SIXTEENTH ANNUAL

# BiTS™

## Burn-in & Test Strategies Workshop

March 15 - 18, 2015

Hilton Phoenix / Mesa Hotel
Mesa, Arizona

# Archive – Session 5

## Session 5

Ashok Kabadi
*Session Chair*

**BiTS Workshop 2015 Schedule**

# Performance Day

Tuesday March 17 10:30 am

## Handle With Care

**"Semi Automated DIB/PIB Loader"**

Alexander Wieler - esmo AG

**"Mechanical Flip Burn In (FBI) for Tire Pressure Monitoring System"**

Raimondo Sessego, James Stanley, & Joe Milazzo - Freescale Semiconductor

**"Final Test Solution of WLCSP devices"**

Mike Frazier- Xcerra Corporation

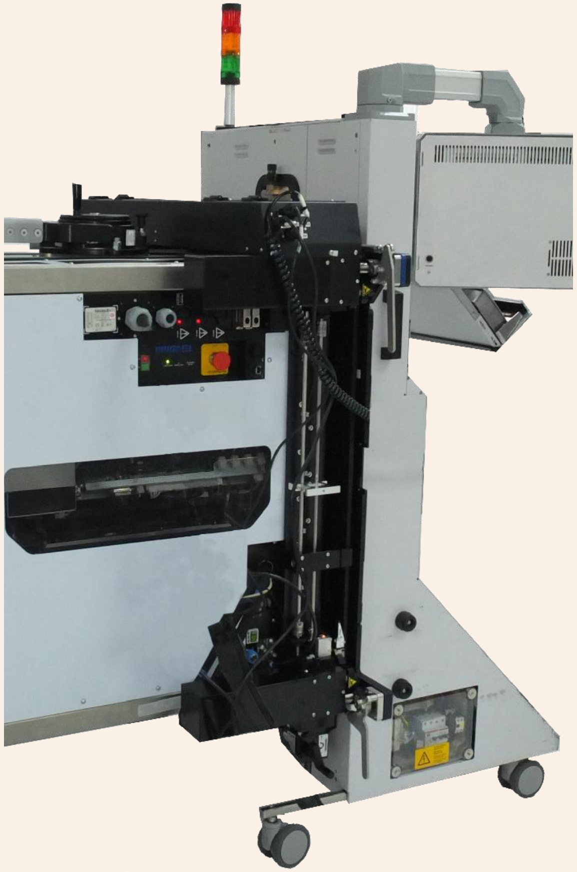
# Copyright Notice

# SEMI AUTOMATED DIB/ PIB LOADER

**Alexander Wieler**
**esmo-AG**

**2015 BiTS Workshop**
**March 15 - 18, 2015**

# DIB Loader with Cold Test Cover

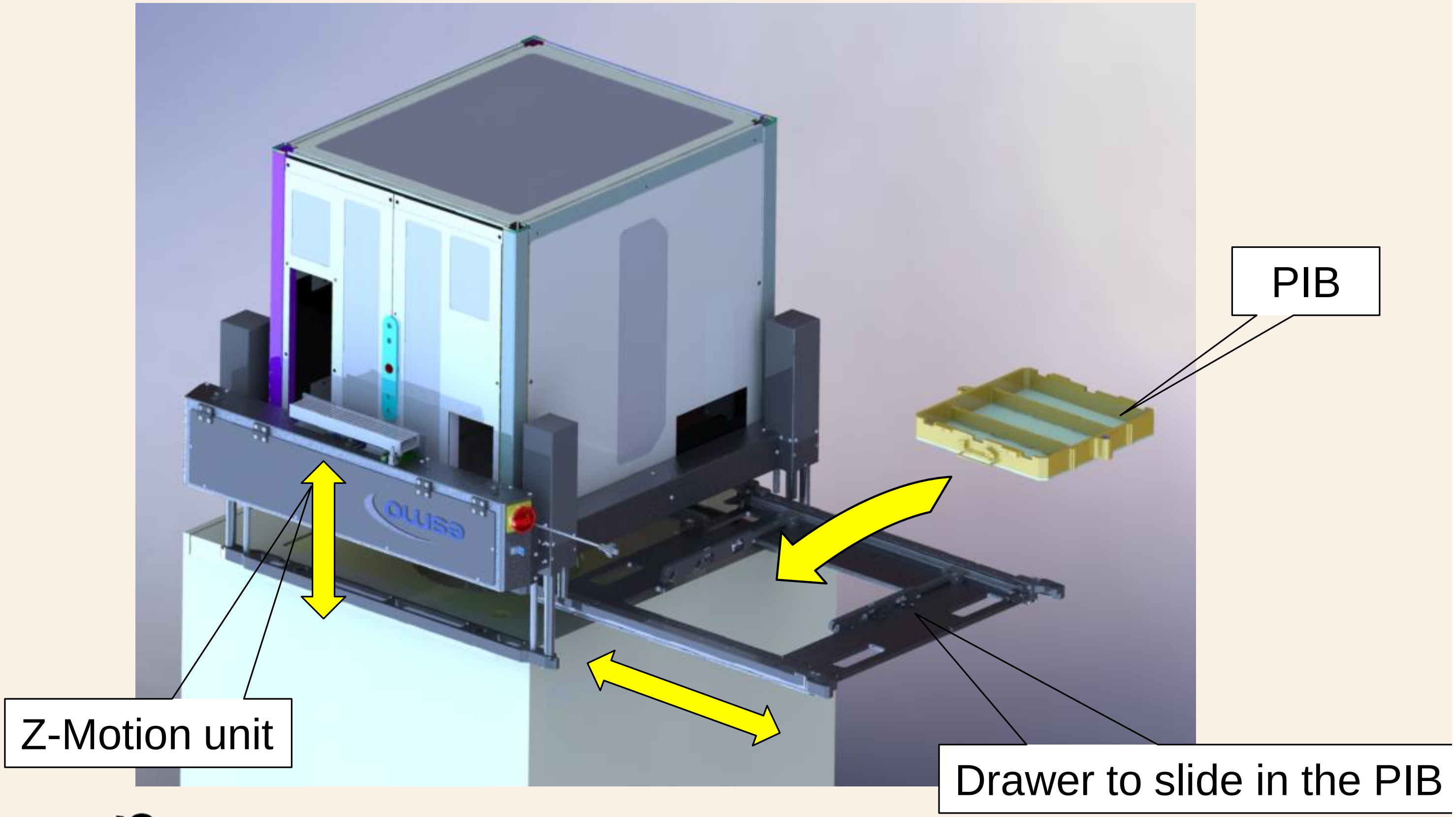


- dib-lock system allows easy and fast change of loadboards (board change within 1 minute possible)
- 100% Yield possible
- dib-lock works without any additional docking system (no K-dock required)
- up to 80% time reduction in production for Service and Board change
- dib-lock guaranties high repeatability and safe docking– undocking process

