# Glow Discharge Spectroscopy



# GDS900 Glow Discharge Spectroscopy

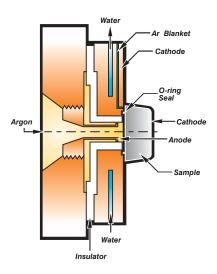
LECO's Glow Discharge Spectrometer (GDS) offers you state-of-the-art technology designed specifically for routine elemental determination in most conductive ferrous and nonferrous materials. The GDS900 features improved performance, stability, accuracy, and precision in steel, iron (including as-cast), aluminum, copper, zinc, nickel, cobalt, tungsten, and titanium. Low melting alloys, resulfurized steel, powder metals,



## Instrument Highlights and Features

#### **Glow Discharge Source Advantages**

- Simple, Linear Calibrations: GD-AES provides narrow emission lines, less interference, increased dynamic range, and less complex spectra when compared to other sources.
- Controlled Excitation: GD-AES provides a non-thermal source to uniformly remove sample material from the surface. Excitation of the sample occurs away from the surface, reducing chemical and metallurgical effects. Very little sample-to-sample carryover allows quick matrix changes. Uniform sample excitation offers improved precision.
- Interchangeable Anodes: Choice of 4 mm and 2 mm anodes to optimize spot size to sample size and type.
- Reduced reference material consumption allows more acquisition between required resurfacing and shallower burn spots requiring less material removal during resurfacing.





#### **Detection System Advantages**

- The inherent sensitivity, dynamic range, and linearity of CCD detectors coupled with the GD source ensures stability, flexibility, and performance for all bulk elemental applications.
- The all CCD detection system provides full wavelength coverage from 160 nm to 460 nm.
- 50 pm (0.050 nm) resolution to differentiate even the most complex features of bulk elemental spectra.
- Recirculated argon-purged spectrometer increases the life of optical components, and eliminates the need for multiple gas sources, and associated accessories, reducing operating costs.

#### System Level User Advantages

- Very easy to operate, maintain and service. Minimal training required.
- Low consumable consumption for minimized cost per test.
- Automatic cleaning between samples saves time, minimizes matrix effects for increased precision.
- Open lamp design and ambidextrous controls allow both right and left hand operation.





#### Reliability with Trusted Service and Support

- Knowledgeable sales force with a customer-centered focus dedicated to helping you understand and identify the best instrumentation fit for your application.
- State-of-the-art Technical Services Laboratory with experienced technical application chemists to assist in method development and other application related requests.
- Global and regional LECO service network comprised of regional support centers and over 25 international LECO subsidiaries, dedicated to providing service and support offerings, including field service visits over the lifetime of the instrument.

## **User-Friendly Cornerstone® Brand Software**

LECO's exclusive Cornerstone brand software with touch-screen interface enables complete access to analysis control, method settings, diagnostics, reporting, and more in a highly organized, intuitive, and immersive environment. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone features all of the routine day-to-day operations within a single Analysis screen designed for speed and ease-of-use. Our innovative grouping of sample data into sets and replicates simplifies the data output and automatically calculates relevant statistics, alleviating the need for additional data processing.



#### **Software Features & Benefits**

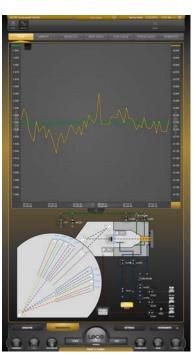
The software is divided into four main sections—Analysis, Diagnostics, Settings, and Instrument—for simplified navigation and organization. Toolbars, sliders, and drop-down menus make it easy to set parameters for calibration and data processing. The software also included real-time monitoring of ambient parameters and spectra, with a fully animated system diagram.

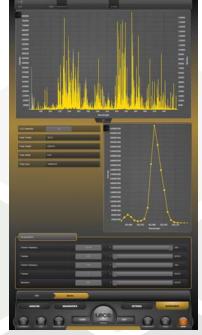
Advanced interactive diagnostic features include a thorough digital on-board manual, maintenance animations, photo illustrations, and screen captures that quickly provide the direction needed without having to refer to multiple manuals.

Cornerstone also supports a multilingual interface, user permissions, extended data archiving and filtering, compatibility with various Laboratory Information Management Systems (LIMS), and flexible reporting capabilities.











