

## M/s.ETPL

# **BBL DAIDO Pvt. Ltd.**



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<u>Theme :</u>

Tin Plating (Tin Flash) process removal and instead plating process Ultrasonic washing and Rust preventive oil process to be intruded

What is plating (Tin Flash) process :

Tin plating is the process of depositing a coating of solderable tin plating onto the surface of a material via an electrical current (Anode deposited to cathode)

Purpose of Tin plating (Tin Flash):

To avoid rust on steel surface



Comparison of Non plated and plated parts image



#### **BBLD Approved drawing requirement**





4) ALL SURFACES EXCEPT DDK02 SURFACE TO BE TIN FLASHED.

Specification Tin Flash : 0.5 ~3 Microns



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Specification Tin Flash : 0.5 ~3 Microns





#### **EXISTING PROCESS FLOW**





### **PROPOSED PROCESS FLOW**





# Process comparison Photo Plating process Auto -Ultrasonic washing and RP oiling Newly introduced at BBL Daido at Inhouse Out sourcing process



#### Process comparison Merits and Demerits

Plating process	Ultrasonic washing and RP oiling
1. Purpose is Only For rust protection	1. Rust preventive oil used for protection
<ol> <li>Chemicals are hazardous leads</li> <li>Pollution to environment-</li> <li>Red category process</li> </ol>	<ol> <li>No hazardous process</li> <li>Pollution free environment –</li> <li>Green category process</li> </ol>
<ol> <li>Since press fit assembly</li> <li>During pressing Tin coating</li> <li>Peel off can happen and it leads to</li> <li>Contamination for shocker assembly</li> </ol>	3. During pressing no peel happen and Ultrasonic cleaning leads better Cleanliness for shocker assembly
<ul> <li>4. 20 % customer only procuring this old method , timing plan</li> <li>Available to eliminate tin plating</li> </ul>	<ul> <li>4. 80 % customer eliminated and</li> <li>Without plating procured as green</li> <li>sourcing</li> <li>5. Can be implement immediately</li> <li>once cut off decision with approval</li> </ul>



#### PCR back round :

- Ultrasonic cleaning process is being implemented at Daido metal Japan and other our group companies and there is no any Adverse impact , hence request to provide approval as early as possible.
- BBLD customer around 80 % approved to non plating parts , change proposal already been validated for similar material, similar size and similar application, hence there is no any risk and no adverse impact involved.