

НПП СД

Научно-производственное предприятие  
Структурная Диагностика

# LIS-01

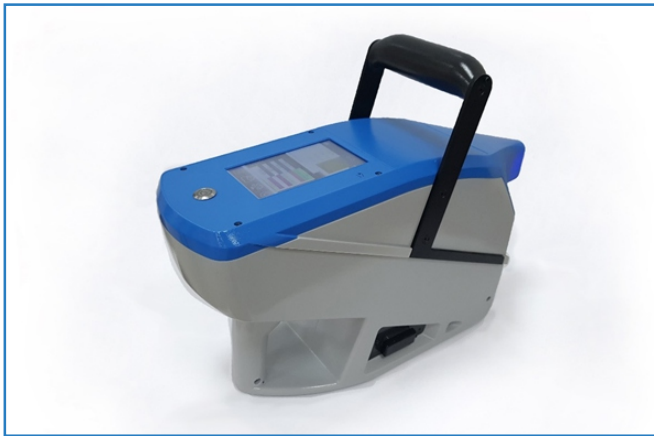
## PORTABLE LASER SPECTROMETER

 LIS-01

Портативный лазерный  
спектрометр



**Carbon analysis directly in air,  
No Argon gas required**



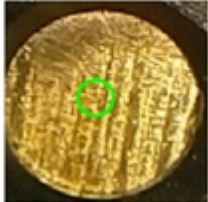
## AREAS OF USE

- > Input / output control of metals, alloys
- > Sorting scrap
- > Spectral analysis in laboratory studies

The LIS-01 Metal Analyzer is designed for operational input inspection of rolled metal products, determination of steel grades, scrap of non-ferrous and ferrous metals and alloys.

The spectrometer provides high speed in determining chemical elements: C, Si, Mn, Cr, Ni, Fe, Mg, Al, V, Cu, Zn, Sn, Mo, Ti, W, Nb, Pd, Ag, Cd, Pt, Au and others.

←
32.6 °C ● ● ● ●


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DB: Stainless steel
>

	Measure	AISI 321
<b>C</b>	0.03 ±0.03	< 0.08
<b>Si</b>	0.72 ±0.08	< 0.75
<b>Mn</b>	1.58 ±0.07	< 2.00
<b>Cr</b>	17.88 ±0.67	17.00 - 19.00
<b>Ni</b>	10.08 ±0.27	9.00 - 12.00
<b>Ti</b>	0.32 ±0.03	0.01 - 0.70
<b>Fe</b>	69.40 ±0.53	50.00 - 85.00
<b>P</b>		< 0.04
<b>S</b>		< 0.03

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## APPLICATIONS

**Carbon analysis.** The LIS-01 allows to measure carbon concentration in steels without using argon, directly in the air.

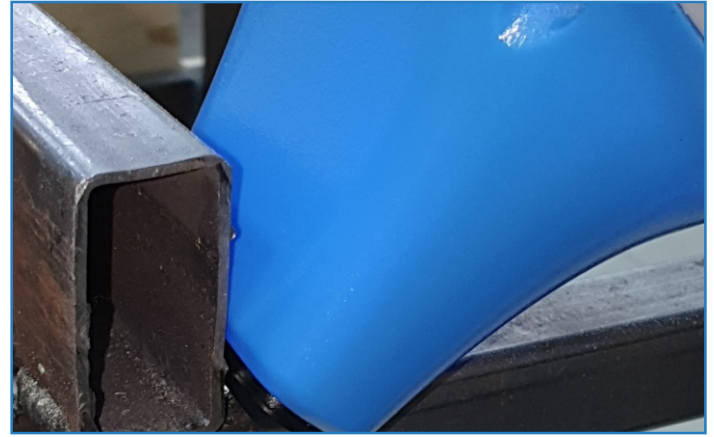
**Accuracy.** Provides unsurpassed resolution of 0.01 nm over the entire measurement range.

**Portability.** Small dimensions and weight comparable to a handheld power tool.

**Reliable.** Unlimited operating life, compared to X-ray fluorescence spectrometers (XRF).

**Built-in grade library.** Based on the results of the analysis, the steel or alloy grade is displayed on the screen.

**CE Value.** Measurement of carbon equivalent values



## TECHNICAL CHARACTERISTICS

Source of radiation	Pulsed DPSS Laser 1064 nm
Measurement point size	50 microns
Measurement duration	1.0 sec
Laser emitter safety class	3b
Working spectral range	177-380 nm
Display	5" color touch screen display
Memory	32 GB
Date Transfer	WIFI and Bluetooth
Language	English, German and Russian
Security	Password Protection
Duration of autonomous work	More than 200 dimensions
Power	Replaceable Li-ion battery
Operating conditions : ambient air temperature	From -15 to +40 °C

## OTHER INCLUSIONS

- > Possibility to adjust the device operation parameters to the selected task
- > Free built-in client software
- > 24 months warranty

## DELIVERY SET

- > Portable laser spectrometer
- > Thermoprinter
- > Batteries
- > Transport case
- > Protective cover
- > Reference sample

# Measurement Of Carbon Equivalent Values



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📍 DOM 5, of 303 Yekaterinburg,  
Technopark University, Russia

🌐 [www.nppsd.ru](http://www.nppsd.ru)

☎ +7 (343) 319-12-62

✉ [mail@nppsd.ru](mailto:mail@nppsd.ru)

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