# **GDS900 Typical Results**

0.016

0.017

WROUGHT	MILIMINITM	<b>ALLOY 7075:</b>	ΔΙΟΟΔ	SS-7075-HA
VVNCCCIII	ALUITINITOIT	ALLOI / U/ J.		JJ / U/ J I IA

WROUGHT AI	LOMIN TOM ALL	01 7075. ALC	OA 33 7 07 3 11	•					
ELEMENT	CERT	AVG	STDEV	RSD	Run #1	Run #2	Run #3		
Al	89.30	89.22			89.18	89.22	89.25		
Cr	0.22	0.23	0.006	2.8	0.225	0.234	0.237		
Cu	1.57	1.67	0.01	0.6	1.68	1.67	1.66		
Fe	0.24	0.26	0.004	1.5	0.269	0.261	0.263		
Ga	0.021	0.019	0.0001	0.3	0.0193	0.0194	0.0194		
Mg	2.57	2.50	0.008	0.3	2.513	2.501	2.498		
Mn	0.069	0.071	0.0001	0.2	0.0713	0.0714	0.0716		
Si	0.16	0.16	0.0002	0.1	0.1612	0.1609	0.1611		
Ti	0.042	0.044	0.001	1.8	0.043	0.044	0.044		
V	0.012	0.010	0.0002	2.2	0.0099	0.0103	0.0100		
Zn	5.78	5.81	0.02	0.3	5.82	5.81	5.79		
HIGH MANGAI	HIGH MANGANESE AUSTENITIC STEEL: BAS SS495-3								
ELEMENT	CERT	AVG	STDEV	RSD	Run #1	Run #2	Run #3		
Fe	80.51	80.62	SIDEY	KOD	80.7	80.60	80.57		
C	0.81	0.73	0.002	0.3	0.731	0.727	0.730		
Cr	2.03	2.06	0.004	0.2	2.055	2.054	2.062		
Mn	14.05	13.89	0.07	0.5	13.82	13.91	13.95		
Mo	0.30	0.30	0.002	0.7	0.296	0.300	0.298		
Ni	1.59	1.54	0.006	0.4	1.548	1.539	1.536		
P	0.079	0.075	0.001	0.9	0.075	0.074	0.075		
S	0.020	0.021	0.0002	1.0	0.0206	0.0209	0.0210		
Si	0.60	0.61	0.003	0.5	0.606	0.611	0.609		
		IINUM BRONZ					- "-		
ELEMENT	CERT	AVG	STDEV	RSD	Run #1	Run #2	Run #3		
Cu	83.83	83.85			83.79	83.81	83.94		
Al	10.39	10.20	0.06	0.5	10.23	10.24	10.14		
Fe	3.77	3.76	0.02	0.6	3.78	3.74	3.74		
Mn	0.37	3.76 0.36	0.02 0.005	1.4	3.78 0.365	0.360	0.355		
Mn Ni	0.37 1.15	3.76 0.36 1.15	0.02 0.005 0.006	1.4 0.5	3.78		0.355 1.142		
Mn Ni P	0.37 1.15 0.015	3.76 0.36 1.15 0.023	0.02 0.005 0.006 0.0004	1.4 0.5 1.5	3.78 0.365	0.360	0.355 1.142 0.0237		
Mn Ni	0.37 1.15	3.76 0.36 1.15 0.023 0.078	0.02 0.005 0.006 0.0004 0.0003	1.4 0.5	3.78 0.365 1.150 0.0237 0.0778	0.360 1.154 0.0231 0.0783	0.355 1.142 0.0237 0.0779		
Mn Ni P Pb Si	0.37 1.15 0.015 0.060 0.11	3.76 0.36 1.15 0.023 0.078 0.10	0.02 0.005 0.006 0.0004 0.0003 0.0004	1.4 0.5 1.5 0.3 0.4	3.78 0.365 1.150 0.0237 0.0778 0.1040	0.360 1.154 0.0231 0.0783 0.1047	0.355 1.142 0.0237 0.0779 0.1048		
Mn Ni P Pb Si	0.37 1.15 0.015 0.060 0.11 0.050	3.76 0.36 1.15 0.023 0.078 0.10 0.050	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001	1.4 0.5 1.5 0.3 0.4 1.1	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051	0.360 1.154 0.0231 0.0783 0.1047 0.050	0.355 1.142 0.0237 0.0779 0.1048 0.050		
Mn Ni P Pb Si	0.37 1.15 0.015 0.060 0.11	3.76 0.36 1.15 0.023 0.078 0.10	0.02 0.005 0.006 0.0004 0.0003 0.0004	1.4 0.5 1.5 0.3 0.4	3.78 0.365 1.150 0.0237 0.0778 0.1040	0.360 1.154 0.0231 0.0783 0.1047	0.355 1.142 0.0237 0.0779 0.1048		
Mn Ni P Pb Si Sn Zn	0.37 1.15 0.015 0.060 0.11 0.050 0.18	3.76 0.36 1.15 0.023 0.078 0.10 0.050	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001	1.4 0.5 1.5 0.3 0.4 1.1	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051	0.360 1.154 0.0231 0.0783 0.1047 0.050	0.355 1.142 0.0237 0.0779 0.1048 0.050		
Mn Ni P Pb Si Sn Zn AS-CAST (GRAY	0.37 1.15 0.015 0.060 0.11 0.050 0.18	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001	1.4 0.5 1.5 0.3 0.4 1.1	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219		
Mn Ni P Pb Si Sn Zn AS-CAST (GRAY	0.37 1.15 0.015 0.060 0.11 0.050 0.18 () IRON: BRAMA	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001	1.4 0.5 1.5 0.3 0.4 1.1	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219		
Mn Ni P Pb Si Sn Zn AS-CAST (GRAY) ELEMENT Fe	0.37 1.15 0.015 0.060 0.11 0.050 0.18 7) IRON: BRAM/ CERT 92.54	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV	1.4 0.5 1.5 0.3 0.4 1.1 0.7	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221 Run #1 92.59	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221 Run #2 92.60	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219 Run #3 92.52		
Mn Ni P Pb Si Sn Zn AS-CAST (GRAY ELEMENT Fe AI	0.37 1.15 0.015 0.060 0.11 0.050 0.18 7) IRON: BRAM/ CERT 92.54 0.020	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004	1.4 0.5 1.5 0.3 0.4 1.1 0.7	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221 Run #1 92.59 0.0214	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221 Run #2 92.60 0.0207	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210		
