SIMPLIFY YOUR ACTIVITY WITH THE NTN-SNR OFFERING:

- Solutions for every stage of the manufacturing process.
- Absolute reliability to reduce your maintenance intervals.
- Complete kits, designed to have everything on hand.

1. GRINDING/CRUNSHING

Spherical roller bearings of large size (up to 600 mm) and SNCD ductile cast iron bearings, the turnkey solution for increased impact resistance.

You no longer need to worry about impacts with our range of spherical roller bearings and bearing housings!

2. SCREENING

Spherical roller bearings EF800, a range designed for extreme resistance to vibrations.

Our EF800 bearings: the perfect solution for vibrating applications.

3. CONVEYING

SNC bearing housing/open or sealed bearing kits:

Order a single product reference and be sure everything is available...

It is simple, everything is in the box!

Sealed bearing kits: Increased service life for conveyors. Mounting is made easy thanks to our kits including the specific elements of sealed spherical roller bearings.

We have thought of everything to make mounting easier for you!

AGR insert bearings: Premium protection against pollution and lifelong lubrication for reduced maintenance. Adaptable to all self-aligning ball bearing types.

Once you’ve mounted it, forget about it!
NTN-SNR, a leading player

Expert in Product Life Cycle Management, NTN Corporation is characterised by the closeness and commitment of its teams. We think ahead to development projects in your strategic markets. Our engineers work with you to design solutions specific to your market. Our NTN and SNR brands contribute to the excellence of your machines and so support their promotion.

LUBRICATION, TOOLS & SERVICES

Providing you with a complete solution of tools and services for your bearings, suited to your application, size and resources.

LUBRICATION RANGE:
Greases: Heavy Duty/VIB.
Single-point lubrication system: Drive Booster.

TOOL RANGE:
A complete range for mounting and removal assistance.

TRAINING:
Training of your employees on the choice and maintenance of bearings.

TECHNICAL ASSISTANCE:
Our Experts & Tools specialists help with maintenance work using our mobile assistance concept, the BeBox.

For any information don’t hesitate to contact your distributor or to visit our NTN-SNR website.
QUARRY PACK

ALWAYS EFFECTIVE AND RELIABLE

in extreme conditions

Distributed by:

NTN-SNR ROULEMENTS - 1 rue des Usines - 74000 Annecy
RCS ANNÉCY B 325 821 072 - Code APE 2815Z - Code NACE 28.15

www.ntn-snr.com
NTN-SNR SOLUTIONS
SEALED BEARING KITS
FOR CONVEYORS
QUARRIES, MINES & CEMENT PLANTS

With You

www.ntn-snr.com

**Benefits of kits**

- No error in the choice of components
- Simplicity of ordering and storage
  (Only 1 reference to manage instead of 3)
- No oversight at the time of mounting
- Mounting kit for fixed and floating bearings (2 in 1)*

* Mounting in standard cast iron bearing housing (SNC NTN-SNR type)

**SPECIFIC CHARACTERISTICS:**

- Longer service life of the bearing
- Reduced maintenance costs
- Reduction of environmental impact
- Interchangeability with standard open bearings

**OPT FOR THE ALL-IN-ONE**

CREATED TO INCREASE PRODUCTIVITY, PERFORMANCE AND RELIABILITY IN HARSH ENVIRONMENTS
Shaft diameters from 35 to 90 mm

26 available KIT references:
- 13 with normal clearance
- 13 with C3 clearance

On request, possibility of extending the range to other shaft diameters

<table>
<thead>
<tr>
<th>Description</th>
<th>Overall dimensions</th>
<th>Fatigue load limit</th>
<th>Basic capacity</th>
<th>Calculation factors</th>
<th>Limit speed</th>
<th>Weight</th>
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www.ntn-snr.com
Benefits of kit

- More cost-effective than purchasing components separately
- No error in the choice of accessories
- No oversight of elements at the time of the order and/or mounting
- Simplicity of ordering and storage: Only 1 reference to manage
- Cover plate and locating rings included: for mounting fixed or floating bearings

