

## CASE STUDY 75

(HIQUENCH ISX 17 - FOR LOW EVAPOURATION AND OXIDATION STABLE QUENCHING OIL.)



### PROFILE OF COMPANY

They are the Manufactures variety of products like Cylindrical Bearings, Spherical Roller Bearings , Tapered Roller bearings and housed units etc. They are major suppliers to industries like Automotive, Commercial, Rail, Aerospace etc.



### TRIAL CRITERIA

1. No smoke during quenching
2. Minimum distortion in thin wall parts
3. Consistent in cooling rate
4. Cost reduction



### OPERATING/ APPLICATION DETAILS

1. Application : Press Quench
2. Component : Inner/Outer Roller bearing
3. Material : 52100/4230/8231 – Steel
4. Tank Capacity : 9000 Ltrs
5. Cycle time : 2 min



### COMPONENT DETAILS



**PRODUCT RECOMMENDED: HIQUENCH ISX 17**

## TRIAL CONCLUSION



Smoke Observed was less compared to Houghto Quench G during continuous Quenching



Distortion Control was good Compared to Existing product. The Rework was 10% in Houghto quench G and it was reduced to 2-3% with our Hiquench ISX 17.



Uniformity in hardness was achieved and within the acceptable limit with our product.



Cost benefit – Both Direct and Indirect in terms of distortion control and lower evaporation



Based on the continuous performance they will be changing the other 2 tanks of 8 kl to our Hiquench ISX 17. This has given entry for us in the machining side.



Trials started with our hicut bio 120 in the hot turning machine.