Mn Ni P Pb Si Sn Zn AS-CAST (GRAY ELEMENT Fe AI C	0.37 1.15 0.015 0.060 0.11 0.050 0.18 "IRON: BRAM/ CERT 92.54 0.020 3.83	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 <b>BS21A-G</b> <b>STDEV</b> 0.0004 0.05	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr	0.37 1.15 0.015 0.060 0.11 0.050 0.18 T) IRON: BRAMA CERT 92.54 0.020 3.83 0.10	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu	0.37 1.15 0.015 0.060 0.11 0.050 0.18 T) IRON: BRAMA CERT 92.54 0.020 3.83 0.10 0.23	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 <b>BS21A-G</b> <b>STDEV</b> 0.0004 0.05 0.0005 0.0002	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5 0.7	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn	0.37 1.15 0.015 0.060 0.11 0.050 0.18 7) IRON: BRAMA CERT 92.54 0.020 3.83 0.10 0.23 1.18	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 <b>BS21A-G</b> <b>STDEV</b> 0.0004 0.05 0.0005 0.002 0.02	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5 0.7 1.7	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn Mo	0.37 1.15 0.015 0.060 0.11 0.050 0.18 T) IRON: BRAM/ CERT 92.54 0.020 3.83 0.10 0.23 1.18 0.19	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10 0.19	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005 0.002 0.002 0.002	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5 0.7 1.7 0.8	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12 0.192	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10 0.189	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09 0.189		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn Mo Ni	0.37 1.15 0.015 0.060 0.11 0.050 0.18  T) IRON: BRAMA CERT 92.54 0.020 3.83 0.10 0.23 1.18 0.19 0.19	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10 0.19 0.19	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005 0.0002 0.002 0.002 0.002	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5 0.7 1.7 0.8 0.1	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12 0.192 0.1911	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10 0.189 0.1911	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09 0.189 0.1907		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn Mo	0.37 1.15 0.015 0.060 0.11 0.050 0.18 T) IRON: BRAM/ CERT 92.54 0.020 3.83 0.10 0.23 1.18 0.19	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10 0.19 0.19 0.072	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005 0.002 0.002 0.002 0.002 0.002 0.0002 0.0001	1.4 0.5 1.5 0.3 0.4 1.1 0.7 RSD 1.7 1.3 0.5 0.7 1.7 0.8	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12 0.192	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10 0.189	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09 0.189		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn Mo Ni P S	0.37 1.15 0.015 0.060 0.11 0.050 0.18  T) IRON: BRAM/ CERT 92.54 0.020 3.83 0.10 0.23 1.18 0.19 0.19 0.070 0.018	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10 0.19 0.19 0.072 0.017	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005 0.002 0.002 0.002 0.002 0.002 0.0002 0.0001 0.0001	1.4 0.5 1.5 0.3 0.4 1.1 0.7 <b>RSD</b> 1.7 1.3 0.5 0.7 1.7 0.8 0.1 1.4 2.4	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12 0.192 0.1911 0.071 0.0165	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10 0.189 0.1911 0.072 0.0162	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09 0.189 0.1907 0.073 0.0170		
Mn Ni P Pb Si Sn Zn  AS-CAST (GRAY ELEMENT Fe AI C Cr Cu Mn Mo Ni P	0.37 1.15 0.015 0.060 0.11 0.050 0.18  T) IRON: BRAMI  CERT 92.54 0.020 3.83 0.10 0.23 1.18 0.19 0.19 0.070	3.76 0.36 1.15 0.023 0.078 0.10 0.050 0.22 MER STANDARD AVG 92.57 0.021 3.83 0.10 0.23 1.10 0.19 0.19 0.072	0.02 0.005 0.006 0.0004 0.0003 0.0004 0.001 0.001 BS21A-G STDEV 0.0004 0.05 0.0005 0.002 0.002 0.002 0.002 0.002 0.0002 0.0001	1.4 0.5 1.5 0.3 0.4 1.1 0.7 <b>RSD</b> 1.7 1.3 0.5 0.7 1.7 0.8 0.1 1.4	3.78 0.365 1.150 0.0237 0.0778 0.1040 0.051 0.221  Run #1 92.59 0.0214 3.79 0.1013 0.236 1.12 0.192 0.1911 0.071	0.360 1.154 0.0231 0.0783 0.1047 0.050 0.221  Run #2 92.60 0.0207 3.80 0.1010 0.233 1.10 0.189 0.1911 0.072	0.355 1.142 0.0237 0.0779 0.1048 0.050 0.219  Run #3 92.52 0.0210 3.88 0.1003 0.234 1.09 0.189 0.1907 0.073		