OPT FOR THE ALL-IN-ONE
### SNC BEARING KITS + ULTAGE OPEN BEARING

**Shaft diameters:**
- from 35 to 80 mm

**20 KIT references available:**
- 10 With normal clearance
- 10 With C3 clearance

**On request, possibility of extending the range to other shaft diameters**

<table>
<thead>
<tr>
<th>Description</th>
<th>d [mm]</th>
<th>Bearing ref.</th>
<th>Shaft [mm]</th>
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### SNC BEARING KITS + ULTAGE SEALED BEARING

**Shaft diameters:**
- from 35 to 80 mm

**20 KIT references available:**
- 10 With normal clearance
- 10 With C3 clearance

**On request, possibility of extending the range to other shaft diameters**

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</tbody>
</table>
**AGR: INSERT BEARINGS FOR CONVEYORS**

**QUARRIES, MINES & CEMENT PLANTS**

---

**ALL-PURPOSE BEARING**

**Benefits**

- Protection against splashes in very tough environments
- Sealing suitable for high-pressure cleaning
- Lifelong lubricated insert - no need to re-grease

---

Compatible with all self-aligning cast iron ball bearings in the NTN-SNR range
# AGR: INSERT BEARINGS FOR CONVEYORS

**UC…AGR**  tightening by set screws (2 possible rotation directions)

<table>
<thead>
<tr>
<th>Description</th>
<th>d</th>
<th>D</th>
<th>C</th>
<th>B</th>
<th>S</th>
<th>m</th>
<th>G</th>
<th>r</th>
<th>Load capacities</th>
<th>Weight</th>
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*Width dimensions higher than standard version.

**EX…AGR**  Fixing to shaft using eccentric locking collar (1 rotation direction)

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*Width dimensions higher than standard version.

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RCS ANNECY B 325 821 072 - Code APE 2815Z - Code NACE 28.15
www.ntn-snr.com
After SNCD500 NTN-SNR will continue its range extension with the large SNCD31 and 30 series for both cylindrical and tapered bore bearings. The new SNCD31 are consequently made from spheroidal cast material to have highest shock resistance and good low temperature behavior. This series is interchangeable with SD series according to ISO 113.

Extend the life duration with the SNC plunger block housing range!

The optimized design provides excellent rigidity and stability, vibration dampening and improves strength and heat dissipation characteristics in order to provide reduced stress levels in the bearing and a cooler running temperature of its lubricant and thereby extending operating and service life.

The SNCD plunger block housings are designed for installation of spherical roller bearings. We recommend the use of our ULTAGE spherical roller bearings with higher increased load capacities and extended service life, to take advantage of the optimal characteristics of the SNC Housings.

We complete our range with the tools and solutions of our service department.
Your benefits:

Improved shape to guarantee excellent stability and rigidity of bearing seat by:

- Belt on upper part
- Optimized radii

Reinforced bearing seat

- Uniform load distribution
- >> increased bearing life

Machined surface in two axes allows an easy alignment during installation

Connection options:

- Delivered with 3 lubrication holes
- 2 grease nipples and added adapter
- 2 x drain holes
- 2 metric threads for vibration measurement
- 1 pipe thread for temperature measurement device
- All bores sealed with screws

Sealing options

SNCD31 are available with 2 different sealing designs. The most common is a basic labyrinth seal. For severe conditions a taconite seal is available consisting of a 2 part axial labyrinth. For shaft end assemblies the housings can be closed with an end cover.

With our ULTAGE spherical roller bearings you will have a perfect combination of best in class products for your industry, such as:

- Conveyer systems
- Belt pulleys
- Hoists
ULTAGE SPHERICAL ROLLER BEARINGS
Get bigger / Now up to 600 mm
NOW YOU CAN BENEFIT FROM ALL
THE ADVANTAGES OF THE ULTAGE GENERATION:

Surface optimisation
Improved performance
> reduced dimensions
Increased operating speeds
Reduced friction torque
Reduced power consumption
Reduced operating costs

Designed for applications in extremely harsh operating environments (steelworks, paper mills, wind farms, mines and quarries, etc.), spherical roller bearings need to be able to withstand:

- high loads and temperatures
- major misalignments
- polluted atmospheres
- impacts, vibrations.

