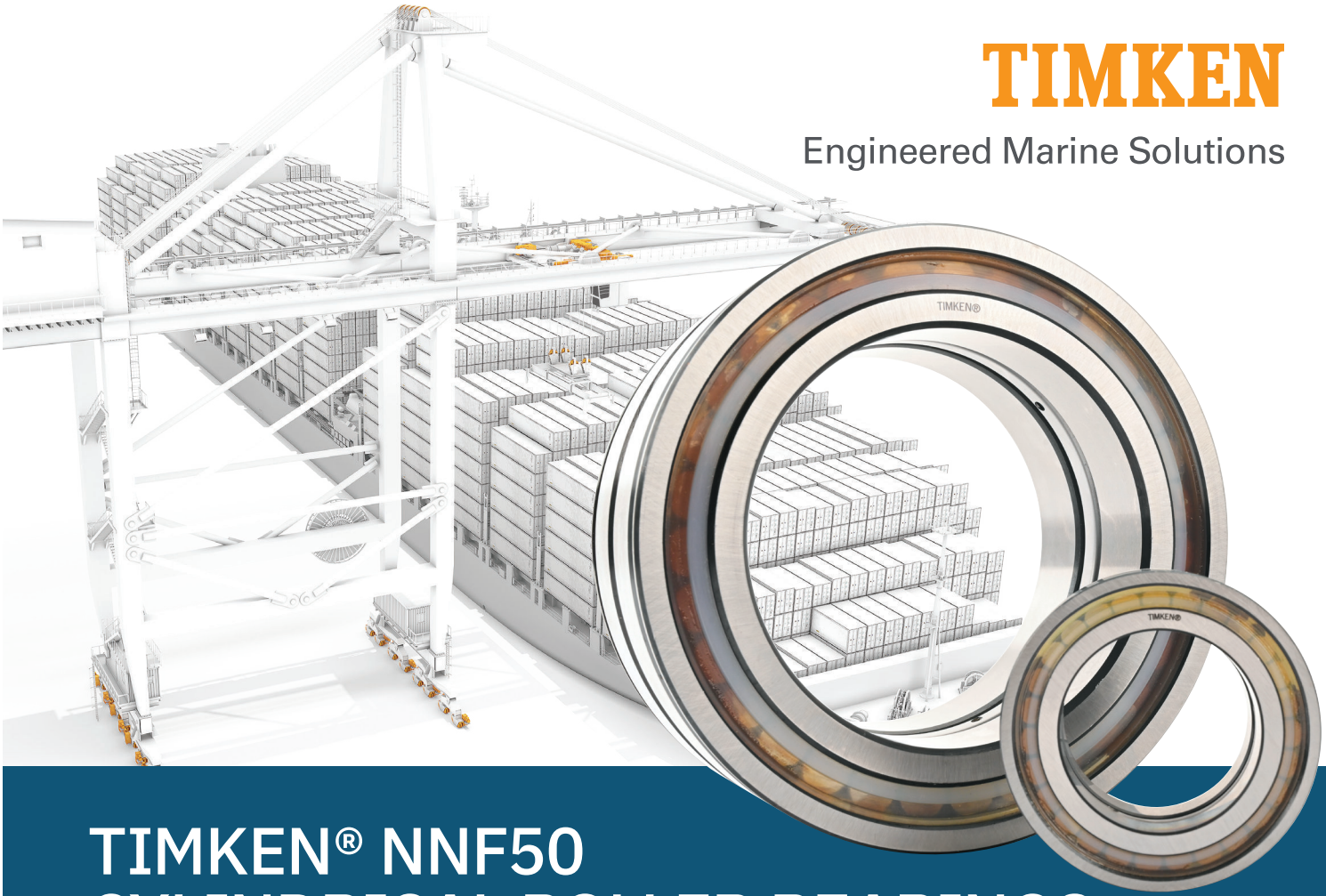
TIMKEN

Engineered Marine Solutions



TIMKEN® NNF50 CYLINDRICAL ROLLER BEARINGS

FOR WIRE ROPE SHEAVES IN PORT EQUIPMENT

In port operations, every minute of uptime matters. Timken NNF50 bearings for wire rope sheaves are engineered to help critical port equipment like ship-to-shore, rubber-tire-gantry, rail-mounted gantry and mobile harbor cranes operate reliably.

