



Keep your cool when production heats up.

The environment for manufacturing metals is a hot and harsh one, and this is no different when it comes to cooling the product. NTN's global footprint in metals manufacturing ensures you're getting the very best. This is why NTN has custom-made products specifically tailored to cooling bed operations. We can take the heat so your production doesn't have to.



We can take the heat.

From the extreme radiating heat of freshly-rolled metal plates, to high torque, low speed, and short cycles times, cooling bed support bearings take severe abuse. These harsh conditions can easily cause bearings to seize, leading to wear on other components in the cooling bed, or worse, scoring damage to the metal plate. Our bearings are designed by experienced engineers with a deep understanding of your equipment, and are precision engineered to withstand the harshest abuse. No wonder we've been trusted by the metals market for over 35 years.



You work 24/7. So do we.

Your mill runs around the clock... shouldn't your bearings do the same? At NTN, we're committed to getting you the products you need, whenever you need them. That's why we offer fast replacement parts through your local distributor, all stocked and ready to ship at a moment's notice. And if you ever need installation or technical support, we have experts with decades of metals experience who can assist you day or night.

Key NTN products for cooling beds.

NTN TOPLINE® F604 SERIES DEEP GROOVE BALL BEARINGS (DGBB)

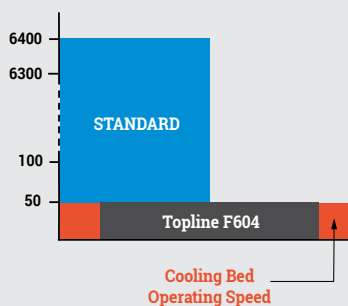
Designed for High-Heat Applications

- Designed to reduce structural changes from extreme radiant heat in operating temperatures up to 350°C (660°F).
- Large radial clearances compensate for thermal expansion of components at temperatures above 200°C (390°F).
- Graphite-infused lubricant incorporates the best high-temperature features of both grease and graphite.

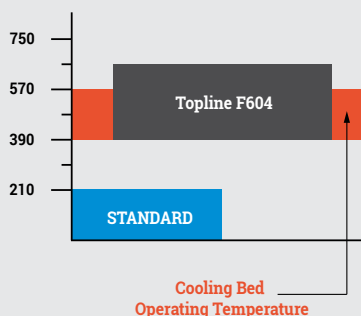
Superior Low-Speed Performance

- Robust internal design supports speeds under 50 rpm, well outside of operating range for standard bearings.
- Phosphate surface treatment with dry lubricant deposits adds bearing raceway protection during constant start/stop operation.
- Dual steel shields minimize contamination infiltration without increasing torque.

Operating Speed (RPM)



Operating Temperature °F



Beyond Bearings

Training. Installation Support. Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:



Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers



Product Training School

Three days of in-depth instruction from NTN engineers at headquarters (go.ntnamerica.com/trainingschool)



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature (www.ntnamerica.com/eknowledge)



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings (bearingfinder.ntnamerica.com)

Don't lose your cool.

We're here to help you achieve your productivity and performance goals. For more information, contact your NTN Sales Representative or **call 1.800.323.2358**. For technical questions, **email eng@ntnamerica.com**.

NTN USA CORPORATION • 1600 E. Bishop Court • Mount Prospect, IL 60056-7604
Tel: 847-298-7500 • Fax: 847-294-1205 • www.ntnamerica.com

