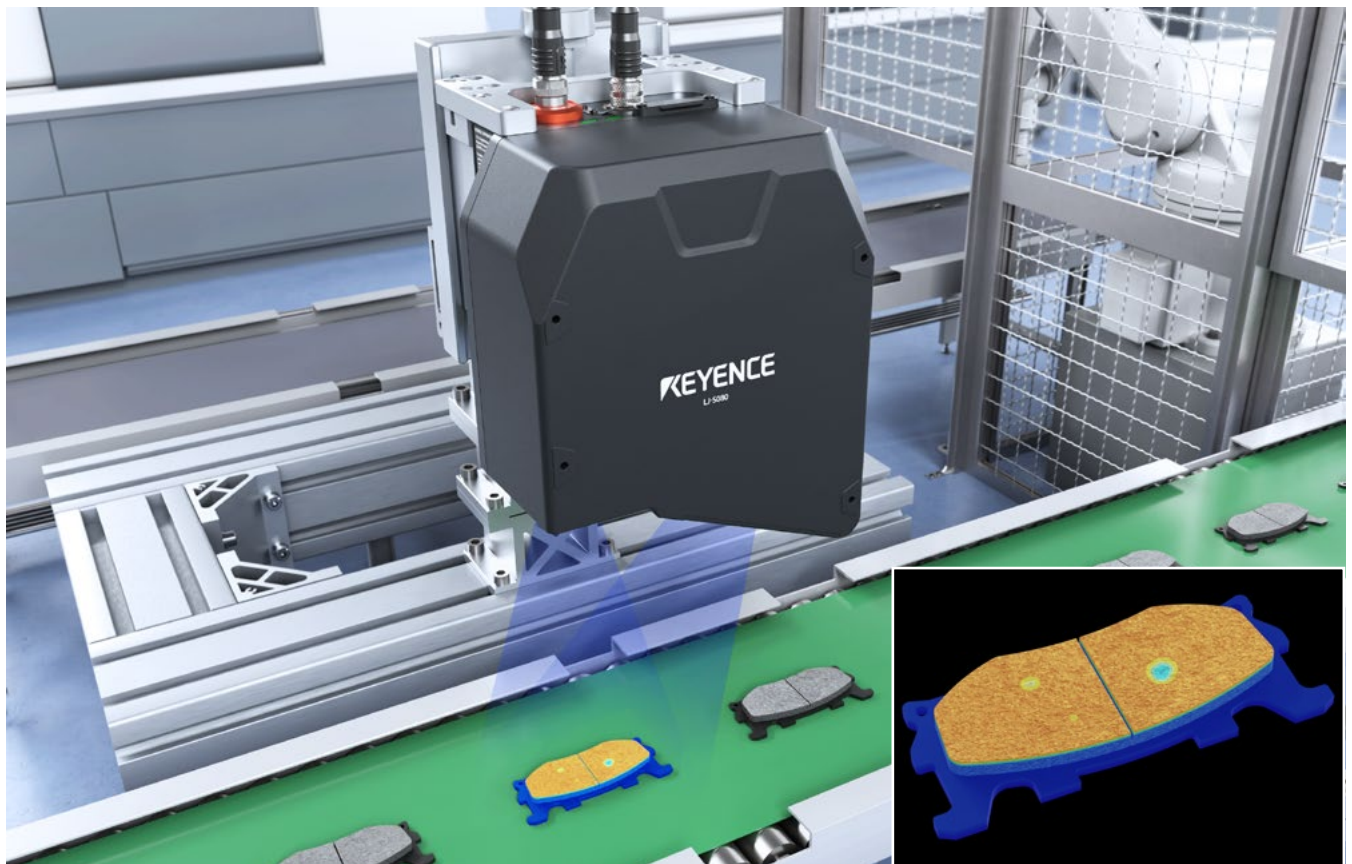




3 Advantages

of Switching from Dial Gauges, Height Gauges,
and Measuring Microscopes to

Non-Contact Measurement



Advantages of Switching from Dial Gauges, Height Gauges, and Measuring Microscopes to **Non-Contact Measurement**



Advantage **1** **Reduced inspection cycle times for improved work efficiency** »» p. 4

Installing a measurement sensor on equipment enables 100% inline inspection of every part, while also shortening the time needed for measurement for improved inspection efficiency.

