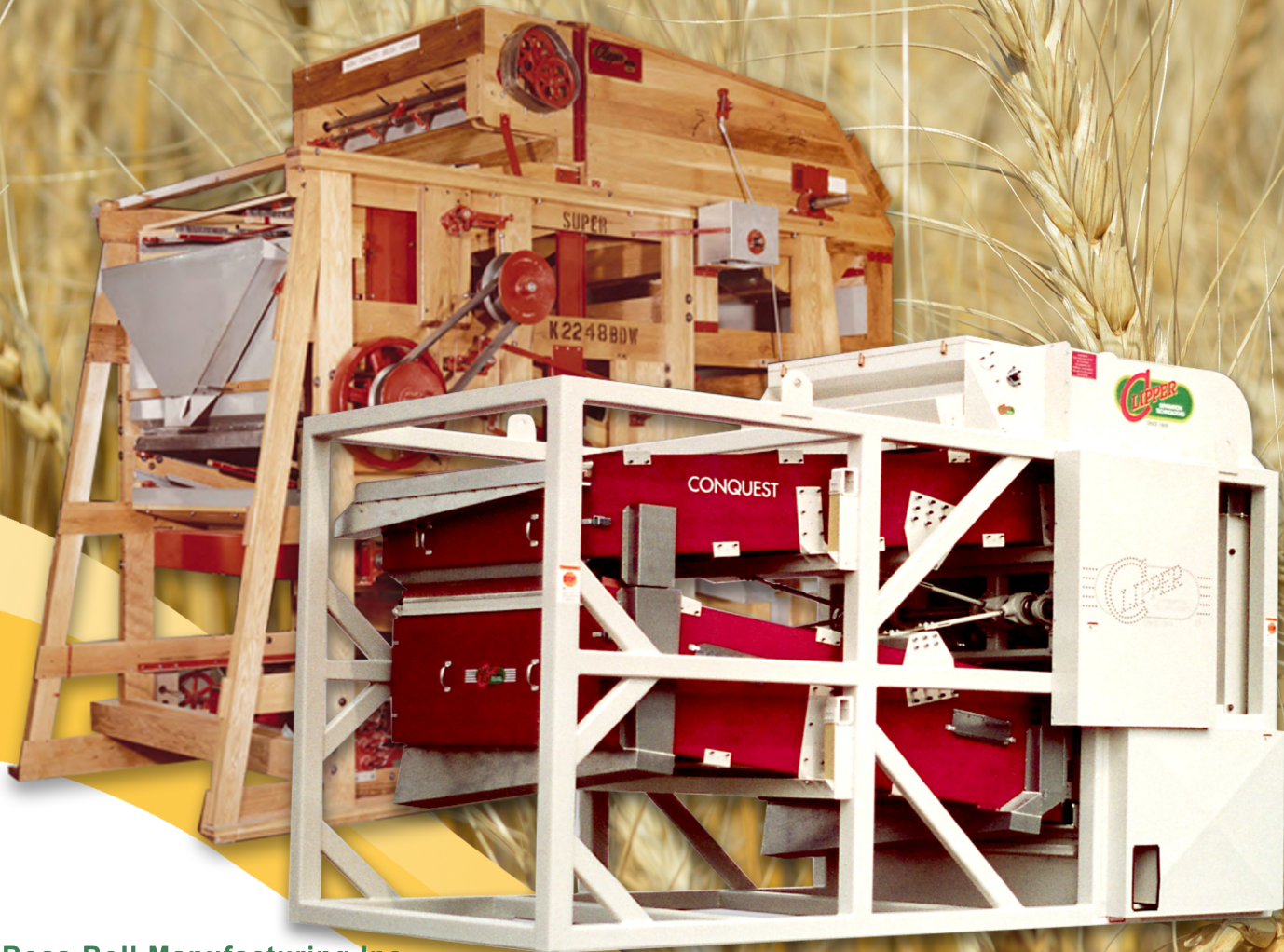


2014

Seed & Grain Equipment Catalog



Ferrell-Ross Roll Manufacturing Inc.
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Our history finds its roots with that of the A. T. Ferrell Company, manufacturer of the Clipper brand of Seed and Grain Cleaners founded in 1869 and that of the Ross Machine Company originally of Oklahoma City, manufacturer of Roller Mills and Flaking Mills founded in 1939, now a product of the A.T. Ferrell Company.

Ferrell-Ross Roll Manufacturing, Inc. founded in 2003 was formerly a division of the A.T. Ferrell Company known as the Ferrell-Ross Roll Service Operation located in Amarillo, Texas. We continue a close relationship in that we are dealers for many of the ATF products.