# DIB Changer with Cold Test Cover

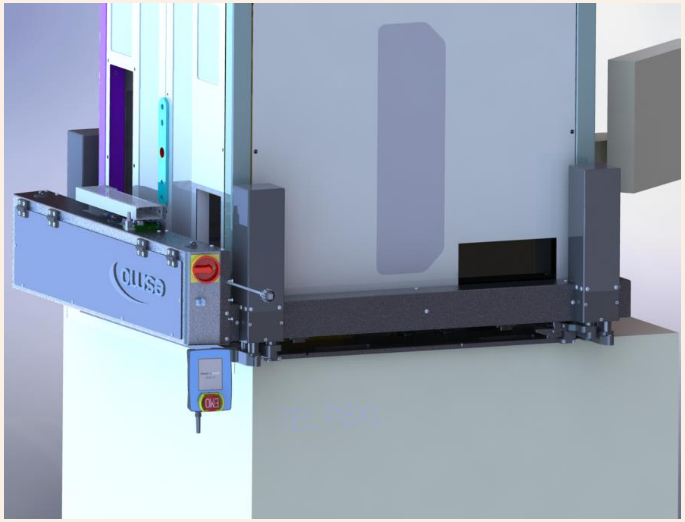
Semi automated DIB Loader

# PIB Loader for Prober

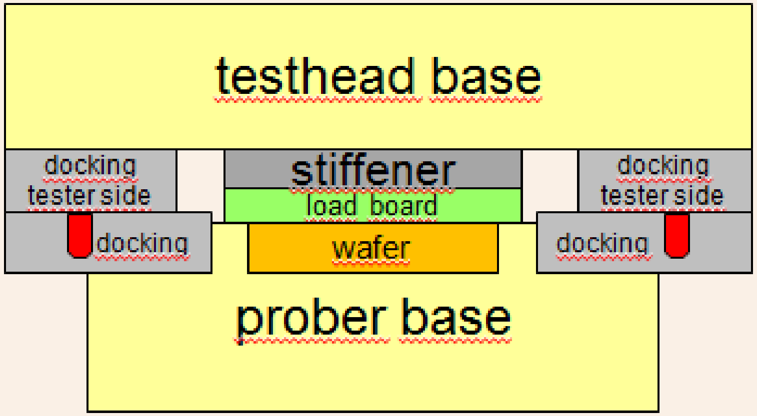


Semi automated DIB Loader

# PIB Loader for Prober

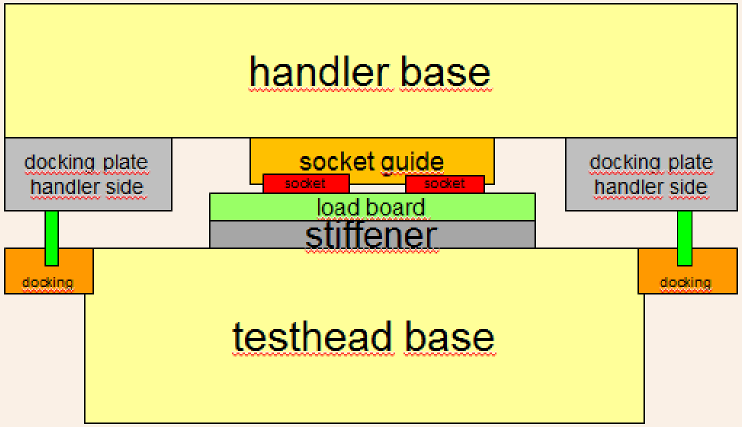


testhead docked



# Semi automated DIB Loader

Concept Top view



handler base

docking plate
handler side

socket guide

socket

socket

docking plate
handler side

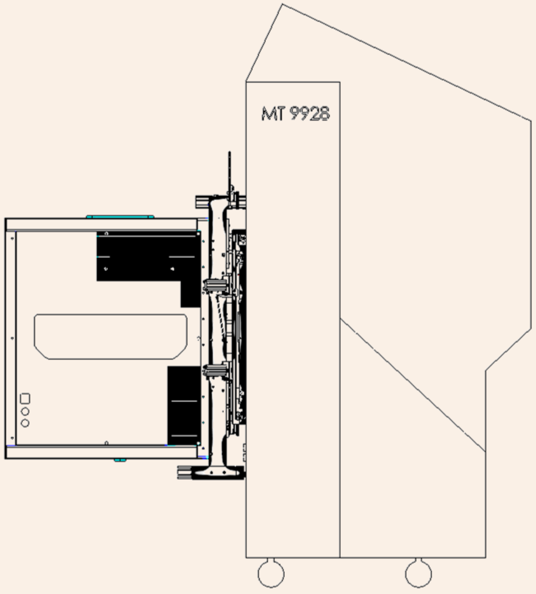
