



BIOMASS INDUSTRY Pellet press

Reduce machine downtime and maintenance costs





Brands of
NTN Group

No more costly machine downtime!

Choose longevity, choose NTN.

The extreme pressures exerted on your press rollers put your bearings to the test.

Thanks to their proven robustness, NTN bearings are the preferred choice of leaders in the biomass industry, from pellet producers to the most demanding press manufacturers.

| TCO* | Objectives |
|---|--|
|  <p>Reduction in maintenance interventions and production downtime</p> | <ul style="list-style-type: none">• Less maintenance• Reduced operating costs <p>Save time and money!</p> |
|  | <h3>Solutions</h3> <p>Average bearing life</p> <ul style="list-style-type: none">• x2 on average• + 40% minimum (**) |

*TCO (Total Cost of Ownership)

** Results obtained from internal studies, feedback, and comparative tests against several competitors



Gain 40 %* in service life thanks to NTN

Ideally suited to the production of wood pellets and granules for animal feed.

NTN Tapered roller bearings



Benefits

Extreme resistance

- To wear and impact, even in the presence of contaminating particles (1)
- To very high loads, thanks in particular to better load distribution and reduced stress (1,2,4)

Improved misalignment tolerance

- For perfect adaptation to actual operating conditions (2)

Reduced operating temperatures

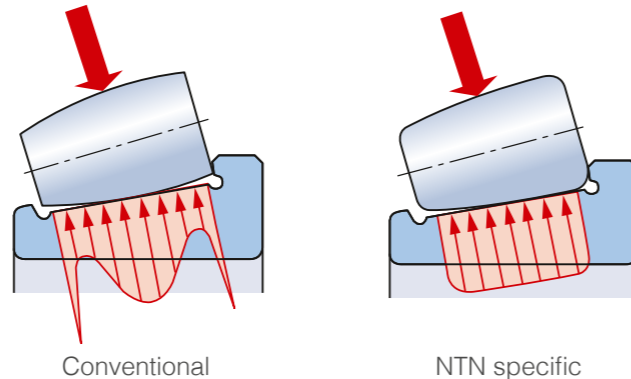
- Minimisation of friction and more efficient lubricant film formation (2,3,4)



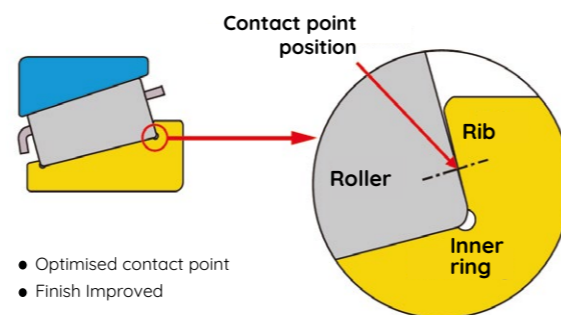
Features

1. Very high inclusion cleanliness steel, obtained thanks to requirements exceeding the **ISO 4967** standard and strict, continuous supplier assessment.

2. Optimised roller and track profiles (*)



3. Improved collar/roller contact design minimises rotational torque and allows for a speed limit up to **+10% higher than standard (*)**



- Optimised contact point
- Finish Improved

4. Superfine surface finishes

Ra (average arithmetic roughness) values are less than **1/10th of a micron**

"which is 700 times smaller than the diameter of a human hair!"

NTN Spherical roller bearings



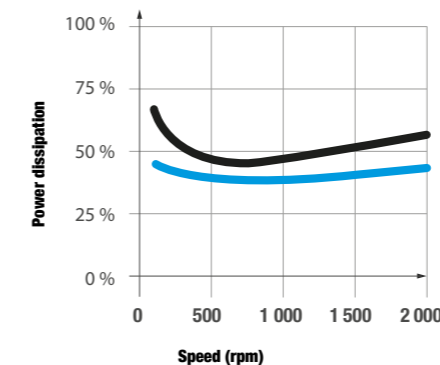
Benefits

+ 10 % load capacity (*) compared to competitors (1,2)

Reduced operating temperatures (*)

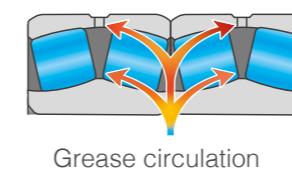
- Reduced friction
- More effective lubricant film formation

