



# SERVICE OPTIONS

## OPTICAL PARTICLE SIZER (OPS) 3330

TSI service, performed on an annual basis, helps to keep your 3330 OPS in proper working order. TSI offers two levels of service: **Clean and Calibrate**, and **Repair, Clean and Calibrate**. Read below to learn what is included in each service.



### Clean and Calibrate Service includes:

<b>Maintain</b>	<ul style="list-style-type: none"><li>+ Clean inlet nozzle, optics chamber (inspect, clean lens and mirror)</li><li>+ Confirm proper operation of basic instrument functions</li><li>+ Check laser and align if needed</li></ul>
<b>Replace</b>	<b>Parts</b> <ul style="list-style-type: none"><li>+ Replace internal HEPA filter, cassette filter, optics block filter, tubing</li><li>+ Replace pump if needed</li></ul>
	<b>Firmware</b> <ul style="list-style-type: none"><li>+ Ensure that all available firmware updates are installed</li></ul>
<b>Test</b>	<b>Calibrate</b> <ul style="list-style-type: none"><li>+ Pressure, sheath flow, and inlet flow rate</li></ul>
	<b>Leak check</b> <ul style="list-style-type: none"><li>+ Ensure unit is leak-tight by testing it at reduced pressure</li></ul>
	<b>Zero check</b> <ul style="list-style-type: none"><li>+ Ensure instrument measures <math>\leq 0.001 \text{ \#/cm}^3</math> when sampling through a HEPA filter for 1 hr</li></ul>
	<b>Size calibration</b> <ul style="list-style-type: none"><li>+ Perform size calibration using PSL aerosol</li></ul>
<b>Does NOT Include</b>	<b>Broken parts</b> <ul style="list-style-type: none"><li>+ Pump, inlet, screen, etc. (In such cases consider "Repair, Clean and Calibrate" service)</li></ul>
	<b>Physical damage</b> <ul style="list-style-type: none"><li>+ Scratches or dents on outer case</li></ul>

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### Repair, Clean and Calibrate includes:

<b>Repair</b>	+ Repair or replace broken parts (e.g. pump, laser)
<b>Clean and Calibrate</b>	+ All actions in a standard 'Clean and Calibrate' service are then performed
<b>Does NOT Include</b>	+ Physical damage to outer case

## WHAT MAKES TSI SERVICE VALUABLE?

As a result of TSI service, you are returned an optimally performing and updated instrument. The service is performed by TSI's experienced technicians for a fixed price. This simple service allows you to stay focused on the work that is important to you. The size calibration for the OPS is conducted using NIST-traceable PSL particles. TSI is registered to ISO-9001:2015.

These TSI services come with a 90-day warranty on labor performed, or parts used, during the service.

### REQUEST SERVICE

Specify	Description
CL-3330	Clean and Calibrate
RP-3330	Repair, Clean and Calibrate

Call, or visit  
[tsi.com/requestservice](http://tsi.com/requestservice)



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**TSI Incorporated** - Visit our website [www.tsi.com](http://www.tsi.com) for more information.

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