Advantage **2** **Eliminates operator errors for improved accuracy** »» p. 5

Uniform measurement results are guaranteed with the elimination of operator involvement.

Advantage **3** **Prevents damage to targets** »» p. 6

Non-contact measurement means there is no risk of damaging targets, and accurate measurement is possible even for soft targets.

Versatile lineup of 3D Laser Snapshot Sensors

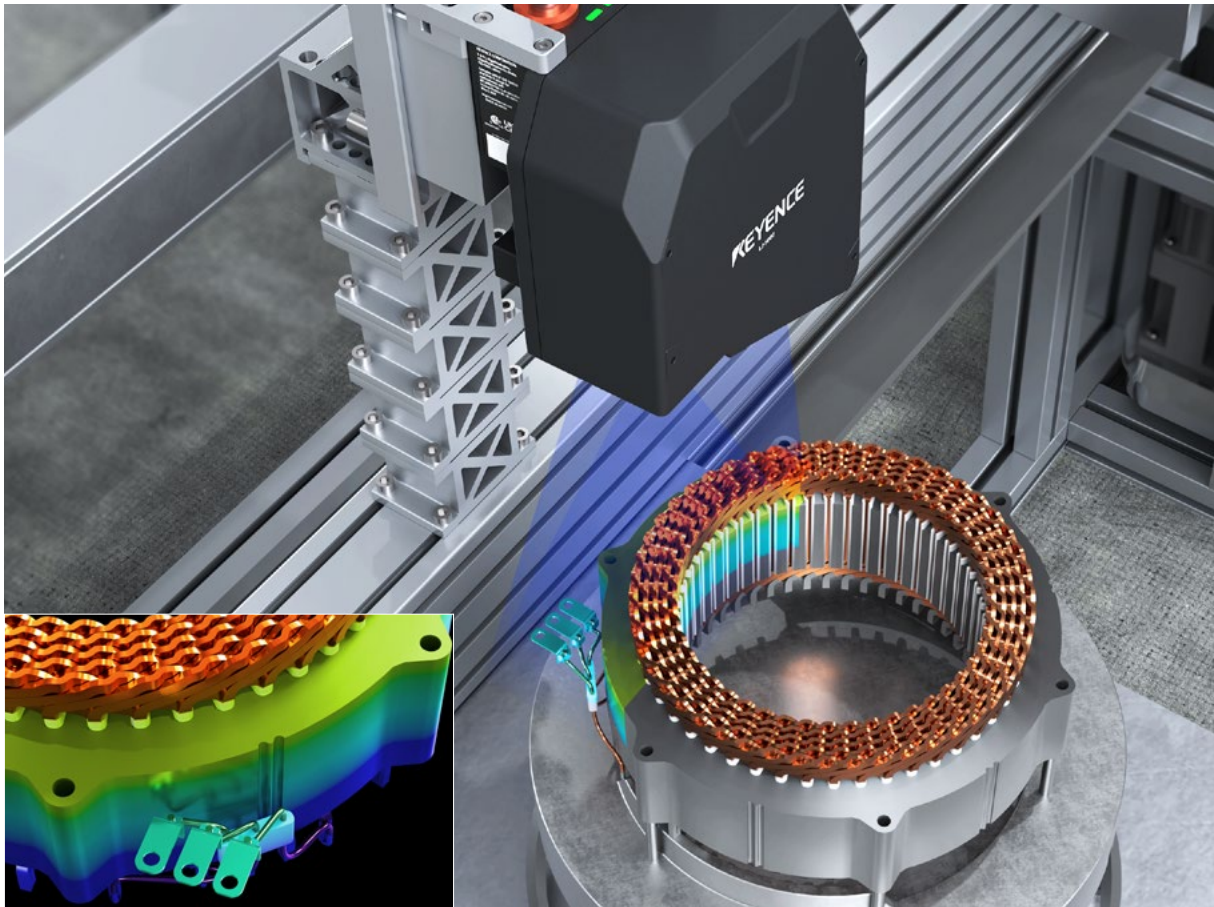
3D Laser Snapshot Sensor
NEW LJ-S8000 Series



