

OPTICAL SORTING TECHNOLOGY

GREEN MACHINE[®]

LATEST HYPERSPECTRAL VISION SYSTEM

Patented Green Eye[®] Optical Sorters are built with state-of-the-art hyperspectral vision systems and AI driven neural net software entirely designed, fabricated, and programmed in house.



GREEN EYE[®] ADVANTAGES



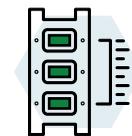
Patented hyperspectral vision system collects 3D data across a wider wavelength range at higher resolutions compared to NIR.



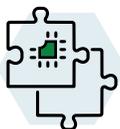
Stabilization air-knife and overhead fan systems accelerates material up to speed, reducing material movement and increasing pick accuracy.



Static vision camera system collects data full width of belt in real-time with no moving parts.



Individual solenoid driven air ejection nozzles available in 1/4" centers providing 1" minus sortation.



Multiple operation modes to switch between sorting different materials and material grades.



Built-in belt speed encoder allows for fine-tuned speed adjustments to discover "sweet spot" for total system throughputs.

GREEN EYE[®]

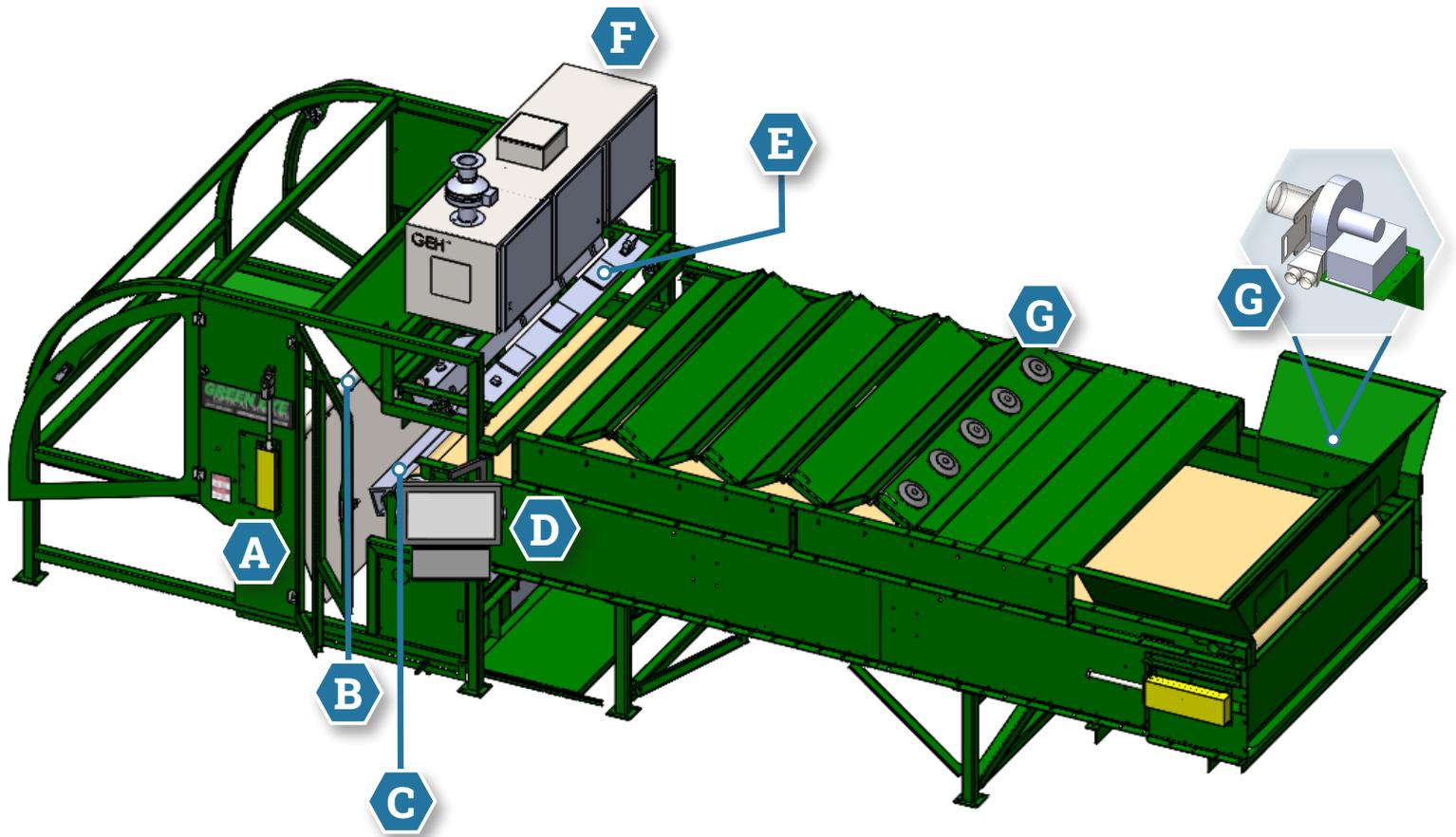
OPTICAL SORTERS[®]

