

**Take the Best – Separate the Rest**

**OTC 3  
Mineral Oil Centrifuge**

OTC 3-03-107

**Function**

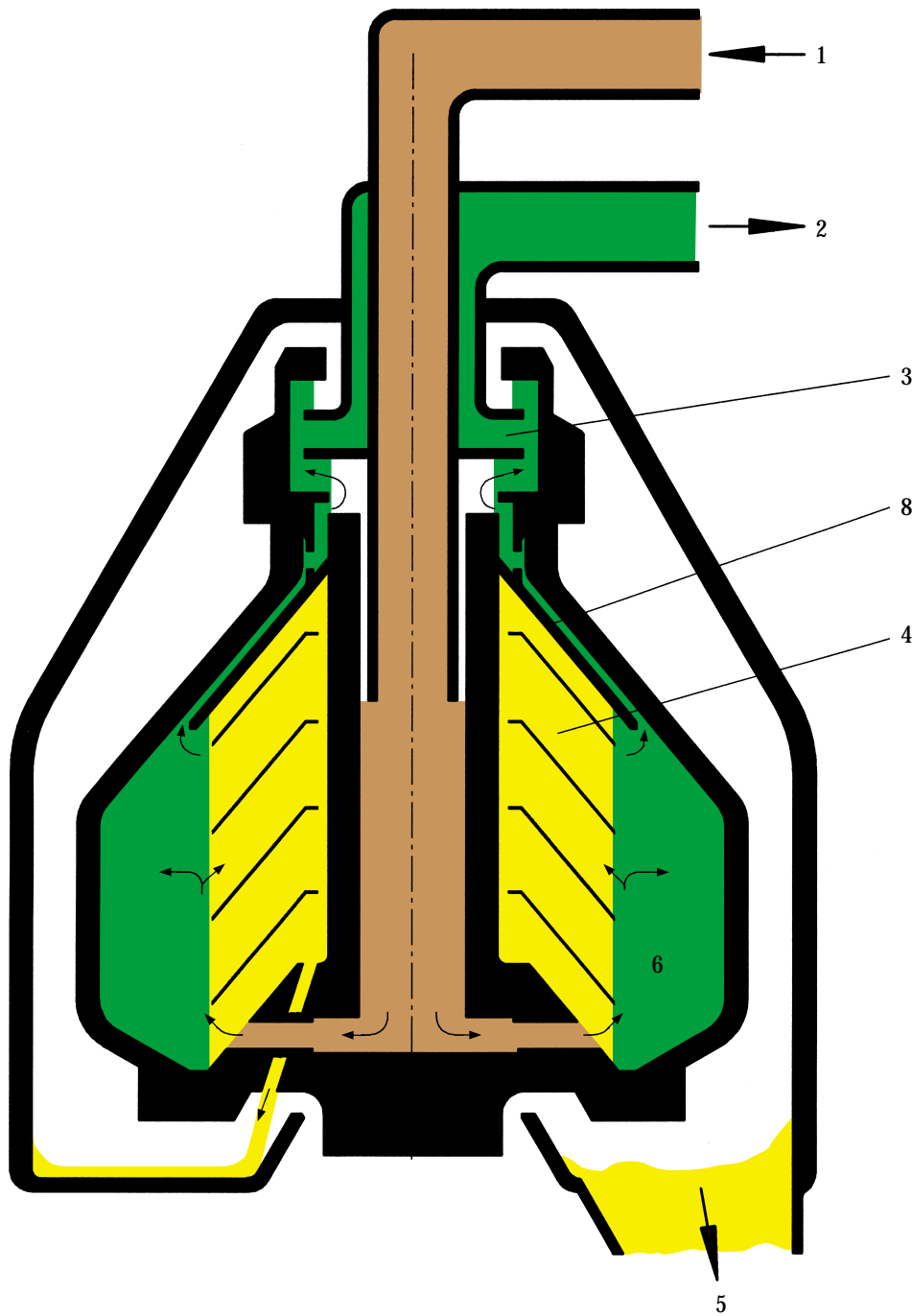
Purification of cooling oil emulsions and wash water oil-water mixtures, etc.

**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
- 8 Separating disc

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 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.

## Frame, hood and drive

The separator of enclosed design is equipped with an oil level sight glass.

The hood is removable.

The machine is driven by a three-phase AC motor. Power is transferred to the bowl spindle via a flat belt. All bearings are splash-lubricated from a central oil bath.

