We manufacture equipment that sizes and separates the good, bad, and ugly in products ranging from harvested grain to M&M’s® to plastic pellets. After one hundred years in business the world has accumulated a substantial installed base of Carter Day equipment. As a testament to our products’ functionality and our parts support, many of these machines keep running and running and running.

Our continuing success comes from the design/build of innovative, low maintenance machines, best evidenced today by a dozen patents in force and our no quibble two year warranty. When it comes to selling, most capital goods manufacturers will give away applications advice; we’re no exception. However, we distinguish ourselves from competition by offering clear-cut performance representations with every machine we sell. We mitigate the resulting business risk by knowing your industry and basing our claims on field experience and lab tests.

Over the years we have standardized our product elements in the interest of quality and cost control. Still, modular construction and numerous feature choices allow us to configure a machine to your particular order. If that’s not enough, we have the resources (in every respect) to respond to your extraordinary sizing and separating challenge.
The Carter Day facility is number one in our industry. We perform machining, full metal construction and machine assembly under one roof to provide our customers with the highest of quality and efficiency in machine manufacturing.

Complete laboratory service is at your disposal. Carter Day's facility built in 1990 enables us to test your unique product sample in laboratory and full size equipment to aid in determining the right machine for your application. In addition demonstrate our unique machines designs so you can see first hand why Carter Day is the leader in seed corn processing equipment world wide.
# Seed Corn Program

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Carter Day has a wealth of knowledge in seed Corn processing. We are willing to provide you with a process flow diagram of our equipment on all potential projects. We only ask that you supply us with the Incoming product composition and your desired Outgoing product separations.
We introduced our 24" Modular Scalperator in 1990. It is a major technological advance over our previous design in both feeding and aspiration.

The Scalperator primary purpose in the seed corn industry is to remove cob and fines after the shellers.

The Scalperator is the preferred machine for pre-cleaning because it offers efficient large impurity removal and aspiration which the optional scalpings deck on the shellers cannot provide.

Molded urethane feed roll accurately controls the process feed rate and provides a positive shut-off.

HTD drive provides increased reliability and decreased downtime with minimal adjustment and maintenance.

Rock plate ensures high capacity scalping performance and minimizes rock and other particulate buildup behind the scalping reel.

Operator friendly machine controls

Performance-engineered aspiration chamber and flow-modulated air lock valves provide consistent cleaning of the product.

Self contained closed circuit option

<table>
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<tr>
<th>CAPACITY</th>
<th>24X28</th>
<th>24X56</th>
<th>24X84</th>
<th>24X112</th>
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<tbody>
<tr>
<td>Corn BU/MT</td>
<td>1700/43.1</td>
<td>3400/86.4</td>
<td>5100/129.6</td>
<td>6800/172.8</td>
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</table>
We introduced Air Screen Cleaner Line in 1993. It is a major technological advance over our previous Screen Machine line and offers our customers an American engineered screen machine.

The Air Screen Cleaner is used prior to the grading tower to remove large and small materials as well as aspirate fines.

The Air Screen Cleaner Line encompasses many attributes of the European designs while offering a refined drive system which offers limited maintenance and down time.

Our External HTD Drive system provides reliability and easy belt changes without removing the eccentric shaft not found in similar European designs. In addition our Double Spherical Roller Bearings ensure low maintenance and superior quality over other U.S Manufacturers.

Our inlet aspiration with velocity and volume controls allows fine adjustment for the removal of incoming foreign material. While our Full width air discharge screen with adjustable hood provides a very efficient air wash for the cleaned seed.
We introduced our Modular Precision Sizer in 1993. It is a major technological advance over our previous and often imitated design.

The Precision Sizer is the width and thickness grader which makes up the bulk of equipment in the tower.

Our Modular Precision Sizer Design is preferred by the leading processors of seed corn worldwide.

The Modular Precision Sizer drive system eliminates multiple use of belts and pulleys by using a single v-belt drive between each module.

Adjustable Speed Range to meet your sizing requirements.

Patented Molded Elastomer Indexed Cleaning Wheels Provide:
Offset sequential cylinder contact Quieter and Smoother Operation
2-3 times longer life than other designs
Quick Clean-Out Feature for Seed Change-Overs

Positive Clean-Out
No Moving Parts
Quick Lock Doors
Clean-Out

EXCLUSIVE PRODUCT INLET FLOW SYSTEM:
Gravity Feeder Providing Equal Cylinder Flow
Heavy Gauge Tubular Spouting
Positive Cylinder Seal

Quick Change Cylinder
Positive Cylinder Hub Connection:
Reliable Collet Design
Cylinder Removal without Drive Manipulation
Carter Day is the pioneer in making shells with over ___ varieties and sizes. We have been manufacturing width and grading shells for over 60 years. We sell our shells to over 50 countries and 6 different industries. Carter Day shells have been imitated but these imitations have never offered the same quality and consistency as Carter Day.

