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.
CARTER DAY
MANUFACTURING FACILITY

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 our laboratory and in full size equipment to aid in determining the right machine for your application. This also allows us to demonstrate our unique machine designs so you can see first hand why Carter Day is the leader in seed corn processing equipment world wide.
# Grain Cleaning Program

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- **PDF Code**
Carter Day has a wealth of knowledge in grain cleaning systems. 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. This model is a major technological advancement over our previous design in both feeding and aspiration.

The Scalperator’s primary purpose in grain cleaning is to remove rocks, straw and large materials obtained during transport and fines/dust removal.

The Scalperator is the preferred machine for pre-cleaning because it offers efficient large impurity removal and aspiration which a screen machine cannot provide on its own.

*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.
We introduced our 11” Modular Scalperator in 1990. The new model is a major technological advancement over our previous design in both feeding and aspiration.

The Scalperator’s primary purpose in grain cleaning is to remove rocks, straw and large materials obtained during transport and fines/dust removal.

The Scalperator is the preferred machine for pre-cleaning because it offers efficient large impurity removal and aspiration which a screen machine cannot provide on its own.

*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.
We introduced P515 Pre-Cleaner in 1995. The new model is a major technological advancement over our previous screen machine line and offers our customers an American engineered screen machine.

The P515 is used as a pre-cleaner prior to storage to remove stones, straw, weeds seeds/fines and dust.

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 which is required 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 allow 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 grain.
We introduced our New Rotary Fine Cleaner Line in 1992. The major change was the heavy duty single bearing drive system update. This machine's drive package will outperform many of its competition.

The Rotary Fine Cleaner is used as a high capacity cleaner after storage to remove stones, straw, weeds seeds/fines and dust.

We offer a variety of high capacity flows and a single shoe rotary to match your cleaning requirements.

- Aluminum extruded screen guides provide positive product seals
- Simple heavy duty single bearing reliable drive
- Screens are easily removable from either end of machine without the removal of ball racks
- Solid structural steel frame machine construction
We introduced the Air Screen Fine Cleaner Line in 1993. The new model is a major technological advancement over our previous screen machine line and offers our customers an American engineered screen machine.

The Air Screen Cleaner is used as a fine cleaner after storage to remove stones, straw, weeds seeds/fines and dust.

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 which is required 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 allow 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 grain.
We introduced our Modular Precision Sizer in 1993. The new model is a major technological advancement over our previous and often imitated design.

The Precision Sizer is the width and thickness grader in the grain processing system.

Our Modular Precision Sizer design is preferred by the leading processors of grain 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 Change-Overs

Modular Precision Sizer Doors
- POSITIVE CLEAN-OUT
- NO MOVING PARTS
- QUICK LOCK DOORS
- CLEAN-OUT PORT
- ROLLER TOOL
- QUICK LOCK TOOLS

Positive Cylinder Hub Connection:
- Reliable collet design
- Cylinder removal without drive manipulation

Exclusive Product Inlet Flow System:
- Gravity feeder providing equal cylinder flow
- Heavy gauge tubular spouting
- Positive cylinder seal
We introduced our 24" Modular Precision Sizer in 1995. It uses the technological advancements of our 12" unit, but the 24" cylinder offers a higher capacity per module.

The Precision Sizer is the width and thickness grader in the grain processing system.

Our Modular Precision Sizer design is preferred by the leading processors of grain 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
Carter Day is the pioneer in manufacturing shells with over 100 varieties and sizes. We have been manufacturing width and grading shells for over 60 years and sell our shells to companies in six different industries covering six different continents. Carter Day shells have been imitated but these imitations have never offered the same quality and consistency as Carter Day.

12” & 24” Perforated Slot and Funnel Shells:
■ Specially hardened shells for long life
■ Largest number of sizes available worldwide
■ 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 two separations in one pass
■ Urethane receiving and discharge heads
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 in the grain processing system.

The Precision Grader design was the preferred design for barley processors all over the world for over 50 years. This design has been imitated, but never successfully copied.
We introduced our New 550 Trommel Design in 1996. This design offered a new concept in trommel cylinder construction.

