

# Learn the Latest Handheld Technologies to Sort your Metal

So many options

**X-ray or Laser?**

**PiN diode** detector or drift detector?

**Air-burn** or argon-purge?



There are many sorting technologies out there today. SciAps makes them all. We're not invested in pushing one technology over another. Our goal is to sell you the analyzer technology that is the best fit for your sorting needs.

**Stop by our sorting tables at booth 609.**

Whether your sorting primarily stainless and high temps, aluminum, ferrous, e-scrap or more exotic materials, we can show you the best technology and the best price/performance options. We're here to answer your questions and show you what works and what doesn't – on real world scrap!

SciAps Inc  
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**SciAps**

**Visit us at ISRI Booth 609 for a demo**

# >>>> The Starting Point The 3 Rules of Thumb for X-ray vs Laser.

X-ray is the superior technique for stainless, high temp alloys, red metals, and turnings. These are the sweet spot for X-ray.

Laser is superior for light alloys such as aluminum and magnesium alloys. Laser is superior at measuring Al, Si, Mg compared to X-ray.

If you want to measure the elements lithium (Li), beryllium (Be), boron (B) and/or carbon then laser is the only choice.



## What Best Describes What You Want to Sort?

Stainless, high temps, red metals by grade mainly, in 3-10 s depending on the alloy. I do not need to measure Mg, Al, Si, P or S.

Basic stainless, high temps, red metals. For aluminums I only need to sort 2000's, 7000's and MLC's.

Stainless, high temps, red metals with high precision on chemistry, and have every test require 1-3 seconds max.

I want to measure Mg, Al, Si so I can sort my aluminum alloys into very specific grades such as 2014 vs 2024, 3003 vs 3005, 6061/6063/1100 with high accuracy. And I want the best performance on stainless and high temps.

Aluminum alloys as fast and as accurately as possible into many different grades. The analyzer can be a back up to my high temps, turnings.

Best possible performance on high temps, turnings, red metals and also as well as I can do on aluminums with X-ray.

I must measure Li, Be, B and/or carbon.

Excellent performance for aluminums, good performance on stainless, high temps, red metals and other alloys and I absolutely don't want to have x-ray radiation regulations to deal with.

Just basic alloy sorting for a small facility that handles aluminum, some red metals, occasional stainless and I want the lowest cost system available.

We have an "old OES system." We would like to replace it with something more portable and simpler to operate, but we hate to give up it's analytical advantages for light elements such as Li, Be, Mg, & Si - especially with aluminum, low alloy/carbon steels & beryllium coppers.

	X-ray		Laser	
	PIN Detector	Si Drift Detector	Argon Purge	Air-Burn
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Basic stainless, high temps, red metals. For aluminums I only need to sort 2000's, 7000's and MLC's.	X			
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I want to measure Mg, Al, Si so I can sort my aluminum alloys into very specific grades such as 2014 vs 2024, 3003 vs 3005, 6061/6063/1100 with high accuracy. And I want the best performance on stainless and high temps.		X		
Aluminum alloys as fast and as accurately as possible into many different grades. The analyzer can be a back up to my high temps, turnings.			Z	
Best possible performance on high temps, turnings, red metals and also as well as I can do on aluminums with X-ray.		X		
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Just basic alloy sorting for a small facility that handles aluminum, some red metals, occasional stainless and I want the lowest cost system available.				Z
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