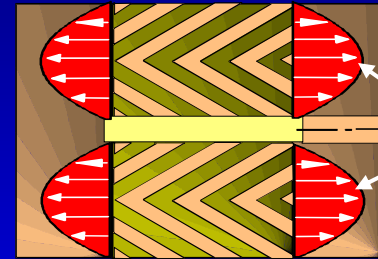
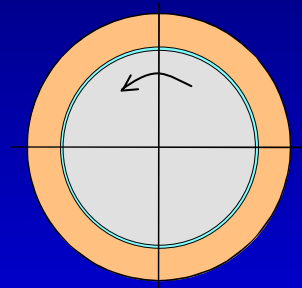
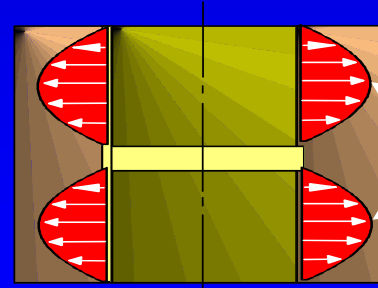
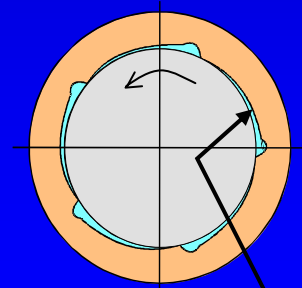


# Examples of fluid dynamic bearings for spindle motors

Herringbone groove bearings



Multi-lobes bearings



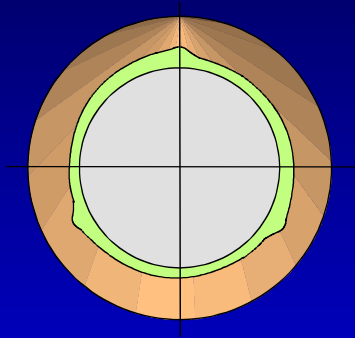
Wedge shape

pressure distribution

pressure distribution

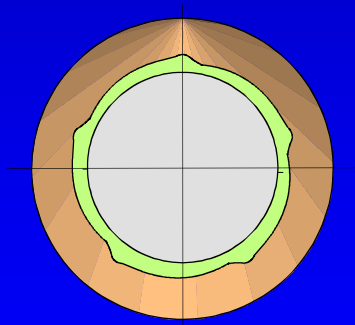
# Application of multi-lobes bearings

(Three lobes bearings and five lobes bearings)



- 1) Polygon mirror motor for digital full color printer
- 2) Disk drive motor for optical disk equipment  
(CD-ROM, DVD-ROM)