The Trommel is the high capacity thickness grader which is the sole grader of grain in the processing system.

Our Trommel is preferred by the leading processors of high capacity grain worldwide.

Patented Segmented Screen Design offers optimum structural integrity.

The modular design of the cylinder sections maintains structural integrity and fatigue resistance by using angle iron longitudinal stringers and rods for circumferential cross bracing.

DRIVE - depending on application; either a 5 or 7.5 hp motor (1800 rpm) with variable speed adjustment from 17 to 34 rpms.
We introduced our No.3SI Uni-flow in 1997. This model is a major technological advancement over our previous designs in flow arrangements and body design.

The No.3SI is the length grader machine used in a reclaim system to remove long or short material.

Our NO.3SI Uni Flow design provides a variable speed drive system which is unmatched in the industry.

The 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 provide quick cylinder removal for clean-out and cylinder replacement.

Multiple flow arrangements to satisfy flow needs.
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 the front end of many grain facilities. This machine is used to remove the wild oats, bearded barley and small seeds.

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 companies in six different industries covering six different continents.

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.3SI is the length grader machine used in a reclaim system to remove long or short material.

The No. 3 was the preferred design for grain processors all over the world for over 50 years. This design has been imitated, but never successfully copied.
We introduced our Combination Machine in 1999. This design offers length grading and width grading within one drive package.

The combination machine is used primarily as a grain re-claim machine to reclaim grains with various types of impurities in one pass.

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.
We introduced our Modular VDMC Aspirator in 1993. This model is a major technological advancement over our previous design in aspiration control.

The VDMC Aspirator is used prior to storage/shipping to remove any fines developed in processing.

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
We introduced our Duo Aspirator in 1997. This model is a major technological advancement over our previous design in aspiration control.

The Duo-Aspirator is used prior to reclaim to remove small weed seeds after thresher.

The Duo Aspirator is the preferred machine over the competition because of its gentle product flow. The push/pull air system offers an efficient air separation.
Grain Cleaning / Wheat Heads
Thresher

FOR THRESHING UN-THRESHED KERNELS
OF GRAIN (wheatheads)
These models of the 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
The Advantages of The Carter Day Bulldog Tester Models

Models of Full Scale Designs
Hands on demonstration of new full scale machine design features and benefits.
Provides the ability to simulate continuous product flow in a small package.

Process Flow Training
Offers the ability to train people on a continuous flow of product with minimal installation.

Hands on training of how changes in product flow and shell or cylinder changes effect the separations and techniques to manipulate those separations.

Machine Training
Training on Mechanical Operations
Training on Maintenance
Training on Shell and Cylinder removal

Applications Testing
Identifies the percentages of separation to determine the best cylinder size, shell size & CFM required for a full scale application.

Performance Testing
Pre-testing all new incoming product prior to full scale processing to pre-determine the percentages which may affect the operations in the full scale system.

Small Lot Processing
Low capacity continuous flow systems where length grading, width grading and aspiration are needed.

Specialty products with low volumes such as: spices, vegetable seeds, and marigolds.

Bulldog Model Tester Applications Arrangements

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<tr>
<th>Paddy Rice .2mt/hr</th>
<th>White Rice .3mt/hr</th>
<th>Seed Corn .2mt/hr</th>
<th>Wheat .3mt/hr</th>
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<tr>
<td>Length 60”/1.68m</td>
<td>Width 48”/1.34m</td>
<td>Height 126”/3.52m</td>
<td>Length 60”/1.68m</td>
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<td>WR=USD$16,000</td>
<td>SC=USD$16,500</td>
<td>W=USD$16,500</td>
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<tr>
<td>Add Bucket Elevator USD$ 3,000</td>
<td>USD$ 3,000</td>
<td>USD$ 3,000</td>
<td>USD$ 3,000</td>
</tr>
<tr>
<td>Add VFD Controls</td>
<td>USD$ 5,000</td>
<td>USD$ 5,000</td>
<td>USD$ 5,000</td>
</tr>
</tbody>
</table>

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.

**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 indent 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 rotate through 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.

- Dimensions: 18" x 30" 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 899mm

**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 dockage 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 1452mm

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