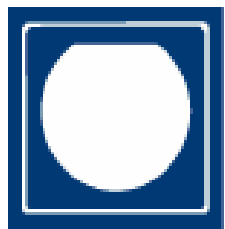


8000 Series Pellicle Mounting Machine



MLI®
MICRO LITHOGRAPHY, INC.

ISO Certified

ISO
9001

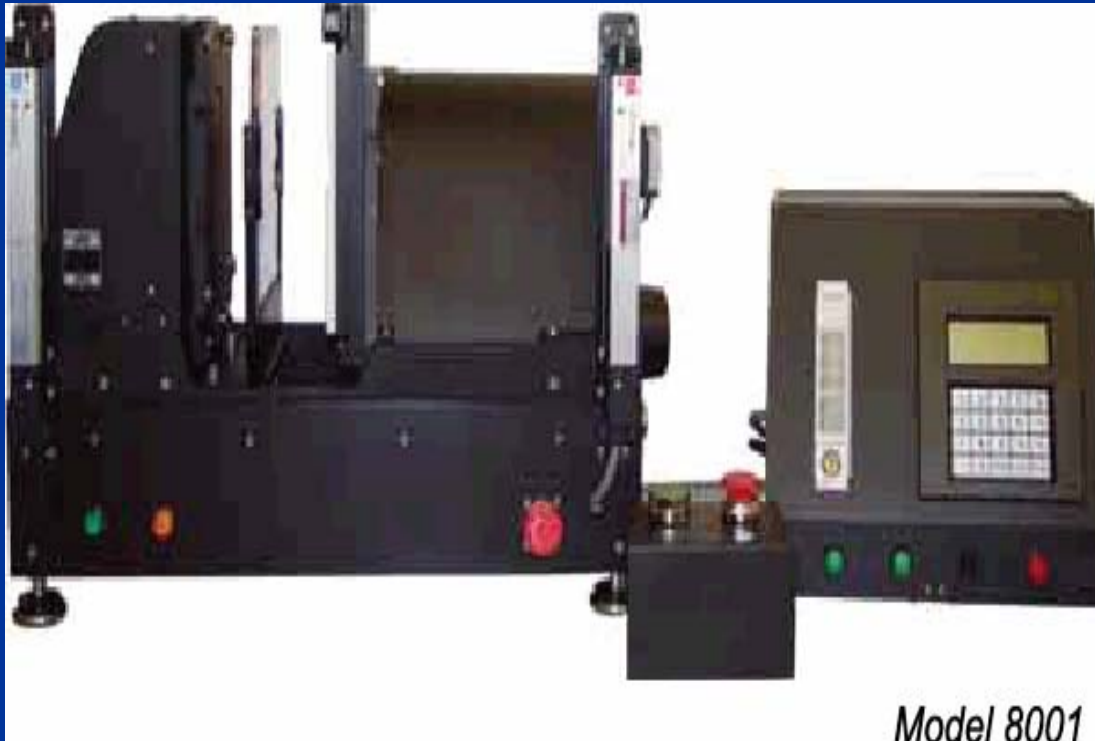
8000 Pellicle Mounting Machine

Update: October/2011

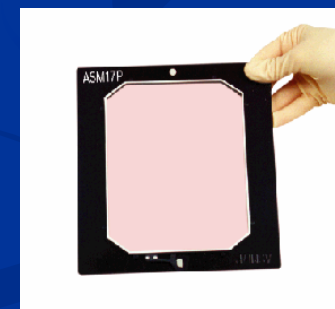
- ⦿ Completed Beta-Site testing of 8001 Mounting machine in June-2003.
- ⦿ Sold the 1st – 8001(Single side mounting) Mounting machine to customer in July-2003
- ⦿ Sold the 1st – 8002 (Double sides mounting) Mounting machine model was shipped in May-2004.
- ⦿ Currently seventeen (17) 8001 Mounting machines are being used in ASIA, USA and Europe.
- ⦿ Currently five (5) 8002 Mounting machines are being used in ASIA and Russia

