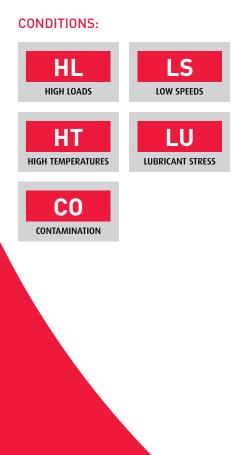


SWR[™] SPHERICAL ROLLER BEARINGS

NSK SWR[™] Spherical Roller Bearings are designed to meet the challenges of operating bearings in the harsh environment of continuous casting machines. Utilizing innovative material and heat-treatment technology, they offer superior resistance to wear and the onset of progressive bearing damage. With extreme durability and core toughness, SWR[™] Spherical Roller Bearings are an advanced solution that promote extended operating life and reduce unexpected maintenance downtime and costs.

PROVEN BENEFITS

- > Superior wear resistance three times that of conventional bearing steel
- > Improved flaking life property five times that of conventional bearing steel
- Higher toughness of material core (prevention of crack damage) five times that of conventional bearing steel
- Improved bearing durability extends roll segment operation, reducing maintenance costs and preventing unplanned downtime



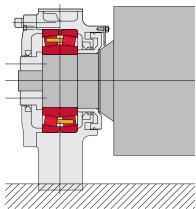


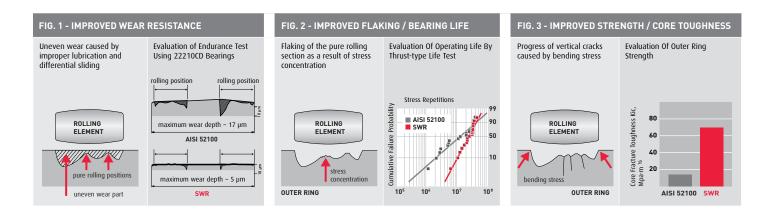
NSK

DESIGN FEATURES

- > Manufactured with an innovative steel composition
- Applied proprietary heat-treatment process
- Available in a wide range of sizes with high strength pressed steel (EA, CD) or one-piece machined brass (CAM) cage
- Superior wear resistance 3 times that of conventional bearing steel (Fig. 1)
- Improved flaking life property 5 times that of conventional bearing steel (Fig. 2)
- High toughness of material core (prevention of crack damage) – 5 times that of conventional bearing steel (Fig. 3)

Improved bearing durability achieved by using SWR spherical roller bearings extends roll segment operation, reducing maintenance costs and preventing unplanned downtime.





DESIGN SPECIFICATIONS

230	40	SWR	CA	g2	Μ	E4	C3
DIMENSIONAL SERIES	BORE REFERENCE NO.	MATERIAL	INTERNAL DESIGN	CARBURIZATION	CAGE	LUBRICATION FEATURES	INTERNAL CLEARANCE
* DIMENSIONAL SERIES	222, 230, 231, 240, 241			CARBURIZATION	g2: outer ring g5: inner and outer ring g: complete bearing		
* BORE DIAMETER	40 to 240 mm			CAGE	Blank, CD: high stength pressed steel M: heavy duty machined brass		
MATERIAL SERIES	SWR: Super Wear Resistant			LUBRICATION FEATURES	E4: groove and holes, outer ring		
INTERNAL DESIGN	EA, CA: high load cap	pacity		INTERNAL CLEARANCE	Blank: normal C3: > normal C4: > C3		

 * additional series / sizes are available - contact NSK