
<td>SDC60-10</td>
<td>4550 (179)</td>
<td>9200 (362)</td>
<td>2620 (103)</td>
<td>1.5 (2)</td>
<td>6,5</td>
<td>10/13 (353/459)</td>
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<tr>
<td>SDC60-20</td>
<td>5550 (218)</td>
<td>11550 (455)</td>
<td>3520 (139)</td>
<td>3 (4)</td>
<td>9,5</td>
<td>25/30 (883/1059)</td>
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<td>SDC60-40</td>
<td>6450 (254)</td>
<td>14100 (555)</td>
<td>4880 (192)</td>
<td>4 (4)</td>
<td>17</td>
<td>60/70 (2119/2472)</td>
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<tr>
<td>SDC60-100</td>
<td>6450 (254)</td>
<td>14100 (555)</td>
<td>4880 (192)</td>
<td>4 (5)</td>
<td>18,5</td>
<td>60/70 (2119/2472)</td>
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<tr>
<td>SDC60-200</td>
<td>6450 (254)</td>
<td>14100 (555)</td>
<td>4880 (192)</td>
<td>4 (5)</td>
<td>19</td>
<td>60/70 (2119/2472)</td>
</tr>
</tbody>
</table>

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