

CARTER DAY

MODULAR PRECISION SIZER

12 24



WORLDWIDE REPRESENTATION

CARTER DAY

MODULAR PRECISION SIZER

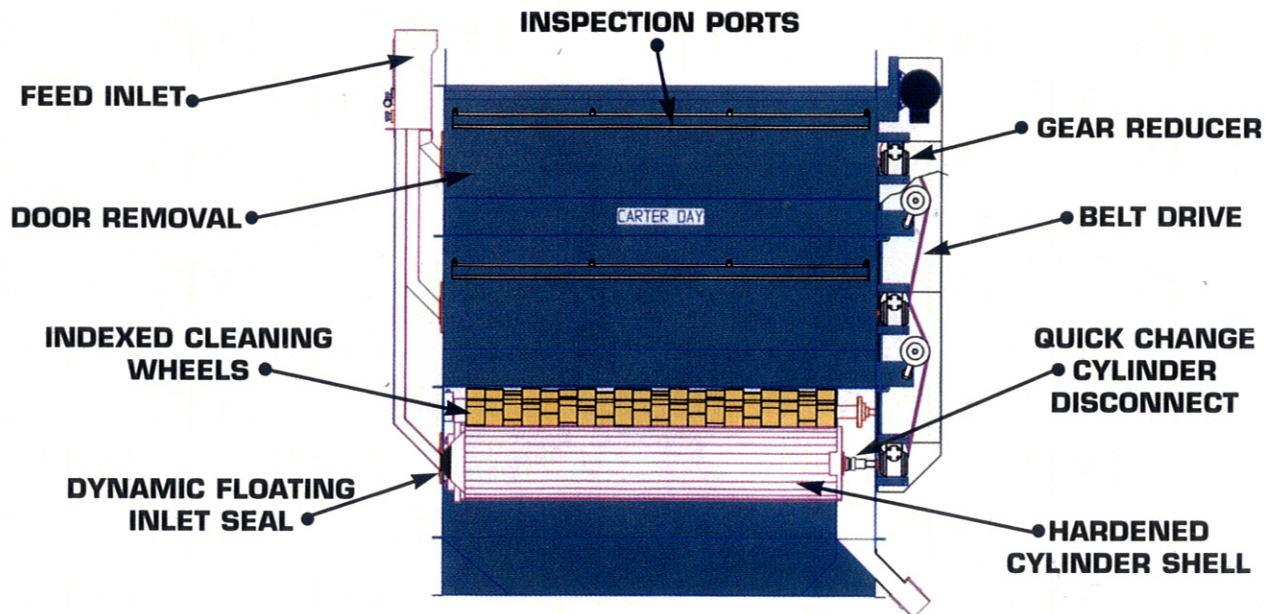
Carter Day has been manufacturing quality processing equipment for over 100 years. We continue this tradition of quality equipment with the Modular Precision Sizer.

The Carter Day Modular Precision Sizers have the performance efficiencies and capacities for virtually any sizing/separating requirement for seed corn, sunflower, barley, wheat, oats, rice, shelled peanuts, soybean, and most other free flowing granular material. The Modular Precision Sizers utilize four different styles of sizing cylinders with over 125 different size apertures.

Our Precision Sizers can be purchased in either 12" or 24" diameter cylinder models. Each model offers the same drive system and features. The 24" model offers twice the capacity of the 12" with a smaller footprint than two comparable 12" units, and is dimensioned to conveniently fit in cargo containers. Both the 12" and 24" cylinders offer easy change out, the 12" is one-piece light weight shell and the 24" a manageable three piece unit.

Modular design allows reconfiguration in the field if processing needs change. We have the ability to stack both our 12" Cylinders and 24" Cylinders to a 3 units high and 2 wide.

As the product enters the cylinders, the rotating action presents the material in the most efficient manner to the close tolerance perforations to provide a precise separation. Each cylinder has patented indexed cleaning wheels located at the top of the cylinder where near sized material is gently pushed back into the cylinder without damaging the grain.



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MODULAR PRECISION SIZER

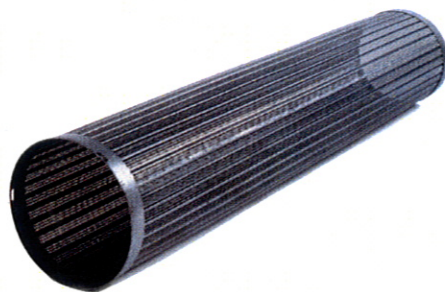
This design reflects our decades of experience manufacturing and selling precision sizers. And Carter Day's worldwide sales representation assures you of service after the sale.

MODULAR PRECISION SIZER

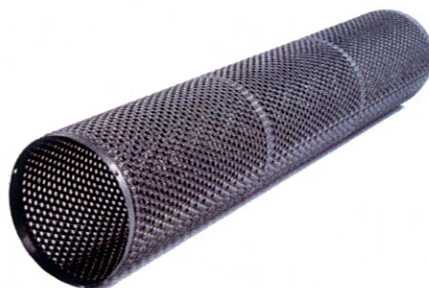
CYLINDER CONFIGURATION

The Modular Precision Sizer can utilize all types and sizes of cylinder openings for a wide range of applications.

