



PRECISION IS OUR PROFESSION

## Introduction to Precision Measuring Instrument Solutions

— Semiconductor Industry Measurements —

**Mitutoyo**

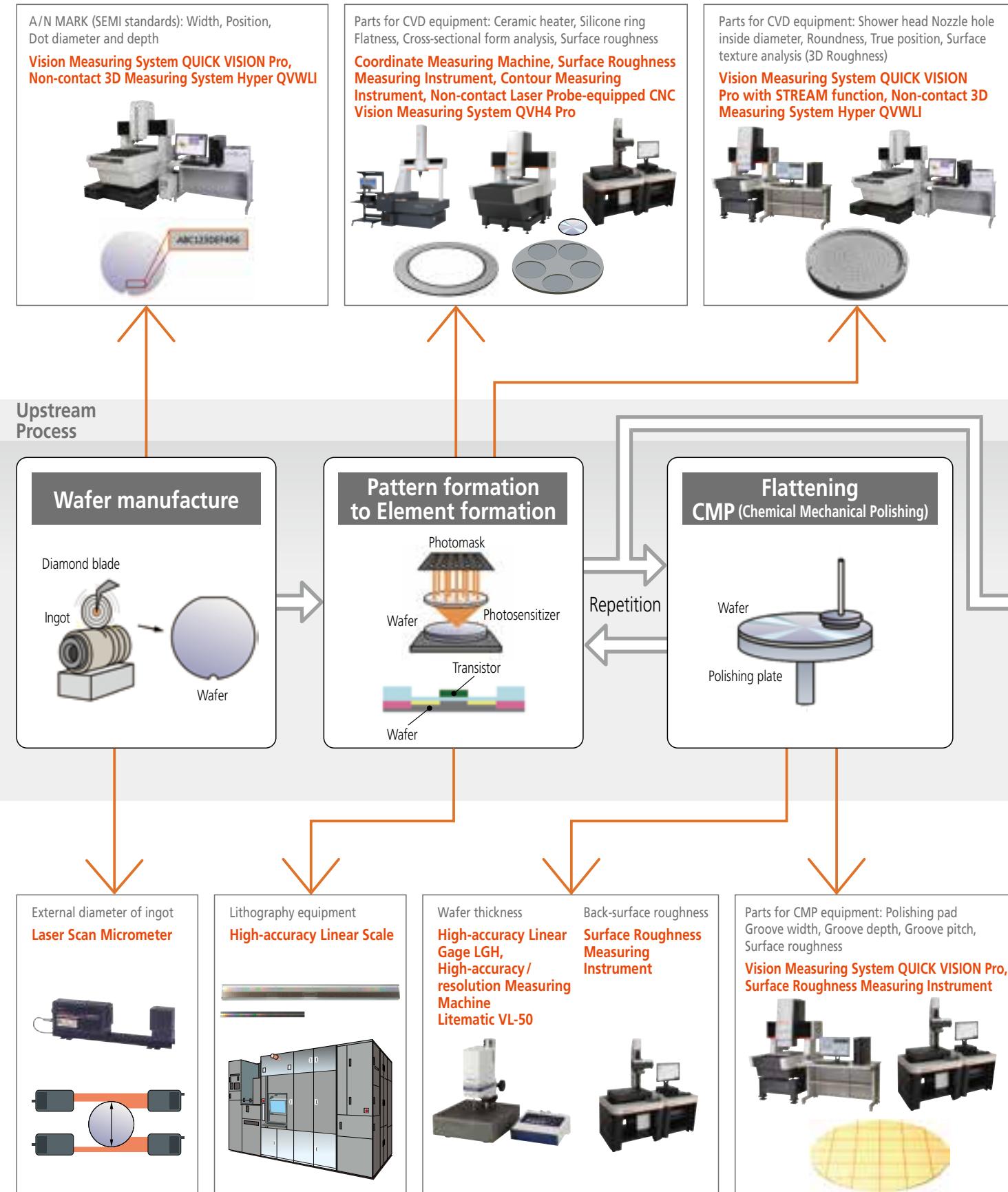
## Measurement Solutions for Semiconductor Manufacturing Processes

Measurement solutions for a wide range of fields in the semiconductor manufacturing industry, which is growing rapidly following a shift to production of electric vehicles, expansion of services in line with the implementation of 5G, etc.