8000 Pellicle Mounting Machine

- ⊙ Introduction of new 8000 series machine in Q2-2003



8001 Standard Pellicle Holder



#4 Package Tray
(Compatible with 8001 model)

8000 Pellicle Mounting Machine

■ General

- Newest model from MLI
- Cutting edge technology
- High productivity
- User friendly tool for Photomask industry
- Exhaust unit for particle control
- Fast delivery
- Affordable price

8000 Pellicle Mounting Machine

■ Features

■ Cleaner

- Washable components
- Vertical mounting
- Hard anodized finish
- Exhaust in reticle area
- Teflon pellicle holder
- Minimum contacts on Pellicle frame
- Smooth movement

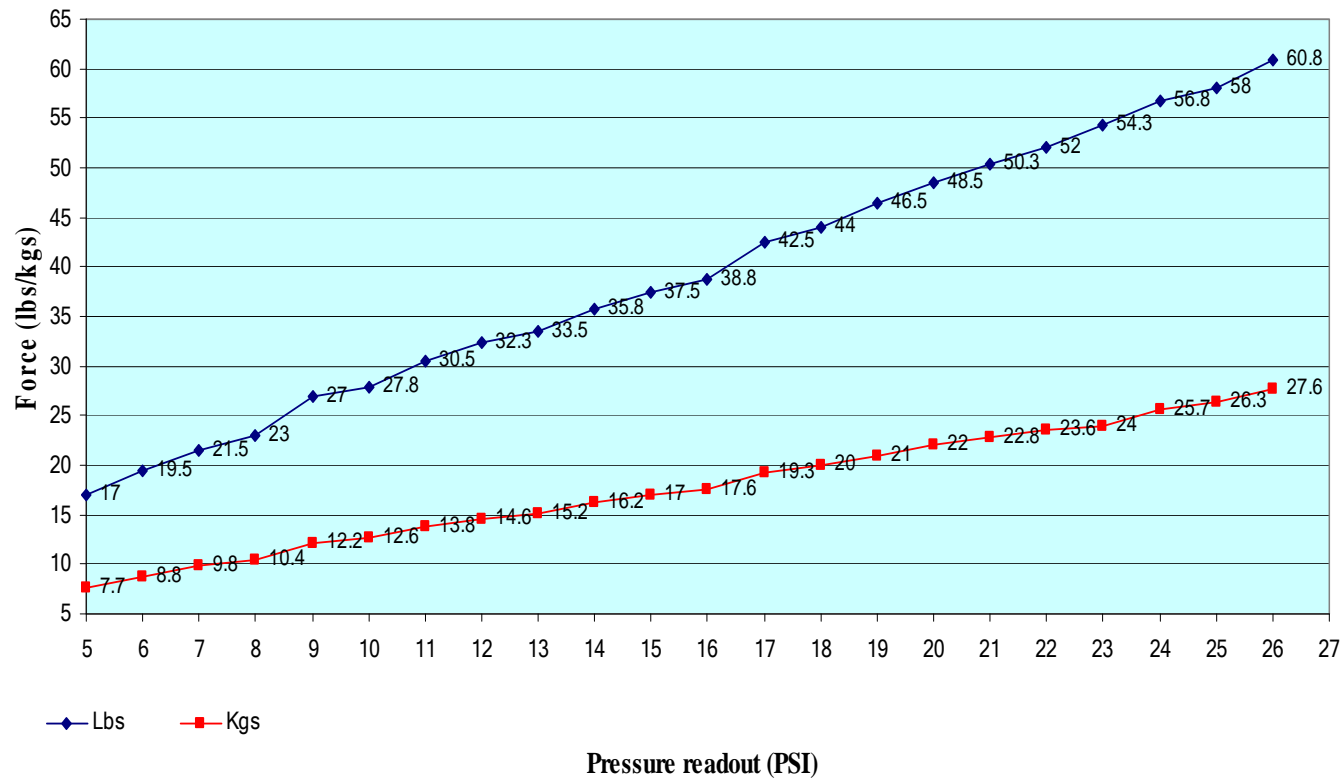
8000 Pellicle Mounting Machine

- Better sealing
 - Linear pressure force up to 60 lbs
 - More even force distribution (see force chart – next slide)
 - Force applied to mask/reticle are controllable by user
 - Softer and cleaner pads material for dummy holder
 - Mounting speeds controllable by user
 - No film “bulging”