12” Perforated Slot and Funnel Shells:
Specially Hardened Shells for long life
Largest Number of Sizes available world wide
Maximum number of holes for high capacity and efficiency
Spiraled Hole Configuration for High Capacity and cleanout
Retrofittable in all Carter Day Precision Sizers and Copies
Split shells to offer 2 separations in one pass
Urethane Receiving and Discharge Heads
We offer a large variety of clean-out options for both our new equipment and old style equipment. These options are easily retro-fit to our existing machines.

In addition we offer many upgrade kits for old style Carter Day sizers to make machine operation easier.

Modular Precision Sizer Automated Clean-Out Roller System - System is operated by 2 air cylinders in straight line action manipulating all

Modular Precision Sizer Manual Clean-Out Roller System - System is operated by push arm in straight line action manipulating all cylinders

Precision Sizer Hinged Door with Clean Out slot and Roller Tool

Precision Sizer Wiper Blade Conversion Kit

Additional Upgrades:
Belt Drive Conversions
Hinged Door Conversions
Quick Change Cylinder Conversions
We introduced our Precision Grader line in 1950. This line of equipment uses the same shells as our current design but uses our 1980 version. We offer this machine today to provide our customers with an economic solution without substituting on the quality of separation.

The Precision Sizer is the width and thickness grader which makes up the bulk of equipment in the tower.

The Precision Grader design was the preferred design for Seed Corn Processors all over the world for over 50 years. This design has been copied been never imitated.
We introduced our No.3SI Uni-flow in 1997. It is a major technological advance over our previous designs in flow arrangements and body design.

The No.3SI is the length grader machine used in markets where the seed shows a large variance in length.

Our Modular Uni Flow design provides a revolutionary drive system which is unmatched in the industry.

Variable HTD Drive system provides single cylinder adjustability, reliability and ease of cylinder speed changes.

Unique product contact wear parts replacements which allows the ability to replace these parts without complete machine tear downs.

Unique Product flow system: 1) High Capacity Inlet 2) High Capacity Auger 3) Adjustable Retarder 4) Easily adjustable lifting troughs with product lifting observation 5) External Quick change spouting 6) On-site flow arrangements change capabilities

Patented Segmented Cylinders providing quick cylinder removal for clean-out and cylinder replacement

Multiple flow arrangements to satisfy flow needs while still using our standard single patented drive system.
We introduced our Modular Uni-flow in 1991. It is a major technological advance over our previous designs in drive, flow arrangements and body design.

The Modular Uni-flow is the length grader machine used in markets where the seed shows a large variance in length.

Our Modular Uni Flow design provides a revolutionary drive system which is unmatched in the industry.

Patented Single Motor Drive System which offers a gear drive, quick lock universal coupling and HTD cylinder drive.

Unique product contact wear parts replacements which allows the ability to replace these parts without complete machine tear downs.

Unique Product flow system: 1) High Capacity Inlet 2) High Capacity Auger 3) Adjustable Retarder 4) Easily adjustable lifting troughs with product lifting observation 5) External Quick change spouting 6) On-site flow arrangements change capabilities

Patented Segmented Cylinders providing quick cylinder removal for clean-out and cylinder replacement

Multiple flow arrangements to satisfy flow needs while still using our standard single patented drive system.
Carter Day is the pioneer in making Indented cylinder shells with over 25 sizes. We have been manufacturing length grading shells for over 70 years.

We sell our shells to over 50 countries and 6 different industries.

Our shells have been imitated but these imitations have never offered the same quality and consistency as Carter Day.

Our major advancement in the Cylinder market is our New Patented Segmented Cylinder.

17” Diameter Uni-Flow Cylinders:
Specially Hardened Cylinders for long life
Largest Number of Sizes available world wide

Most pockets per-square foot for maximum capacity and efficiency having 35% more pockets per square foot than our competitors

New Patented Segmented Cylinder Design for quick cylinder removal
Retrofittable solid and segmented cylinders for Uni-flow machines
We introduced our No. 3 line in 1956. This line of equipment uses the same cylinders as our current design but uses our 2001 version. We offer this machine today to provide our customers with an economic solution without substituting on the quality of separation.

The No 3 Uniflow is the length grader machine used in markets where the seed shows a large variance in length.

The No 3 was the preferred design for Seed Corn Processors all over the world for over 50 years. This design has been copied been never imitated.
We introduced our Modular VDMC Aspirator in 1993. It is a major technological advance over our previous design in aspiration control.

The VDMC Aspirator is used prior to bagging the seed corn to remove any fines.

The VDMC Aspirator is the preferred machine over the competition because of its cascading product flow which open the flow to greater aspiration and the ability to control the air velocity at each air pass.