A good share of our sales and management staff are former ATF employees giving us an intimate knowledge of the products we sell. We are also dealers for equipment complimentary to Clipper Grain and Seed equipment such as Oliver Gravity Tables, Universal Elevator Legs, Premier Length Graders and others along with structural fabrications we manufacture in our Hereford, Texas plant allowing us to put together complete systems.

Best known for complete systems solutions, Ferrell-Ross Roll Manufacturing builds systems from products offered by other prominent Grain and Seed equipment manufacturers along with our own Flo-More equipment designs enabling us to offer systems solutions to the Feed, Grain and Seed Industries.

We manufacture Replacement Rolls for most Roller Mill and Flaking Mill makes and models used in Feed, Food and Industrial applications. We also manufacture the Flo-More® line of High-Efficiency Steam Chests, Rotary Grain Cleaners & Scalpers, High Capacity Drag Scalpers, Cyclones, Fabricated Steel Bins, Heavy-Duty Elevator Legs and other Conveyance Equipment.

Our “Customer First” approach to business supported by a large inventory of Spare Parts, a trained staff of Field Service Technicians, Millwright Equipment Installation Service, Roll Grinding & Corrugation Services and in-house Mill Machinery Rebuilding Services has made us the “Go to Company” in the industries we serve.

No matter if you need a new set of screens for your old wooden Clipper, Rolls for your Ross mill or a complete Seed Plant or Feed-Mill, we are here to serve you.

It is our hope you find this catalog informative and a useful reference.

Sincerely,

David C. Ibach Jr.

David C. Ibach Jr.

Chief Executive Officer

Ferrell-Ross Roll Manufacturing, Inc.



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Manufacturer of Quality Rolls for Feed, Food & Industrial Applications

Sales Department

Inside Sales



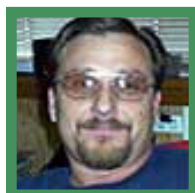
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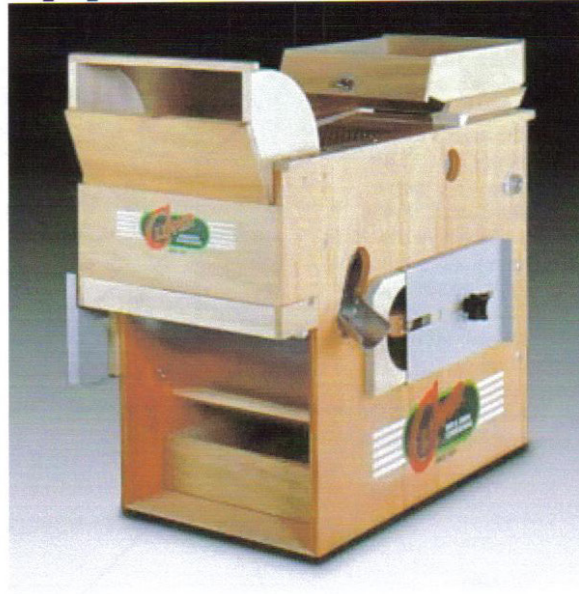


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Ferrell-Ross Roll Manufacturing Inc.
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Clipper Office Tester



- ◆ Accurate, dependable performance for small lot cleaning, testing, or sampling
- ◆ Tabletop design is small, yet accurate
- ◆ Compact and easy to move
- ◆ Used in seed plants for sampling large lots
- ◆ Popular with vegetable and flower growers and in seed stores for specialized cleaning, grading, and sizing
- ◆ Many laboratory uses
- ◆ Scalper and sifter screens are standard
- ◆ Shoe uses two 10" x 15" screens, one for the top and the other for the lower separation area
- ◆ Optional removable catchall performs as an air screening receptacle with removable tray
- ◆ Powerful bottom blast fan driven by a three-step pulley
- ◆ Adjustable slide on the air intake openings provide intermediate air regulation





AGM 224

The Clipper AGM 224 is a small cleaner designed to meet the low maintenance and easy cleanout requirements of today's seedsman. The 224 shoe has been designed with two 24-1/2" x 22-1/4" screens. One screen for the top and the other for lower separation. Over 175 different sizes of perforated metal or wire cloth screens are available. The commodity is fed into the hopper and is spread evenly across the full width of the top screen. The

product then moves across the top screen, which has openings larger than the product itself. The large foreign material is "scalped" off while the good product falls through the screen. The bottom screen is set up for sifting. The bottom screen openings must be smaller than the commodity being cleaned. Trash, weed seeds and splits drop through the bottom screen while the good product passes over it. Next, the product is routed through a column of air from the bottom blast fan. This blast of air effectively removes any lightweight trash and dust that may have remained after screening. Good clean product is discharged at the bottom of the air chamber.

