



# TITANIUM SCRAP SORTING AND ALLOY IDENTIFICATION

● CHEMLITE™ LASER METALS ANALYZER

# STOP SERVICING YOUR OLD OES SORTING STATIONS

On-going service costs, and often unplanned repair expenses associated with an aging Titanium test station can be very expensive. It's time to retire your old Titanium test stations and upgrade to a new ChemLite handheld laser analyzer that measures Titanium (Ti) more accurately and easily than ever before. Whether you are analyzing and sorting large or small pieces of scrap Ti or ensuring final product is correctly labeled, trust the ChemLite™ analyzer for your Titanium analysis.

## THE CHEMLITE ANALYZER DIFFERENCE

Fast Ti-scrap identification and accurate quantitative analysis of revert scrap is now available with the ChemLite Metals Analyzer. Built to be scrapyards tough, but with lab-grade accuracy, the ChemLite handheld analyzer has the portability and ruggedness demanded on the plant floor, but the kinds of accuracy desired by the lab. This powerful but eyesafe laser product delivers the ultimate accuracy, with superior detection limits for many alloying elements in Ti-base, including Al, V, and Mo. Finally, a fast and accurate Ti analyzer designed for industrial use.

## SUPERIOR TITANIUM ANALYSIS

The ChemLite analyzer provides fast and reliable titanium alloy analysis more quickly and easily than ever before. Users can obtain rapid pass/fail screening for Ti-6-4 and can even burn through shot-blasted Ti-6-4 with surface Fe to obtain the correct identification. The ChemLite analyzer also makes it easy to distinguish between similar Titanium alloys like Ti 6-2-4-2 vs. Ti 6-2-4-6, and even quantify low V (down to 0.1%) to distinguish alloys based on trace elements. Every ChemLite analyzer comes with a factory-loaded Titanium library with the most common Ti alloys, including:

- + Ti-CP
- + Ti-6-4
- + Ti-6-2-4-2
- + Ti-6-2-4-6
- + Ti-6Al-7Nb
- + Ti-6-6-2
- + Ti 3-2.5
- + Ti 10-2-3
- + Ti-15-3-3-3
- + Ti-52244
- + And more...

El	Min	%	Max
Ti	89.20	90.55	91.80
Al	5.30	5.53	5.75
V	3.60	3.80	4.00
Fe	0.00	0.12	0.20
Sn	0.00	<1.00	1.00
Mo	0.00	<0.50	0.50
Ta	0.00	<0.50	0.50
Nb	0.00	<0.10	0.10
Zr	0.00	<0.10	0.10
Cr	0.00	<0.05	0.05

Scanned For	Result
Ti6-4	96.92% ✓
Ti6-4	0.32% ✗
Ti6-4	100.00% ✓
Ti6-4	96.63% ✓
Ti6-4	100.00% ✓
Ti6-4	94.98% ✓
Ti6-4	100.00% ✓

Alloy Manager software makes it easy to customize your ChemLite analyzer to include specialty titanium alloys by simply defining your alloys, element by element, and uploading them to your ChemLite analyzer to better suit the needs of your operation



# UPGRADE TO A NEW CHEMLITE HANDHELD LASER ANALYZER

## TRULY PORTABLE AND EASY TO USE

Unlike other measurement devices, the ChemLite analyzer is a lightweight, rugged handheld device that is truly portable so measurements can be easily made anywhere in the plant. Replace heavy, fragile, and aging Optical Emission Spectroscopy (OES) test carts, tethered analyzer heads, and stationary sorting stations and avoid time-consuming and labor intensive cutting and transport of large Ti pieces by bringing the ChemLite analyzer to the metal, not the other way around.

So-called "portable" OES carts with large Argon gas tanks, can often require specialized user training, or are restricted to only quality managers and trained technicians. With ChemLite analyzer's simple point-and-shoot analysis, any user can successfully operate and analyze metals without specialty training.