8000 Pellicle Mounting Machine

⦿ Better sealing

Force vs. PSI of Model 8001 Mounter

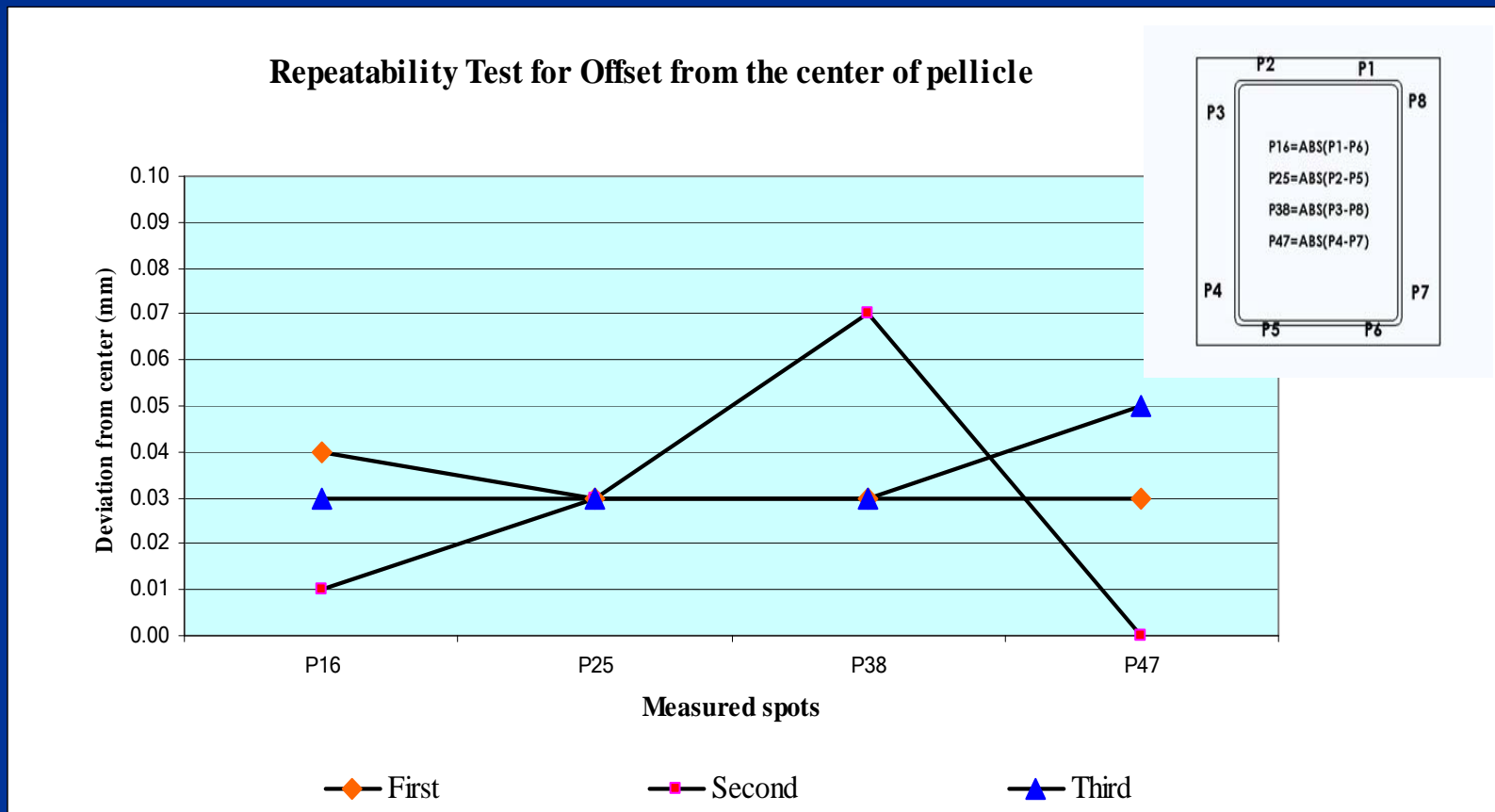


8000 Pellicle Mounting Machine

- High mounting accuracy
 - Single linear rack design
 - Perfect centering (see graph - next slide)
 - New pellicle holder design
 - Motor driven contributes smooth mounting

