



BVP INSTRUCTION

➤ AGENDA

1.What's BVP?

2. Tool Overview

3. Machine capability

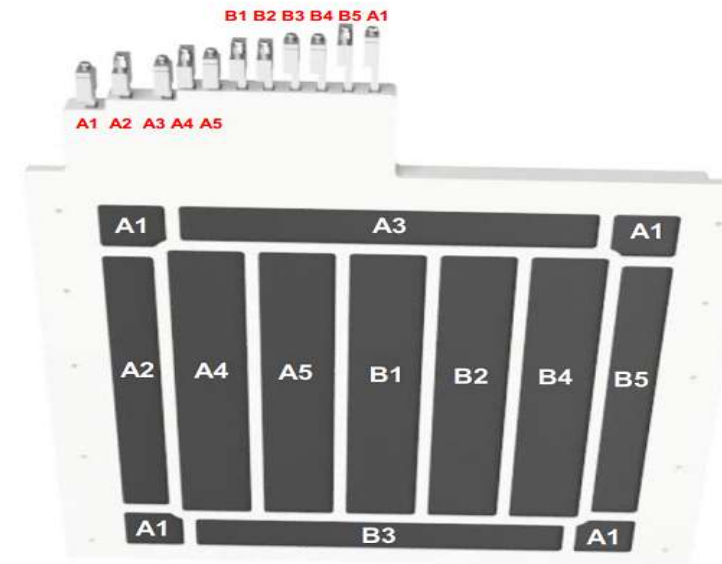
4. Tool layout

5. Mainly module composition

INTRODUCTION

1. What is BVP?

- BVP is electro-chemical process, in which a layer of copper is deposited on the metal surface through the use of electric current;
- BVP use DC plating systems .In the process of copper plating, copper sulphate acts as an electrolyte, Ti coated mesh in electrolyte works as an anode and the panel to be plated is dipped in electrolyte as a cathode;
- BVP Anode by Zone area to design, which Anode have 10 Zone area as below picture, current according area to distribute;
- BVP Anode chemical and Cathode chemical are separate, Cathode tank is put into Anode tank;



INTRODUCTION

2. Tool Overview

- 1) Process Name:** BU Vertical Copper Plating
- 2) Tool type:** P500 series
- 3) Tool Supplier:** ASMPT-NEXX
- 4) Origin:** America

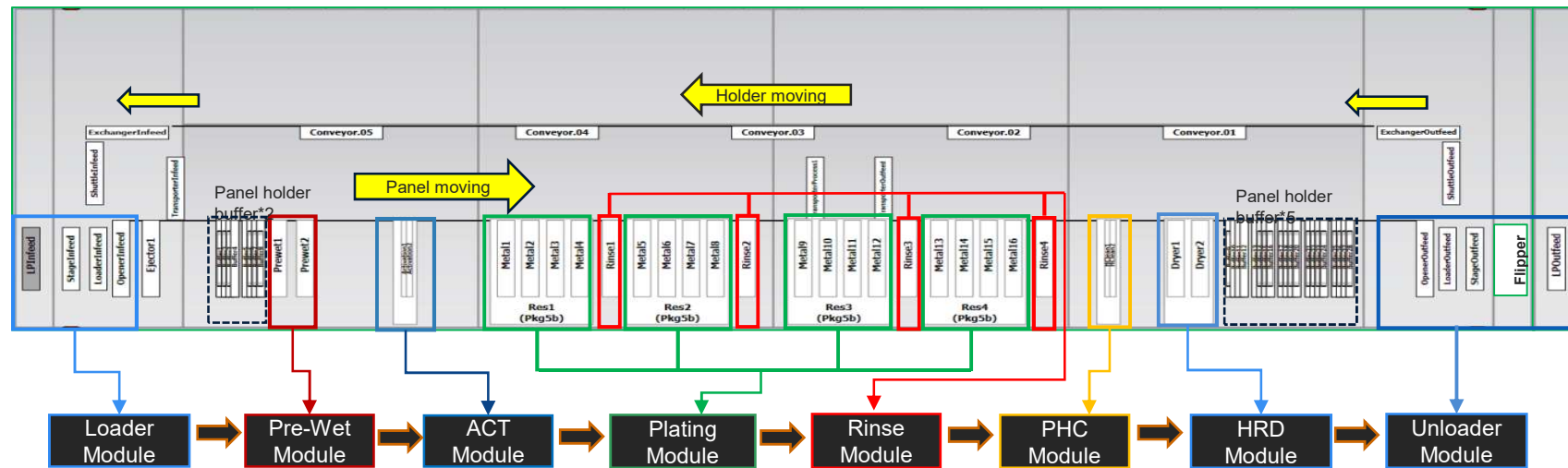
INTRODUCTION

3. Machine Capability

NO	Process Feature	Unit	Standard
1	Panel Format Length	mm	514~516
2	Panel Format Width	mm	509~511
3	Board thickness	mm	0.4~2.5
4	Current limit	A	<22

MACHINE

4.Tool Layout



MACHINE

5. Mainly module composition



- Loading: Panel is loaded from a magazine onto a conveyor, gets centered and transported to Stage Infeed;
- Infeed: Panel is captured by Loader Infeed from Stage Infeed, and transported in Panel Holder at Opener Infeed;
- Pre-Wet: Panel gets DIW spray by nozzles;
- ACT: Panel gets dipped into acid dip bath;
- Plating: Plate copper in the copper tank, by Anode provide current to react;
- Rinse: Panel gets DIW spray by nozzles, to remove dragged out chemistry;
- Hot Rinse Dryer: Panel gets dipped into hot DI water bath and by air knife blow during pick up to make surface dry;
- Outfeed: Panel is captured by Loader outfeed from Opener Outfeed, and put on Stage Outfeed ;
- Unloading: Panel is unloaded from Flipper and transfer by Conveyor to a Magazine;
- Panel Holder Clean: Panel holder put into PHC tank to remove copper/FM on the Panel holder;
- Rinse: Panel holder gets DIW spray by nozzles, to remove dragged out chemistry;
- Hot Rinse Dryer: Panel holder gets dipped into hot DI water bath and by air knife blow during pick up to make surface dry;
- Buffer Station: Panel holder layout in buffer.

- Panel holder would go to Panel holder clean post loading count trigger setting value;



THANK YOU FOR YOUR ATTENTION