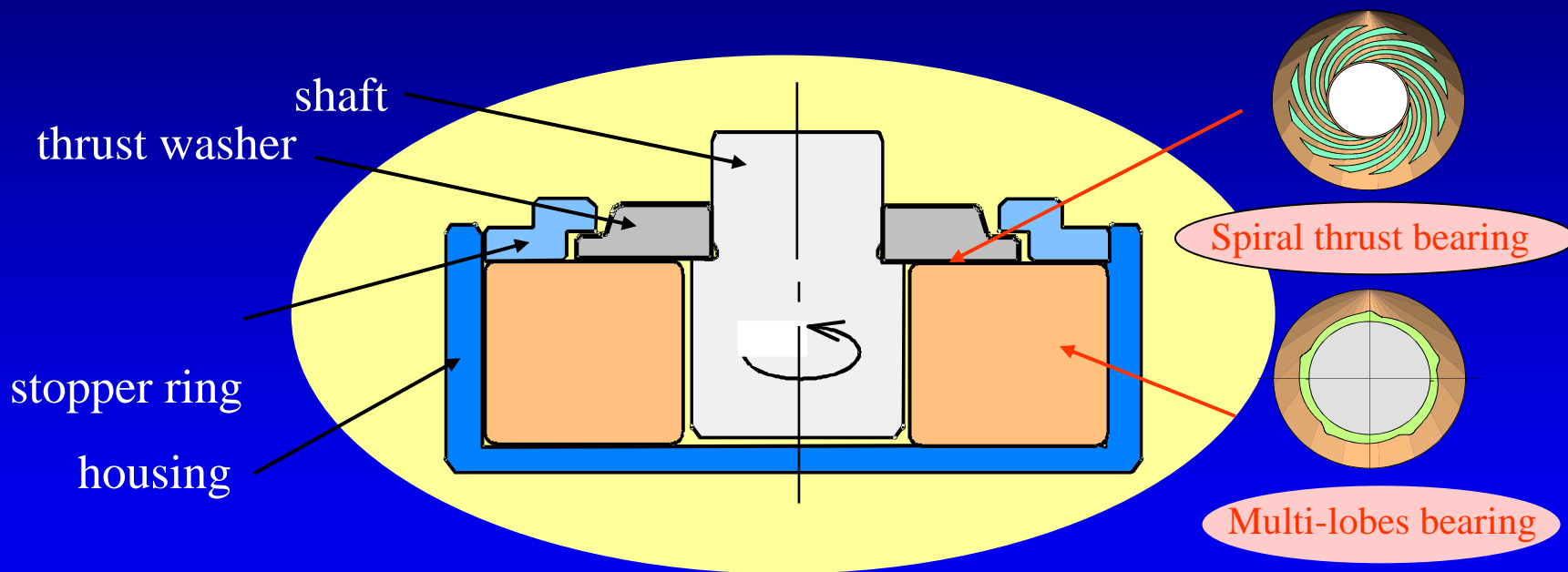
3 lobes bearings



- 3) Disk drive motor for Magnetic disk equipment

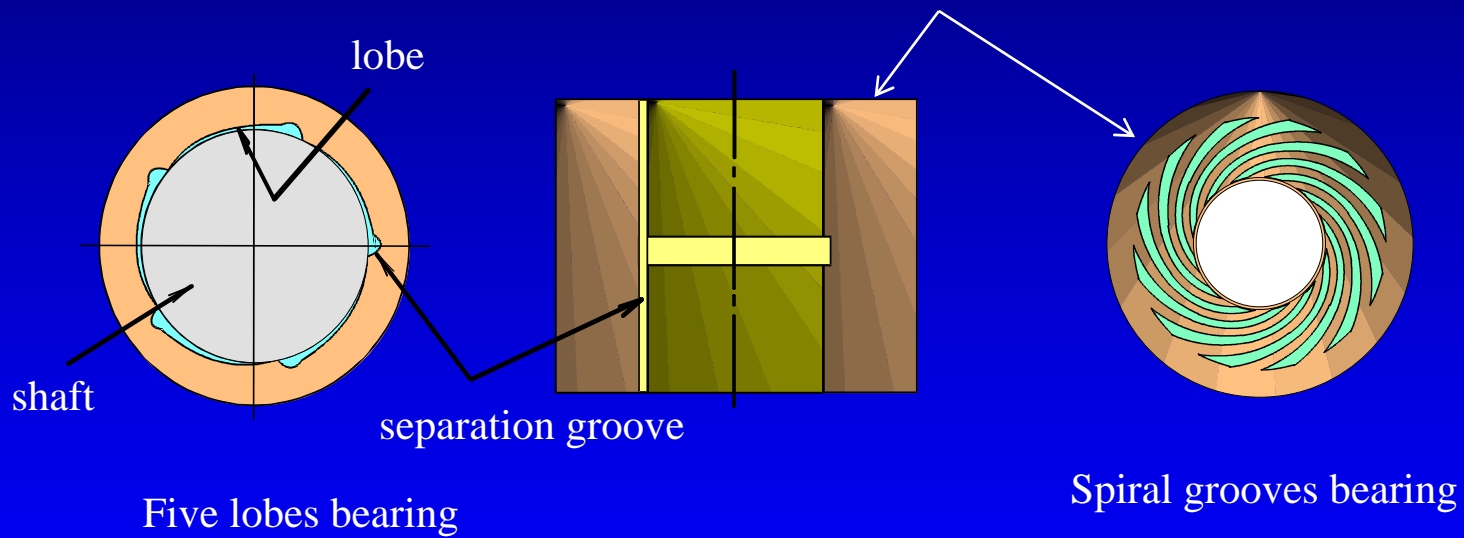
5 lobes bearings

# New type HMF bearing unit



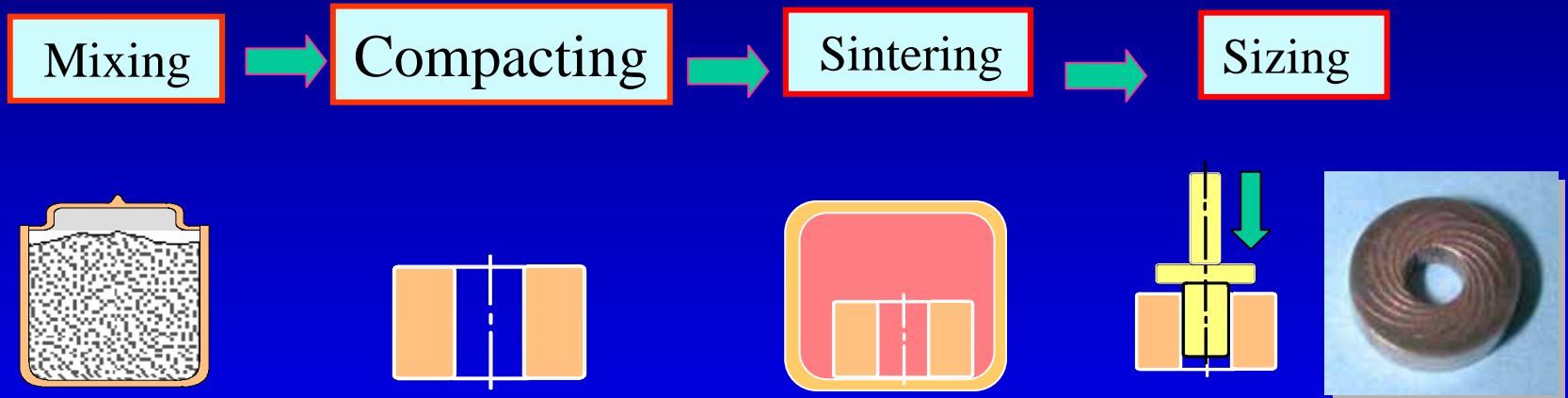
Structure of HMF bearing unit

# HMF type fluid dynamic bearings



# Bearing manufacturing process and material

## 1) Manufacturing process



## 2) Material

- Nikkaloy EAK-3: Cu(50~55%), Sn(1~3%), Fe(Rem)