Standard Features

- Inlet Feed Hopper
- Heavy Duty Eccentric Shaft And Drive
- Scotch-Ply Shoe Hangers
- 2 Screens 24-1/2" x 22-1/4" Flows included: scalp, sift
- Ball Tray Screen Cleaning
- Adjustable Bottom Air - Bottom Cleanout Air Door
- 3/4 Hp, 60 Hz, 1800 RPM, TEFC, 1 Phase 115/230 Volt Motor And Drive

Options

50 Hz 220 Volt Motor Package

Capacities

Commodity	Fast	
Clean	Precision Clean	
Soybeans, Wheat, Corn		*50
BPH	*30 BPH	
Rice, Oats		*40
BPH	*25 BPH	

* Note: capacities may vary depending on seed condition, moisture content, seed varieties, types, and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.

Electrical Requirements

3/4 Hp, 60 Hz, 1800 RPM, TEFC, 1 Phase 115/230 Volt Motor And Drive

Measurements

Overall Length: 54.000 in
Overall Width: 40.000 in
Overall Height: 65.000 in
Base Length: 54.000 in
Base Width: 38.000 in
Base Height: 65.000 in
Weight: 700.000 lbs





Eclipse Pacer 224

The Clipper Eclipse Pacer 224 is designed to combine the new technology of today's modern seed equipment with the requirements of the developing countries where electricity has not yet been provided. The Eclipse Pacer is built with the same care and craftsmanship as Clipper's larger precision cleaners.

Standard Features

- heavy-duty tubular steel frame
- 13-ply marine grade plywood shoe
- scotch ply hangers
- 1-1/2" heavy-duty drive shaft
manual bicycle pedal drive system.
- Same screen size (24-1/2" x 22-1/4") as older 2B and M2b models
- Ball Tray Screen Cleaning
- Adjustable Bottom Air - Bottom Cleanout Air Door
-
-

Options

- Over 150 screen sizes to choose from
- Electric 60 Hz and 50 Hz volt motor package for future updates
- 5 Bushel Surge Hopper
-

Capacities

Commodity		Fast
Clean	Precision Clean	
Soybeans, Wheat, Corn		*40
BPH	*20 BPH	
Rice, Oats		*20
BPH	*15 BPH	

Note: capacities may vary depending on seed condition, moisture content, seed varieties, types, and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.

Measurements

Overall Length: 56.290 in
Overall Width: 88.750 in
Overall Height: 83.750 in
Base Length: 50.000 in
Base Width: 74.000 in
Base Height: 86.750 in
Weight: 1100.000 lbs



The Clipper Eclipse 324



The Clipper Eclipse 324 is the first in a line of small cleaners designed to meet the low maintenance and easy cleanout requirements of today's seedsman. The Eclipse is built with the same care and craftsmanship as Clipper's larger precision cleaners.

The Clipper Eclipse 324 features a heavy-duty tubular steel frame, 13-ply marine grade plywood shoes, scotch ply hangers and a heavy-duty eccentric shoe drive.

Screens

The Eclipse 324 shoe has been designed with three 24 1/2" x 22 1/4" screens: one screen for the top and the other two for lower separation. Over 175 different sizes of perforated metal or wire cloth screens are available.

Eclipse 324 Commodity Flow The commodity is fed into the hopper and is spread evenly across the full width of the top screen.

The product then moves across the top screen, which has openings larger than the product itself. The large foreign material "scalped" off while the good product falls through the screen.