load board

stiffener

docking

docking

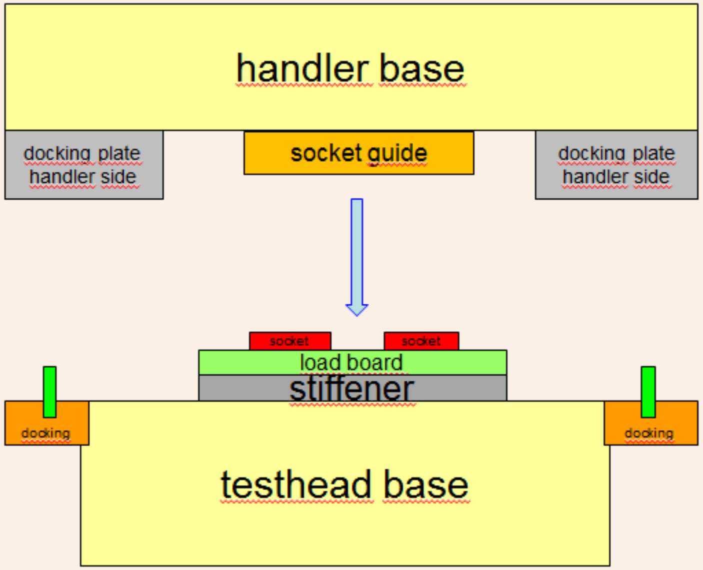
testhead base

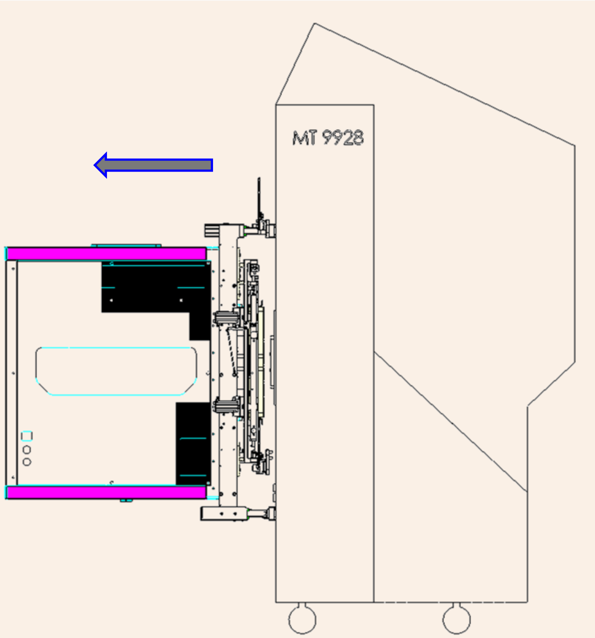


Handler Side view

# Semi automated DIB Loader

Concept Top view

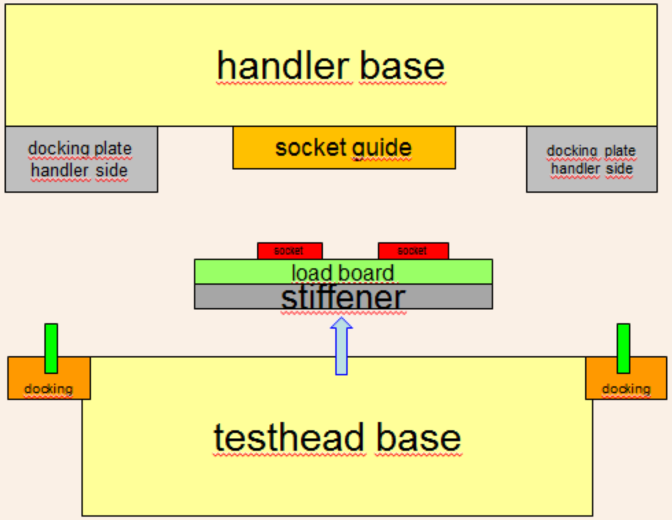




Handler Side view

# Semi automated DIB Loader

Concept Top view



handler base

docking plate handler side

socket guide

docking plate handler side

socket

socket

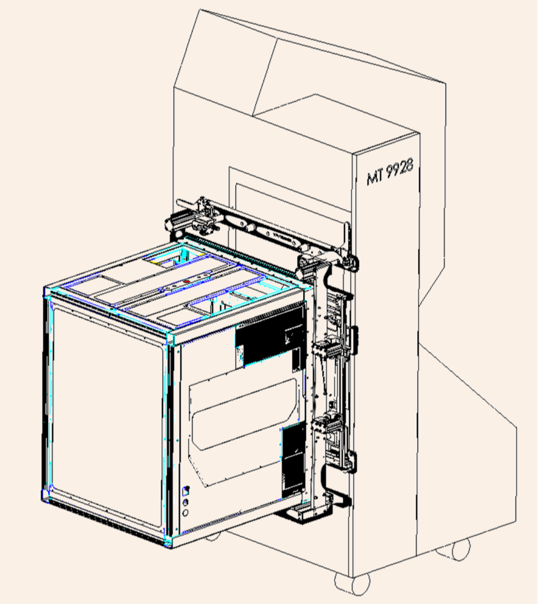
