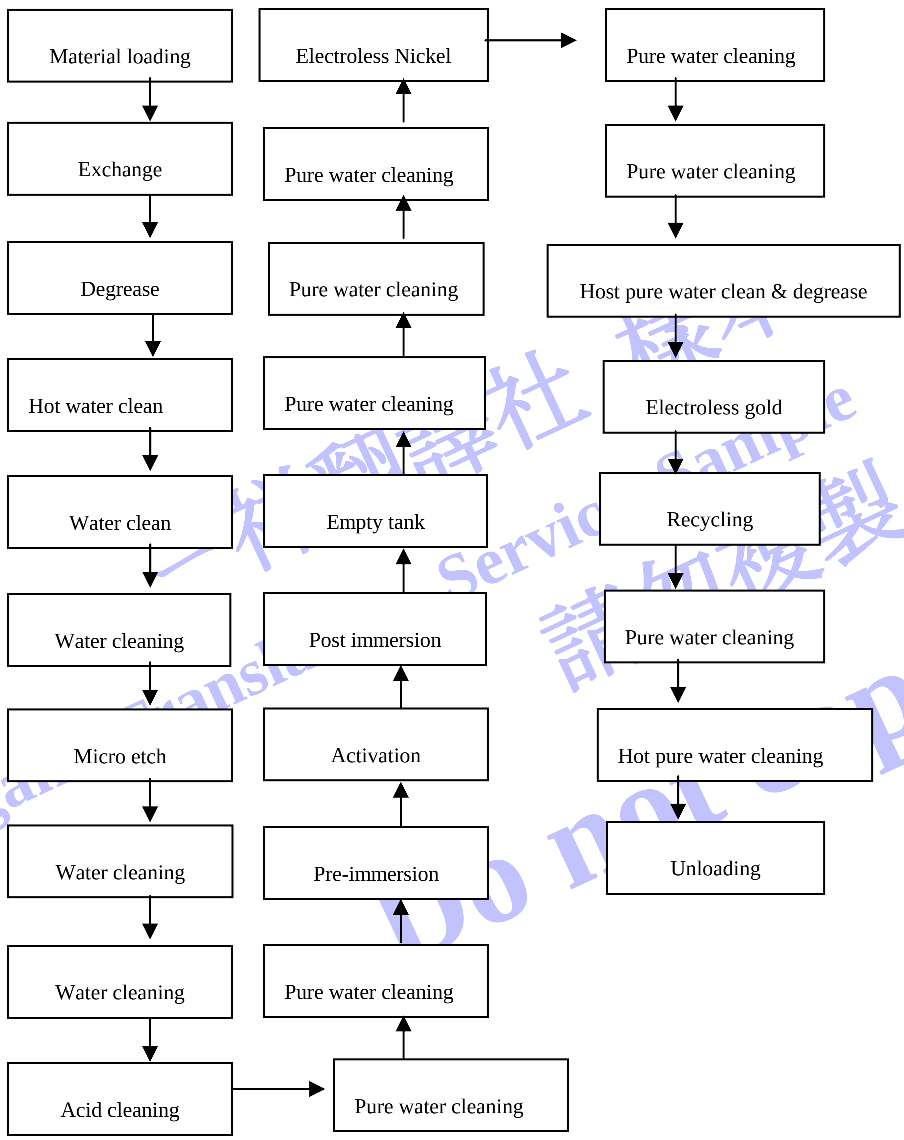
Process flow chart

<table>
<tr><th>Responsible person</th><th>Process flow</th><th>Table and record used</th></tr>
<tr><td>Electroless Gold
Section</td><td> 
</td><td>Checklist
First grade maintenance table
8-1 First article inspection table for electroless gold.
8-2 PH test table for electroless gold line and Ni, Au chemical tank.
8-3 Chemical tank change record for electroless gold line.
8-4 Water cleaning tank change record for electroless gold line.</td></tr>
</table>

6-3 Operation conditions

Name	Chemical solution name	Concentration range	Temperature	Analysis frequency	Frequency of tank change
Acid cleaning tank	H_2SO_4	-	40℃(35-45)	Daily	14 days
Micro etch tank	SPS	-	28℃(25-40)	Daily	Cu＞12 g/L
	H_2SO_4	-			
	Cu content	-			
Acid cleaning tank	H_2SO_4	-	RT	Daily	2 days
Pre-immersion tank	H_2SO_4	-	RT	Daily	3 days
Activated tank	Pd	-	23℃(20-27)	Each shift	Cu＞100 ppm or one month
	H_2SO_4	-			
Post Immersion Tank	H_2SO_4	-	RT	Daily	2 days
Electroless Nickel Tank	Ni	-	83℃(80-90)	Each shift	6MTO or Anti-precipitation current>0.8Amp
	NaH_2PO_2	-		Daily	
	pH	-		Each shift	
	NaH_2PO_3	-		Daily	
Immersion Gold Tank	Au	-	86℃(80-90)	Each shift	8MTO or Ni＞800ppm or Cu＞5ppm
	Cu content	-		Daily	
	Ni content	-		Daily	
	PH	-		Each shift	
★Inspect on gold and nickel thickness	First Article Inspection can be performed in different frequencies, for example: each lot, each shift, each new material number; inspection in the production is about very two hours.			Take two boards, each side has five points and the total is 20 points, then use X-RAY to measure gold and nickel thickness.	