All these conditions call for exceptional mechanical qualities.

The NTN-SNR engineers and scientists therefore work tirelessly on:

- materials selection, heat treatments, surface treatments
- product design
- kinematics of bearings when combining the effects of lubrication with reduced friction, wear & tear and pollution
- manufacturing technologies and improvement of the manufacturing processes.

All this effort generates spectacular results.

Thanks to their dynamic load capacities, among the highest on the market, and the optimisation of all constituent parts of the bearing, NTN-SNR ULTAGE spherical roller bearings allow you to benefit from PREMIUM performance:

- double the service life compared to a standard solution
- improved reliability for your installations
- reduced costs of use.
ULTAGE SPHERICAL ROLLER BEARINGS ARE NOW UP TO 600 MM OUTSIDE DIAMETER

NTN-SNR has extended its premium quality to include larger size bearings.

Previously, Ultage Spherical Roller bearings were available with outside diameter up to 420mm. You can now benefit from all the advantages of the Ultage generation on larger size SRB with outside diameters up to 600mm.

The new range is fitted with massive brass cages. They can be ordered with cylindrical or tapered bore. In case of tapered bore, a comprehensive range of adapter sleeves and withdrawal sleeves is available.

List of large size Ultage double-row spherical roller bearings already available

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<tr>
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</table>

Bearings available with cylindrical or tapered bore. All types of clearances are available on stock or on request. *NTN-SNR ULTAGE bearing. All other Ultage Spherical Roller Bearings from 420mm up to 600mm OD are available upon request.
ULTAGE

SPHERICAL ROLLER BEARINGS

Get bigger / Now up to 600 mm
VIBRATING SCREEN APPLICATIONS
EF800 ULTAGE
Spherical roller bearings
www.ntn-snr.com
With You
THE FEATURES THAT MAKE THE EF800 ULTAGE

OPTIMISED MASSIVE BRASS CAGE: PROVEN RELIABILITY
The high radial accelerations of vibrating applications place a particular stress on the cage. The EF800 series is equipped with a cage able to respond to this.

- Symmetrical rollers with a machined brass alloy one-piece cage centered on the rolling elements.
- No floating guide ring or fixed central shoulder section. This prevents any risk of cage/ring seizure in the event of thermal expansion. The self-lubricating properties of the cage material reduce heat buildup at high speeds.
- The contoured profile of the cage pockets, combined with the capacity of the copper alloy to withstand impacts, guarantees the stability of the rolling elements under the harshest of operating conditions.

Pollution, overload, overheating, housing deformation or loss of lubricant efficiency are the mains causes of failure. When initial damage occurs, the massive brass cage ensures a longer service life, allowing the planning of preventive maintenance.

SPECIFIC DIMENSIONAL TOLERANCES: GUARANTEED STABILITY
The EF800 specification sets out reduced bore tolerances for cylindrical bores, for the tapered bores and for the outer diameters, compared with the tolerance ranges of the standard series, guaranteeing perfect ring adjustment.

- Cylindrical bore: reduced tolerances to g6 or f6 type.
- Tapered bore: reduced tolerances enabling limitation of the axial displacement of the inner ring when setting the clearance during assembly, thereby facilitating the assembly operations.
- Outer diameter: reduced tolerances to P6 type.

REDUCED INTERNAL RADIAL CLEARANCE: EASY SET-UP
In order to avoid any risk of preload on the bearings, linked to adjustment defects or deformation of the shaft or housing seating surfaces. NTN-SNR proposes a special radial clearance range that facilitates achievement and control of final radial clearance after assembly and takes specific operating conditions into account for these materials.