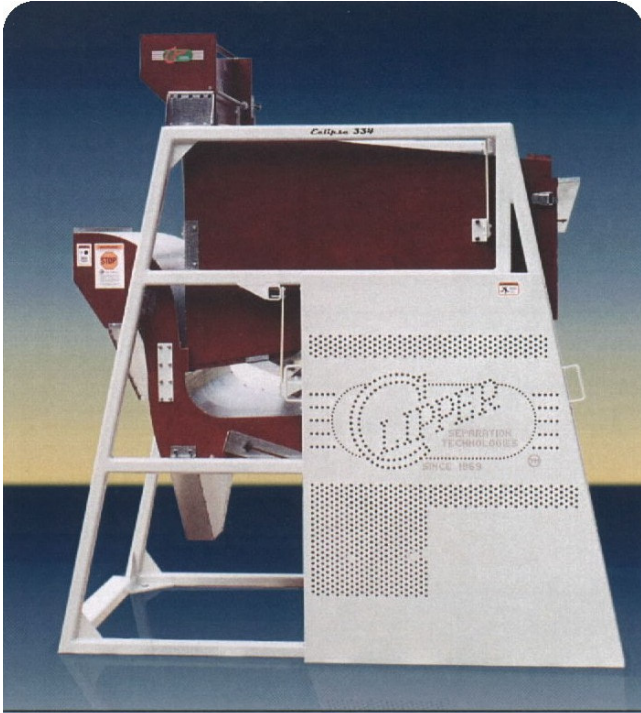
The bottom two screens are set up for spilt flow sifting. The bottom screen openings must be smaller than the commodity being cleaned. Trash, weed seeds and splits drop through the bottom screens while the good product passes over them. The bottom two screens can also be set up as a scalp/sift flow by removing the two-way splitter.

Next, the product is routed through a column of air from the bottom blast fan. This blast of air effectively removes any lightweight trash and dust that may have remained after screening.

Good clean product is discharged at the bottom of the air chamber.



The Clipper Eclipse 334



"Clipper" Eclipse 334

This compact 2 HP machine stands 85" tall, 53" wide and 77" long and weighs 1,835 lbs. Capable of market cleaning 250 bushels per hour and up to 120 bushels per hour for precision cleaning.

The Clipper Eclipse 334 is the second in a line of small to moderate sized cleaners designed to meet low maintenance and easy cleanout requirements of today's seedsman. The 334 is engineered to fill the need for a conveniently sized, versatile cleaner, and is designed to be portable or stationary. The Eclipse 334 utilizes ball trays for screen cleaning and an efficient air flow design for effective sizing and separation.

Next, the product is routed through a positive column of air from the bottom fan. The aspiration effectively removes any lightweight trash and dust that may have remained after screening.

Clipper offers over 150 different sizes of perforated metal or wire mesh material to accommodate virtually all agricultural commodities.

Screens & Commodity Flow

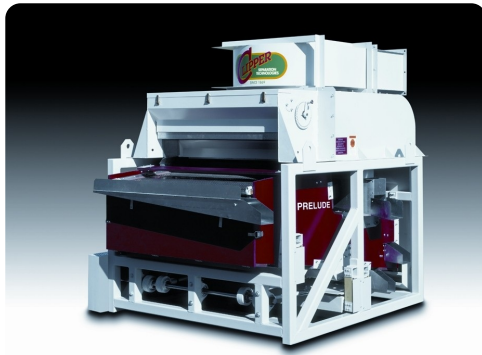
The Clipper Eclipse 334 features Three (3) Screen Decks. Each screen is 34"x 34". The top screen removes product larger than the desired seed. The "scalped off" material exits the front of the machine, while the good product falls through the screen.

The bottom two screen decks can be configured in either a split-sift or scalp-sift configuration. Trash, weed seeds, foreign material, and splits drop through the bottom sift screens while the good product passes over them.

Construction & Options

Construction features a heavy-duty tubular steel frame with a balanced counter throw, and a shoe made from high performance 13-ply marine grade hardwood laminant. The Eclipse 334 allows for easy connection to an auger or vibratory conveyor. An expanded surge hopper and bagging option are also available.





Prelude 526

The Prelude 526 offers a single-shoe assembly consisting of a Scalp-Scalp-Sift flow or a Scalp, Split-Sift Flow. All screens are 54" wide. The top scalping screen deck is 34" in length while the other two screen decks are 60" in length. All screen sections are 54" x 26" sections. The Prelude utilizes Ball Tray Cleaning Technology, Variable Screen Configurations and Pre-Suction and After-Suction Aspiration with Adjustable Air Controls.

Standard Features

3" square tubing frame that is 1/4" thick

Reverse incline back fan unit to develop up to 6400 CFM. Drive setup can easily be changed to match air and electrical requirements

Air lock discharge trash spout

Fixed speed vibratory inlet feed hopper with adjustable internal gate for uniform seed flow thru air column and onto screens

2 air gate controls for precise settings and air separation.

New style screen cleaning ball trays so that screens can be changed without removing ball trays

Replaceable metal screenways and rubber screen seals for ease of future repair

New style shoe hangers and drive connectors along with a shoe counter balance smooth counterbalanced operation

Electrical Requirements

2 Hp (2.25Kw) for Eccentric drive motor

10 Hp (7.5Kw) for main fan system.

1/2p (.375Kw) for optional electronic inlet vibratory feed hopper

Measurements

Overall Length: 91.500 in

Overall Width: 78.500 in

Overall Height: 91.000 in

Base Length: 73.500 in

Base Width: 69.500 in

Base Height: 67.030 in

Weight: 3800.000 lbs

Options

Over 150 different screen sizes available.