## Standard equipment

- Three-phase AC motor
- Rubber cushions
- Motor protection switch
- Set of tools
- Set of commissioning parts
- Technical documentation
- Set of regulating rings
- Set of hoses, 1000 mm long (for feed and discharge)
- Flow indicator
- Hood switch
- Filling water hopper

## Materials of construction

|                  |                                  |
|------------------|----------------------------------|
| Frame:           | grey cast-iron GG-25<br>silumin* |
| Hood:            | stainless steel                  |
| Main bowl parts: | stainless steel                  |
| Gaskets:         | Buna N                           |

## Additional equipment (at extra cost)

- Set of spare parts 8000 hours
- Set of spare parts 16000 hours
- Conversion set for clarifier
- Set of bowl inlay (sludge liner)
- For Operating voltage 230 V AC, 1phase
- For Operating voltage 110 V AC, 1phase
- For Operating voltage 24 V DC
- Flow detector
- Low-weight version  
(frame of silumin)

## Features

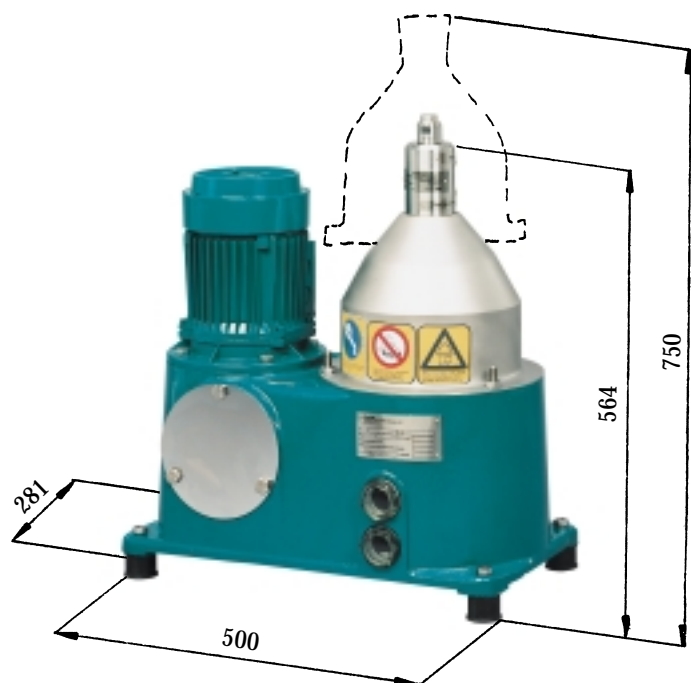
- Standard motor
- Low- noise version
- Light weight
- Bowl of stainless steel
- Light phase discharged under pressure
- Easy conversion into clarifier

## Benefits

- Easy installation
- Low maintenance
- Compact unit
- Easy and rapid dismantling of bowl for cleaning
- All product-contact parts are made of stainless steel

\* see "additional equipment"

# Technical data



Dimensions in mm

## Technical data

|  |                         |
|--|-------------------------|
| <b>Bowl</b>                                    |                         |
| Speed  | 10000 min <sup>-1</sup> |
| Volume   | 2.2 l                   |
| Solids holding space                           | 1.2 l                   |
| <b>Three-phase AC motor</b>                    |                         |
| Power  | 1.1 kW                  |
| Normal absorbed power                          | 0.8 kW                  |
| Speed at 50 Hz                                 | 3000 min <sup>-1</sup>  |
| Speed at 60 Hz                                 | 3600 min <sup>-1</sup>  |
| Design   | IM V1                   |
| Enclosure                                      | IP 55                   |
| <b>Centripetal pump</b>                        |                         |
| Pressure head, HD<br>of the heavy liquid phase | 0.5 bar                 |
| <b>Connections</b>                             |                         |
| Feed   | R 1/2 in                |
| Discharge heavy phase                          | R 1/2 in                |
| Discharge light phase                          | R 3/4 in                |
| Max. separating temperature                    | 100°C/212°F             |

## Weight and shipping data

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Weight</b>                        |                    |
| Separator complete (standard design) | 65 kg              |
| (low-weight version)                 | 45 kg              |
| Case dimensions (L x W x H)          | 640 x 640 x 710 mm |
| Shipping volume                      |                    |

## Capacity

|                |          |
|----------------|----------|
| Rated capacity | 2200 l/h |
|----------------|----------|

For optimum capacities refer to the table of capacities

**GEA** Westfalia Separator  
Mineraloil Systems GmbH

Take the Best - Separate the Rest

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: [info@gea-westfalia.de](mailto:info@gea-westfalia.de)

FOR OUR ENVIRONMENT'S SAKE  
Printed on chlorine-  
free, bleached paper