CONTACT GREEN MACHINE TODAY

☎ (800)-639-6306 ext. 2 (sales)

✉ sales@greenmachine.com

🌐 www.greenmachine.com



	KEY FEATURES (Shown Above)	BENEFITS
A	Ergonomically designed maintenance access door and stow-able platform.	Easy access to light bar, air bar, and diverter roller.
B	Adjustable diverter roller.	Prevents jam-ups and automatically moves according to material selection mode.
C	Air bar with high speed individually actuated valves at 1/4" - 1/2" spacing.	Precise material ejection down to 1/2" sizes.
D	Touch screen computer system access.	Switch easily between material modes, training, and system diagnostics.
E	Light bar source with automatic adjustable halogens.	Maintains stable light intensity to keep data consistent and maintain pick accuracy.
F	Solid state climate controlled optical sensor cabinet.	Reliable temperature controlled environment to keep camera system operating optimally.
G	Material advancement air knife & overhead blowers with sliding conveyor belt.	Prevents material from rolling.

GREEN EYE® SPECIFICATIONS

THROUGHPUT RATINGS	
96" Wide	Fibers: 7-9 TPH Containers: 10-12 TPH Wood Waste: 9 TPH
84" Wide	Fibers: 6-8 TPH Containers: 8-10 TPH Wood Waste: 9 TPH
60" Wide	Containers: 5-7 TPH

DRIVE SPECIFICATIONS	
Accelerator Conveyor	10 HP TEFC Energy Efficient Motor
Material Advancement Air Knife	3 HP TEFC Energy Efficient Motor
Diverter Roller	1 HP TEFC Energy Efficient Motor

GREEN EYE® APPLICATIONS

COMMODITIES	
Plastics	1-7 grades of plastic including difficult to sort black plastics, barrier bottles, #5's, PVC's Vinyls, Thermal Forms, and more.
Fiber	All marketable fiber grades including Chine #58 grade, hard mix, residential grades, OCC, box-board, aseptic cartons and more.
C&D	All wood grades, separating clean from contaminated, rubber, asphalt shingles, industrial plastics, PVC's, fibers, textiles and more.
E-Waste	Circuit boards, and ABS plastics.
Auto Fluff	Sorts most plastic grades, black plastics, rubber grades, HDPE, LDPE ABS plastics.
Textiles	All grades of cloth materials including lycra, cotton, wool, polyester sorted individually or collectively.
Carpeting	Able to identify and positively sort #66 carpet pile and less desirable carpet grades and backings.



GREEN MACHINE®

INCREASE YOUR SYSTEM'S EFFICIENCY WITH GREEN EYE

Operate at speeds over 900 FPM, simultaneously sorting desired or undesired items at a 95% or better accuracy rate, and 90% collection rate. Let us help you eliminate the need for manual post-sorting and improve your ability to bale and sell to stringent buyers. If you're looking to build new, retrofit, or just add automation to your pre-existing system, we can help!



SCAN TO WATCH
OUR GREEN EYE IN ACTION!



GREEN EYE
OPTICAL SORTERS®

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