

**Molygraph MFG 460 / EP**  
eliminated bearing failure  
maintenance down time,  
with a cost saving of INR  
800,000 per year.



**Industry: Animal Feed | Application: Pellet Mill | Machine Make: Andritz**  
**Client: Cattle Feed Manufacturer | Location: South India**

## Overview

Pellet mills in the animal feed industry operate in very harsh conditions. Line choking and grease blockage are common phenomena during lubrication of the pellet mills. This in turn results in inadequate lubrication and leads to bearing failure. One of the leading animal feed manufacturer in India was facing exactly the same problem where bearings failed after 7000-8000 tons of production leading to expensive maintenance and production downtime costs.

The manufacturer reached out to Molygraph for a solution. Our analysis was that the poor pumpability of the existing grease as well as the issue of grease residue remaining in the lubrication line led to poor supply of grease to the bearings. The pumpability is critical here as the grease has to travel 4-5 meters to reach the bearings which are operating under high temperature.

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## Challenge

- ⚙ Can the lubricant prevent line choking and blocking and thus prevent wear and tear of the bearings?
- ⚙ The lubricant has to be cost effective.

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## Solution

### **MOLYGRAPH MFG 460 / EP**

Lithium Complex grease fortified with EP additives and rust inhibited

- ⚙ Excellent EP properties.
- ⚙ High pumpability.
- ⚙ Wide Temperature capability 10 to 150 degrees.



## Benefits of Molygraph MFG 460 EP

Technical Specifications	Competitor Product	Molygraph MFG 460 EP	Test Method	Molygraph Advantage
Thickner	Lithium Complex	Lithium Complex	-	-
Base oil viscosity	220	460	ASTM D-445	Higher film strength
NLGI Grade	2	1.5	ASTM D-217	Better Pumpability
4-ball weld load	250kg	500kg	ASTM D-2596	Higher load carrying capacity

### Results

On switching to Molygraph on extended trials of more than a 100 days, it was observed by the customer that the bearings failures stopped, and abnormal maintenance downtime was eliminated. The die and roller change happened at 16,000 tons, in line with the machine manufacturers recommendation.

**20% direct cost savings on product pricing**

**INR 800,000 indirect cost savings per year in terms of reduction in maintenance downtimes and bearing failures**



*We accelerate industrial productivity by providing the most efficient lubrication solution.*

T: +91 22 28219292 / 98 / 99  
E: sales@molygraph.com  
W: www.molygraph.com