Surface measurement >>> **Simultaneous measurements** at multiple locations

High-accuracy measurement >>> **Guaranteed accuracy** throughout the field of view

Easy configuration >>> **Intuitive operation** with a wide range of tools



Advantage 1

Reduced inspection cycle times for improved work efficiency



In-line and near-line 100% inspection

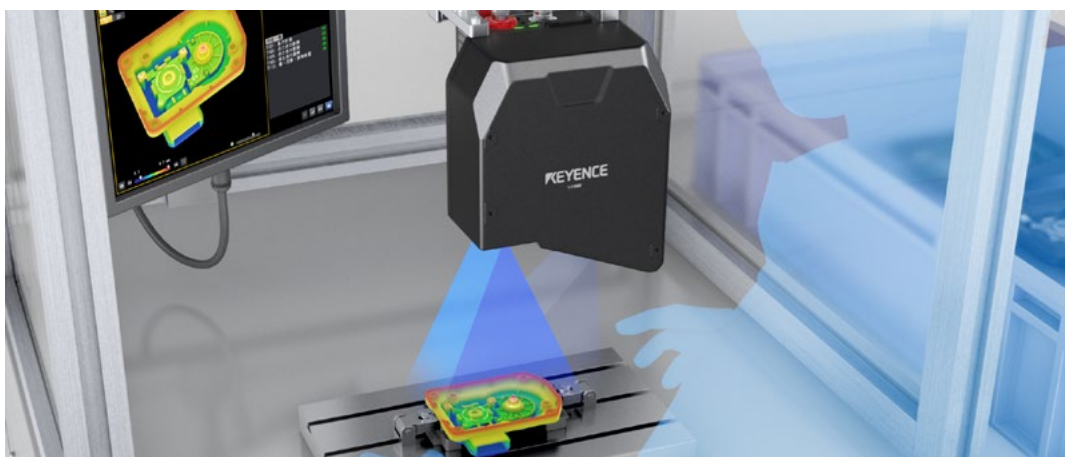
Easily installable with no additional equipment needed

Whether retrofitting a machine, or mounting to the end of a robot arm, the LJ-S Series sensors can be easily integrated into new or existing equipment. The built-in laser light source eliminates the need for specialised lighting or lensing, making installation that much easier. Along with this, the World's First auto-scanning mechanism removes the need for motion, or specialised stages, further simplifying the install process.



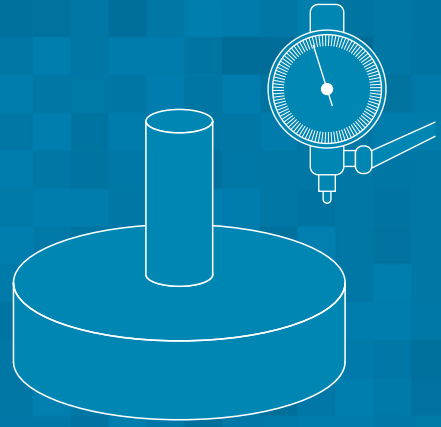
Reduced near-line inspection times

The position correction function ensures accurate measurement even if the target is at an angle. Even targets that are placed at different height can be quickly and accurately measured.



