The X and Z of

Scrap Processing

An X-ray analyzer designed from the ground up to be the fastest scrap sorter in existence.

New for 2018
Scrapper
X-250

Videos https://goo.gl/WBJ8NC

SciAps

Meet the **X**
Revolutionizing X-ray Gun Technology

The Latest

Fast Alloy Now your operators need not be metallurgists. They don't have to know when to use one beam setting or two based on the alloy. Fast Alloy's autopilot setting knows from the grade specs if the material only requires a 1-2 second single beam test, or a 3-4 second two beam test. The X delivers fast, accurate, productive alloy sorting for all materials regardless of your operator's experience level.

Example

Some processors want highly specific sorting: stainless 303 from 304, red metals into Al, Si and phosphor bronzes. Others are fine with the basics. Fast Alloy's Autopilot feature means you can setup the X to automatically sort to the degree you want. Even the most inexperienced operators can speedily sort complex alloys.

A Breakthrough in Aluminum Sorting

Meet the Aluminum App (patent pending). Now sort 90% of your Al alloys in 2 seconds, the rest in 4 seconds. The extra 2 second test is performed automatically and only if elements Zr, Ag, Sn, Bi, Pb or Cd are required to correctly ID the grade.

The X + Aluminum App

For the first time ever, the speed and accuracy of spark on aluminums AND the performance of X-ray for high-temps, stainless and turnings. Now all in one analyzer.

## Service Simply Costs Less

At, SciAps, service is a loyalty program not a profit center. Our tube or detector replacements are less than half other brands. And we reduce the likelihood of those budget-busting broken detectors with our high-speed shutter. It guards against detector punctures from stray tools, fingers, or window cleaning gone bad.

The X Series Shutter

Test Turnings?

Turnings may damage detectors. The X includes our new Turnings App plus a user installable ultra tough window to protect that detector when the shutter's open. If you test turnings, you'll love this App.
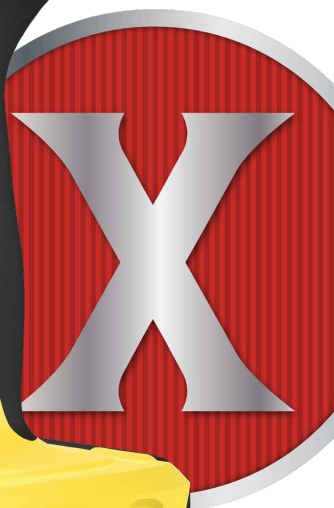
Meet the Z
The Highest Performing Laser Gun (LIBS)

The technique is called LIBS – laser induced breakdown spectroscopy. For spark OES users, LIBS is very similar, except it uses a pulse laser to produce the plasma rather than electric spark. Like OES, LIBS delivers very accurate chemistry provided it's operated in an argon purge environment.

Why is SciAps Z the Industry Leading Laser Unit?

Powerful Laser

Laser power is determined by pulse energy, and at 5-6 mJ/pulse, the Z has the most powerful laser in the business. The Z handles all your alloys, not just aluminums.

Argon Purge

The Z is the ONLY LIBS with on-board argon purge (patented). Ask any spark OES user. The key to precise alloy chemistry is argon. Precision and detection limits improve by up to 10x with argon purge.

Blast Through Anodizing & Surface Dirt

Z has the most powerful cleaning shots of any laser.

Dirty surfaces or anodizing require grinding with other LIBS, but not the Z. The Z fires 50 laser shots per second at the surface to burn off dirt and contamination prior to analysis.

Eliminate "Bad Burns" Forever.

SciAps Z's are standard with on-board camera and laser targeting, making turnings and other irregular shaped metal pieces easy to test.

When to use Laser LIBS instead of X-ray

Carbon
Sort your ferrous by carbon content, and segregate your stainless into L and H grades. The Z is the only handheld on the planet that measures carbon content.

Aluminum scrap
The Z handles aluminum and magnesium scrap with speed and precision due to its excellent performance on Mg, Al and Si. Laser is especially recommended for aluminum that is anodized or contains surface dirt. The Z will burn through the surface layers. X-ray will require a grind in these cases.

The "Light Elements"
Use Z when measuring the elements Li, Be, B, C in alloys, or <0.2% Mg. For example, lithium (Li), beryllium (Be) and/or boron (B) in Al alloys, Be in red metals, or B in nickel, stainless or other alloys.

Eliminate Burdensome Regulations and Inspections. The Z is operable as a Class 1 device, so you can eliminate the radiation safety program and surprise inspections.

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X&Z Series Model Guide

Z-200, Z-200C+ - Highest Precision & Performance
The ONLY high precision laser-based gun. A great complement for the X for targeted applications. Avoid the radiation and the regulatory hassles that may come with X-ray.

X-250 Scrapper The High Performer
It's the fastest, most precise alloy analyzer in existence. Most powerful tube available. Delivers unprecedented speed and accuracy for aluminum alloys, via the Aluminum App. Great on high temps, stainless and turnings like all X-ray.

X-100 The Workhorse
Comparable performance to other high-end brands at a better price. The X-100 excludes Mg, Al, Si, P and S, but you can upgrade any time.

X-50 The Basic Sorter
Uses older PiN diode detector. Less expensive, great choice for sorting most stainless, high temps, red metals. Sort aluminums by 2000's, 7000's, and MLC's.

ONE BOX
The "sort everything" package! The Z for carbon steels, L-grade stainless upgrades, Li, Be, B in alloys. The X for everything else. They share the same UI, batteries, accessories. Either unit backs up the other for peak demand.".

Print it, Sync it, Email it. Welcome to the Power of Android.
Our Mobile App automatically shares tests results to your phone. Then simply email or text results instantly, globally.
Want real-time data from anywhere in the world? Our new Sync App sends every test to computers globally (Peer-to-Peer). Monitor testing, share results globally in real time. End tedious manual exporting forever.

Wireless Printer
Print it, forget the cables. Our belt-mounted wireless printer provides test results on sticky labels at the point of testing.

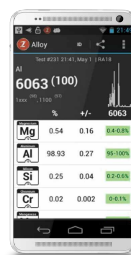# Visual Model Reference Guide for Scrap Industry

Z-200
Z-200C+

X-250
X-100

X-50

Mobile App

ONE BOX

Wireless Printer