- EF800 series = C4 with reduced tolerance

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In certain cases, applications may require the use of a clearance other than C4.
- EF801 series = C3 with reduced tolerance
## EF800 SERIES: SPECIFIC BEARINGS FOR APPLICATIONS SUBJECT TO HIGH VIBRATIONS

The vibratory mechanisms such as those found in screeners, crushers, grinders constitute some of the most demanding applications for bearings. NTN-SNR, from the ULTAGE spherical roller bearing range, has developed a specific design to meet these critical requirements: EF800 series.

### ADVANTAGES OF THE ULTAGE RANGE:

- Surface optimisation
- Reduced power consumption
- Improved performance
- Reduced friction torque
- Increased operating speeds
- Reduced operating costs

### REQUIREMENTS FOR YOUR APPLICATIONS SUBJECT HIGH VIBRATING

High vibration machinery (shaker screens, crushers, grinders, etc.) subject bearings to high levels of stress: heavy loads, radial acceleration, centrifugal forces, a highly polluted environment, etc. All this imposes reliability and specific resistance characteristics on the spherical roller bearings.

### EF800 SERIES CATALOGUE LIST

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Diameters (mm)</th>
<th>Designations</th>
<th>Static load limits (kN)</th>
<th>Dynamic load limits (kN)</th>
<th>Calculation factors</th>
<th>Reference speeds (min⁻¹)</th>
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### THESE BEARINGS ARE:

- Available with a cylindrical or tapered bore (K)
- Available with bore diameters from 40 mm to 200 mm
- Manufactured according to EF800 specifications which define the special tolerances and radial clearance of spherical roller bearings
- Available on request for the other series and other dimensions upon request
EF800 Series is particularly suited to increase the bearing life duration in the most demanding of mine and quarry applications, as may be encountered in screeners, crushers, grinders... AND TO DECREASE MAINTENANCE COSTS.

**Romain DELHAYE**  
Quarry Manager  
A2C GRANULAT

“Our installation is subject to very high production demands making availability for maintenance limited. That is why we have to fit machine components, in particular the bearings, with the most reliable and durable equipment possible.

Our aim as quarry operators is to ensure site productivity and efficiency are as high as possible. This keeps **costs down** and **limits machine downtime**.

Crushers and screeners are subject to radial stress due to the large amount of impacts and vibration. NTN-SNR has developed a special range of spherical roller bearings with brass cage: EF800 bearings.

We have seen a real **increase in productivity**, thanks to the quality of NTN-SNR EF800 series.”
A MUST FOR MOUNTING / DISMOUNTING EF800 SERIES (TAPERED BORE)

HYDRAULIC NUT HMV SERIES FROM NTN-SNR

3 GOOD REASONS TO USE HYDRAULIC NUTS FROM NTN SNR

• The most professional tool to provide the drive up force required
• Precise and reliable adjustment of radial bearing clearance
• Cost effective, easy to use and secure, it will reduce your down time

TOTALLY ADAPTED FOR GREASING EF800 SERIES

LUBRICATION VIB VIBRATIONS & SHOCKS FROM NTN-SNR

This grease is an ideal lubricant for parts subjected to extensive vibrations or impact. Recommended for quarries, cement plants, public works operations, high-load applications in humid, dusty and muddy environments.

STANDARD APPLICATIONS

Shafts in scoops, crushers, grinders, vibrating screeners, scalpers, feeders, washing machines, industrial fans, etc.

BENEFITS

Excellent resistance to impact, vibrations and heavy loads, excellent resistance to water guaranteeing long-term lubrication.

TEMPERATURE RANGE

From -20°C to +140°C.

EASY DISMOUNTING FOR EF800 TO AVOID FRETTING CORROSION

ANTI-FRETTING PASTE

The NTN-SNR anti-fretting paste is specially designed to prevent contact rust between 2 metal surfaces.

