

## **CASE STUDY 35**

#### (WATER-DILUTABLE SEMI-SYNTHETIC CUTTING COOLANT)



#### **CUSTOMER DETAILS:**

A leading company in South India manufacturing shell molding from S.G.Iron and Grey Iron Castings.



#### **OBJECTIVES FOR CONDUCTING THE TRIAL**

- 1. No EHS Issues Operator & Environmental Friendly.
- 2. Good rust protection
- To achieve the required finish Ra: 0.6 and improvement in visual finish
- 4. To reduce the cost of oil.



#### **OPERATING / APPLICATION DETAILS:**

1. Machine : Makino 2. Tank capacity : 400ltrs

3. Operation : Turning, grooving.
4. Filter : Conveyer filter
5. Material : Steel & Cast iron

6. Cycle time : 80secs 7. Coolant Conc : 4~ 5%

8. Sump life : 6 ~ 8 Months 9. Water used : DM water 10. Component : Casing

11. Trial Evaluation: 3 months



# COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 6710

### TRIAL RESULTS



Achieved the required finish – Visual finish & Ra: 0.4



No EHS Issues observed - Operator & Environmental Friendly.



Cost saved ~ 10%