



*Introducing:
JMAR Precision Systems
Positioning & Motion Control*



Profile:

JMAR Precision Systems



- 84 employees
- 28,500 sq ft facility
- Engineering comprises 25% of staff
- Customer service & support staff, quality assurance team
- Complete manufacturing facility, in-house machine shop
- ISO 9001 approved quality system

*JPSI offices in
Chatsworth, California*

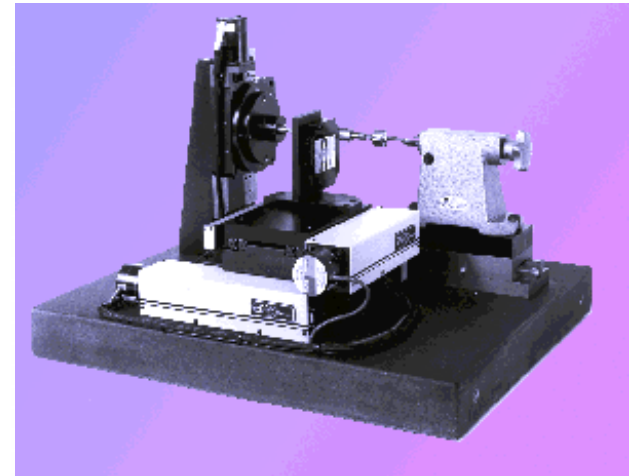


JMAR Precision Systems

Business Areas



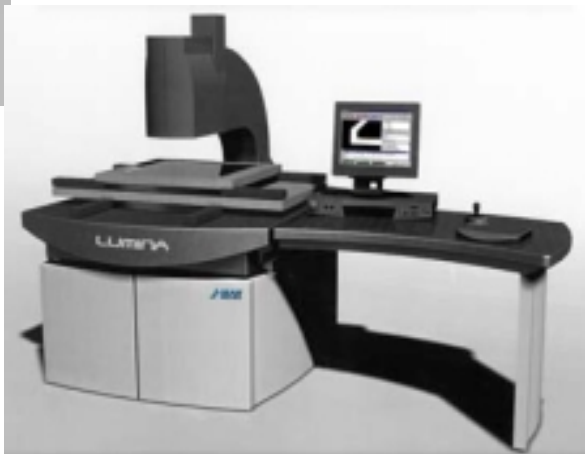
Precision Positioning



Bio-Chip Systems



Measurement & Inspection Systems

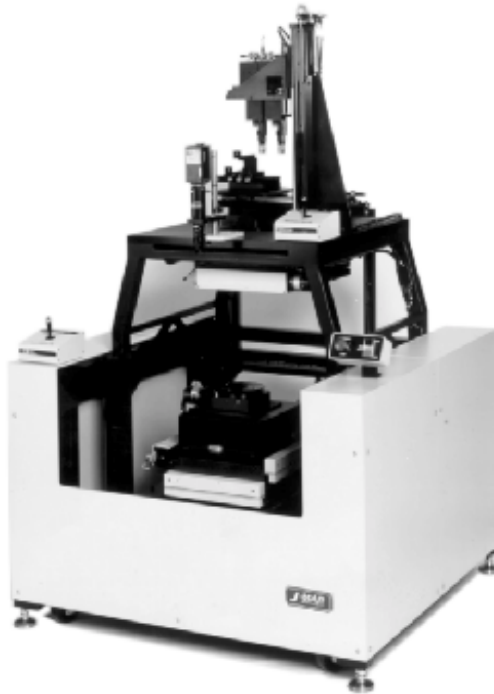


Measurement & Inspection

- *High-precision table-top and floor-console video measurement systems*
- *Designed for sub-micron applications*
- *Serving electronic manufacturing segments:*
 - *Disk drive*
 - *Semiconductor packaging*
 - *Inkjet printers*



Bio-Chip Systems

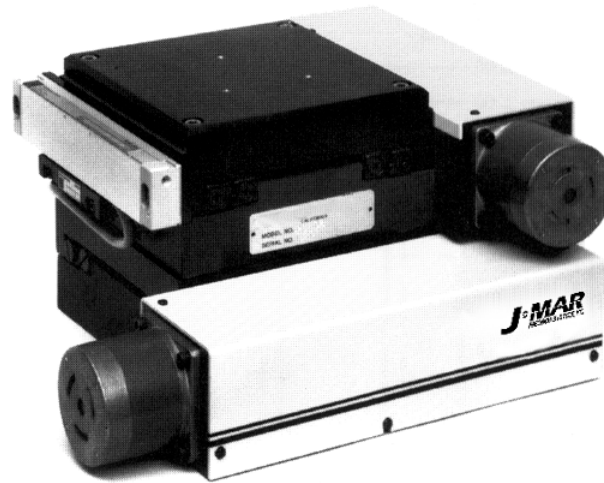


- *JPSI's newest business area*
 - *Equipment for emerging bio-chip industry*
- *Products include:*
 - *Mask aligner & exposure system for DNA chips*
 - *Precision inspection workstations*

Precision Positioning

- *Emphasis on OEM customers*
 - *Equipment manufacturers*
 - *Semiconductor, disk drive & bio-chip*
- *Custom designs*
 - *Based on standard stages & controllers*
- *Solid engineering team*
 - *Strong stage design ability & experience*
 - *Experienced in metrology system design*
- *Solutions that suit the application*
 - *Not just the specification*

