

# CASE STUDY 62

## (A PRE-MIXED PRODUCT FOR LAPPING APPLICATION)



### CUSTOMER DETAILS :

One of the largest independent manufacturer of rear drive axle assemblies in down south of india., supplying to major OEMs in India and abroad.



### OBJECTIVES FOR CONDUCTING THE TRIAL

1. Easy to clean by cleaner
3. Have to achieve required results (Rz value and factor)
4. No EHS Issues - Operator & Environmental Friendly.  
Low smoke / mist formation. / Low odour
5. To reduce the cost of lapping paste.



### OPERATING / APPLICATION DETAILS:

1. Machine : Gleason 516 (Hypoid Lapper)
2. Tank Capacity : 14 kgs
3. Part : Gear and Pinion  
(Trial conducted on most critical part)
4. Material : Steel
5. Application : Lapping

6. Cycle time : 19 minutes
7. Stock Removal : 0.003 microns
8. Feed Rate : 650 mm/min
9. RPM : 750 (max)
10. Coolant flow : Flood Type



### COMPONENT VIEW



**PRODUCT RECOMMENDED: HIGRIND LAP 18**

## TRIAL RESULTS



Reduced cycle time from 18 mins to 11 mins. (Production increased by almost 42%)



Required surface finish achieved in the most critical part



Easily cleaned by existing cleaner



Smoke/ mist formation was same as existing product



Odour was acceptable by user and operator team



No EHS issues



Consumption Cost reduced by almost 20%



Trial was validated for 1 month with multiple users/operators.