### Industries Using Semiconductors



# Measurement Solutions for Upstream Semiconductor Manufacturing Processes



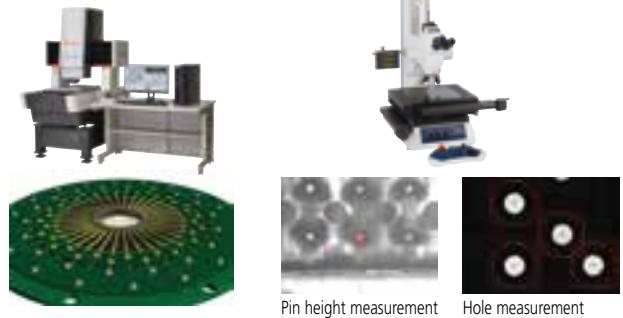
Parts for etching equipment: Electrostatic chuck, Silicone ring Flatness, Cross section, Surface roughness

**Coordinate Measuring Machine, Surface Roughness Measuring Instrument, Contour Measuring Instrument, Non-contact Laser Probe-equipped CNC Vision Measuring System QVH4 Pro**

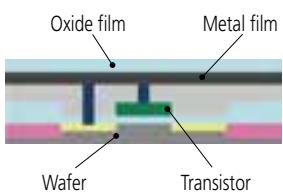


Probe card, IC test socket

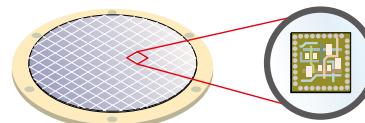
**Vision Measuring System QUICK VISION Pro with STREAM function, Measuring Microscope**



### Wiring formation



### Wafer inspection



To Downstream Process

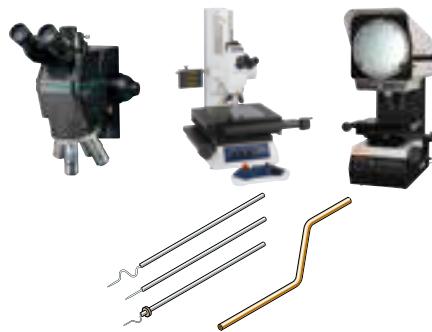
Parts for etching equipment: Shower head Nozzle hole inside diameter, Roundness, True position, Surface texture analysis (3D Roughness)