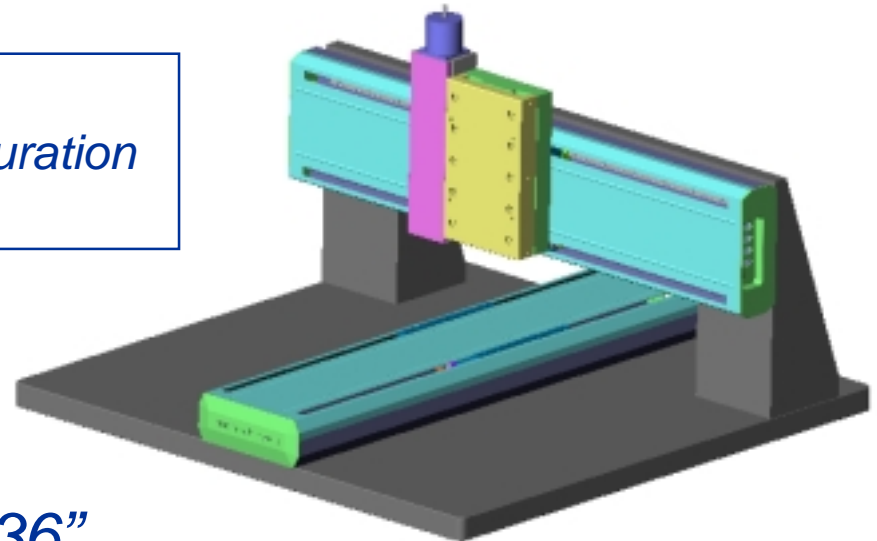
JMAR's Workhorse SlimLine Stages



- *Economical crossed-roller stage with lead-screw*
- *Available in 2" through 12" travel*
- *Many lead-screw and encoder options*
 - *Can be configured to fit a wide price/performance range*
- *Used in JMAR's own measurement products*

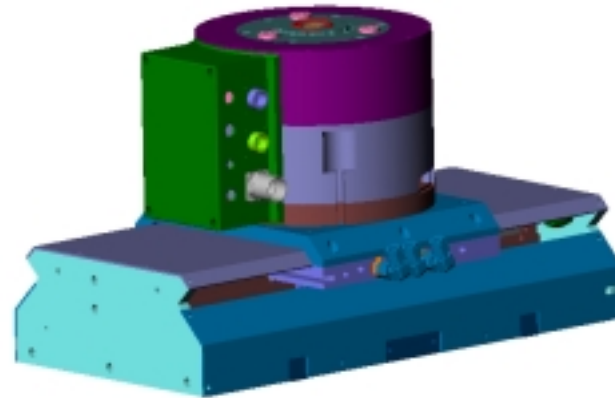
RapidLine Linear Motor Stages

*Illustrated:
36" two-axis bridge configuration
with SlimLine Z stage*



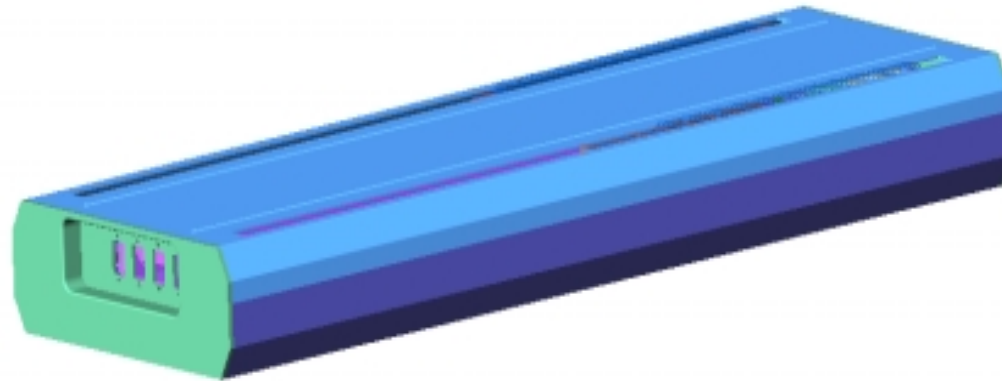
- *Available travel 8" to 36"*
- *New second generation linear motor design*
 - *Extensively engineered to remove labor content*
 - *Integral cable management (including customer signals)*
 - *Very high performance stage at economical price*
- *Multi-axis assemblies - stacked or bridge*

300 mm Air-Bearing Metrology Platform



- *Linear + rotary table configuration*
 - *360,000 counts per revolution*
 - *0.1 micron linear resolution*
 - *Ultra-smooth motion*
 - *Class 1 clean-room design*
 - *Modular air filter / dryer / regulator unit*

AccuraLine High Precision Stages



- *Ultra-high precision linear motor stage*
 - *6", 8" or 12" travel -- .01 μm or .05 μm resolution*
 - *0.25 μm absolute accuracy over 8" travel*
- *Zero temperature coefficient encoder*
- *Proprietary accuracy mapping hardware*
 - *Built in to the stage*
 - *Transparent to user's servo control and software*
- *Interferometer performance at linear encoder prices*

What can JMAR do for you?

- *JMAR can deliver precision positioning solutions and reduce your time-to-market*
- *Experienced engineers can design custom motion subsystems to specification*
- *Typical 12 to 16 week lead-time for new designs*