Advantage 2

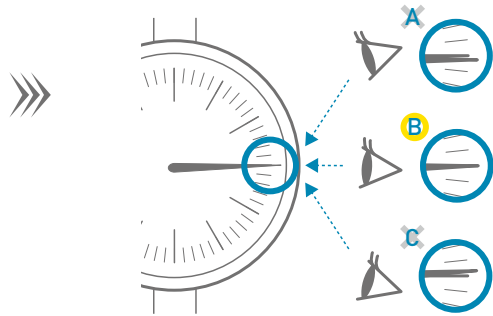
Eliminates operator errors for improved accuracy



Dial gauge/height gauge

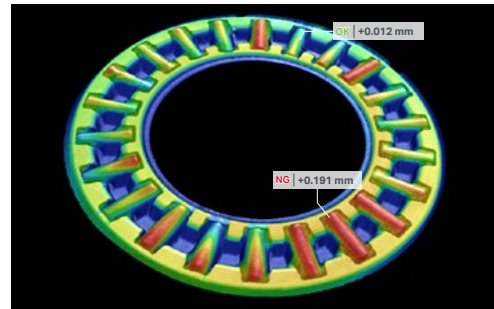
The measured results may vary depending on the position of the operator's eyes or the angle from which the tool is viewed.

Reading errors



LJ-S8000 Series

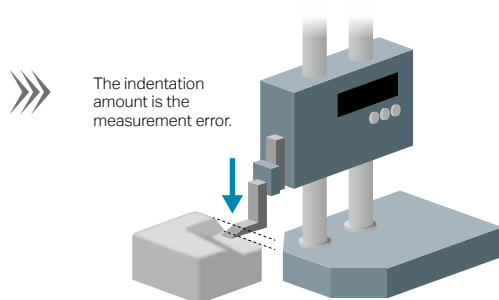
Values are displayed digitally, so there is no error in the reading.



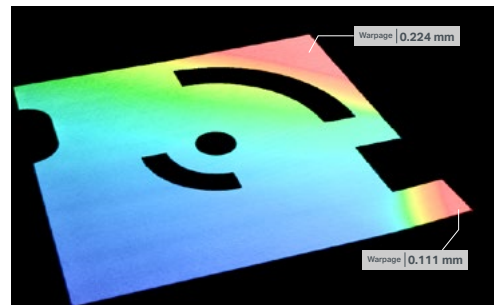
Soft targets cannot be measured.

Contact measurement with soft targets causes the surface to become indented, leading to measurement errors.

Effects of contact pressure

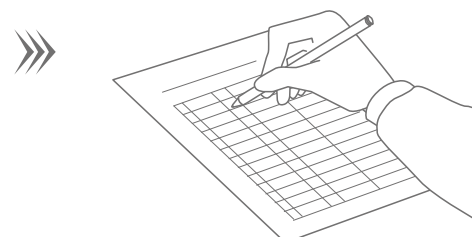


Non-contact measurement means even targets that are easily deformed can be measured accurately.



Manually entering measured results poses the risk of errors in the recorded values.

Mistakes arising from manual operations



The measured values can be output to a PLC or PC, eliminating the need to worry about mistakes in the entered values.

Item No.	Part Name	Material	Quantity	Unit Price	Total Price	Item No.	Part Name	Material	Quantity	Unit Price	Total Price
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
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24	24
25	25
26	26
27	27
28	28
29	29
30	30

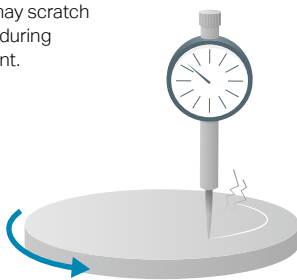
Advantage 3

Prevents damage to targets

Dial gauge/height gauge

There is a risk of targets being scratched.

Depending on the target, the gauge may scratch the surface during measurement.