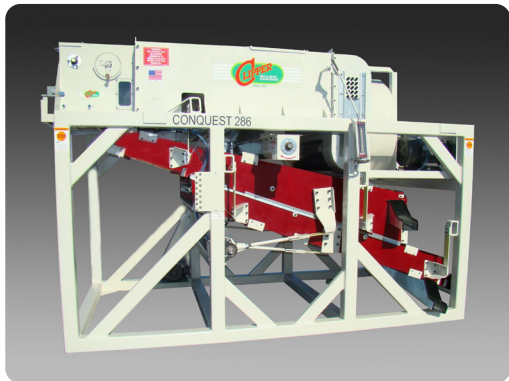
Electronic variable speed vibratory inlet feed hopper.

Grease line package to grease machine for central location.

Side mounted control panel to control electronic variable speeds from one location.

Various motor drive packages of 50 or 60 hertz, single or three phase, TEFC or Ex-Proof





Conquest 286

A two screen cleaner that utilizes two 86" length decks. Each screen deck uses 3-26" screen sections. This Seed Cleaner is designed to preclean and offers a top shoe assembly with a scalp screen setup and a bottom shoe assembly with a sift screen.

Standard Features

- 4" square tubing frame that is 1/4" thick
- Reverse incline back fan unit to develop up to 6400 CFM. Drive setup can easily be change to match air and electrical requirements
- Air lock discharge trash auger with bottom access door for ease of cleanout
- Electronic variable speed vibratory inlet feed hopper with adjustable internal gate for uniform seed flow thru air column and onto screens
- Calibrated air gate control for precise settings and air separation.
- New style screen cleaning ball trays so that screens can be changed without removing ball trays
- Replaceable metal screenways and rubber screen seals for ease of future repair
- New style shoe hangers and drive connectors smooth counterbalanced operation

Options

- Over 150 different screen sizes available.
- Grease line package to grease machine for central location.
- Side mounted control panel to control electronic variable speeds from one location.
- Various motor drive packages of 50 or 60 hertz, single or three phase, TEFC or Ex-Proof

Capacities

Capacities range up to 1000 BPH (27.2MTH) of market cleaning.

Electrical Requirements

- 1/2 Hp (.375Kw) for inlet vibratory feed hopper
- 2 Hp (2.25Kw) for Eccentric drive motor
- 10 Hp (7.5Kw) for main fan system. Optional 15Hp (11.25Kw) drive is available for high air discharge requirements

Measurements

Overall Length: 137.080 in
Overall Width: 87.280 in
Overall Height: 86.140 in
Base Length: 136.440 in
Base Width: 71.500 in
Base Height: 85.640 in
Weight: 3800.000 lbs



The Clipper Conquest 1360



Technical Specifications

● Extreme Height	99"/252 cm
● Extreme Width	87.5"/223 cm
● Extreme Length	136"/346 cm
● Width on Floor	71.5"/182 cm
● Length on Floor	134"/340 cm

Electrical Requirements

● Main Fan Motor	10 H.P./7.5 Kw
● Eccentric Motor	2 H.P./1.5 Kw
● Vibratory Feeder Motor	½ H.P./0.375 Kw

Air Output

6,400 CFM

Capacities*

● Small Seed	100 Bu./Hr. (2.7 MT/Hr.)
● Medium Seed	175 Bu./Hr. (4.7 MT/Hr.)
● Large Seed & Wheat	300 Bu./Hr. (8.1 MT/Hr.)
● Market Cleaning	600 Bu./Hr. (16.3 MT/Hr.)

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens – (3) 54" x 60" screens and one 54" x 34" screen
- Use about the same space as the Clipper Super X298D with 2-3 times more rated capacity

Options

- Bottom blast fan integrated into existing frame with no change to dimensions

* Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper Conquest 1386



Technical Specifications

● Extreme Height	99"/252 cm
● Extreme Width	87.5"/223 cm
● Extreme Length	155"/394 cm
● Width on Floor	71.5"/182 cm
● Length on Floor	134"/340 cm

Electrical Requirements

● Main Fan Motor	10 H.P./7.5 Kw
● Eccentric Motor	2 H.P./1.5 Kw
● Vibratory Feeder Motor	½ H.P./0.375 Kw

Air Output 6,400 CFM

Capacities*

● Small Seed	150 Bu./Hr. (4.0 MT/Hr.)
● Medium Seed	250 Bu./Hr. (7.0 MT/Hr.)
● Large Seed & Wheat	450 Bu./Hr. (12.2 MT/Hr.)
● Market Cleaning	1000 Bu./Hr. (24.5 MT/Hr.)

