BEARING

CW

PRECISION BY DESIGN

THE ART OF MATCHING COMPONENTS IN BEARING ASSEMBLY



WHAT MAKES A BEARING PERFORM?

- Smooth motion
- Long life

→ All made possible by **MICRON-LEVEL MATCHING** of components.

MATCHED TO PERFECTION

A bearing is a system of

- Inner & outer ring raceways
- Rolling elements (balls)



All matched to achieve **OPTIMAL RADIAL PLAY**

BALL SELECTION: THE FINAL TUNE-UP

- Slightly larger balls → tighter, stiffer bearings
- Slightly smaller balls → more clearance for expansion / misalignment

WHY RADIAL PLAY MATTERS

Too much → Vibration, noise, low stiftness

Too little → Friction, heat, shorter life

✅ The right match = **Efficiency + Longevity**

MATCHING IS A PROCESS

At CW Bearing;

- Rings & balls are measured classified and sorted
- Assembly uses precision algorithms + metrology systems

Ensures consistent; **high-performance bearings**