Improved lubricant circulation (2,3,4,5)



— Standard spherical roller bearings
— NTN spherical roller bearings

Lubricant



Excellent dimensional stability of the bearing up to 200 °C, without altering the mechanical properties (5)

Features

1. Very high inclusion purity steel

2. Elimination of the central guide ring

- Maximising roller size
- Reduce operating torque by up to 4%

3. Improved surface quality

Ra (arithmetic mean roughness) values are less than **1/10th of a micron**

4. Monobloc brass cage

- Machined, centred on the rollers
- Optimised design for better roller guidance
- Highly resistant to mechanical stress



5. Specific heat treatment

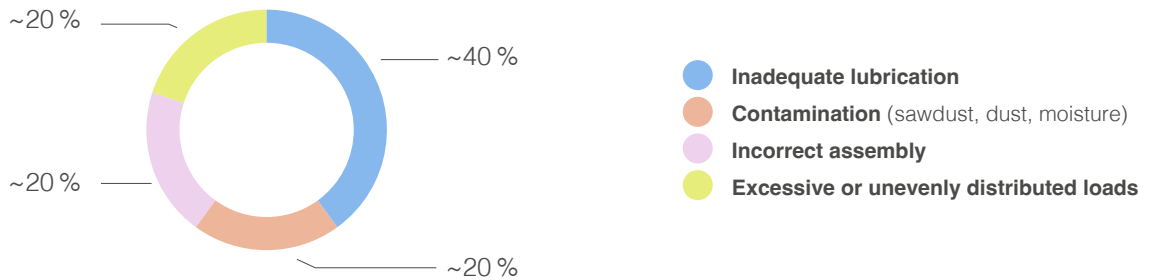
Martensitic hardening (increases steel hardness), followed by high-temperature tempering (relieves internal stresses)

+40%*
Increase in service life

*Results obtained from internal studies, feedback, and comparative tests against several competitors.

We are at your service

Did you know that the main causes of pellet press bearing failure are:

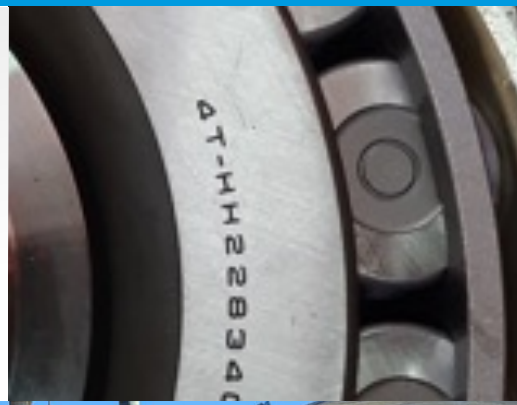


Under pressure? Call on a reliable partner.

NTN provides you with an immediate solution: products available quickly through our distributor network, and experts at your side to advise you, train your teams and ensure efficient commissioning.

With NTN, your team has all the tools and resources it needs to ensure **successful installation and optimal operation**. From **initial assembly to on-site diagnostics**, we support you every step of the way with **practical technical assistance**.

Reliability. Performance. Availability.



NTN

Make the world **NAMERAKA**



DOC_L_PRESSE_A_GRAVULES_ARG_L_A4_3VOLETS_GBa - CODE SAP XXXX - Document non contractuel - NTN Europe copyright international - 07/25- Photos : NTN Europe - Pedro Stabile Photos

This document is the exclusive property of NTN Europe. Any total or partial reproduction hereof without the prior consent of NTN Europe is strictly prohibited. Legal action may be brought against anyone breaching the terms of this paragraph. NTN Europe shall not be held liable for any errors or omissions that may have crept into this document despite the care taken in drafting it. Due to our policy of continuous research and development, we reserve the right to make changes without notice to all or part of the products and specifications mentioned in this document.
© NTN Europe, international copyright 2025.

NTN Europe - 1 rue des Usines - 74000 Annecy
RCS ANNECY B 325 821 072 - Code APE 2815Z - Code NACE 28.15
www.ntn-europe.com

NTN[®]

SNR[®]

BCA[™]
BEARINGS

BOWER[®]

Brands of
NTN Group