



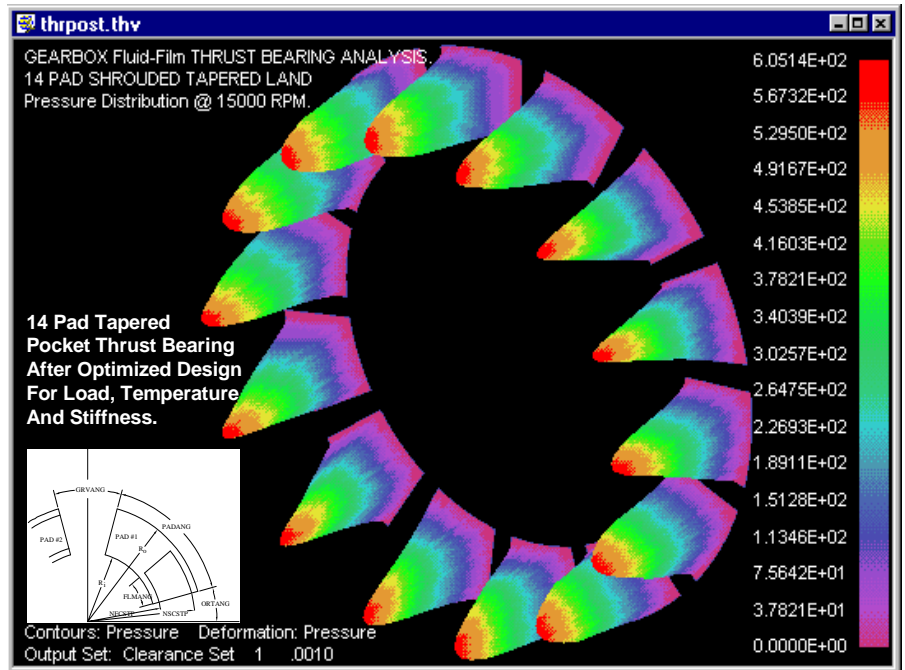
The **FLUID-FILM** bearing configurations that can be evaluated with the various solution modules include but not limited to:

Cylindrical & Conical (JURNBR™ & HYBCBR™)

- Plain
- Multi-groove
- Tapered land or pocket
- Rayleigh step or pocket
- Pressure dam
- Elliptical or lemon
- Lobe or canted lobe
- Multi-recess

Tilting-Pad Geometry (TILTBR™)

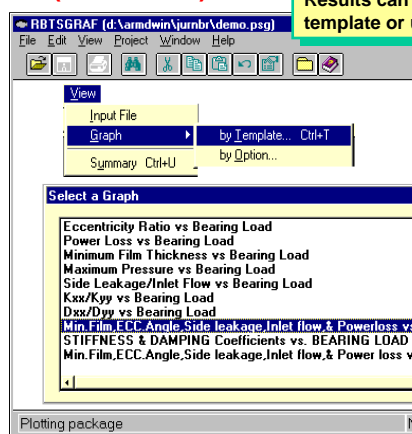
- Tilting pad with user specified:
 - Pivot location
 - Preload



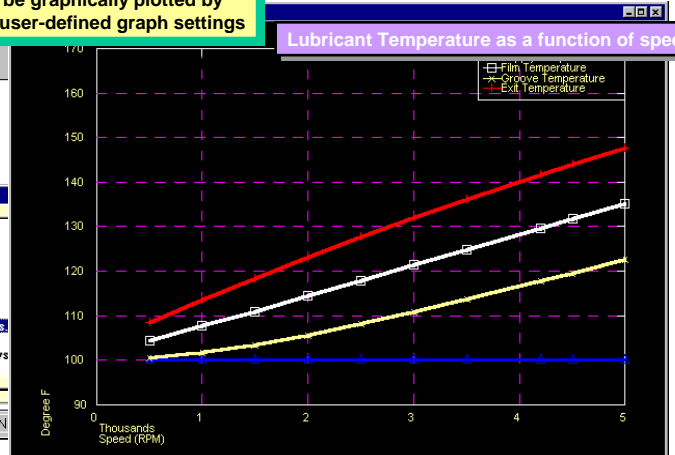
Thrust-Fixed and Tilting-Pad (THRSBR™)

- Plain
- Multi-groove
- Tapered land
- Tapered pocket
- Step land
- Step pocket
- Tilting pad
- Compound taper

Results can be graphically plotted by template or user-defined graph settings



Lubricant Temperature as a function of speed



The **ROLLING-ELEMENT**

bearing module predicts the performance of up to six bearings of different types mounted on a shaft and experiencing radial, thrust and moment loading.

