

Green Team Product Contract

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Product Description: Machine to sort lentils from rocks/chaff.

Intended Customers: Small to medium lentil farmers.

Market: Farming machinery.

Customer Need	Product Attribute(s)	Engineering Specification(s)
20% of a season's crop must be processed within 5 days of harvest	Can sort lentils at a high enough rate to be profitable	Total machine throughput of 30lb/min
Machine output can be legally and safely sold directly to lentil consumers	Can clean lentils to food quality	Machine output must be 99.0% lentils by mass
Is affordable	Price	Retail price under \$1000
Does not require constant supervision	Automation of all feeding, cleaning, and transition steps	Inputs/outputs of all series steps must match, robust queuing/buffer systems between steps
Can be cleaned easily	Easy access to all surfaces for manual cleaning	Minimum 6" clearance between meshes and other sorting surfaces
Is durable, has adequate lifetime	Design all components for 9 year minimum lifetime (3X expected payback period)	Galvanized steel or aluminum construction, robust dynamic components
Contains all material	No lentils, chaff, or stones will escape from the system	Containment barriers or bins at all stages of the system