load board

stiffener

docking

docking

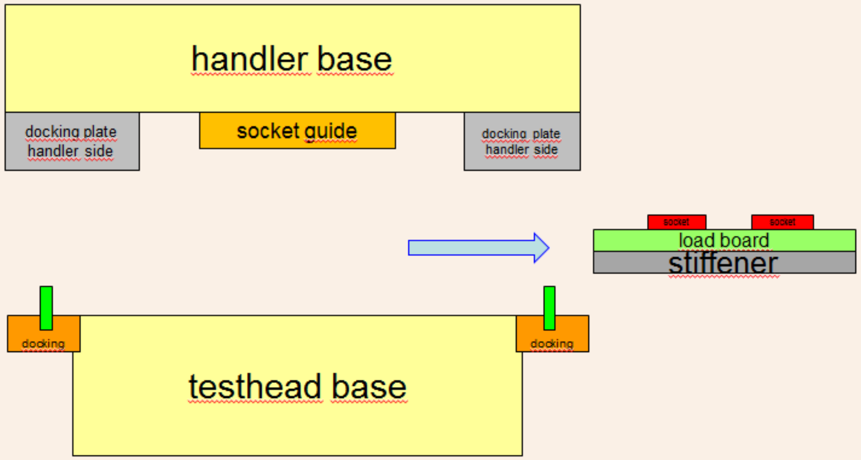
testhead base

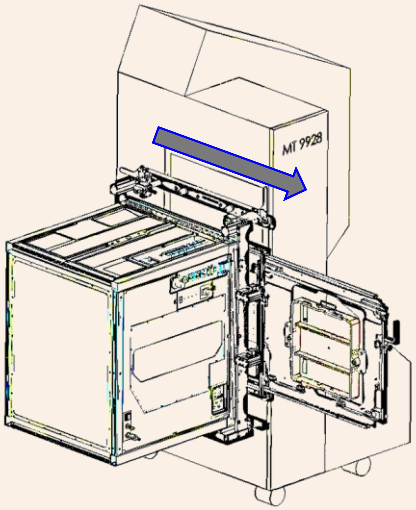


Handler Side view

# Semi automated DIB Loader

Concept Top view

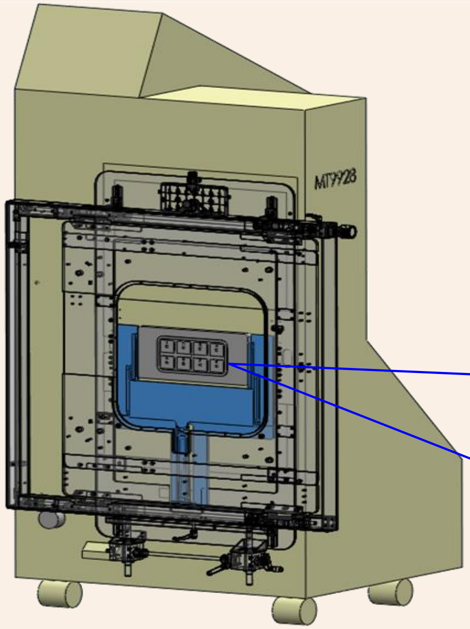




Handler Side view

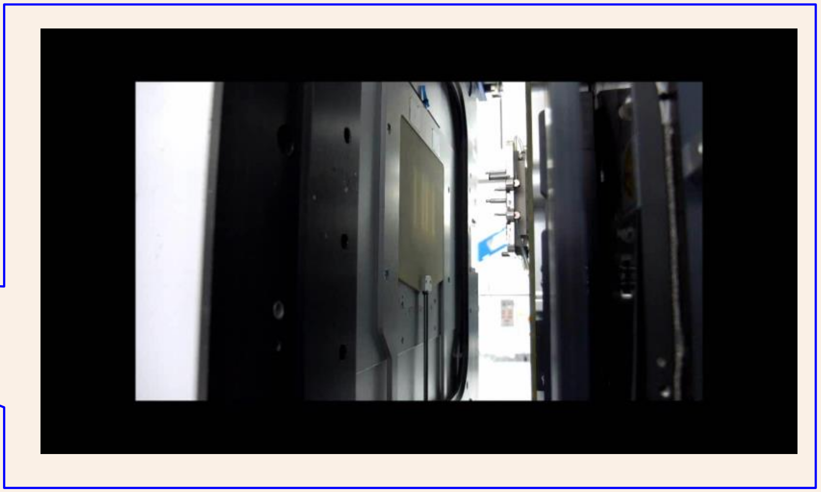
# Cold Test Cover

For Cold Test: no need to bring the Handler into ambient conditions,
Cold Test Cover will close the contactors during Service

