

# CASE STUDY 84

## SOLUBLE OIL FOR BAR PEELING (TURNING)



### CUSTOMER DETAILS :

One of the leading manufacturers of hydraulic cylinders, truck cylinders, and their components from South India. This division delivers hydraulic cylinders to international OEMs and it has entered into partnerships with major aerospace companies.



### OBJECTIVES FOR CONDUCTING TRIAL

1. Need to achieve the required finish – Visual Finish
2. Reduction in consumption cost
3. Good Rust protection
4. No EHS Issues ( No Odour, Skin & eye irritation )
5. Less heat Generation- due to mist or smoke formation



### OPERATING / APPLICATION DETAILS:

1. Machine - Medart
2. Tank capacity - 8000 Ltrs
3. Operation - Bar peeling( Turning)
4. RPM- 450
5. Depth of cut- 2.5 ~3 mm
6. Feed rate- 2 mpm
7. Existing product : : XXX 3602
8. Conc Maintained - 5%
9. Top-up - Based on need.
10. Filtration - Mesh filter & Chip conveyer
11. Water- DM water
12. Bar dia- Max 250 mm



### COMPONENT VIEW



**PRODUCT RECOMMENDED: HICUT 940 HW**

## TRIAL RESULTS



**ACHIEVED REQUIRED VISUAL FINISH  
- NO LINE MARKS IN FINISHED PART**



**REDUCED MIST OR SMOKE**



**NO EHS ISSUES OBSERVED**



**OVERALL COST REDUCED – 6%**