- PERFORMANCE ENGINEERED
  - 6 PASS ASPIRATION COLUMN
- REMOVABLE COLUMN PANELS FOR EASY CLEAN DOWN
- INDIVIDUALLY METERED
  - AIR INLET VELOCITY CONTROL DAMPER
- AIR OUTLET VELOCITY CONTROL DAMPER
- VARIABLE SPEED DIRECT DRIVE URETHANE COATED FEED ROLL
- CONSTANT SPEED DIRECT DRIVE LIFTINGS AUGER
- REMOVABLE ACRYLIC OBSERVATION WINDOWS
Bulldog Size Tester

These Models of Carter Day Modular Uni-flow, Precision Sizer and Aspirator offer full-size components in a compact configuration. When coupled as a system or used individually they can serve a variety of useful applications such as:

- Demonstration of Full Scale Design Features
- Process Training
- Machine Training
- Applications Testing
- Performance Testing
- Small Lot Processing
Bulldog Model Tester Applications Arrangements

<table>
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<tr>
<th>Model</th>
<th>Applications Testing</th>
<th>Process Flow Training</th>
<th>Machine Training</th>
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<tbody>
<tr>
<td>Paddy Rice .2mt/hr</td>
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<tr>
<td>White Rice .3mt/hr</td>
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<td></td>
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<tr>
<td>Seed Corn .2mt/hr</td>
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<tr>
<td>Wheat .3mt/hr</td>
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<tr>
<th>Paddy Rice .2mt/hr</th>
<th>Length 60”/1.68m</th>
<th>Width 48”/1.34m</th>
<th>Height 126”/3.52m</th>
<th>Weight 1,000 lbs</th>
<th>Ex-Works Price PR=USD$16,000</th>
<th>Add Bucket Elevator USD$ 3,000</th>
<th>Add VFD Controls USD$ 5,000</th>
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<tbody>
<tr>
<td>White Rice .3mt/hr</td>
<td>Length 60”/1.68m</td>
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<td>Wheat .3mt/hr</td>
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CONTACT FACTORY FOR INDIVIDUAL MACHINE PRICING, Pricing valid until 12/31/99
LABORATORY TEST MODELS

The laboratory test models are small, accurate models of Carter Day's standard sizing, separating and cleaning machines.

Many seed, grain, food and feed producers and processors use these machines to calibrate their full production models thus minimizing downtime for adjustments. Agricultural universities use these machines to educate students in the importance of proper cleaning, sizing and separating of grains and seeds. Seed laboratories use them for quality control of their seed stocks and for preparing seed batches for tests. Plant breeding and flower seed installations use them for low volume separation requirements.

The most common usage of the laboratory machines is by our customers for pre-determining the type and size of discs and cylinders prior to full production processing. This practice assures accuracy, and eliminates reprocessing resulting in less product breakage, less downtime and less labor cost.

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**UNI-FLOW TEST MODEL**

Electric cylinder type machine for separating and sizing by length. The separations are done by cylinders with indented pockets. Cylinders are available with indented sizes for virtually all applications.

- **Weight:** 130 lbs,
- 60 kg.
- **Dimensions:** 20" x 27" x 32"
- 508mm x 686mm x 813mm

**DISC SEPARATOR TEST MODEL**

Hand operated disc machine for critical length sizing. Discs with indented pockets revolve throughout the product and pick up the shorter material that fits in the pockets. Discs are available with a variety of pocket sizes.

- **Weight:** 10 lbs,
- 4.5 kg.
- **Dimensions:** 7" x 12" x 16"
- 178mm x 305mm x 406mm

**DUO-ASPIRATOR TEST MODEL**

Electric, closed circuit, two stage aspirator for separations by weight. Model has variable speed feed roll and fan.

- **Weight:** 235 lbs,
- 108 kg.
- **Dimensions:** 18" x 39" x 38"
- 457mm x 991mm x 965mm

**FRACTIONATING ASPIRATOR TEST MODEL**

Electric, impeller type aspirator for separating grain of the same size but having different weights. Provides adjustable, four stage, high pressure air aspiration for complete cleaning and separation.

- **Weight:** 140 lbs,
- 64 kg.
- **Dimensions:** 17" x 31" x 35"
- 432mm x 787mm x 889mm

**PRECISION SIZER TEST MODEL**

Electric, rotating cylinder type machine for thickness, width and diameter separations. Numerous round and slotted cylinders are available.

- **Weight:** 155 lbs.
- 70 kg.
- **Dimensions:** 20" x 29" x 22"
- 508mm x 737mm x 559mm

**DOCKAGE TESTER**

Electric docking tester for accurate determination of the amount of foreign matter in grain within minutes. Built-in fan aspirates. The only dockage tester certified by the United States Department of Agriculture - Federal Government Inspection Service and the Canadian Grain Commission.

- **Weight:** 425 lbs.
- 193 kg.
- **Dimensions:** 46" x 36" x 57"
- 1178mm x 914mm x 145mm

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**CARTER DAY**

500 75th Ave. N.E. • Minneapolis, MN 55432
Tel: (612) 571-1000 • Fax: (612) 571-3012 • Telex: (20-1669) • Cable: CAMACO

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