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens – (3) 54" x 86" screens and one 54" x 34" screen
- Use about the same space as the Clipper Super X298D with 2-3 times more rated capacity

Options

- Bottom blast fan integrated into existing frame with no change to dimensions

* Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper Conquest 486



Technical Specifications

Extreme Height	99"/252 cm
Extreme Width	87.5"/223 cm
Extreme Length	155"/394 cm
Width on Floor	71.5"/182 cm
Length on Floor	134"/340 cm

Capacities*

Small Seed	150 Bu./Hr. (4.0 MT/Hr.)
Medium Seed	250 Bu./Hr. (7.0 MT/Hr.)
Large Seed & Wheat	325 Bu./Hr. (12.2 MT/Hr.)
Market Cleaning	1000 Bu./Hr. (24.5 MT/Hr.)

Electrical Requirements

Main Fan Motor	10 H.P./7.5 Kw
Eccentric Motor	2 H.P./1.5 Kw
Vibratory Feeder Motor	½ H.P./0.375 Kw

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens– (4) 54" x 86" screens
- Use about the same space as the Clipper Super X298D with 2-3 times more rated capacity

Air Output

6,400 CFM

Options

- Bottom blast fan integrated into existing frame with no change to dimensions

* Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper Conquest 586



Technical Specifications

● Extreme Height	114.1"/290 cm
● Extreme Width	87.5"/222.2 cm
● Extreme Length	161.2"/409.4 cm
● Width on Floor	71.5"/182 cm
● Length on Floor	160"/406.4 cm

Electrical Requirements

● Main Fan Motor	10 H.P./7.5 Kw
● Eccentric Motor	3 H.P./2.25 Kw
● Vibratory Feeder motor	½ H.P./0.375 Kw

Air Output

6,400 CFM

Capacities*

● Small Seed	150 Bu./Hr. (4.0 MT/Hr.)
● Medium Seed	250 Bu./Hr. (7.0 MT/Hr.)
● Large Seed & Wheat	500 Bu./Hr. (13.0 MT/Hr.)
● Market Cleaning	1500 Bu./Hr. (37.0 MT/Hr.)

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens –(5) 54" x 86" screens

Options

- Bottom blast fan integrated into existing frame with no change to dimensions

* Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.





New Generation 568-2-3

A five screen cleaner that utilizes five 86" length decks. Each screen deck uses 3-26" screen sections and a screen blank. A total of 146.25 Square feet of screen area. The New Generation 568 cleaner offers a top shoe assembly with a split-scalp or a scalp-scalp or an optional scalp-sift flow and a bottom shoe assembly with a scalp-scalp-sift flow or a 3-way split-sift flow. A total of 6 different screen set ups are available with the machine.

Standard Features

- 4" square tubing frame that is 1/4" (6.35mm) thick.
- 1/2" throw on eccentric drive of cleaning shoes for maximum seed separation.
- Reverse incline back fan unit to develop up to 6400 CFM. Drive setup can easily be changed to match air and electrical requirements.
- Electronic variable speed vibratory inlet feed hopper with adjustable internal gate for uniform seed flow thru air column and onto screens.
- New style screen cleaning ball trays so that screens can be changed without removing ball trays.
- 2 Calibrated air gate controls for precise settings and air separation.
- Replaceable metal screenways and rubber screen seals for ease of future repair.
- New style shoe hangers and drive connectors for smooth counterbalanced operation.
- Air lock discharge trash augers with bottom access door for ease of cleanout.

Options

- Over 150 different standard screen sizes available with additional screen sizes available upon request.
- Bottom blast fan for specialized air separation requirements.
- Grease line package to grease machine for central location.
- Various motor drive packages of 50 or 60 Hertz, Single or Three phase, TEFC or Ex-Proof
- Side mounted control panel to control electronic variable speeds from one location.
- 15 Hp Back fan drive package for higher static pressure requirements.

Capacities

- Capacities range from 200 to 750 BPH (5.4-20.4MTH) for precision cleaning and up to 1800BPH (49MTH) of market cleaning.