8001 Pellicle Mounting Machine

High Mounting Accuracy



8000 Pellicle Mounting Machine

- User friendly operation
 - Remote control allows one button operation
 - Pellicle holder with built-in handle for ease of handling
 - Load and insert
 - Easier EMO access
- More safety and secure
 - Safety curtain equipped

8000 Pellicle Mounting Machine

- Warranty
 - Six months warranty for pellicle holder
 - One year warranty for machine
 - Extended warranty available
 - Contract services available

Machine Specification

Item	Specification
Mounting accuracy	±0.005 inch (+/- 0.125mm)
Measured points	8 points
Moving speed	1 inch per second (1"/s)
Approach speed	0.1"/s, 0.079"/s, 0.059"/s, 0.039"/s, 0.020"/s, 0.010"/s
Speed programmable	Yes
Mounting force	Adjustable from 30lbf to 60lbf
Force readability	Yes
Seal	Hermetic seal
Substrate size	For 8001 model 5"x5", 6" x 6" and 7" x 7" with thickness of 0.0090" up to 0.250" (single side mounter) For 8002 model 5" x 5", 6" x 6" and 7" x 7" with thickness of 0.090" up to 0.250" (double sides mounter)
Pellicle load style	Regular tray or #4 package tray
Mount type	Single side mounting for 8001 and Double side mounting for 8002 model
Mounting driven	Electrical motor
Machine wash ability	Part of components
Status display	LCD status display
Exhaust	Yes
Safety curtain	Yes
Material	Housing: hard anodized aluminum.. Others: Cleanroom compatible materials
Utilities	100-120 VAC, 50/60 HZ, 5 AMP OR 200-240 VAC, 50/60 HZ, 2.5 AMP
Foot print dimension	Base unit: 18.5" (W) x 9.5" (D) x 14.5" (H) – Controller: 9.5" (W) x 7.4" (D) x 8" (H)

		8000 series	
Item	Description	8001	8002
1	Mounting power	Electrical motor	Electrical motor
2	Speed control	Programmable	Programmable
3	Speed variability	Two speeds mounting	Two speeds mounting
4	Wash ability	Partially	Partially
5	Actual mounting accuracy	± 0.125 mm	± 0.125 mm
6	Force readability	Yes	Yes
7	Mounting method	Single side mounting	Double sides mounting
8	Substrate	5", 6" and 7"	5", 6" and 7"
9	Compatibility	Regular and #4 package	Regular and #4 package
10	Status display	LCD status display	LCD status display
11	Safety curtain	Yes	Yes
12	Pressure indicator	Digital	Digital
13	Usability	User friendly	User friendly
14	Maintainability	Much easier	Much easier
15	Finish	Hard anodized surfaces	Hard anodized surfaces
16	Configuration	Base unit and control unit	Base unit and control unit
17	Exhaust unit	Yes	Yes
18	Utility-electrical	115/220VAC,1Ø phase, 5A	115/220VAC,1Ø phase, 5A
19	Utility-compressed air	40 PSI, filtered	40 PSI, filtered
20	Utility-exhaust supply	4-6 inch-water, 100cfm	4-6 inch-water, 100cfm
21`	Dimensions	Base unit: 18.5"(W)X9.5"(D)X13.5"(H)	Base unit: 18.5"(W)X9.5"(D)X13.5"(H)
		Control unit: 9.5"(W)X7.4"(D)X8.0"(H)	Control unit: 9.5"(W)X7.4"(D)X8.0"(H)

