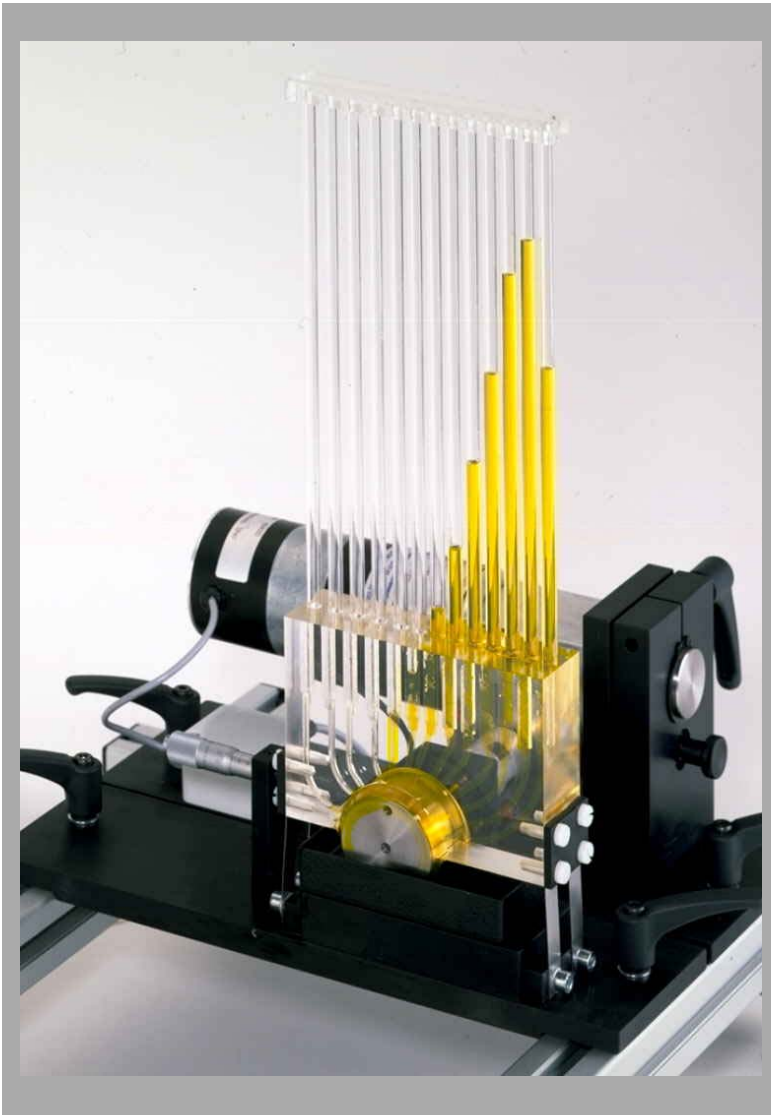


## TM 260.06 *Experimental Module Journal Bearing Pressure Distribution*



### \* Demonstration of the radial pressure distribution in a plain bearing

#### Technical Description

The unit enables the pressure distribution in a plain bearing with hydrodynamic lubrication to be displayed. The unit is intended for use with the basic module TM 260. 13 measuring points that open out into measuring tubes are distributed around the periphery of the bearing shell. The pressure profile is indicated by the different heights reached by the lubricant in the tubes. Due to the radially adjustable bearing housing, the width of the gap can be adjusted in 1/100mm steps using a micrometer.

#### Learning Objectives / Experiments

- Pressure distribution in a plain bearing as a function of the speed
- Pressure distribution in a plain bearing as a function of load and width of the bearing gap
- Stability limit as a function of the width of the gap

#### Specification

- [1] Benchtop experiment for demonstrating the pressure distribution in a plain bearing with hydrodynamic lubrication, operation with the TM 260 module
- [2] 13 measuring points distributed radially on the bearing shell
- [3] Bearing housing made of transparent plastic
- [4] Bearing housing can be slid, gap adjustable
- [5] Shaft diameter 50mm h9, width 50mm, shaft material stainless steel

#### Technical Data

##### Shaft

- diameter: 50mm, h9
- width: 50mm
- stainless steel

##### Bearing journal

- 52.5mm
- gap width: 0...1.25mm, graduations: 1/100mm

#### Dimensions and Weight

l x w x h : 350 x 120 x 450 mm  
Weight : approx. 7 kg

#### Scope of Delivery

- 1 experimental module, complete
- 1 instruction manual

#### Order Details

040.26006 TM 260.06 Experimental Module  
Journal Bearing Pressure Distribution