

ISO 12130-1:2001-11 (E)

Plain bearings - Hydrodynamic plain tilting pad thrust bearings under steady-state conditions - Part 1: Calculation of tilting pad thrust bearings

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Fundamentals, assumptions and premises	2
4	Symbols, terms and units	3
5	Calculation procedure	6
5.1	Loading operations	6
5.2	Coordinate of centre of pressure	7
5.3	Load-carrying capacity	7
5.4	Frictional power	9
5.5	Lubricant flow rate	9
5.6	Heat balance	10
5.7	Minimum lubricant film thickness and specific bearing load	13
5.8	Operating conditions	13
5.9	Further influence factors	14
Annex A (normative) Examples of calculation		15
A.1	Example	15
A.2	Example	19
Bibliography		24