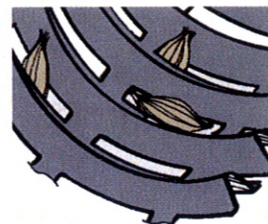
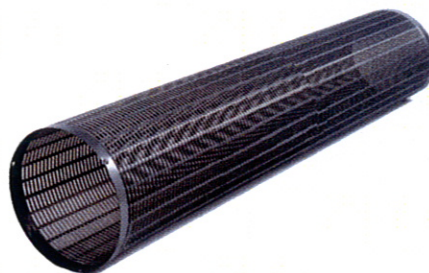
ROUND RIBBED - These cylinders are designed with ribs that run the length of the cylinder between each of several rows of round perforations. These ribs provide gentle agitation that upends the material for proper presentation to the perforations. The round perforations are available in sizes from 3/64 inch (1.2mm) in diameter to 12.5/64 inch (5mm) in diameter. Best for separating small particles by width.



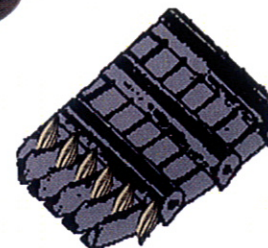
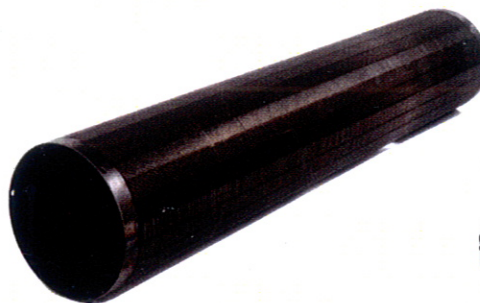
FUNLSIZER® This cylinder is the latest in technological design. The perforations are funnel shaped round holes. The funnel design upends the grain directly into the hole and either allows passage through the hole or rejects the grain and passes it down the cylinder. The funnel style holes are available from 14/64 inch (5.6mm) to 24.5/64 inch (9.7mm) in diameter. Best for separating large particles by width.



SLOTTED CYLINDER - This cylinder design has rectangular slot perforations with indented grooves. Slot perforations are available in sizes from 2.5/64 inch (1mm) wide to 36/64 inch (14.3mm) wide. Best for separating particles by thickness with close tolerances.

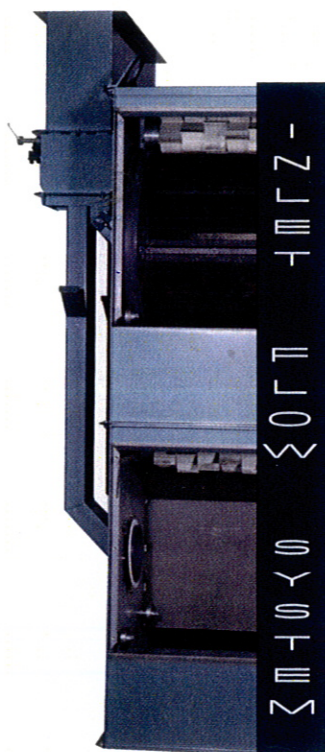
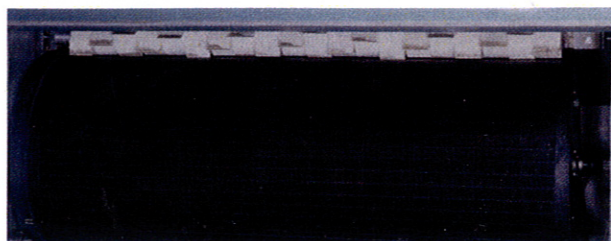


TRI-BAR - The Carter Day Tri-Bar slotted cylinder can double the cylinder capacity depending on slot width. The Tri-Bar operates by using a triangular shaped wire, instead of punched slots, producing more open area. Rigid construction maintains opening tolerance longer. Slot widths are available in sizes from 2.5/64 inch (1mm) wide to 36/64 inch (14.3mm) wide. Best for separating particles by thickness with high capacity.



THE CARTER DAY ADVANTAGE

The patented Molded Elastomer Indexed Cleaning Wheels provide an offset sequential contact area on the cylinder for quieter and smoother operation.



THE PRODUCT INLET FLOW SYSTEM is fabricated of heavy tubular spouting providing an increased degree of calibration at the feed inlet. A floating dynamic inlet seal prevents leakage as the product enters the cylinder.

High Capacity Vibrating Conveyor utilizes a spring steel flexure design for reduced maintenance. The new design allows the discharge point to be easily reversed in the field.



