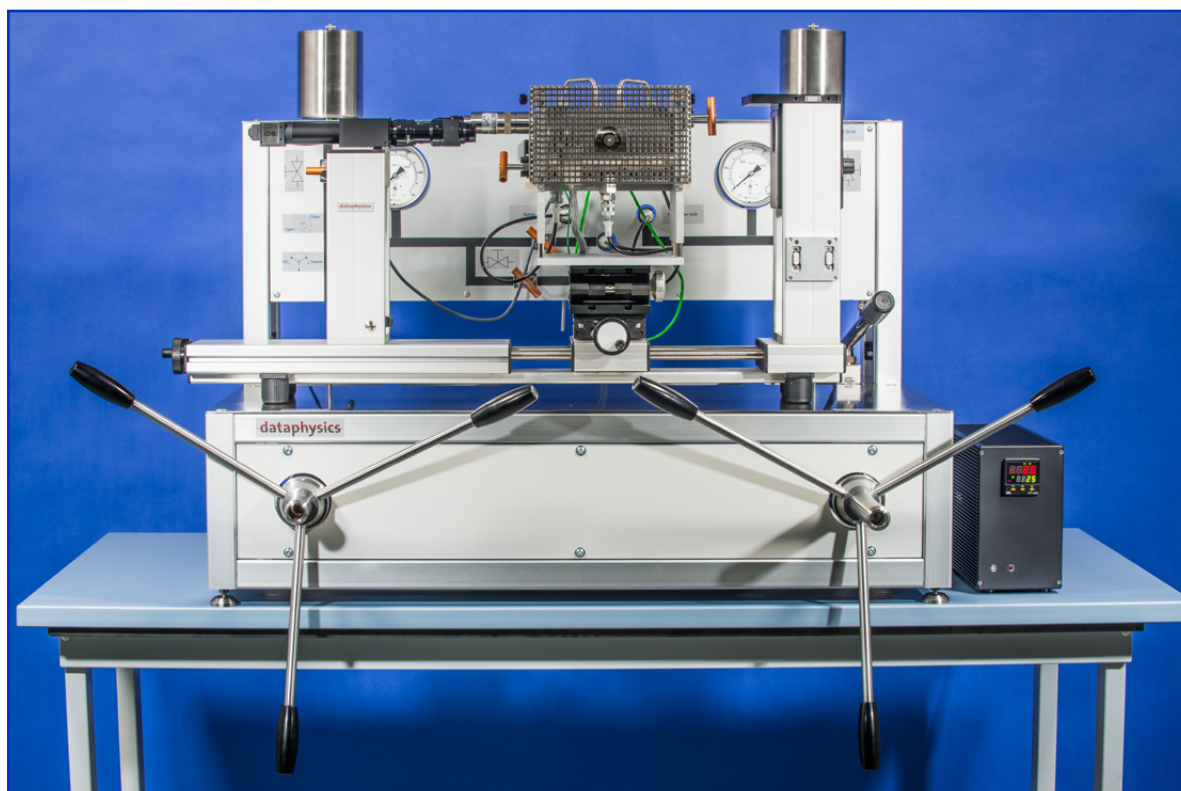


# OCA 25-PMC 750

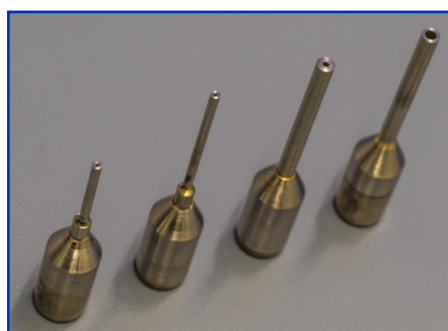
Video-based contact angle measuring and contour analysis system for high pressures and high temperatures



OCA 25-PMC 750

## Features of the OCA 25-PMC 750

The high pressure measuring system **OCA 25-PMC 750** is a special model of the OCA 25 for measurements of interfacial tension and contact angles under high pressure and high temperature conditions. Measurements under pressures of up to 750 bar and temperatures of up to 200 °C are possible. It is the ideal solution to investigate e.g. the interfacial tension between surfactant solution and crude oil or the contact angle between rock and oil under reservoir conditions.