COMMERCIAL REFERENCES

LUB ANTI FRETTING PASTE / T 60G
LUB ANTI FRETTING PASTE / B 750G
HEAVY INDUSTRY
OUR LUBRICATION SOLUTIONS
TAILORED TO YOUR NEEDS
benefits of automatic lubrication

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With You
1 REVIEW OF APPLICATION/EQUIPMENT TYPE

4 MAIN APPLICATIONS TO FOCUS ON:

**Electric motor lubrication**
**Points to check:**
- Motor manufacturer’s recommendations
- Motor speed
- Grease trap / escape port design, access and condition
- Bearing types
- Historical lubrication practices
- Requirements for safe access
- Desired service schedule
- Location of lubrication points on bearing housings

**Industry:** mining
**Application:** electric motor bearings
**Lubrication system:** NTN-SNR DRIVE BOOSTER
**Installation solution:** remote beam clamp mount

**Fan bearing and seal lubrication**
**Points to check:**
- Bearing types & speeds
- Seal types
- Characteristics of recommended lubricant
- Operating conditions
- Historical lubrication practices
- Requirements for safe access
- Desired service schedule
- Location of grease entry points on bearing housings

**Industry:** power plant
**Application:** fan / blower bearings
**Lubrication system:** NTN-SNR DRIVE BOOSTER
**Installation solution:** remote beam clamp mount

**Slurry pump lubrication**
**Points to check:**
- Pump manufacturer’s recommendations
- Seal types
- Characteristics of recommended lubricant
- Typical bearing operating temperatures
- Operating conditions
- Bearing types, lubrication points and grease migration directions
- Historical lubrication practices
- Desired service schedule
- Wash down procedures
- Requirements for safe access

**Industry:** quarry
**Application:** slurry pump
**Lubrication system:** NTN-SNR DRIVE BOOSTER
**Installation solution:** remote beam clamp mount

**Conveyor pulley bearing lubrication**
**Points to check:**
- Bearing types & speeds
- Seal types
- Characteristics of recommended lubricant
- Operating conditions
- Historical lubrication practices
- Requirements for safe access
- Desired service schedule
- Location of lubrication points on bearing housings

**Industry:** quarry
**Application:** conveyor bearing / seal (hybrid solution)
**Lubrication system:** NTN-SNR DRIVE BOOSTER
**Installation solution:** remote beam clamp mount
CHOICE OF INSTALLATION METHOD

REMOTE INSTALLATION DECISION MAKING

In many cases, it is safer to install remote mount lubrication systems as access can’t be free from hazards while machinery is operating.

A “YES” to any of the questions indicates that remote mounting is likely to be required.

1. Is it necessary to remove protective guards or safety cages to access the lubrication point?
2. Is it difficult or unsafe-to-access the lubrication point while equipment is running?
3. Is the lubrication point subject to severe vibration or high temperatures which may damage the lubrication system?
4. Is it necessary to get permits to access lubrication points such as those in confined spaces or located at heights?
5. Is the lubrication point exposed to excessive amounts of water, process materials or impact from solid material?

Common mounting - DRIVE BOOSTER ACCESSORIES

A
1 x Reducer G1/8 male x G1/4 female
1 x Reducer M6 male x G1/4 female
1 x Reducer M8x1 male x G1/4 female
1 x Reducer M10x1 male x G1/4 female

B
1 x Extension 45 mm G1/4 male x G1/4 female

C
1 x Angle 45° or 90° G1/4 male x G1/4 female

D
1 x Support flange

LUBER PROTECTION BASE G1/4 male x G1/4 female

Common mounting - READY BOOSTER ACCESSORIES

A
1 x Reducer G1/8 male x G1/4 female
1 x Reducer M6 male x G1/4 female
1 x Reducer M8x1 male x G1/4 female
1 x Reducer M10x1 male x G1/4 female

B
1 x Extension 45 mm G1/4 male x G1/4 female

C
1 x Angle 45° or 90° G1/4 male x G1/4 female

D
1 x Support flange

LUBER PROTECTION BASE G1/4 male x G1/4 female

Standard duty INSTALLATION KITS

They are highly versatile and can be adapted for attachment to beam sections or square mesh safety cages.

