

CASE STUDY 1

(WATER SOLUBLE CUTTING COOLANT FOR STEEL TUBES)



CUSTOMER DETAILS :

One of the leading Manufacturer & Supplier of ERW precision steel tubes in Bangalore. They are manufacturer of stainless steel tube, steel tube, etc.



OBJECTIVES FOR CONDUCTING THE TRIAL

- a) Temporary Rust protection for minimum 60 days
- b) Operator friendly – No foul smell, No skin irritation
- c) Economical/ low consumption - Reduce the consumption & cost

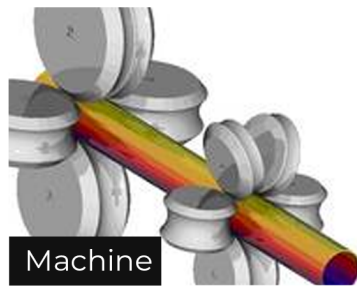


OPERATING / APPLICATION DETAILS:

- a) Machine Make : Tube Rolling Machine
- b) Tank capacity: 630 Ltrs.
- c) Type of Operation: Cold rolling & washing-pickling
- d) Work Piece: Cold roll tubes/pipes
- e) Work piece material: Low carbon steel
- f) Tool Typel : Rolling / guide Tool
- g) Material of tool: HSS
- h) Product in Use : Competitor Product
- i) Trial Period: 15.09.2017 ~20.10.2017



MACHINING COMPONENT VIEW



Machine



Finished Product



COOLANT SYSTEM:

A) TYPE : MESH FILTER B) APPLICATION METHOD : FLOODING

PRODUCT RECOMMENDED : HICUT 940 HW

TRIAL RESULTS

The following trial objectives have been met successfully



Reduced consumption

Consumption reduced by **20%**
as compared to competitor product



No corrosion or stain marks
in finished parts



Operator friendly



Good Stability in
Concentration and pH



Sump Life increased
from 1 week to 2 weeks