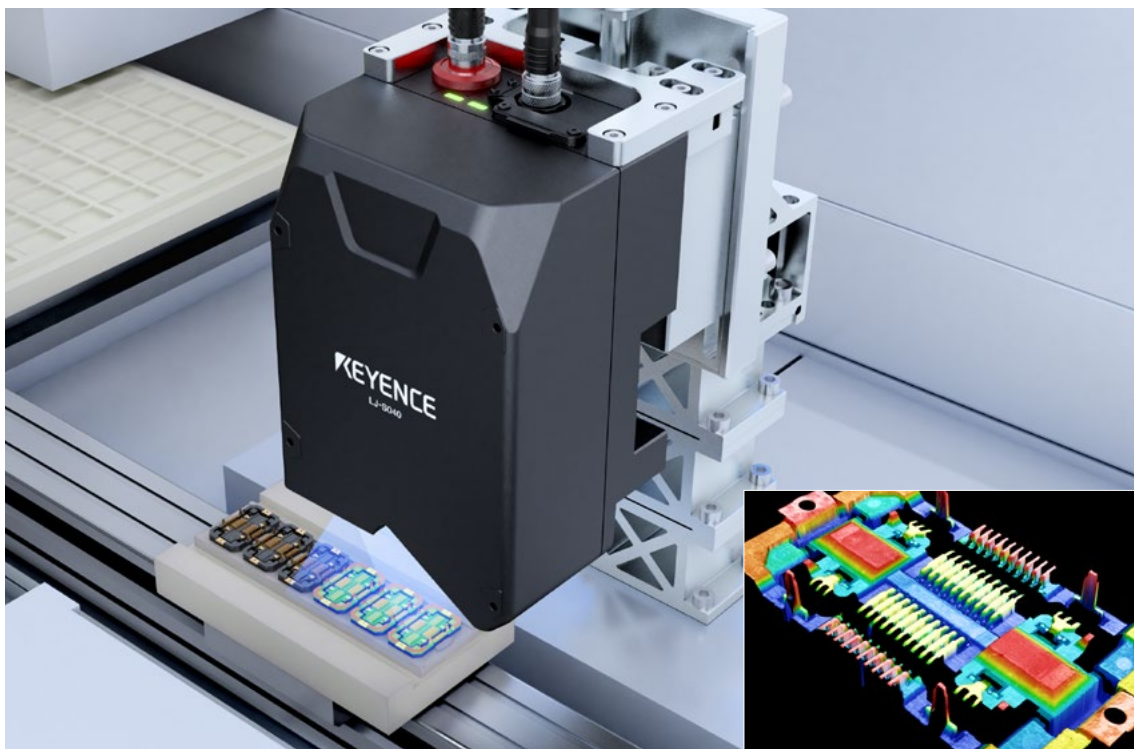
LJ-S8000 Series

There is no risk of targets being scratched.

Since the measurement is non-contact, there is no need to be concerned about the target being scratched.

