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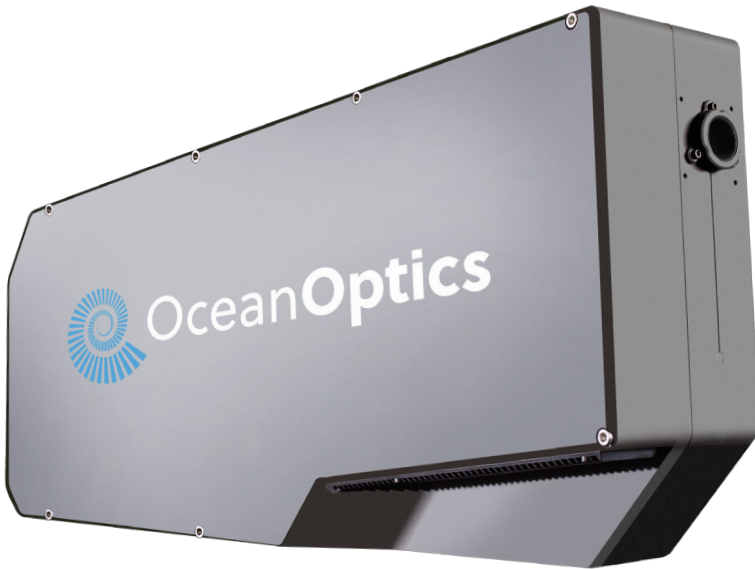
SpeedSorter ™

The SpeedSorter LIBS Optical Sensor

High Speed In-Line Aluminum Sorting

Fast, automated sorting
of melt-ready aluminum

Lowers energy costs
through efficient processing

Increases smelter turns
for faster throughput

Delivers consistent chemistry
for high-quality output

Base Elements	Al, Mg
Alloying Elements	Al, Fe, Mg, Mn, Si, Pb, Cr, Ni, Cu, Zn
Laser	Class 4, Class 3R for alignment
Spectrometer	High resolution, thermally controlled
Working distance	250 +/- 5 mm measured from front face of module
Divert Signal Output	24V, 0.5A max (can be configured for other signals)
Communication	TCP / IP over ethernet
Communication Protocol	See "SpeedSorter Software Protocol Document"
Control Software	Client-side GUI, controls for setting recipes, viewing element ratios, number of pieces sensed / diverted, processed spectra, laser status, system temps, error and fault messages, saving data. Change multiple modules in Tabs, certain operations performed globally.
I/O (24VDC)	Divert, Laser ON, Remote Interlock, Sync IN, Fan ON
Power	24VDC 600W (Din rail mount power supply included)
Laser Safety	Manual E-stop, remote interlock, system status LEDs
Ventilation Requirements	150 CFM per module clean filtered air
Ambient Operating Conditions	5°C to 30°C non-condensing 25%-85% RH
Storage Conditions	-10° to 65°C non-condensing 25%-85% RH
Weight/Dimensions	60lbs (27.2kg); 90cm x 12cm x 30cm (35cm with back handle)

To learn more, email us at
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