



KIKUSUI®

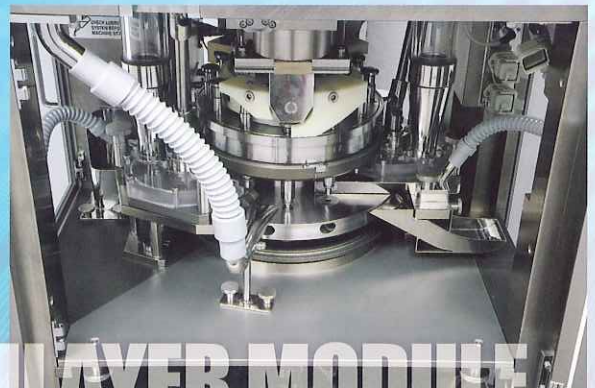
# AQUARIUS-LD

Laboratory scale  
Hybrid Rotary Tableting Machine

KIKUSUI AQUARIUS-LD is a newly designed Multifunctional Hybrid Single-sided Lab Scale Tablet Press capable of producing standard single layer, Bilayer and Dry Coated tablets all on the same machine. Changeover is enhanced by our unique module concept, which creates a quick and easy exchange from Bilayer to Dry Coating. Also it is suitably designed for R&D/Lab applications with a small scale Induced Die Feeder and Hopper for less powder usage.



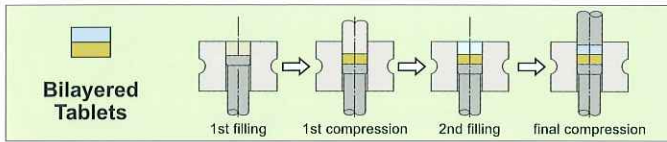
**DRY COAT MODULE**



**BILAYER MODULE**



## BILAYER MODULE



BILAYER MODULE has been developed to produce a very small scale Bilayer tableting operation for R&D/Lab applications. Key features as below.

- Small scale Induced Die Feeders with closed design, eliminates powder loss in operation.
- Easy dismount, small removable hoppers.
- Special vacuum system to eliminate cross contamination.
- Tamping roll unit for 1st layer.
- 1st layer tablet sampling system.
- Specific punch single sampling system.
- Dust seal / Bellows



Special vacuum system



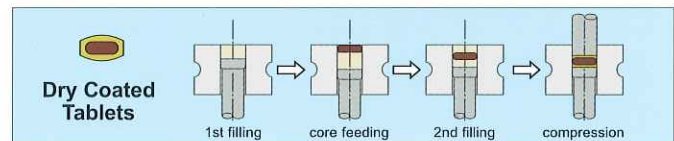
Closed Feeder



1st layer sampling



## DRY COAT MODULE



DRY COAT MODULE has been developed to produce a very small scale DC operation for R&D/Lab applications. Key features as below.

- Small scale Gravity Feeders.
- Easy dismount, small removable powder hopper & core hopper.
- Coreless tablet monitoring system & Single rejection.
- Specific punch single sampling system.
- Dust seal / Bellows



DC Gravity feeder



Dust seal plate



Core feed disc



Single rejection



# USER FRIENDLY MODULE CHANGE

2L/DC Changeover is enhanced by our unique module concept, which creates a quick and easy exchange between Bilayer and Dry Coating. The change over is less than 1 hour. You can follow the exchange procedure on OIT screen to avoid any operator mistakes.



**DRY COAT MODULE**



**Remove DC Accessories**



**Remove DC MODULE**



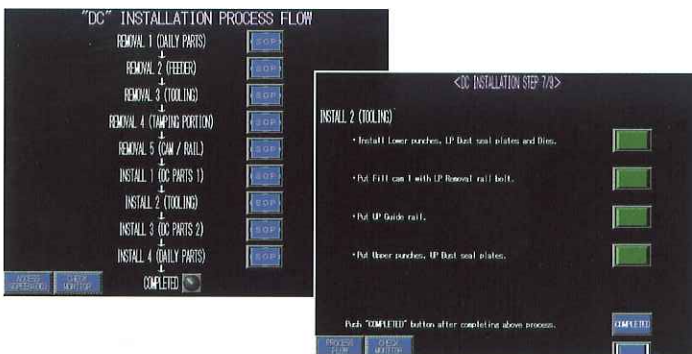
**Install 2L MODULE**



**Install 2L Accessories**



**Complete Bilayer MODULE**

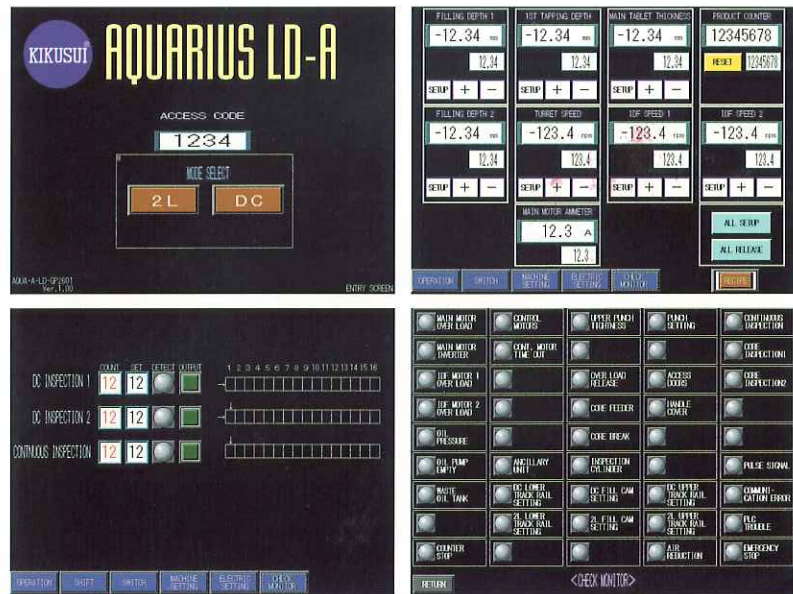


## EXCHANGE SOP ON OIT SCREEN

The MODULE Exchange SOP is displayed on the OIT to prevent any operator mistakes. This system provides Step-by Step instructions with safety interlocks, which allow the operator to quickly and easily exchange MODULES.

## OPERATOR INTERFACE TERMINAL

AQUARIUS-LD is available with a User Friendly touch screen operator control panel to meet your operation needs. The OIT allows you to operate both, Bilayer and Dry Coating mode. It can be fully instrumented with a Data Acquisition System to collect and display information on Tamping & Main force, Compatibility Profiles, Compression Density Calculations and Per Punch Peak Force Reports.



## BASIC SPECIFICATIONS

Model	AQUARIUS-LD-A			
No. of Stations	3	6	9	18
Type of tooling	TSM-B			
Main compression(kN)	50			
Max. tablet dia (mm)	16			
Turret speed (rpm)	5 - 15			
Tablets/hr.	900 - 2,700	1,800 - 5,400	2,700 - 8,100	5,400 - 16,200
Filling depth 1 (mm)	1 - 8			
Filling depth 2 (mm)	3 - 14			
Tablet thickness (mm)	0 - 5			
Dimensions (W×D×Hmm)	690×700×1,610			
Weight (kg)	1,400			

Our policy is one of continuous development and improvement and we reserve the right to alter dimensions and specifications without prior notice. The photographs include special specifications.

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