The GEA Westfalia Separator eagle class separator has been designed for the continuous treatment of fuel oil and lube oil in diesel engine and gas turbine power plants as well as in off-shore installations. The separator easily removes impurities (e.g. sand, rust, water) from the oil providing a clean fluid which meets the quality requirements for safe power plant operation.

**Materials of construction**
- Frame: Grey cast iron
- Hood: Silumin
- Main bowl parts: Stainless steel

**Standard equipment**
- 3-phase AC motor
- Rubber cushions with welding plates
- Flexible feed and discharge lines
- Pressure gauge and transmitter

**Additional equipment (at extra cost)**
- Motor control
- Control unit for automatic operation
- Pump
- Pre-heater
- Automatic steam valve
- Shut-off valve
- Controls for electric heaters
- Set of tools and spare parts
- Vibrocontrol
- Product temperature monitoring
- Flow indicator
- 3/2-way valve
- Pressure discharge of heavy phase
- All separation systems are available as ready-to-connect modules

**Your benefits**
- Reduced operating costs resulting from longer engine and component life, fewer oil change intervals and disposal volumes
- High throughput capacities
- High separation efficiency thanks to GEA Westfalia Separator softstream inlet
- Controlled and rapid solids ejection due to GEA Westfalia Separator hydrostop
- Minimized weight, space requirement and energy consumption
- Easy maintenance and operation
- Low noise level due to the belt drive
The eagleclass separator is equipped with a self-cleaning disc type bowl which can be optionally used for the clarification and purification of fuel oil and lube oil. The product (1) is fed in through a system of closed lines. The separated light (2) and heavy (5) liquid phases are pressure discharged via centripetal pumps (6, 7). The centrifuge operates with regulating rings for the heavy phase.

1 Dirty oil feed / displacement water feed
2 Clean oil discharge
3 Pressure gauge
4 Pressure transmitter
5 Dirty water discharge
6 Centrifugal pump, dirty water
7 Centrifugal pump, clean oil
8 Separating disc
9 Sludge holding space
10 Sludge discharge
11 Operating water discharge
12 Operating water feed

**Technical data**

<table>
<thead>
<tr>
<th>OSE 5</th>
<th>OSE 10</th>
<th>OSE 20</th>
<th>OSE 40</th>
<th>OSE 80</th>
<th>OSE 120</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-phase AC motor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating (50 Hz)</td>
<td>up to 4 kW</td>
<td>up to 4 kW</td>
<td>up to 7.5 kW</td>
<td>up to 18.5 kW</td>
<td>up to 45 kW</td>
</tr>
<tr>
<td>Rating (60 Hz)</td>
<td>up to 4.6 kW</td>
<td>up to 4.6 kW</td>
<td>up to 8.6 kW</td>
<td>up to 21 kW</td>
<td>up to 46 kW</td>
</tr>
<tr>
<td>Speed at 50 Hz</td>
<td>3000 rpm</td>
<td>3000 rpm</td>
<td>3000 rpm</td>
<td>3000 rpm</td>
<td>1500 rpm</td>
</tr>
<tr>
<td>Speed at 60 Hz</td>
<td>3600 rpm</td>
<td>3600 rpm</td>
<td>3600 rpm</td>
<td>3600 rpm</td>
<td>1800 rpm</td>
</tr>
<tr>
<td>Design</td>
<td>IM V1</td>
<td>IM V1</td>
<td>IM V1</td>
<td>IM V1</td>
<td>IM V1</td>
</tr>
<tr>
<td>Enclosure</td>
<td>IP 55</td>
<td>IP 55</td>
<td>IP 55</td>
<td>IP 55</td>
<td>IP 55</td>
</tr>
</tbody>
</table>

**Weight and shipping data**

| Separator weight | 150 kg (331 lb) | 205 kg (452 lb) | 320 kg (705 lb) | 1060 kg (2337 lb) | 1620 kg (3571 lb) | 3000 kg (6614 lb) |
| Case dimensions (LxWxH) | 1100x600x1000 mm | 1280x700x1030 mm | 1300x870x1030 mm | 1800x1000x1400 mm | 1800x1050x1600 mm | 2000x1500x2100 mm |
| Shipping volume | 0.66 m³ | 0.92 m³ | 1.17 m³ | 2.5 m³ | 3.0 m³ | 6.0 m³ |

**Dimensions**

<table>
<thead>
<tr>
<th>AxBxC</th>
<th>760x401x759 mm</th>
<th>846x544x880 mm</th>
<th>1005x550x1009 mm</th>
<th>1283x737x1288 mm</th>
<th>1611x867x1503 mm</th>
<th>1778x1190x1942 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 x 16 x 30 in</td>
<td>33 x 21 x 35 in</td>
<td>40 x 22 x 40 in</td>
<td>51 x 29 x 51 in</td>
<td>63 x 34 x 59 in</td>
<td>69 x 46 x 76 in</td>
</tr>
</tbody>
</table>

**Frame, hood and drive**

The separator of enclosed design is driven by a 3-phase AC motor. Power is transferred to the bowl spindle via a centrifugal clutch and a flat belt. All bearings are splash-lubricated from a central oil bath.