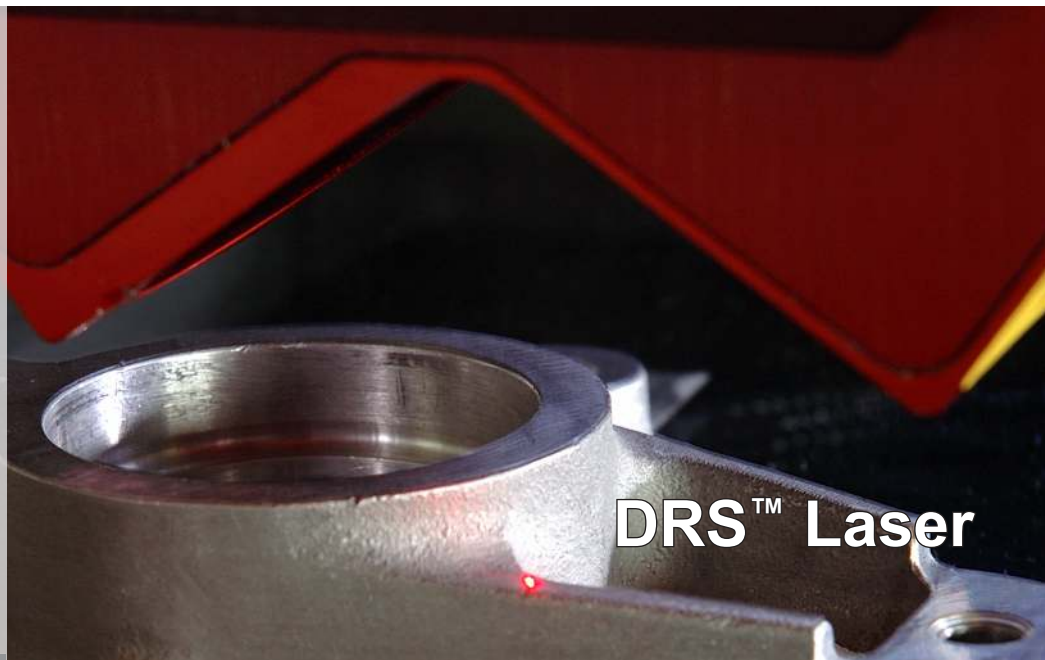




**Optical  
Gaging  
Products**



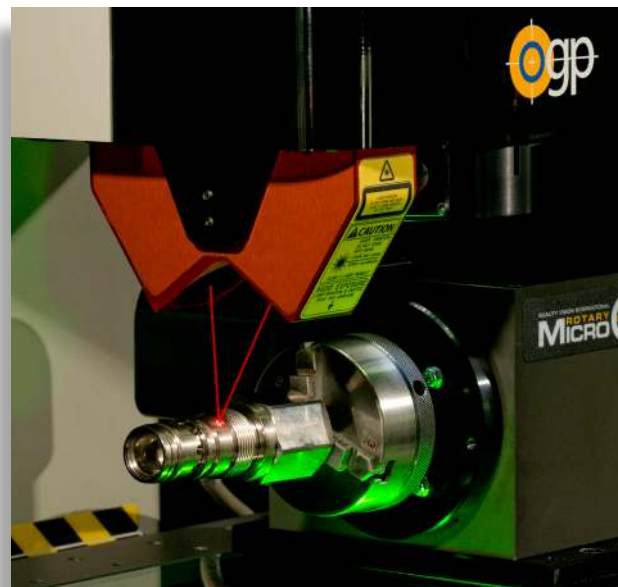
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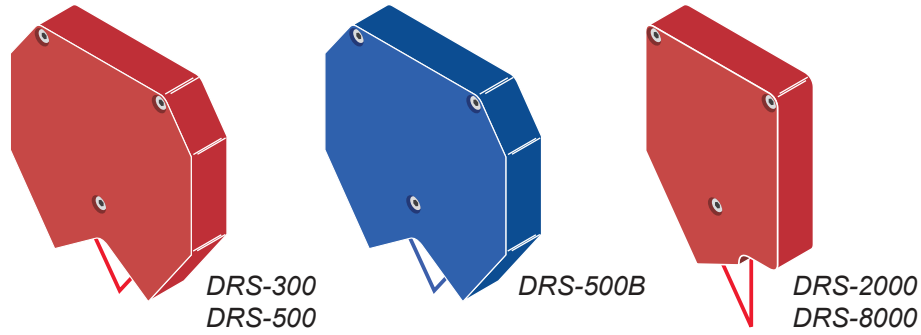


**DRS™ Laser**

- **Add versatility to your video measurement system –**  
DRS Lasers are available for most OGP® SmartScope® floor model and 250 benchtop systems
- **Choose from five models –**  
Five DRS lasers are available, with unique capture ranges, standoff distances, and resolutions
- **Measure the data you need –**  
Gather point, linear or area surface profile measurements
- **Automatic deployment –**  
Most DRS lasers are available with automatic deployment mechanisms, so the laser can be used when needed and retracted out of the way at other times
- **Surface tracking –**  
DRS lasers will dynamically adjust the Z-axis to track part contours
- **Measure parts of any color –**  
New blue DRS laser can measure white or transparent parts

## Dynamic Range Sensor Laser for Height and Surface Profile Measurements





## Technical Specifications

	DRS-300	DRS-500	DRS-500B (Blue Laser)	DRS-2000	DRS-8000
<b>Available for</b>	Most OGP® SmartScope® Quest, ZIP, ATS, and Apex Micro dimensional measurement systems, and Flash/CNC 250 systems				
<b>Required metrology software</b>	QVI® ZONE3™, MeasureMind® 3D MultiSensor or Measure-X®				
<b>Type of Surface</b>	Any	Any	Any surface; best for transparent or white parts	Diffuse only	Diffuse only
<b>Capture range<sup>1</sup></b>	300 µm	500 µm	500 µm	2000 µm	8000 µm
<b>Z accuracy within capture range<sup>2</sup></b>	1.0 µm	1.0 µm	1.0 µm	10.0 µm	40.0 µm
<b>Dynamic resolution</b>	0.125 µm	0.125 µm	0.125 µm	1.0 µm	4.0 µm
<b>Standoff distance<sup>3</sup></b>	17 mm	17 mm	17 mm	31.5 mm	50 mm
<b>Triangulation angle</b>	70°	70°	70°	35°	35°
<b>Spot size (nominal)</b>	7-12 µm	16-23 µm	13-20 µm	32-48 µm	60-85 mm

### Footnotes

<sup>1</sup>Capture range is surface dependent.

<sup>2</sup>Accuracy on horizontal specular surfaces within the measuring range.

<sup>3</sup>Standoff distance is the distance in Z from the lowest point on the DRS laser to the middle of the capture range.



### Safety Considerations

This system is classified as a Class II laser device by IEC 825 (2001). **Do not stare directly into the laser source.**



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