Heavy duty INSTALLATION KITS

They have been specifically designed for use in operational areas which are subject to regular wash down and water impact, such as the conditions found in coal handling preparation plants.
### CHOICE OF LUBRICATION SOLUTION AND LUBRICANT POINT

#### CHOICE OF SINGLE-POINT LUBRICATION SYSTEM

<table>
<thead>
<tr>
<th></th>
<th>READY</th>
<th>SMART</th>
<th>DRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td>-20° to 60°C</td>
<td>-20° to 60°C</td>
<td>-10° to 60°C</td>
</tr>
<tr>
<td>Bar</td>
<td>Max 5 Bar</td>
<td>Max 6 Bar</td>
<td>6 Bar</td>
</tr>
<tr>
<td>cm³</td>
<td>60 / 125 cm³</td>
<td>125 cm³</td>
<td>120 / 250 cm³</td>
</tr>
<tr>
<td>months</td>
<td>1, 2, 3... 12 months</td>
<td>1, 2, 3... 12 months</td>
<td>1, 2, 3... 12 months</td>
</tr>
<tr>
<td></td>
<td>at +20 °C / UNIVERSAL+ without counter pressure</td>
<td>independent of operating temperature</td>
<td>independent of operating temperature and counter pressure</td>
</tr>
<tr>
<td></td>
<td>&lt; 2 meter hose extension at +20 °C with lubricant UNIVERSAL+, hose Ø 9.5 mm</td>
<td>&lt; 5 meter hose extension at +20 °C with lubricant UNIVERSAL+, hose Ø 9.5 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP 68</td>
<td>IP 65</td>
<td>IP 65</td>
</tr>
</tbody>
</table>

#### FOR YOUR APPLICATION

0 limited suitability
1+ suitable
2++ very suitable

<table>
<thead>
<tr>
<th></th>
<th>conveyors</th>
<th>electric motors</th>
<th>pumps</th>
<th>blowers / fans</th>
</tr>
</thead>
<tbody>
<tr>
<td>READY</td>
<td>1+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>SMART</td>
<td>0</td>
<td>+</td>
<td>0</td>
<td>+</td>
</tr>
<tr>
<td>DRIVE</td>
<td>2++</td>
<td>2++</td>
<td>2++</td>
<td>2++</td>
</tr>
</tbody>
</table>

**Regular load GREASES** (high speed greases)
- Shell Gadus S2 V100 2 (Avania RL 2) *
- Shell Gadus S5 T100 2 (Stamina RLS 2) *
- ExxonMobil MOBIL POLYREX EM *
- Castrol Sphérol AP 2 *
- NTN SNR LUB UNIVERSAL+

**Multipurpose GREASES** (extreme pressure greases)
- NTN SNR LUB HEAVY DUTY+
- Shell Gadus S3 V220C 2 (Albida EP 2) *

*Grease available on demand only. MOQ will apply.*
**SELECTION OF THE INSTALLATION KIT**

**STANDARD DUTY KITS**

### Installation kit standard duty beam clamp mount

**READY / SMART BOOSTER**

1-point beam clamp mount incl. 1 m hose

- **LUBER SDKIT 1P 30 mm BEAM CLAMP**
- **LUBER SDKIT 1P 65 mm BEAM CLAMP**

### Installation kit standard duty cage hanger mount

**READY / SMART BOOSTER**

1-point cage hanger mount incl. 1 m hose

#### A Brackets
Compact stainless steel brackets. Can be easily attached to square cage mesh using a hook attachment design or to beam sections using beam clamps.

#### B Beam clamp
Easy-to-use beam clamps, supplied with case hardened cup head set screws and stainless steel assembly screws. 30 or 65 mm available.

#### C Purge connection with manual valve G1/4 (optional)
Used for convenient additions of supplementary grease, line purging and grease blockage cleaning.