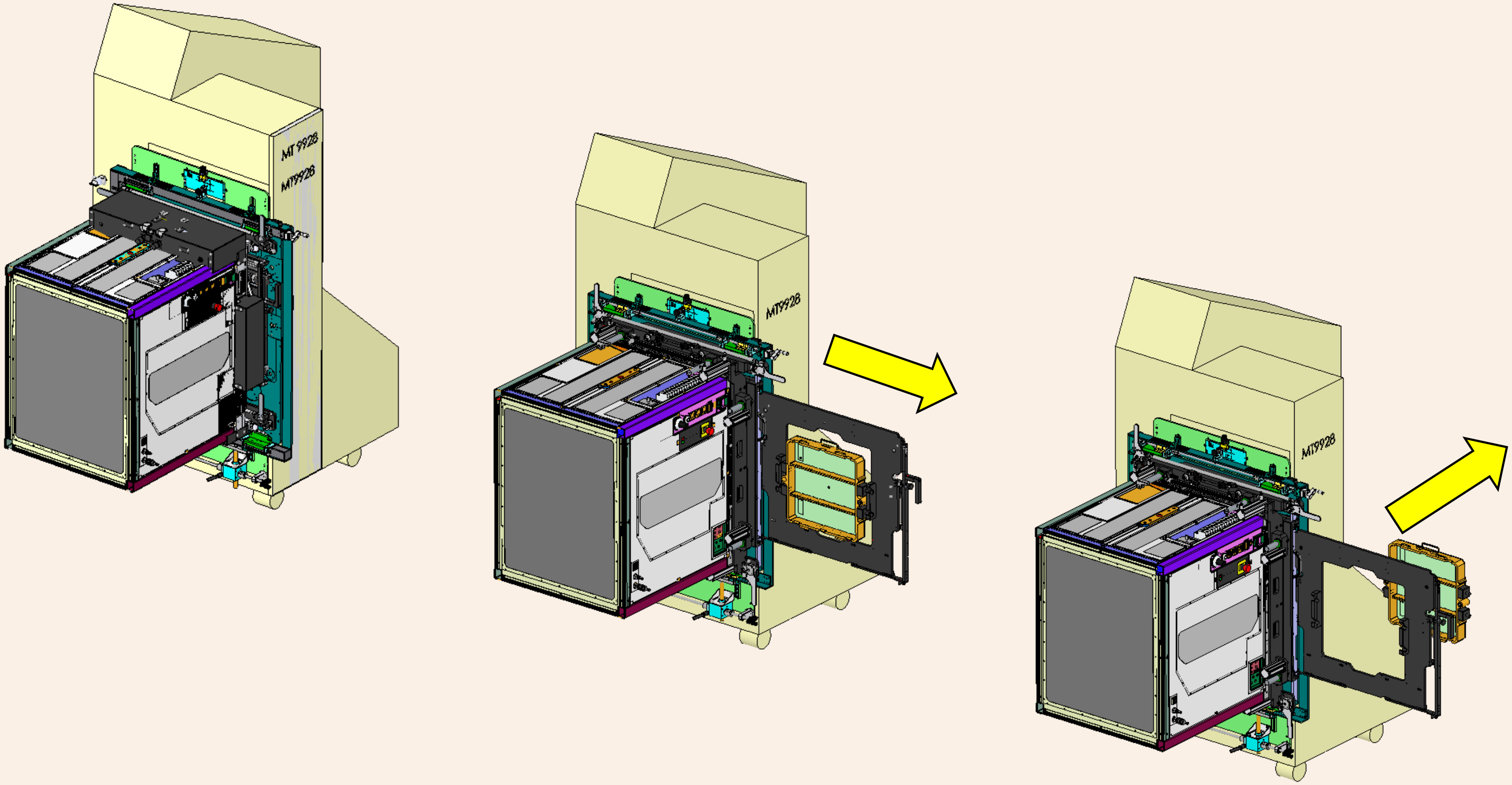


Handler rear side

Movie

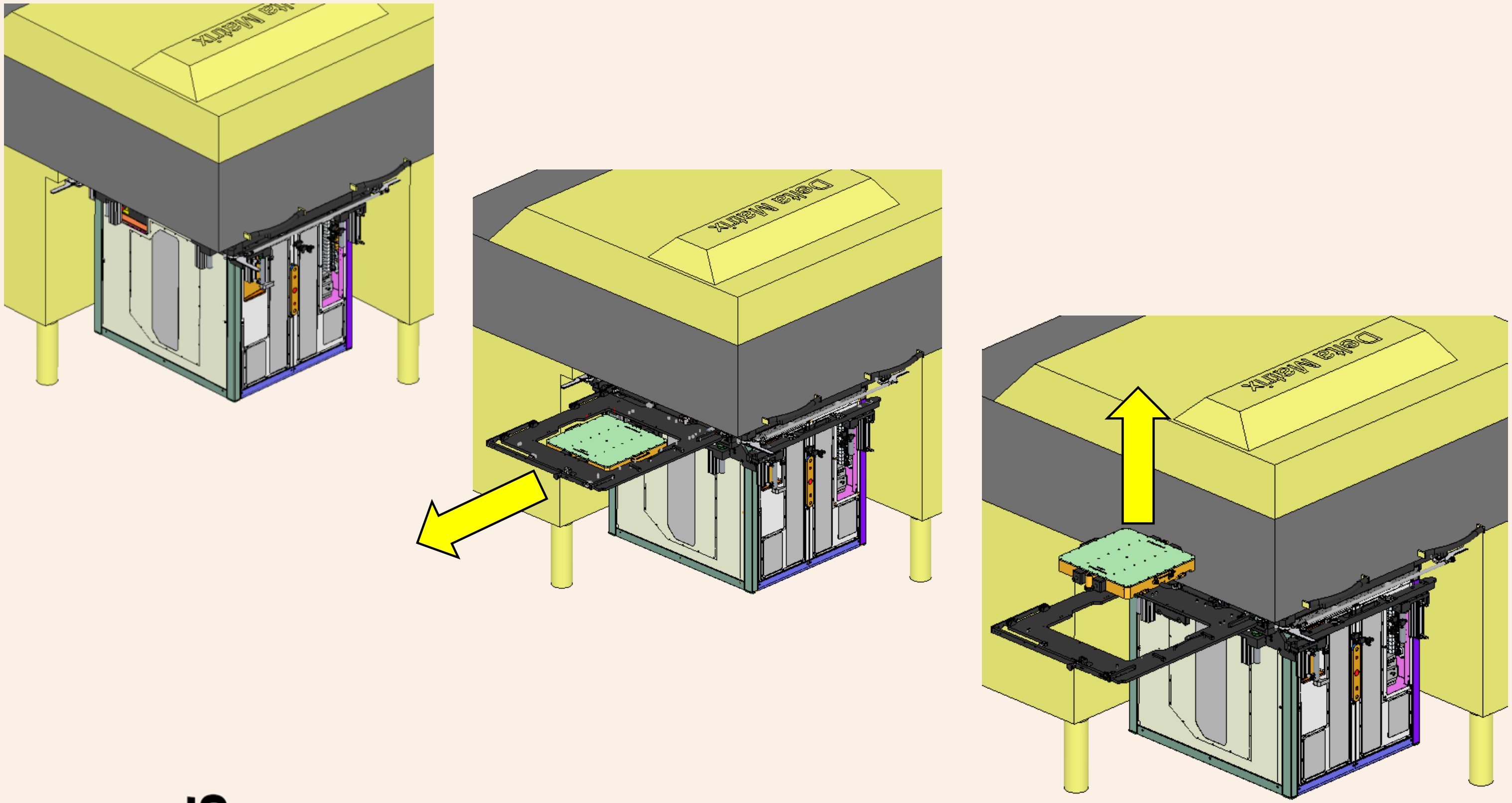


# Docking of testhead to vertical plane Handler



Semi automated DIB Loader

# Docking of testhead to horizontal plane Handler



Semi automated DIB Loader