

Take the Best – Separate the Rest

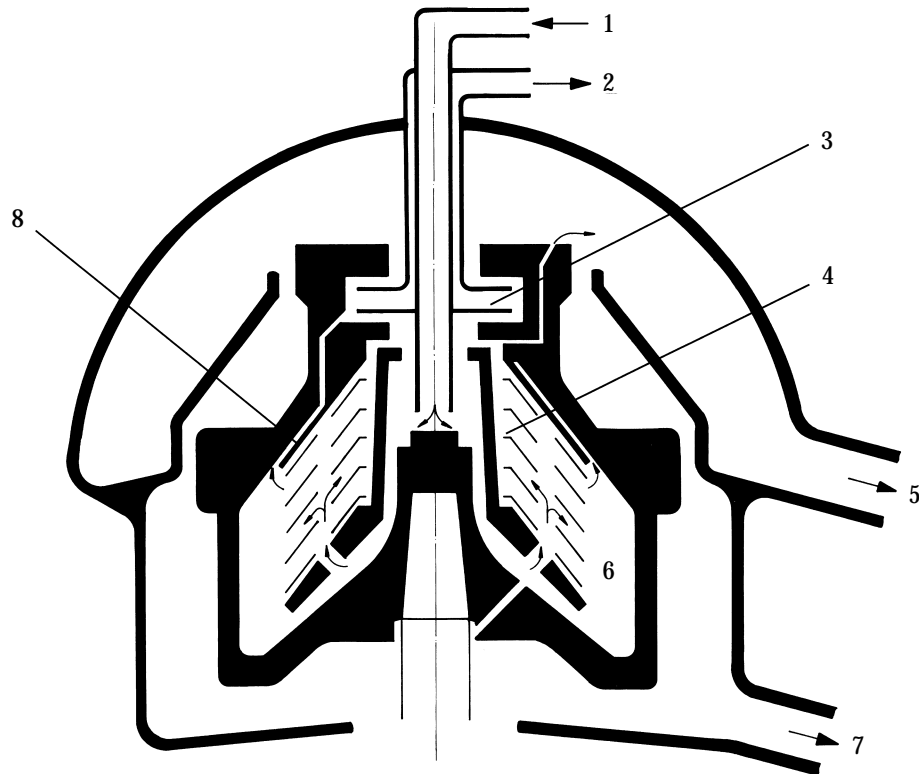


**OTB 9
Purifier**
with solid-wall bowl
OTB 9-03-006

Function
Purification of cooling oil
emulsions and wash water,
oil-water mixtures, etc.

Application
Automotive industry,
engineering works,
rolling mills, disposal plants

Operating principles and constructional features



- 1 Product feed
- 2 Discharge, heavy liquid phase
- 3 Centripetal pump
- 4 Disc stack

- 5 Discharge, light liquid phase
- 6 Solids holding space
- 7 Frame drain
- 8 Separating disc

Bowl

This centrifuge is equipped with a solid-wall bowl for purification of liquid mixtures. The product enters the rotating bowl through the product feed (1) and is separated in disc stack (4). The separated and purified heavy phase flows outwards over the separating disc (8) and is pressure discharged by means of the centripetal pump (3). The light phase (5) discharges freely from the bowl. The separated solids collect in the solids holding space (6) and must be removed manually.

If required, a suitable conversion kit (available at extra cost) can be supplied to convert the purifier to clarifier operation.

Separator unit

A complete, self-contained separator package unit incorporating all accessories necessary for operation can be supplied on request.

Frame, hood and drive

The separator of enclosed, gas-tight design is equipped with a brake, bowl lock screw and an oil level sight glass.

The hood can be removed.

The machine is driven by an enclosed three-phase AC motor. Power is transmitted to the bowl spindle by means of a centrifugal friction clutch and a worm wheel gear. All bearings and the gear are splash-lubricated from a central oil bath.

Materials of construction

Frame	grey cast-iron
Hood	stainless steel
Bowl top	stainless steel
Bowl bottom	stainless steel
Lock ring	stainless steel
Distributor	stainless steel
Centripetal pump	stainless steel
Separating disc	stainless steel
Discs	stainless steel

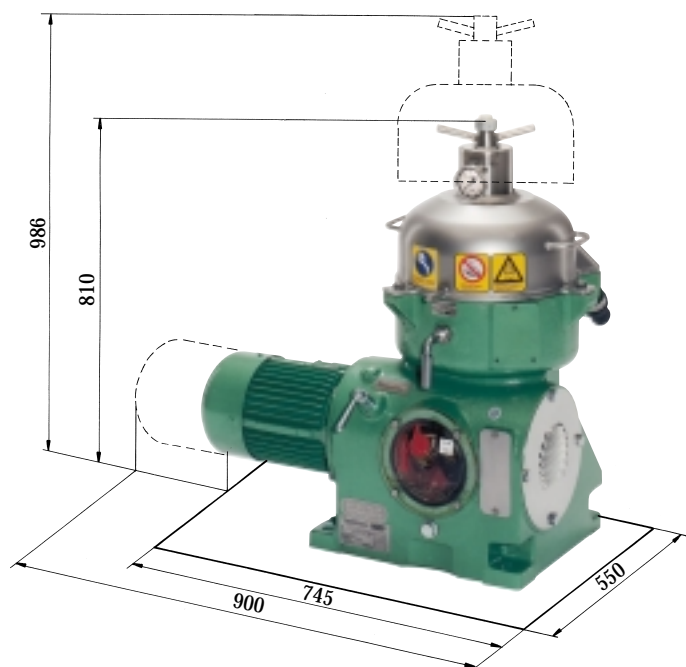
Standard equipment

- Set of accessories III
 - Anchor bolts
 - Rubber cushions
 - Lube oil CLP 100
 - Non-return valve
 - Pressure gauge
- Three-phase AC motor
- Set of tools
- Set of standard spare parts

Additional equipment (at extra cost)

- Conversion kit for clarification
- Motor control
- Pre-strainer for product
- Pre-set valve
- Set of hoses 1", 600 mm long (for feed and discharge)
- Set of special spare parts
- Sludge liner
- Hood interlocking device (for operation in EU)

Technical data



Dimensions in mm

Technical data

Bowl	
Speed	9000 min ⁻¹
Volume	3.2 l
Solids holding space	2 l
Three-phase AC motor	
Power	3 kW
Speed at 50 Hz	1500 min ⁻¹
Speed at 60 Hz	1800 min ⁻¹
Design	IM B 5
Enclosure	IP 55
Centripetal pump	
Pressure head, Hd of the heavy liquid phase	2 bar

Weights and shipping data

Weight	
Separator with motor and bowl	net 200 kg gross 290 kg
Bowl	net 38 kg gross 44 kg
Motor	net 25 kg
Case dimensions (L x W x H)	1280 x 700 x 1030 mm
Shipping volume	0.93 m ³

Capacities

Rated capacity	4600 l/h
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The effective capacity is normally lower. It depends on the product and the required degree of purity. Capacity specifications for other products are available on request.

GEA Westfalia Separator
Mineraloil Systems GmbH

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A company of mg technologies group

Westfalia Separator Mineraloil Systems GmbH · Werner-Habig-Straße 1 · D-59302 Oelde (F.R. Germany)
Tel.: +49 (0) 25 22 / 77-0 · Fax: +49 (0) 25 22 / 77-1778 · Internet: <http://www.westfalia-separator.com>
E-mail: mineraloilsystems@gea-westfalia.de

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