#### D Angle 90° R1/4 male x G1/4 female

#### E Hose connector G1/4 male
For hose ø9.5 mm. Two included per lubrication point.

#### F Heavy Duty hose
Supplied with ø9.5 mm : 1 m per lubrication point is included.

#### G Reducing adapter
Three reducers R1/8, R1/4 and M10x1 included for each lubrication point.

#### H Hose spiral guard

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**1 Support flange**

**READY PROTECTION BASE**

G1/4 male x G1/4 female

Only for READY Booster. Please order separately.
**SELECTION OF THE INSTALLATION KIT**

**HEAVY DUTY KITS**

**INSTALLATION KIT HEAVY DUTY BEAM CLAMP MOUNT**

1 point beam clamp mount for DRIVE BOOSTER. incl. 2 m hose

2 points beam clamp mount for DRIVE BOOSTER. incl. 4 m hose

**INSTALLATION KIT HEAVY DUTY CAGE HANGER MOUNT**

1 point cage hanger mount for DRIVE BOOSTER. incl. 2 m hose

2 points cage hanger mount for DRIVE BOOSTER. incl. 4 m hose

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**A** Brackets incl.
1. Support flange DRIVE
2. Cover clip for protection cap
3. Protection cap DRIVE BOOSTER Heavy Duty 250 (plastic)

Compact stainless steel brackets. Can be easily attached to square cage mesh using a hook attachment design or to beam sections using beam clamps.

**B** Beam clamp

Easy-to-use beam clamps supplied with case hardened cup head set screws and stainless steel assembly screws. 30 or 65 mm available.

**B’** Cage hanger arm (stainless steel)

**C** Purge connection with manual valve G1/4 (optional)

Used for convenient additions of supplementary grease, line purging and grease blockage cleaning.

**D** Angle 90° R1/4 male x G1/4 female

**E** Hose connector G1/4 male

For hose iØ 9.5 mm. Two included per lubrication point.

**F** Heavy Duty hose

Supplied with iØ 9.5 mm hose 2 m per point.

**G** Reducing adapter

Three reducers R1/8, R1/4 and M10x1 included for each lubrication point.

**H** Hose spiral guard

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**NOTES:**

- Optional components are indicated by "Optional" label.
- All components are designed for reliable operation in heavy-duty applications.
- Detailed specifications and additional options are available in the product catalog.
HEAVY INDUSTRY:
OUR LUBRICATION SOLUTIONS TAILORED TO YOUR NEEDS

BENEFITS OF AUTOMATIC LUBRICATION

Only appropriate lubrication can guarantee the optimal operation of bearings and the related mechanical assembly. 55% of premature bearing failures are caused by inappropriate lubrication.

Too much grease
• Increase in operating temperature
• Degradation of grease with high speed bearings
• Use of fresh grease not optimized
• Possibility to damage contact type seals

Too little grease
• Premature wear
• Under-lubrication leads to accelerated degradation of remaining grease
• Risk of contamination entry due to lack of lubricant purge

The automatic lubricator can be used to ensure the constant and regular lubrication of your bearings. The lubricator is easy to integrate and can be used to optimize lubrication without any need to modify your installations.

WHY AND WHERE DO WE NEED AUTOMATIC LUBRICATORS

1) Prevention of bearing contamination
   a. Pump seal purging
   b. Conveyor pulley bearing re-lubrication & seal purging
   c. Lubrication of bearing & seal purging at the same time

2) Improvement in safety & efficiency
   a. Remotely mounted lubrication system used for a conveyor pulley where the bearings are mounted behind a guard thereby avoiding unnecessary access
   b. Automatically relubricate equipment in confined spaces or at excess height where a permit may be required
   c. Remotely mounted lubrication systems at ground level for difficult to access equipment such as large electric motors, fans and pumps

Safety gain: Improve safety by avoiding the need to lift, handle cages or guards, to perform work at heights, or within confined spaces by providing safe to access locations for the lubricators.

Efficiency gain: Save time which would otherwise be required during shutdowns for permits, isolations, equipment preparation and other time consuming requirements.

REVIEW & SELECTION PROCEDURE
4 SIMPLE STEPS TO CHOOSE THE RIGHT LUBRICATION SOLUTION

1. Review of the application or equipment type
2. Choice of installation method
3. Choice of lubrication solution and lubricant type
4. Selection of the installation kit