**Vision Measuring System QUICK VISION Pro with STREAM function, Non-contact 3D Measuring System Hyper QVWLI**

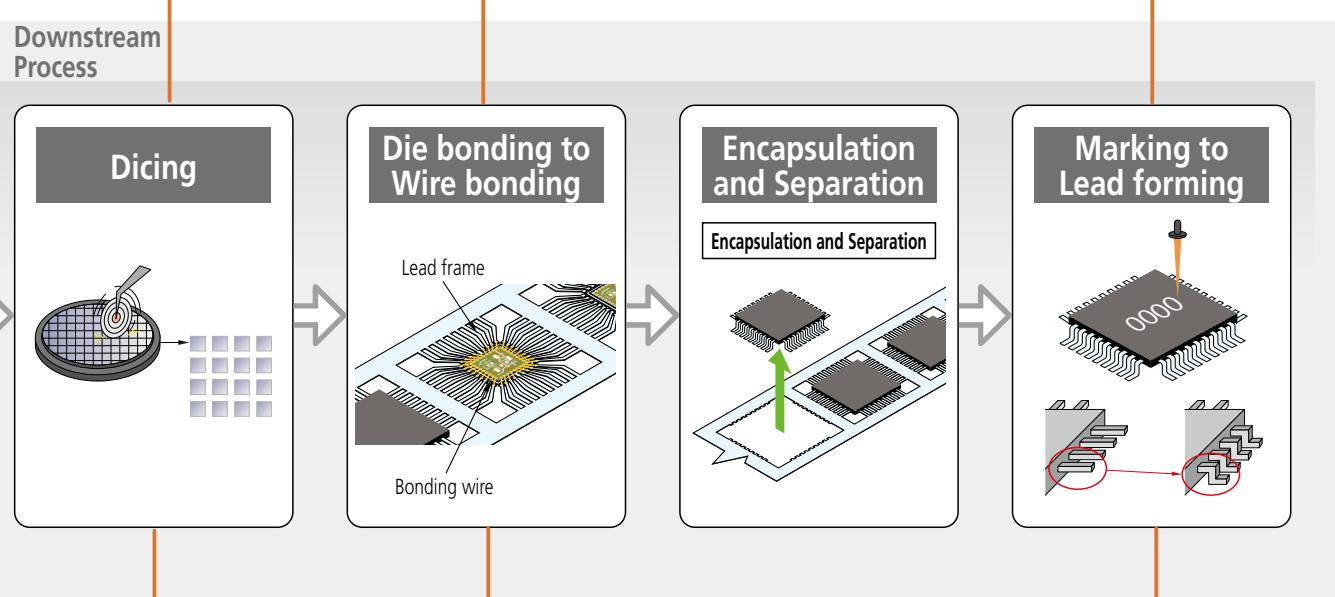


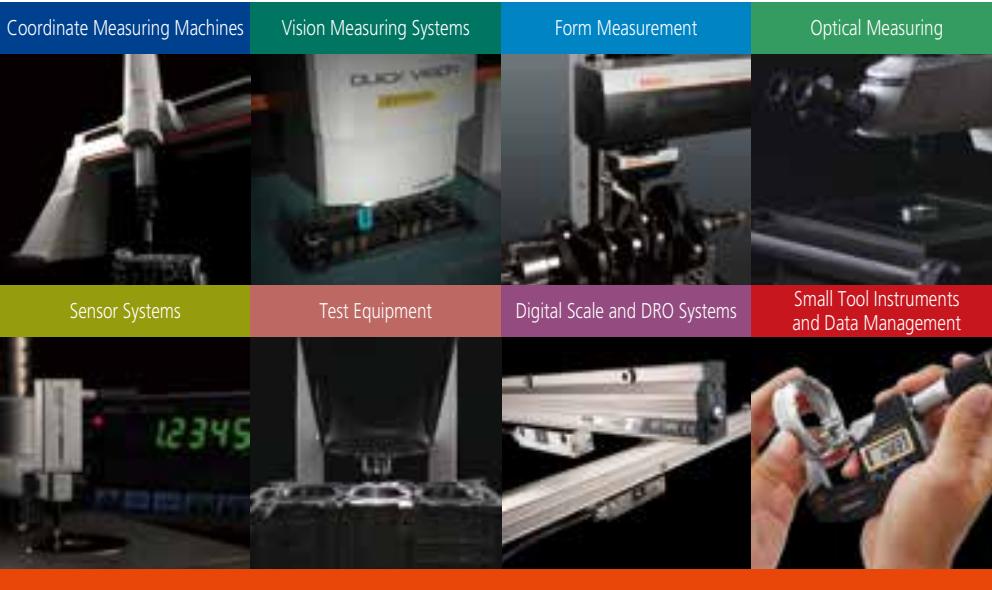
Wafer prober, Probe needle

**Microscope Unit, Measuring Microscope, Profile Projector**



## Measurement Solutions for Downstream Semiconductor Manufacturing Processes





**Whatever your challenges are, Mitutoyo supports you from start to finish.**

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

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