3.1

0.0005

0.0167

0.0178

0.0174

# **Model Availability**

GDS900DCBO	GDS900 Bulk Analysis Package w/DC Lamp, PC, Touch-screen, and Vacuum Pump
GDS900DCEXBO	GDS900 Bulk Analysis Package w/DC lamp, Extension Spectrometer, PC, Touch-Screen, and Vacuum Pump

# **Options**





Enhance the ergonomics of the system with the choice of an optional integrated desk or mobile workstation.



Our optional extension spectrometer extends spectral coverage from 460 to 850 nm, allowing access to higher wavelength elements like sodium, potassium, and lithium.



Optional vacuum pump sound abatement enclosure reduces ambient noise from vacuum pump by ~7 dBa.

#### LECO — Consumables



Use genuine LECO consumables for optimal GDS performance. These include the anode, reamer assembly, insulating sleeve, and o-ring in the lamp assembly. The spectrometer box gas recirculator requires reagents used to purify the purge gas, including anhydrone, LECOSORB®, and copper sticks.

### LECO — Your source for total analytical solutions



#### CS Series: Carbon/Sulfur by Combustion

- Carbon and sulfur determination by combustion infrared detection
- Quick, accurate, and affordable determination for both production control and research
- Calibration, analysis, evaluation, and diagnostic functions accessible via user-friendly Cornerstone brand software

#### ONH Series: Oxygen/Nitrogen/Hydrogen by Fusion

- Oxygen, nitrogen, and hydrogen by inert gas fusion
- State-of-the-art infrared and thermal conductivity detectors with no moving parts and no manual adjustments
- User-friendly Cornerstone brand software
- Custom software interface designed specifically for touchscreen operation



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