8001 Pellicle Mounting Machine

- Picture 1---Mounting Machine



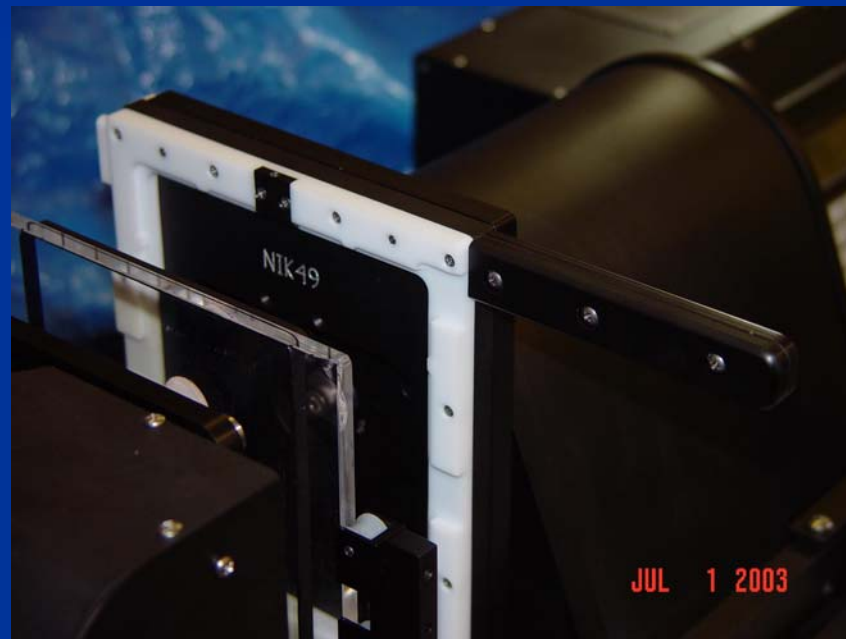
8001 Pellicle Mounting Machine

- Picture 2- Programming controller and remote operating switch box



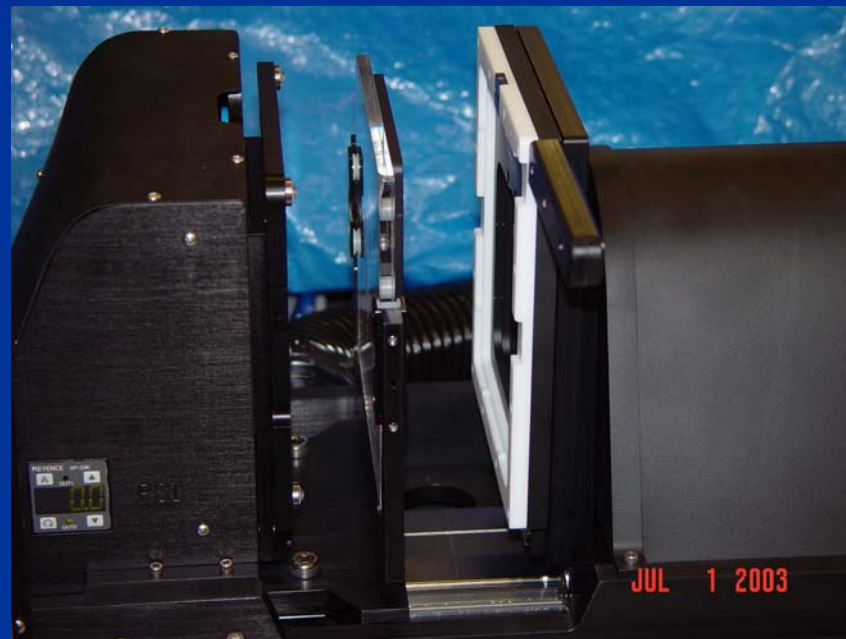
8001 Pellicle Mounting Machine

- Picture 3---Loading



8001 Pellicle Mounting Machine

- Picture 4---Mounting Area



8001 Pellicle Mounting Machine

- Picture 5---Pellicle Holders



8001 Pellicle Mounting Machine

Equipment include with the 80001 machine

- Exhaust unit---extract particles



8002 Pellicle mounting machine