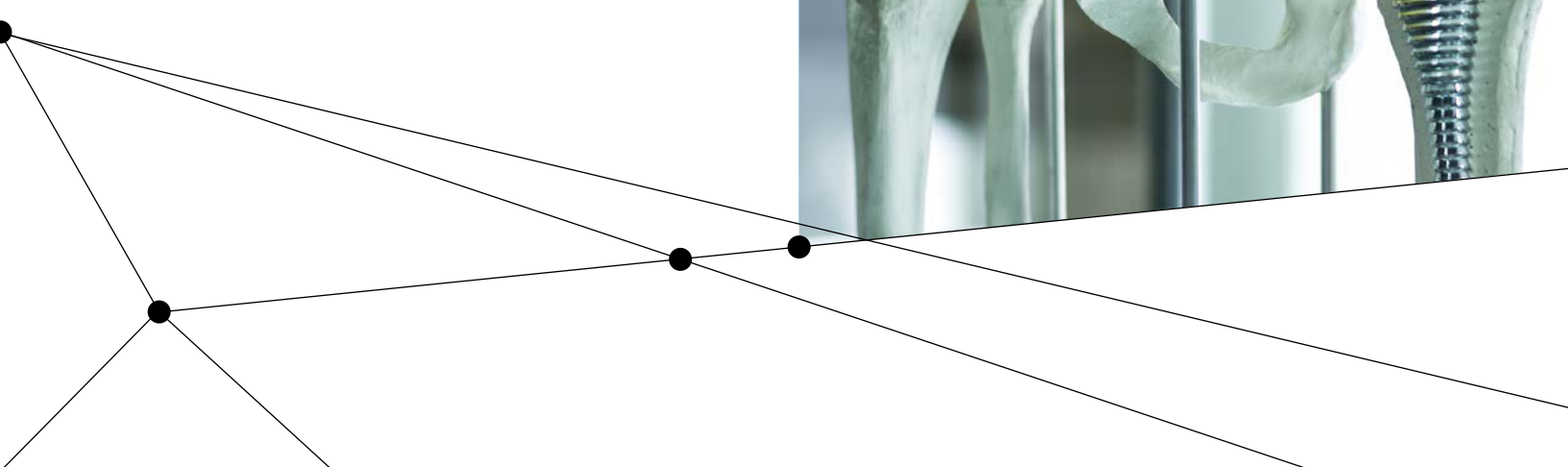
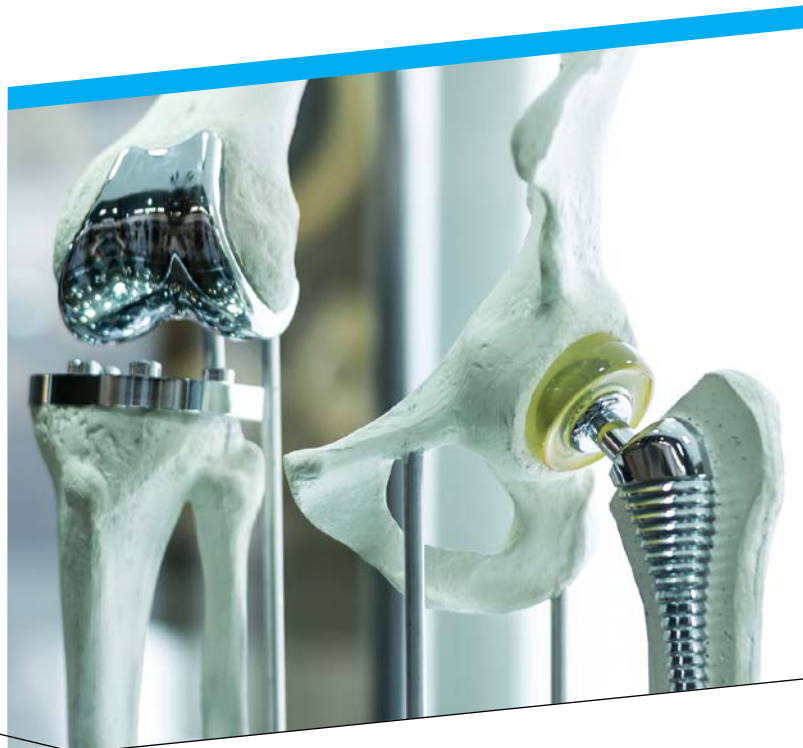
The ChemLite analyzer also boasts a 5" color touchscreen with the navigation ease and familiarity of a smart phone, making detailed data available at a glance for everyone who uses it, not just laboratory technicians.

## ASSURED COMPLIANCE WITH ENVIRONMENTAL HEALTH AND SAFETY STANDARDS

The ChemLite Laser Metals Analyzer is a Class 1M laser device that is considered safe for all uses, including analysis of small and irregular pieces and turnings, without additional safety precautions, including no protective eyewear, no special training, no laser safety officer (LSO), and no annual fees for safety training. Rest assured that the ChemLite analyzer meets Environmental Health & Safety (EHS) compliance standards so you are ready to use it right out of the box.

## BACKED BY TSI'S GLOBAL SERVICE AND SUPPORT

TSI's QualityGuard Service and Repair program covers annual re-calibration and certification, and even major repair services, to ensure that your analyzer is continuously operated under a valid factory calibration/certification and up to factory standards. TSI has a team of applications and service experts around the globe, so your ChemLite analyzer will always be in good hands.



## SPECIFICATIONS

- + Preloaded with an expansive library of metal alloys; user-configurable library
- + Three modes of operation: Assay (quantification of elements), PMI (material classification) and Screening (pass/fail of alloy and element screening)
- + 3-second analysis time
- + USB data storage/transfer
- + "Certificates of Verification" reports
- + 5°C to 35°C operational temperature
- + Battery life for hundreds of measurements
- + 2 rechargeable, removable lithium-ion batteries included
- + AC power charger included
- + Hard-side carrying case included
- + 1-year limited warranty

FOR AN ON-SITE DEMONSTRATION, CONTACT A TSI® | CHEMLOGIX™ REPRESENTATIVE BY VISITING [TSI.COM/CHEMLITE](http://TSI.COM/CHEMLITE) OR CALL **800-874-2811**.



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