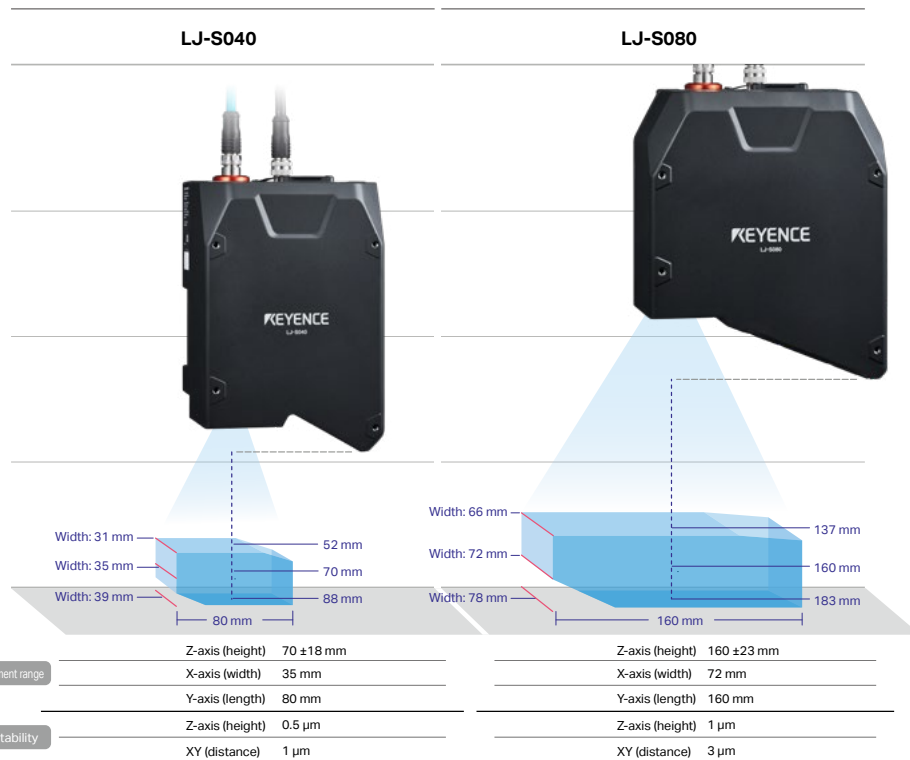
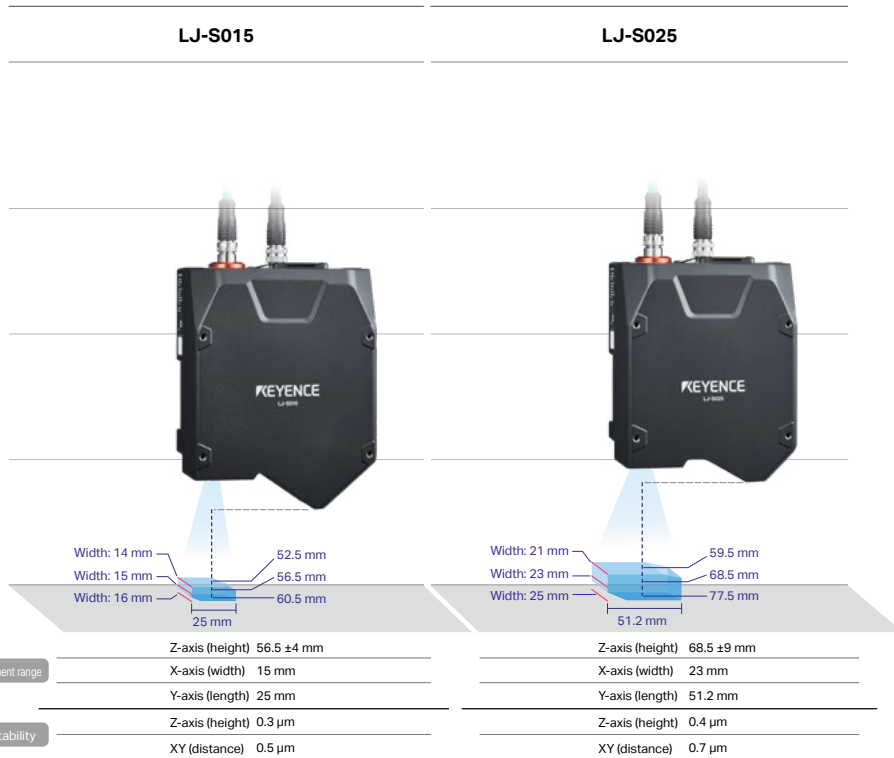


Connector terminal coplanarity measurement



Sensor Head Lineup

Sensor heads



Dedicated stand

Mounting plate A
OP-88960



Mounting plate B
OP-88961



Adjuster
OP-88956



Base plate
OP-88957



Blocks: 1
OP-88958



Blocks: 3
OP-88959



* Height of 1 block = 50 mm

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