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Experimental unit CIBA
(Cylinder in Bush Apparatus)

In General

CIBA represents experimental units for various testing methods and procedures in PM-Tech., Materials Design and Process Technology. CIBA simulates wear-conditions of large pot-rolls in continuous hot dip galvanizing / aluminizing (Thyssen-Krupp-Stahl) to test advanced materials for heavy roll bearings operating in liquid metal.

Application

Evaluation of PM samples for glide bearing materials made by MA, HIP and LPS in reality-like conditions. Sample operation in liquid metal under controlled velocity, tractate force and recorded temperature conditions.

Dimensions

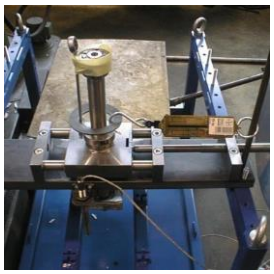
L x B/W x H	760x560x940 mm
net weight	125 kg
power supply	extern, S28
rotational speed (sample)	0-750 rpm
vertical range (sample)	90 mm
horizontal range (sample)	70 mm
cross-tension (horizontal)	0-1000 N
crucible volume	5.7 l (2x)
crucible heating	0-600 ºC
sample cylinder	Ø 25x95 mm
sample connection	Ø 30/40 ss
temperature measurement	0-1000 ºC

Options

- heating gas / electrical, temperature control
- torque measurement, tension measurement

technical data subject to alterations


pot-roll, hot dip galvanizing




HIP-capsules


glide-bearing


Zoz MA-STL+MSL