

## Flender Oil Foam Tester

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Since October 2007 Strama-MPS manufactures and purchases the Flender Oil Foaming Test System.



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## Technical description

High-quality lubricating oils are used in gear and worm gear units. These can be either synthetic or mineral, according to the application. High specific loads in modern gear units mean that rigorous requirements are made on the quality of gear unit oils.

By mixing appropriate additives with the oil the resistance of the gears to damage through seizing, grey staining and pitting on the tooth flanks can be increased. Additives also affect the aging resistance and foam characteristics of the oil.

Excessive foam generation affects the load-bearing capacity of gears and bearings. Moreover, excessive foam generation in gear unit oils also causes oil leaks on shaft sealing rings and vent screws.

Oil manufacturers normally test the foam characteristics of oils by the ANSI/ASTM D 892 method and the DIN 51566 method based on it, by which air is blown into an oil sample for a specified time. As the results of this test often does not correspond to the foam characteristics observed in gear units, a more practical test arrangement has been devised.

In the case of the Flender Oil Foaming Test System a pair of gears is rotated in the oil to be tested, thereby mixing air into the oil. In this way the behaviour of oils with regard to air absorption, oil-air dispersion and surface foam and their degeneration can be quickly tested in the test apparatus and under marginal conditions of the kind occurring in gear units.

**Features and details:**

- AC-Drive Motor 0,55 kW, 1400 rpm
- Swing device
- Easy mounting and dismounting of the test chamber for better cleaning
- Aluminium base frame and base plate including oil groove
- Control unit easy to operate
- Adjustment stands
- Contact heating of the test chamber
- Temperature control and monitoring
- All parts made of nickel plated steel or aluminium
- Checked according
  - 2006/42/EG Machinery directive
  - DIN EN ISO 12100-1
  - DIN EN ISO 12100-2
  - DIN EN 60204-1
  - EN 294
  - EN 349
- Certainly we issue a CE-Declaration of conformity for each delivered machine.



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## Pictures of the test equipment

