

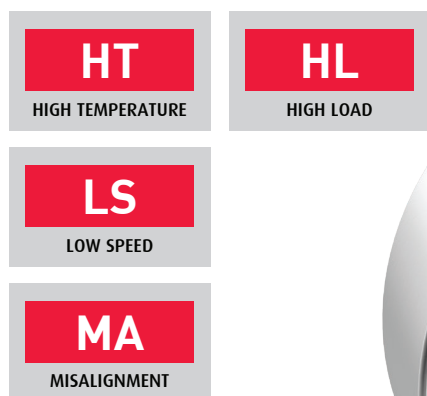
NUB FULL COMPLEMENT CYLINDRICAL ROLLER BEARINGS

Though faced with uniquely severe operating conditions – high heat, heavy loads, low speed, water exposure – the bearings used in continuous casting machinery must nonetheless operate with high reliability to ensure that yield, productivity and cost efficiency can be maximized. NSK's new NUB series cylindrical roller bearings are designed to be particularly effective for the non-driven side of strand guide rolls, accommodating roll shaft bending and roll extension while running with reduced sliding friction and wear for a longer, reliable operating life.

PROVEN BENEFITS

- › Extended operating life – as much as 3 times that of alternative solutions
- › Reduced internal differential sliding friction and wear
- › Accommodates roll shaft bending / misalignment
- › Smoothly absorbs roll expansion resulting from high operating temperatures
- › Easy installation with non-separable design

CONDITIONS:



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DESIGN FEATURES

- › Single row, cage-less full complement cylindrical roller bearing
- › Non-separable design, with outer ring ribs and inner ring retaining rings
- › Optimized roller crowning reduces internal differential sliding friction and wear
- › Relative movement characteristics of inner and outer raceways smoothly absorb roll extension due to thermal expansion
- › For non-driven (free end) bearing location

OPTIMAL BEARING ARRANGEMENT

- › Long life – reduced internal differential sliding reduces uneven wear and premature fatigue
- › Smooth relief of roll elongation / shaft deflection with internal axial movement
- › Self-aligning characteristics achieved through optimized roller crowning accommodated roll shaft bending / misalignment



FIG. 1 - CASTER ROLL SEGMENT

