

## Solids-retaining centrifuge, type WSB 104B-74

### Applications

The WSB 104 is a solids-retaining centrifuge in concentrator design. It is used for deoiling of water and cleaning of metalworking fluids, i.e. cleaning of aqueous emulsions of soluble cutting oils, deoiling of split emulsions and cleaning of neutral wash water.

### Working principle

The feed is introduced to the rotating centrifuge bowl (fig 2) from the top (1) and is accelerated in a distributor (2) before entering the disc stack (3). It is between the discs that the separation takes place.

The water and the heavier solids are forced towards the bowl wall where the solids accumulate and the water proceeds over the top disc (4) to an open outlet (5).

The light phase moves towards the centre and leaves the bowl through an open outlet (6). The machine needs to be stopped at intervals for manual removal of the solids.

The bowl is mounted on a vertical spindle (7) driven by a horizontally mounted motor, via a worm gear.

### Features and benefits

Robust design with the following benefits:

- Simple installation, operation and maintenance.

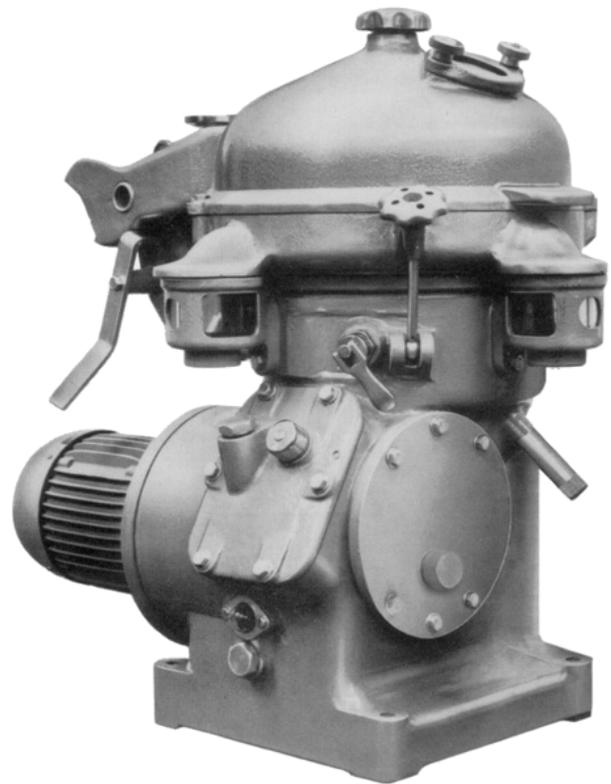


Fig.1 WSB 104B-74.

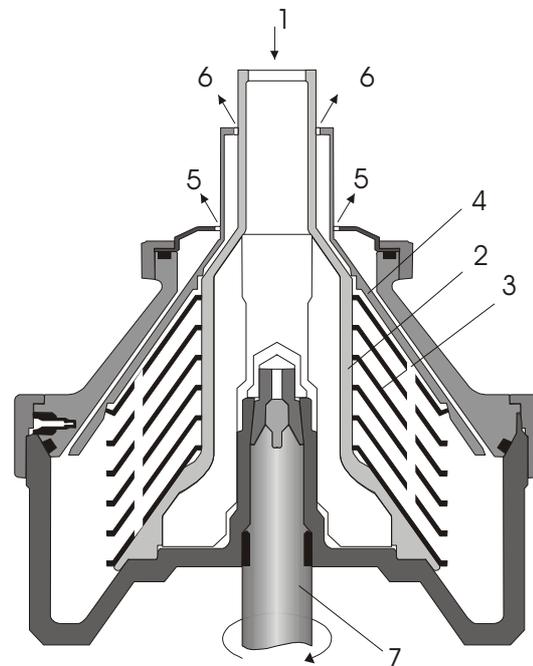


Fig 2. Typical bowl drawing for a solids-retaining centrifuge in concentrator execution. Drawing details do not necessarily correspond to the centrifuge described.

## Standard design

All liquid wetted parts are in high-grade stainless steel.  
Covers of silumin and cast iron.

The centrifuge is available with main connections according to SMS standard.

## Technical data

Max. throughput capacity	1.4 m <sup>3</sup> /h <sup>1)</sup>
Sludge and water space	1.2 dm <sup>3</sup>
Feed temperature range	0 - 100 °C
Installed motor power	1.1 kW
Noise level (ISO 3744 or 3746)	78 dB(A)

<sup>1)</sup> Actual capacity depends on composition of feed and separation demands.

## Utilities consumption

Electric power	0.5 - 1.3 kW <sup>1)</sup>
----------------	----------------------------

<sup>1)</sup> Actual consumption depends on throughput capacity, feed characteristics.

## Shipping data (approximate)

Centrifuge with bowl and motor	
Net weight:	168 kg
Gross weight:	224 kg
Volume:	1.0 m <sup>3</sup>

## Main dimensions (approximate)