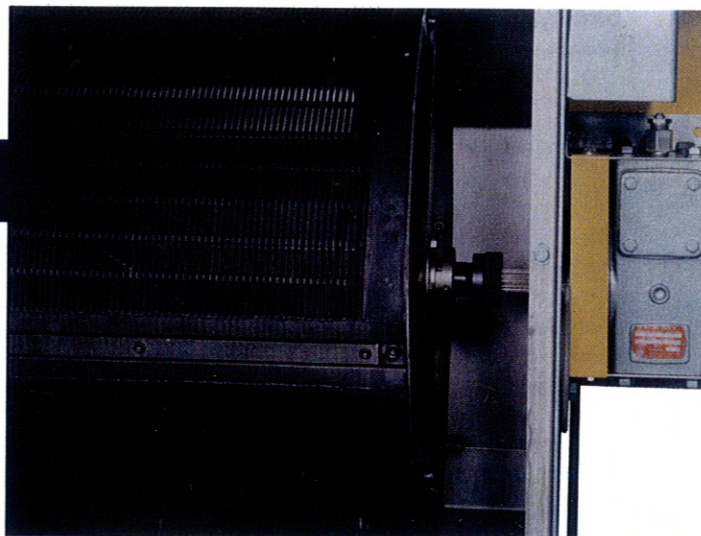
THE CARTER DAY ADVANTAGE

The Modular Precision Sizer drive system eliminates the use of chains & sprockets and uses a single v-belt drive between each module. By placing a reducer at each cylinder, the belt drive is optimized for both speed & tension for a smoother, quieter & more reliable system. The Precision Sizer comes with a manually adjustable speed range to meet your sizing requirements.



QUICK CHANGE CYLINDER DESIGN provides ease of cylinder removal for product change-overs and cylinder replacement. The quick lock collet cylinder coupling provides a fast yet positive connection to the cylinder drive.

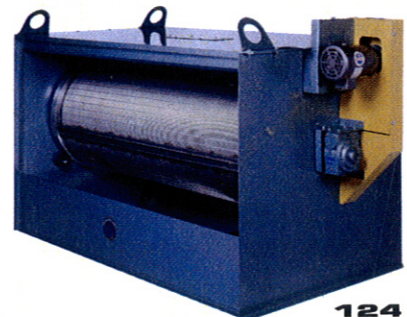
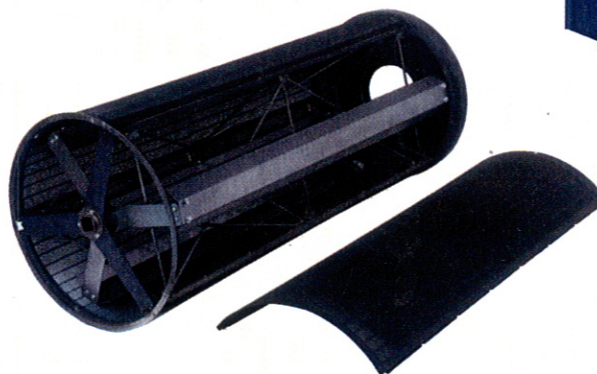
CYLINDER HUB
CONNECTION



CARTER DAY

24" PRECISION SIZER SEGMENTED CYLINDER

The 24" cylinder design offers Melonite Hardened Patented Segmented Screen Design which provides unique structural integrity and the ease of screen configuration in the field.



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SIZER

MODULAR PRECISION SIZER AVERAGE CAPACITY PER CYLINDER

PRODUCT	12" CYLINDER	5% THRUS Bu/HR - KG/HR	50% THRUS Bu/HR - KG/HR	95% THRUS Bu/HR - KG/HR
CORN	Round, Funlizer®	45 - 1142	75 - 1904	88 - 2234
	Large Slot	25 - 635	40 - 1015	57 - 1447
BARLEY	Small Slot	30 - 653	35 - 762	60 - 1306
WHITE RICE	Small Slot	20 - 590	N / A	40 - 1179
WHEAT	Small Slot	40 - 1088	N / A	80 - 2200

PRODUCT	24" CYLINDER	5% THRUS Bu/HR - KG/HR	50% THRUS Bu/HR - KG/HR	95% THRUS Bu/HR - KG/HR
CORN	Round, Funlizer®	90 - 2285	150 - 3809	176 - 4469
	Large Slot	50 - 1270	80 - 2031	114 - 2895
BARLEY	Small Slot	60 - 1306	70 - 1524	120 - 2612
WHITE RICE	Small Slot	40 - 1179	N / A	80 - 2358
WHEAT	Small Slot	80 - 2176	N / A	160 - 4400

MODEL	Height	Length	Width	Weight	Motor Requirement
Precision Sizer 112	31"	91"	26"	500lbs.	1/2 H.P.
Precision Sizer 212	45"	91"	33"	800lbs.	3/4 H.P.
Precision Sizer 412	70"	93"	33"	1460lbs.	1.5 H.P.
Precision Sizer 612	94"	96"	33"	1900lbs.	3 H.P.
Precision Sizer 124	49"	92"	42"	800lbs.	3/4 H.P.
Precision Sizer 224	67"	97"	59"	1500lbs.	2 H.P.
Precision Sizer 424	110"	100"	59"	3300lbs.	5 H.P.
Precision Sizer 624	152"	106"	59"	5100lbs.	7.5 H.P.

Complete laboratory service is at your disposal. **Carter Day's** facility enables us to test your unique product sample in laboratory or full size equipment to aid in determining the right machine for your application. We invite you to participate in tests conducted at our facility in Minneapolis, Minnesota, USA.

