



Automated Gauging Systems

Agile automation for QC gauging, part handling, and data logging in high-mix, small-batch manufacturing

Improve process control, yield, and throughput in QC

Automate digital data collection

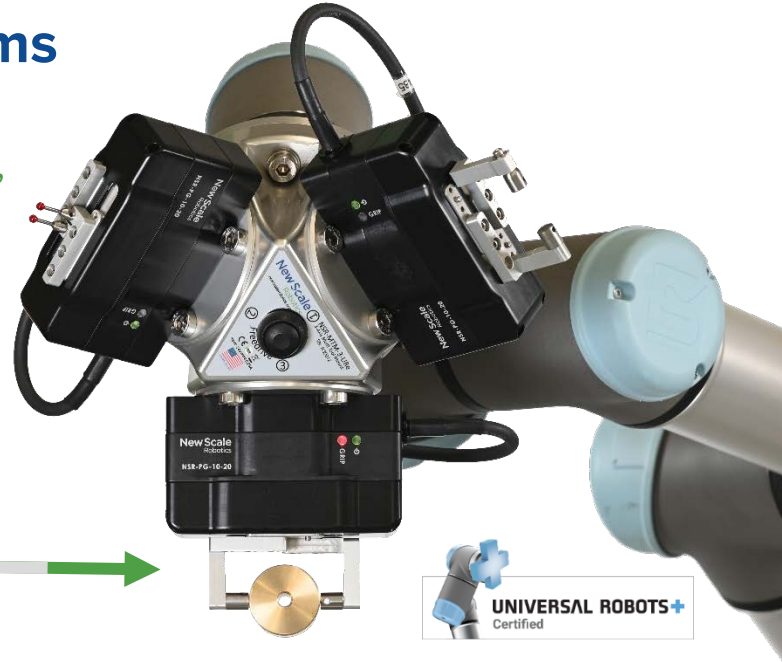
Increase capacity faster than headcount



Deploy fast with minimal changes to existing facilities and process flow

Rapid change-over for large mix of parts

ROI in less than 10 months



Collaborative robots for DIY automation

Q-Span Gauging Systems automate part handling and gauging of critical dimensions on manufactured parts in high-mix, small-batch manufacturing. These mobile robotic workstations enable do-it-yourself (DIY) automation for QC inspection. Each workstation is configured with:

- A collaborative robot from Universal Robots
- Innovative smart grippers/calipers
- Other standard gauges
- Teachable "plug-and-produce" software

Automate existing manual gauging tasks

Pick, measure, sort, place with one easy-to-use system

Q-Span Systems automatically **pick** small parts, use automated gauges to **measure** multiple features on each part, and sort or **place** each part based on any measured dimension (e.g. pass, fail, or sort into bins by ranges). Q-Span Systems automatically **record** all measured data to a PC for statistical analysis.

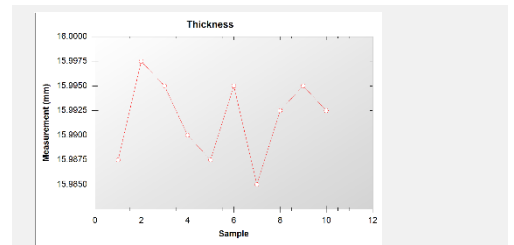
Automating tedious manual gauging tasks, Q-Span Systems improve measurement consistency, repeatability, and throughput while eliminating data entry errors. They free your QC team to do higher-value work, boosting productivity and employee retention.

Q-Span Systems are easy for your in-house QC team to learn, use, and reconfigure as your product mix and gauging needs change.

The Q-Span System's NSR-PG Grippers are equipped with fingertips to function as **digital calipers** or **material handling devices**



Incorporate high-accuracy probes with **resolution of 0.1 μm** for heights, thicknesses, ODs and more



Record data for multiple dimensions (both internal and external features) in one consolidated digital data format

Your qualified gauges – automated!

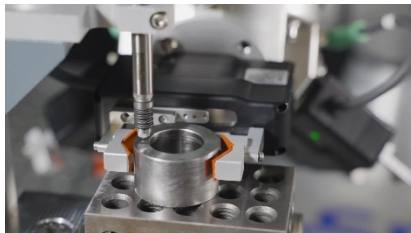
Use this flexible robotic workstation to automate your existing manual inspection technologies. A Q-Span System can incorporate your preferred metrology tools, from nearly all your trusted and approved suppliers.

We work with contact and non-contact inspection tools including:

- Calipers
- Thread gauges
- Height or drop gauges
- Bore gauges
- Go/no-go gauges
- Air gages
- Vision systems
- 2D telecentric profilers
- Laser micrometers
- And more...



Incorporate your existing gauges



Take control with easy, intuitive, no-code programming.

We deliver your Q-Span Workstation with programs, gauges, and fixtures to inspect your first few parts. We train your in-house QC team to reprogram and redeploy the system themselves, for unlimited additional parts and projects.

Fast setup, fast change-over, max flexibility

We deliver your Q-Span Workstation with the gauges and programs you need to inspect your first few parts.

Then we train your team take over!

The *NSR Devices* URCap software and UR teach pendant make it simple for non-specialists to build processes and robot programs for additional parts. You may need part-specific fingertips, trays, and fixtures.

Once you have built processes for your parts, change over between parts takes only a few minutes.

Full payback in less than a year

Through reduction in labor cost alone, most manufacturers realize full payback on their investment in 10 months.

Contact us for a free assessment.

New Scale
Robotics

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Certified System Integrator