

## Characteristics

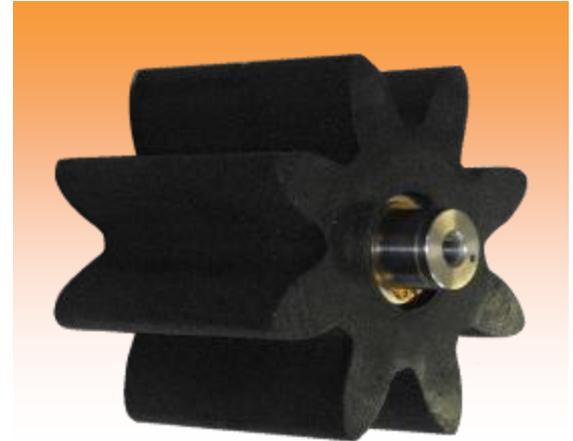
- **Stainless steel Rotating Grease distribution manifold;**
- **Porous and absorbent foam;**
- **Excellent distribution of lubricant;**
- **Many gear modules available;**
- **Sized to specification;**
- **Available with fixing bracket for your application.**

## Lubricating Pinion For gear rim and racks lubrication

The Dropsa Lubrication pinion is an innovative solution that replaces manual and troublesome lubrication of gear rims and racks.

This solution saves time and money by allowing automatic application of precise quantities of lubricant.

The unit comprises a central rotary stainless steel axel greasing distribution system and a absorbent foam allowing it to be used in demanding application due to its robustness.



The lubricating pinion is rotated by the moving gear rim; as it rotates grease is automatically deposited onto the gear rim and then replenished via the central rotary distributor that receives fresh grease from a centralised pump system.

### Benefits of using Dropsa Lubrication Pinion over traditional methods:

- Grease is applied systematically and uniformly on all parts of the gear rim - It is no longer left to the ability of the operator;
- The quantity of grease delivered can be accurately determined by the use of a Dropsa lubrication system;
- Use of a completely automatic lubrication system reduces operator costs to a minimum;
- Being completely automatic, the lubrication task is never forgotten!

Numerous applications exist for this type of device, for example yaw gears on wind turbines.

## Applications

- **Wind Energy :**  
Yaw rim;  
Blade Pitch.
- **Industries:**  
Tower cranes. Mobile equipment.



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## Lubricating Pinion

### Technical Information

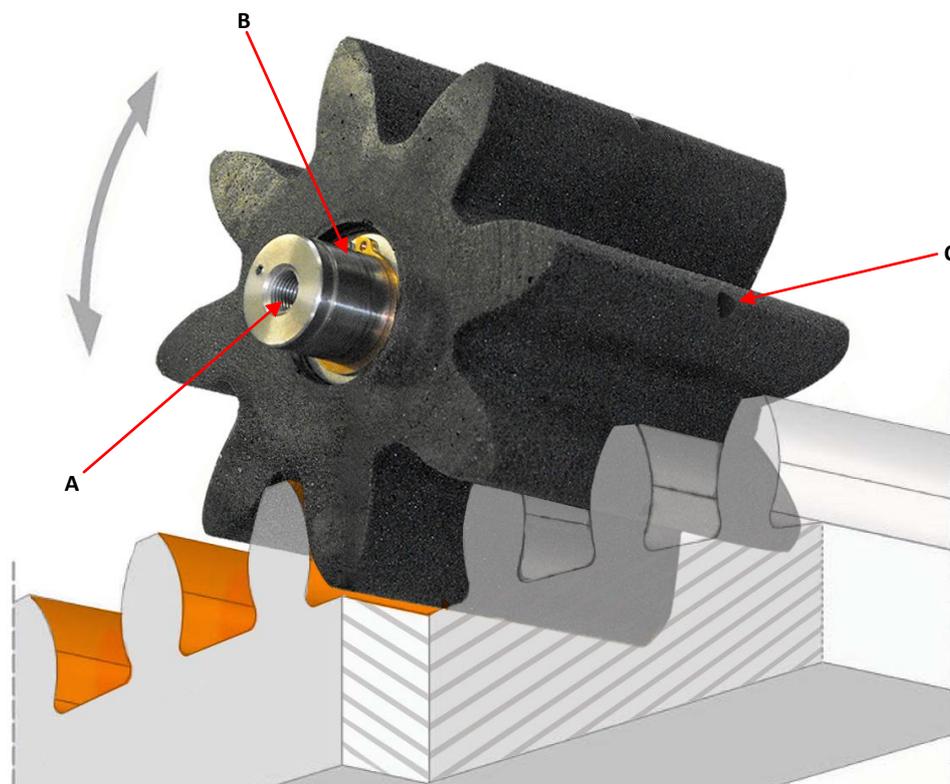
| TECHNICAL CHARACTERISTICS |                                   |
|---------------------------|-----------------------------------|
| Lubricant                 | Grease to NLGI 2                  |
| Operation temperature     | -30° C ÷ + 60°                    |
| Gear Modules              | 10, 12, 14, 16, 18, 20, 22 and 24 |
| Device Width              | 50 mm and multiple                |
| Operating Pressure        | 3 ÷ 20                            |

### Operating Principle

The lubricant is injected via the grease inlet port ( A ). This pressurizes the Stainless Steel rotary manifold ( B ).

The rotary manifold arrangement interfaces with a number of radial holes ( C ) to bring the lubricant to the tip of the gear distributing it evenly over the pinion surface.

As the pinion is driven around by the gear rim the grease present on the Lubrication Pinion is applied in a uniform manner onto the gear rim.



### Order Information

Part numbers for the Lubricating Pinion are issued at order stage. In order to request a part number for your application please contact a Dropsa office specifying the **Gear Module** and the **width in millimeters** that is required for your application.

Fixing brackets can also be supplied with the Lubricating Pinion. Please request this with above information indicating what type of support is required.