



## NEUTRONIX / QUINTEL

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

### 7.5K-8 MASK ALIGNER

The NXQ 7.5K-8 Mask Aligner combines 'open architecture' modular design with precision alignment and exposure features. It supports vacuum, contact and proximity printing and handles partial and whole substrates up to 200mm (8") diameter.

The versatility of the 7.5K-8 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

- Wafer sizes from pieces to 200mm (8") diameter or substrates up to 6x6"
- Fully motorized X-Y-Z alignment stage
- Easy manual tray-load for substrate loading / unloading
- Multiple contact and proximity exposure modes
- VideoView CCTV splitfield/ singlefield microscope with zoom
- Simple topside mask loading
- UltraSense constant intensity UV power supply
- Choice of UV exposure PSUs – 200/350, 350/500 Watt and 500/1Kw
- UV Collimation lens for improved printing resolution
- Shock Isolation table included as standard
- Easily configurable for a wide variety of applications and options
- Low maintenance

## Options

- Robotic auto load handling
- Automatic alignment
- Optical (OBS) and Infrared (IR) backside
- Large Gap Alignment
- NUV Hg (280-350nm) / DUV Hg-Xe (220-280nm) exposure optics
- *MagnaView* (optical) splitfield/ singlefield microscope
  - CCTV option for *MagnaView* microscope
- Pulsed exposure timer sequencing

## Performance

### Print Modes

- Soft, Pressure, Vacuum contact and proximity contact modes

### Print Resolution

(with vacuum contact-)

<1.0 microns\*

### Substrate size

from pieces, up to 150mm



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### Alignment Stage

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> Alignment Travel X-Y          | Motorized with automatic re-centering |
| <input type="checkbox"/> Alignment Travel Theta        | Motorized with automatic re-centering |
| <input type="checkbox"/> Stage Scan                    | +/- 19 mm                             |
| <input type="checkbox"/> X-Y Movement                  | +/- 4mm                               |
| <input type="checkbox"/> Theta Rotation Range          | +/- 7 degrees                         |
| <input type="checkbox"/> Mask/ Wafer separation        | 0 – 300 microns                       |
| <input type="checkbox"/> Mask Size                     | 2.5x2.5” up to 9x9”                   |
| <input type="checkbox"/> Topside Alignment overlay*    | < 0.5 microns                         |
| <input type="checkbox"/> Bottomside Alignment Overlay* | >2 microns                            |

\* Operator/ process dependant

### Electronics

- |  |   |
|--|---|
| <input type="checkbox"/> Programming & Control | PC based.<br>Intuitive operator Interface for menu driven operation |
|--|---|

### UV Lamphouse/ UV Exposure Optics

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> UV Lamphouse    | 200/350W,350/500W or 500/1KW          |
| <input type="checkbox"/> Exposure Optics | UV (350-450 nm) standard              |
| <input type="checkbox"/> UV Uniformity   | +/- 4%, 150mm dia./ +/- 5% 200mm dia. |

### System Requirements

- |  |                              |
|--|------------------------------|
| <input type="checkbox"/> Voltage           | 110VAC,/60 Hz or 240VAC 50Hz |
| <input type="checkbox"/> Compressed Air    | 6.2 -7.6 bar (90 - 110 PSI)  |
| <input type="checkbox"/> Vacuum            | -0.7 bar (21” Hg)            |
| <input type="checkbox"/> Nitrogen (or CDA) | 4.2 bar (60 PSI)             |

### System / Module Data

- |                                    |   |
|------------------------------------|---|
| <input type="checkbox"/> W x D x H | approx.1194 x 838 x 1194mm (47” x 33”x 47”) |
| <input type="checkbox"/> Weight    | 340Kg (750 Lb)                              |

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



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