



## NEUTRONIX / QUINTEL

685A Jarvis Drive, Morgan Hill, CA 95037 Ph: (408)776-5190 Fax: (408)776-1039

### Q 4000-6 MASK ALIGNER

The Quintel Q4000-6 Mask Aligner combines innovative design with precision alignment and exposure features.

It supports both vacuum and contact printing and handles partial and whole substrates up to 150mm (6") diameter.

The versatility of the Q4000-6 has made it the choice of manufacturing facilities, R&D Centres and University programmes around the world, for a wide range of technologies.





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## Features

- Substrate sizes from pieces to 150mm (6") diameter
- Manual X-Y joystick and micrometer theta alignment stage
- Easy manual tray-load for substrate loading / unloading
- Vacuum / Pressure contact exposure modes
- *VideoView* CCTV splitfield/ singlefield microscope with zoom
- Simple topside mask loading
- *UltraSense* constant intensity UV power supply
- UV Collimation lens for improved printing resolution
- Shock Isolation table included as standard
- Easy operation- ideal for multi-user labs
- Low maintenance

## Options

- Infrared (IR) backside alignment
- Large Gap Alignment
- NUV Hg (280-350nm) / DUV Hg-Xe (220-280nm) exposure optics
- Carousel (2 chuck) loading - up to 4" wafers
- Manual micrometer for X-Y alignment
- *MagnaView* (optical) splitfield/ singlefield microscope
- CCTV option for *MagnaView* microscope
- Pulsed exposure timer sequencing

## Performance

### Print Modes

- Soft, Pressure or Vacuum modes

### Print Resolution

(with vacuum contact-)

<1.0 microns\*

### Substrate size

from pieces, up to 150mm



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### Alignment Stage

- Alignment Travel X-Y
  - Alignment Travel Theta
  - Stage Scan
  - X-Y Movement
  - Theta Rotation Range
  - Z Axis Shiftage
  - Mask/ Wafer separation
  - Mask Size
  - Topside Alignment overlay\*
  - Backside IR Alignment Overlay\*
- \* Operator/ process dependant

Manual Joystick  
Manual Micrometer  
+/- 16 mm  
+/- 3.8mm  
+/- 7 degrees  
< 0.05 microns  
0 – 180 microns  
2.5x2.5" up to 7x7"  
<=1.0 microns  
>2 microns

### Electronics

- Programming & Control

PLC with LCD Display.  
Intuitive operator Interface for  
menu driven operation

### UV Lamphouse/ UV Exposure Optics

- UV Lamphouse
- Exposure Optics
- UV Uniformity

200/350W, 350/500W or 500/1KW  
UV (350-450 nm) standard  
+/- 4%, 6" diameter field

### System Requirements

- Voltage
- Compressed Air
- Vacuum
- Nitrogen (or CDA)

110VAC,/60 Hz or 240VAC 50Hz  
5.4 bar (80 PSI)  
-0.7 bar (21" Hg)  
3 bar (40 PSI)

### System / Module Data

- W x D x H
- Weight

(48" x 36"x 56")  
217Kg ( 480 Lb)

[www.acrosemi.com](http://www.acrosemi.com)



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