For our customers, this translates to reduced maintenance, extended service life and minimal unplanned downtime – all helping port operators move more cargo with confidence, efficiency, lower operating costs and greater productivity.

Our comprehensive offering of NNF50 cylindrical roller bearings features:

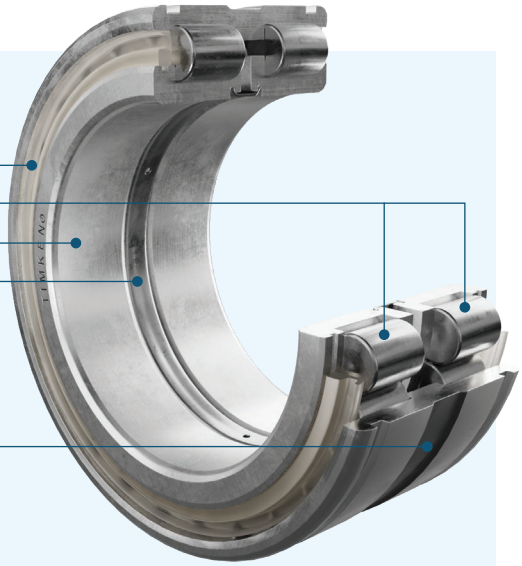
- Versatility with a bore range from 40mm to 260mm
- Availability in both standard and thin sections
- High quality made with premium materials and a double-row, full complement design
- Operational reliability with double-sealed, factory-filled high-performance grease
- Secure inner ring alignment with robust bore clip design that prevents relative rotation during operation
- High radial load-carrying capacity
- Superior resistance to shaft deflection

NOMENCLATURE

NNF	50	24	V	-PP	-2NR	-W33	C3
Bearing Type (ISO)	**DIMENSION SERIES:** **50: standard series** (bearings include a bore code in the designation) **- : light series** (bearings state the bore diameter in mm in the designation)	**INNER RING BORE DIAMETER:** 2-digit number: bore code x 5 = bore diameter (example: 24 = 24 x 5 = 120 mm) 3-digit number: bore in mm (example: 130 = 130 mm)	Full Complement	Contact seal on both sides	Supplied with two loose–packed retaining rings	**STANDARD MODIFICATION CODE:** **W33** = Lubrication holes and grooves on the outer ring	Radial Internal Clearance (RIC)

ADDITIONAL DESIGN DETAILS:

- Double-sealed and factory filled with high-performance grease
- Double-row, full-compliment cylindrical roller bearing design
- Manufactured from premium materials
- **Solid large bore clip** ensures bearing rigidity as the two inner rings remain securely aligned and do not rotate relative to one another during operation
- **Two snap rings DIN 471** for axial location of the bearing within the bore of the sheave
- Standard W33 lubrication groove on outer ring with three holes for easier bearing lubrication
- Readily available in **C0 and C3 clearances** (additional clearances available on request)



Reliable port equipment performance is critical to maintaining productivity and minimizing downtime. Whether you are a terminal operator, port equipment owner, crane OEM, sheave manufacturer, or service and repair provider, you can count on the NNF50 product line for dependable performance and availability.

Inventory is maintained through strategically located warehouses and authorized distribution partners worldwide, helping ensure the bearings you need are available.

TIMKEN

The Timken Company partners with customers to design and manufacture advanced motion technology systems and components for critical end markets including aerospace and defense, power and electrification, and automation and industrial solutions. With more than 125 years of specialized engineering expertise, we power performance across the application lifecycle.

www.timkenmarine.com

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