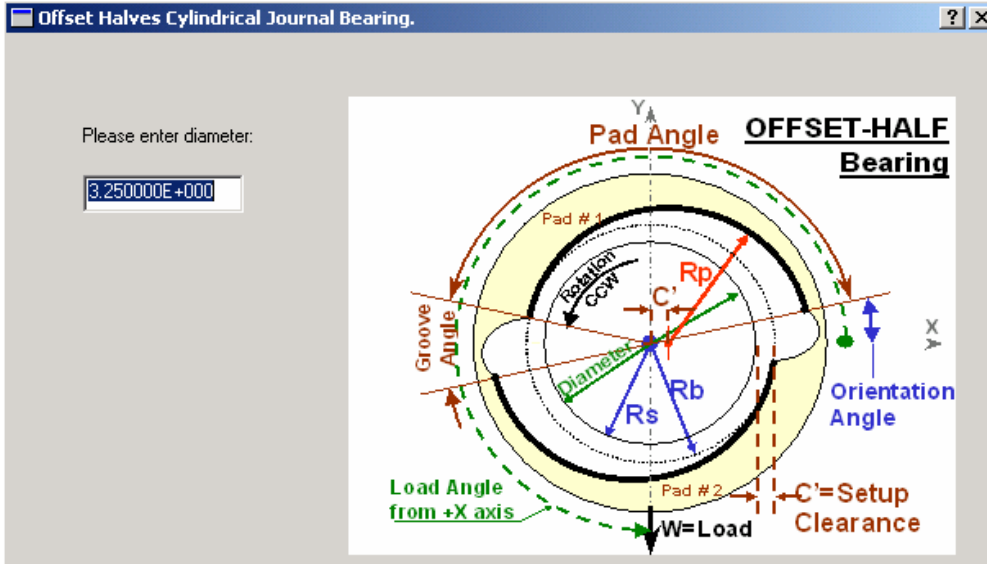
Bearing types include Conrad (radial) ball, angular contact ball, cylindrical roller tapered roller, and spherical roller bearings. The program allows the evaluation of misalignment, offsets, preload, clearance or end-play on bearing performance. Bearing preload from spacer grinding or shimming as well as preload springs is included. Individual bearings can be made to "float". Bearing performance results include ball load distribution, stress distribution, system and individual bearing reaction loads and displacements, Hertz contact stress, B10 life, contact angles, and spring rate.

The **LUBRICANT** module **VISCOS™** calculates temperature dependent properties of lubricating fluids. The program requires the user to specify lubricant input or to select it from the built-in lubricant data base. VISCOS generates, as a function of temperature, such parameters as absolute viscosity, kinematic viscosity, Saybolt universal viscosity, specific gravity, weight density, specific heat, heat content, and thermal conductivity.

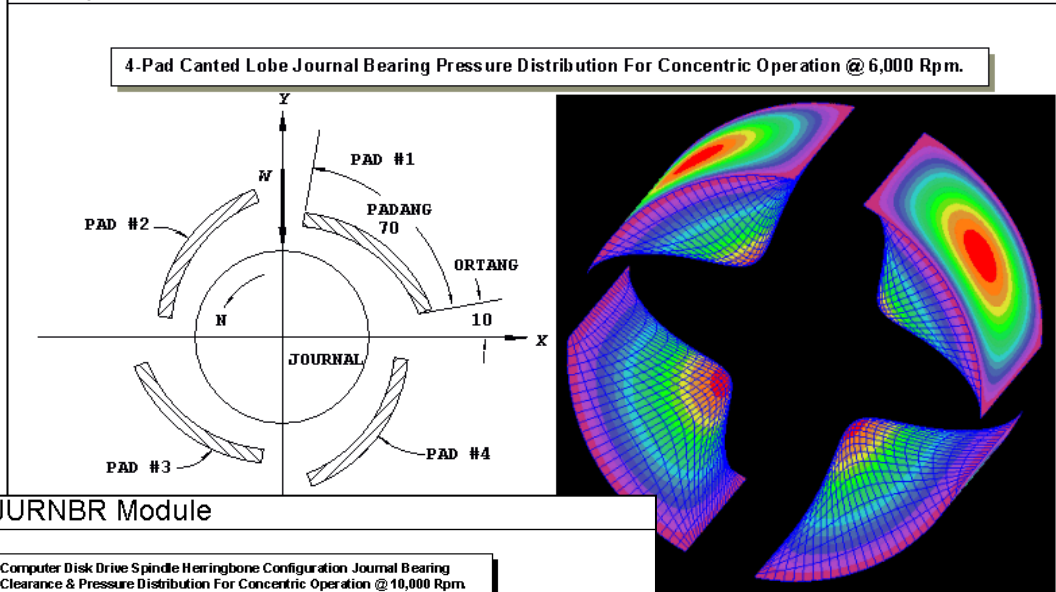
LUBRICANT							
Supplier	Brand Name and No.	ISO Grade	API @60.0°F	VISCOSITY			
				cSt	@*F	cSt	@*F
ESSO	TERESSO 32	32	31.500	30.50	104.00	5.13	212.00
MOBIL	DTE 797 Turbine Oil	32	32.600	32.00	104.00	5.40	212.00
MOBIL	Mobilgear 630	220	26.500	220.00	104.00	18.00	212.00
MOBIL	SHC 626	68	33.500	65.20	104.00	10.40	212.00
TYPICAL	100% Viscosity Index	15	32.600	15.00	104.00	3.41	212.00
TYPICAL	100% Viscosity Index				104.00	11.39	212.00
TYPICAL	100% Viscosity Index				104.00	5.36	212.00
TYPICAL	100% Viscosity Index				104.00	68.33	212.00
TYPICAL	100% Viscosity Index				104.00	2.66	212.00
TYPICAL	100% Viscosity Index				104.00	6.76	212.00
TYPICAL	100% Viscosity Index				104.00	15.02	212.00
TYPICAL	100% Viscosity Index				104.00	19.44	212.00

VISCOS has built-in lubricant data-base that can be accessed to retrieve lubricant properties. The data-base is user-friendly with capabilities for users to add and delete records as they wish.

New fluid-film bearing wizards with graphical illustration of many commonly used bearings in industry. Wizard implemented in all fluid-film bearing modules (JURNBR, HYBCBR, THRSBR & TILTBR) and operate from already existing templates for various types of bearing configurations. With the Wizard, most bearing analyses can be completed in a few steps.



Sample No. 1 for JURNBR Module



Sample No. 3 for JURNBR Module