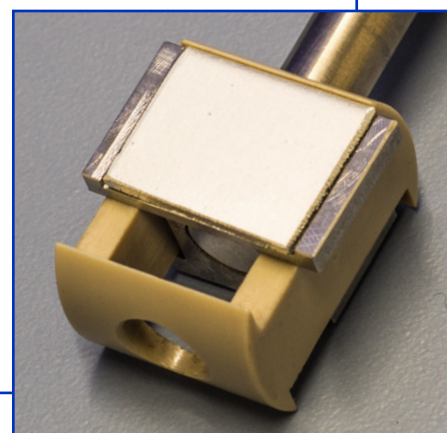


Dosing needles with different diameters

## Components and accessories

The OCA 25-PMC 750 consists of the following components:

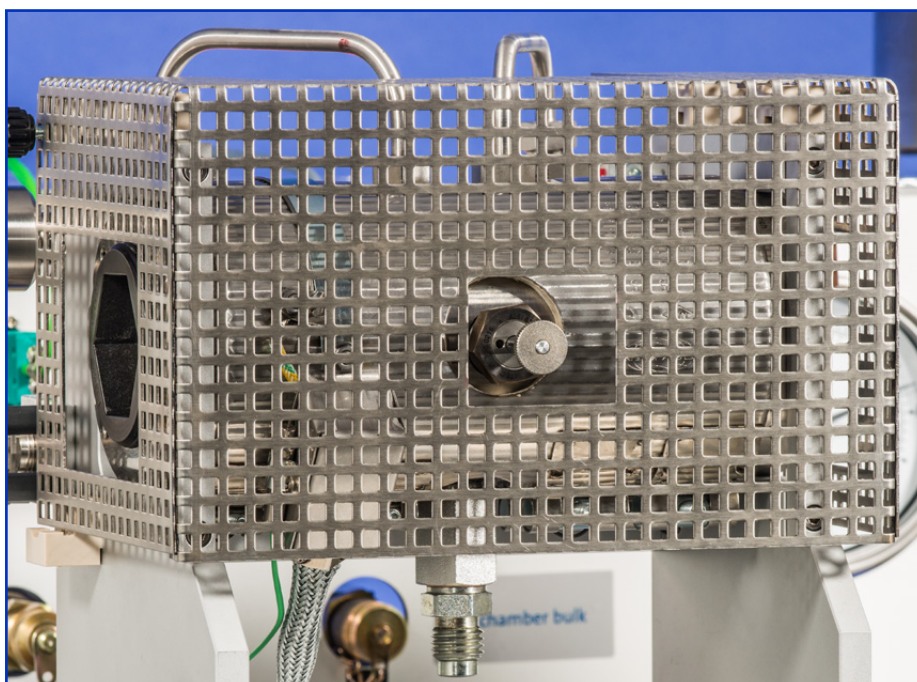
- high pressure chamber with optical sapphire glass
- high pressure unit for generation and control of bulk liquid pressure and drop liquid pressure
- temperature controller for control of chamber temperature
- removable magnetic positioning system for solid samples
- a set of needles with different diameters for various interfacial tension ranges
- optical measuring system with adjustable observation angle and focus
- LED-lighting



Magnetic positioning system for solids

## Technical data

Liquid pressure:	• up to 750 bar (10878 psi)
Temperature range:	• room temperature ... 200 °C
Heat up rate:	• 5 K/min
Max. solid sample size (L x W x H):	• 15 mm x 20 mm x 3 mm
Internal chamber volume:	• 25 ml
Optics and image processing system:	<ul style="list-style-type: none"> <li>• LED-lighting with manual and software controlled intensity including automatic temperature drift compensation</li> <li>• USB 3.0 camera, max. resolution 2048 x 1088 pixel with 75 frames/s, max. frame rate 2450 frames/s with 640 x 60 pixel</li> <li>• 6-fold zoom lens with integrated fine focus (<math>\pm 6</math> mm)</li> <li>• field of view: (4.98 x 2.65) mm<sup>2</sup> ... (32.14 x 17.07) mm<sup>2</sup></li> <li>• working distance: 143 ... 187 mm</li> <li>• optical distortion: &lt; 0.05 %</li> </ul>
Dimensions (L x W x H):	<ul style="list-style-type: none"> <li>• Pressure unit: 1000 mm x 900 mm x 800 mm</li> <li>• High pressure chamber: 200 mm x 200 mm x 250 mm</li> <li>• Temperature controller: 350 mm x 120 mm x 210 mm</li> </ul>
Weight:	<ul style="list-style-type: none"> <li>• Pressure unit: 88 kg</li> <li>• High pressure chamber: 10 kg</li> <li>• Temperature controller: 18 kg</li> </ul>
Power supply:	• 115/230 V AC; 50 ... 60 Hz; 1000 W



High pressure chamber

**For more information about a tailor-made solution to your surface chemistry requirements, please contact us. We will be pleased to provide a quotation, obligation free, for your instrument system.**

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