KEY TECHNOLOGY
A DURAVANT COMPANY

Rotary Size Grader

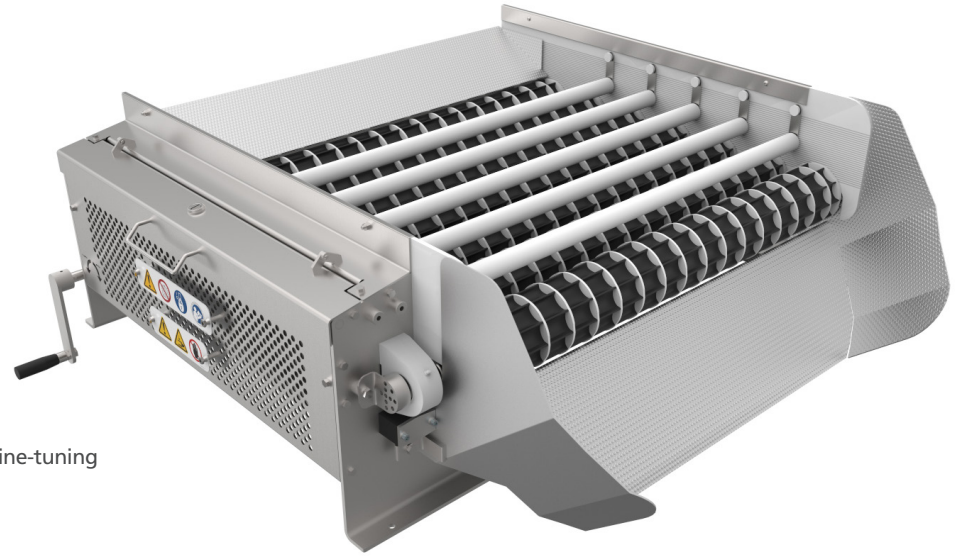
The Rotary Size Grader (RSG) removes short pieces, nubbins, loose seeds, and snipped ends of vegetables while conveying good product to downstream equipment.

The rotary bed consists of a series of pocket rollers, each with a stainless steel shaft and specific combinations of rubber rollers and plastic disks that create the pockets. As the pocket rollers rotate, target-size product settles in the pockets and passes through the bed to be discharged under the machine. Good product is conveyed to the end of the machine. The roller speed progressively increases along the length of the machine. This ensures the product is spread into a single layer allowing for each piece of product to be sized accurately between the rollers.

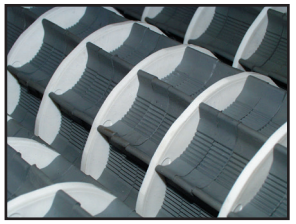
The RSG is ideal for small to medium-size product to be classified by length or volume. It is used for full line flow sorting or regrading. Specifically it is used for full line flow directly from automatic defect removal systems such as Key Technology's ADR® line for french fries. It has also been recently implemented as an integral part of Key Technology's VERYX® system for sorting pre-snipped green beans.

Benefits

- Precise Sizing
  - "Stirring" action of the rotary bed moves target-size product into sizing pockets
  - Successful option to vibratory graders
  - Up to 95% efficiency or better removal of defects
  - Consistent sizing and absolute control
  - Customer selects target size parameters
- Easy Adjustment
  - Simple on-the-fly adjustment for rapid fine-tuning
- Low Maintenance, Operation, and Installation Costs
  - Compact: efficient use of plant space
  - Transmits little vibration: simple, inexpensive installation
  - Low energy consumption
  - Easy access to bearings, chain, sprockets and adjustment system, simply open the hinged access cover



Hinged Access Panel



RSG Sizing Pockets

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Typical Applications

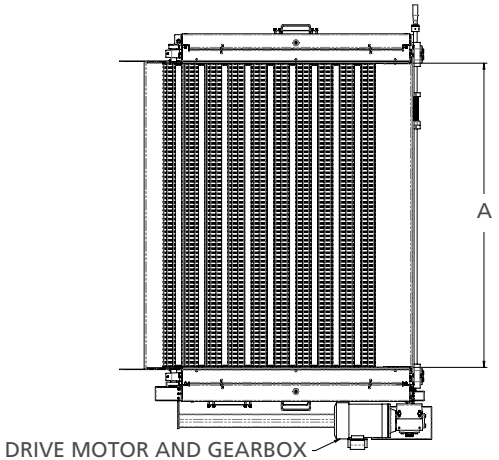
- Length grading and short piece removal from processed vegetables such as green beans, edamame, potato and onion strips.
- Small piece and plant, vine, and leaf removal from whole unsnipped green beans.
- Knuckle and broken piece removal from whole snipped or cut green beans.

Specifications and Information

- Capacity: Varies with product and requirements
  - Current applications up to 30,000 lb/hr (13,600 kg/hr)
- Efficiency: 95% or better
- Style: Platform model.
  - Legs, stands, chutes, hoppers, etc., not included
- Construction: Stainless steel, food grade
- Motor/Gearbox: 1 hp (0.75 kW)

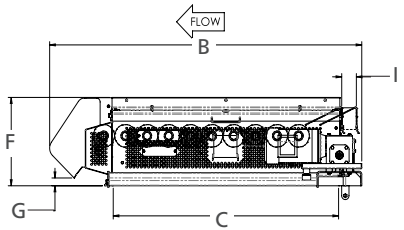
Dimensions

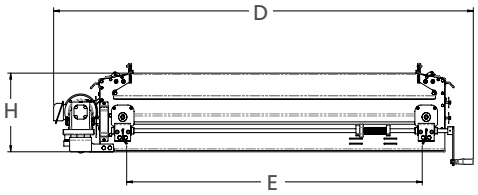
Model	Typical Roll Gap Range	Grading Width "A"		Overall Length "B"		Product Dropout Length "C"		Overall Width "D"		Product Dropout Width "E"	
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
RSG2	1/10" to 5/8" (2.5 to 16mm)	24	610	49-5/8	1260	31	787	51-1/8	1298	25-5/8	651
RSG2.5		30	762					57-1/8	1452	31-5/8	804
RSG3		36	916					63-1/8	1604	37-5/8	956
RSG4		48	1218					75-1/8	1908	49-5/8	1261
RSG5		59	1499					86-1/8	2187	60-5/8	1540.5
RSG210	1/10" to 3/8" (2.5 to 9.5mm)	24	610	61-7/8	1571	46-1/4	1175	51-1/8	1298	25-5/8	651
RSG410		48	1218					75-1/8	1908	49-5/8	1261
RSG510		59	1499					86-1/8	2187	60-5/8	1540.5
RSG6.610		79	2007					106-1/8	2696	80-5/8	2048.5
RSG514	1/10" to 3/8" (2.5 to 9.5mm)	59	1499	86-7/8	2205	66-3/16	1681	86-1/8	2187	60-5/8	1540.5



Common Dimensions

Overall Height "F"	17-1/8"	434.2mm
Discharge Height "G"	1-1/2"	38.5mm
Infeed Height "H"	15-1/4"	386.6mm
Infeed Shear Travel "I"	3"	76.2mm





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