Electrical Requirements

- 1/2 Hp (.375Kw) for inlet vibratory feed hopper
- 3 Hp (2.25Kw) for Eccentric drive motor
- 10 Hp (7.5Kw) for main fan system. Optional 15Hp (11.25Kw) drive is available for high air discharge requirements
- Optional bottom blast fan requires 3 Hp (2.25Kw)

Measurements

Overall Length: 180.000 in

Overall Width: 86.000 in

Overall Height: 107.000 in

Base Length: 174.000 in

Base Width: 71.500 in

Base Height: 107.000 in

Weight: 7500.000 lbs



New Generation 668-2-4

Shown with Optional Bottom Blast Fan



Technical Specifications

● Extreme Height	107"/272 cm
Height with Bottom Fan Shown	124"/315 cm
● Extreme Width	86"/219 cm
● Extreme Length	180"/460 cm
● Width on Floor	71.5"/182 cm
● Length on Floor	174"/444 cm

Electrical Requirements

● Main Fan Motor	10 H.P./7.5 Kw
● Eccentric Motor	3 H.P./2.25 Kw
● Vibratory Feeder Motor	½ H.P./0.375 Kw

Air Output

6,400 CFM

Capacities*

● Small Seed	200-375 BPH (5.4-10.2 MT/Hr)
● Medium Seed	400-650 BPH (5.0-8.8 MT/Hr)
● Large Seed & Wheat	600-900 BPH (16.32-24.48 MT/Hr)
● Market/Pre Cleaning	1200-1800 BPH (32.65-49 MT/Hr)

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens
- Variable Pitch Screens Available in Top Shoe
- Air Lock Trash Discharge Augers
- Six Screen Decks - 2 in Top Shoe & 4 in Bottom Shoe, 18 Screen sections – 54" x 26"

Options

- Bottom Blast Fan (Shown Above)
- Electronic Control Package (Shown Above)
- Grease Line Package

Note: *Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



Clipper 768 Precision Cleaner



Technical Specifications

● Extreme Height	138"/ 351 cm
Height with Bottom Fan	155"/394 cm
● Extreme Width	89"/ 226 cm
● Extreme Length	189"/ 480 cm
● Width on floor	72"/ 183 cm
● Length on floor	189"/ 480 cm

Electrical Requirements

● Main Fan Motor	15 HP, 3 Phase, AC
● Vibratory Feeder	½ HP, AC or DC
● Eccentric Motor	5 HP, 3 Phase, AC

Air Output

- Integral Centrifugal Fan delivering up to 8,400 CFM @ 8" S.P

Features

- Heavy Duty Construction-Built to last
- Electronic Vibratory Feed Hopper
- Screen Pitch: Top Shoe 8°
Bottom Shoe 9°
- Uses Standard Size Clipper Screens:
25 Screen Sections of 54" x 26"
- Feed Hopper & Aspiration Column
Engineered for High Capacity

Capacity

● Large Seed/Wheat	1000-1500 Bu./Hr. (27-40.5 MT/H)
● Market Cleaning	2000-2500 Bu./Hr. (54-67.5 MT/H)

Options

- Bottom Blast Fan
- Grease Package

Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper Hi-Cap 768



Technical Specifications:

Extreme Height	138"/ 351 cm
Extreme Width	89"/ 226 cm
Extreme Length	189"/ 480 cm
Width on floor	72"/ 183 cm
Length on floor	189"/ 480 cm

Electrical Requirements:

Main Fan Motor	15 HP, 3 Phase, AC
Eccentric Motor	5 HP, 3 Phase, AC
Vibratory Feeder	½ HP, AC or DC

Air Output:

Integral Centrifugal Fan delivering up to 8,400 CFM @ 8" S.P

Capacity:

Pre Cleaning	3,300 Bu./Hr. (90 MT/H)
High Purity	2,000 to 3,000 Bu./Hr. (55 MT/H to 80 MT/H)

Options:

Bottom Blast Fan incorporated in a separate bottom frame adds 17" (43 cm) to Extreme Height dimensions.

Shipping Specifications:

Shipping Height	121"/308 cm
Shipping Length	189"/480 cm
Shipping Width	89"/226 cm
Shipping Weight	11,000 pounds

Other Features:

- Heavy Duty Construction
- Electronic Vibratory Feed Hopper with AC or DC Controller
- 7 Screen Deck Cleaner configured for Precision Cleaning or Market Cleaning
- Uses Standard Size Clipper Screens: 25 Screen Sections of 54" x 26"
- Feed Hopper and Aspiration Column Engineered for High Capacity. Efficiently feeds and aspirates the incoming and outgoing product
- Screen Pitch: Top Shoe is Pitched at 8 degrees, Bottom Shoe is Pitched at 12 degrees

Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper 224 Titan Cleaner



Technical Specifications

● Extreme Height	151"/272 cm
● * with Bottom Fan	168"/427 cm
● Extreme Width	86.5"/219 cm
● Width on Floor	71.5"/182 cm
● Length on Floor	197.5"/502 cm

Electrical Requirements

● Main Fan Motor	15 H.P./11.25 Kw
● Eccentric Motor	5 H.P./3.75 Kw
● Vibratory Feeder Motor	½ H.P./0.375 Kw

Air Output

6,400 to 8,700 CFM

Capacities*

● Small Seed	200-500 BPH (2.7-6.8 MT/Hr)
● Medium Seed	400-800 BPH (7-14.5 MT/Hr.)
● Large Seed & Wheat	800-1200 BPH (21-32 MT/Hr)
● Market Cleaning	1500-2500 BPH (40-68 MT/Hr)

Features

- Heavy duty construction – built to last
- Uses standard Clipper screens – 54" x 86" screens and 54" X 105" screens
- Multiple Scalp & Sift Arrangements
- Capability to grade commodities in a single pass

Options

- Bottom Blast Fan
- Electronic Control Package

*Note: Capacities may vary depending on seed condition, moisture content, seed varieties, types and volumes of contaminants to be separated and the percentage of foreign material acceptable in the final product.



The Clipper Debearder



The Clipper Debearder is a multi-purpose machine available with optional variable speed controls to handle a wide variety of jobs with ease. Originally designed to debeard barley, it has become one of the most versatile machines in the entire Clipper line. For more information about this and other Clipper products, please call your nearest Clipper Representative or call our Factory Direct, toll free (800) 248-8318.

Applications-

- Debeard barley to improve test weight.
- Clip oats to remove excess fibers, increase test weight, enhance appearance and cleaning ability
- De-awn bronco grass (in oats), dill seed, celery seed
- Hull "whitecaps" in wheat
- Break up alfalfa pods, grass clusters, flax balls, crested wheat, fescues, brome, and cassia bark
- Polish tomato seed, remove mold from pepper balls, coffee beans and cassia (cinnamon) bark

Technical Specifications

- Extreme Height 33"/84cm
- Extreme Width 49 1/4"/125cm
- Extreme Length 60 13/16"/155cm
- Weight Less Motor 600 lbs/273Kg

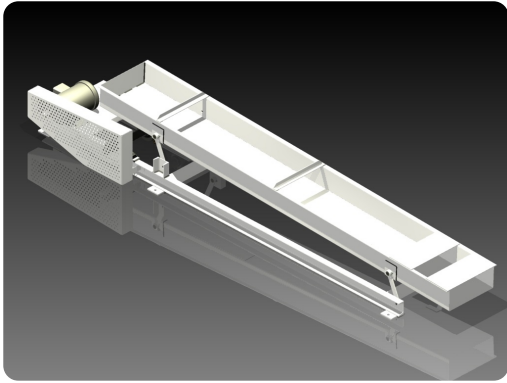
Options

- Variable Speed Drive
- Various Motor Capabilities
- Dust Collecting System

Features

- Heavy plate steel for superior strength.
- Hardened beater arms





Conveyors

Clipper seed conveyors are designed to transfer product from cleaner to elevator legs. They come in different widths and capacities.

Standard Features

- Heavy duty 1-3/16 or 1-1/2" drive shaft
- Replaceable hanger bearings and inner races
- Widths from 6" to 24" and lengths up to 20 feet
- 3 phase, TEFC motor drive is standard

Capacities

- 12" Wide Super/Up to 1100 BPH*
- 18" Wide Super/Up to 1800 BPH*
- 24" Wide Super/Up to 2400 BPH*

Options

Various motor drive packages of 50 or 60 hertz, single or three phase, TEFC or Ex-Proof



THE CLIPPER EDDY-GIANT HULLER AND SCARIFIER

Comparative test have conclusively proven that the Clipper Eddy-Giant Huller and Scarifier produces a higher degree of scarification with less injury to the seed, than can be accomplished with any other scarifier.

Legumes such as Sweet Clover, Alfalfa, Sericea Lespedeza, Wild Winter Peas and others contain a large percentage of hard seed. These hard seed, of course, do not germinate quickly after planting because they will not absorb the moisture. To encourage faster germination and a uniform stand, the seed is abraded or scratched – the process known as scarification is a delicate job that should attempted using only the most precise, professional equipment.

The “secret” of the Eddy-Giant lies in the exclusive Clipper action known a “controlled centrifugal pressure.” Lower priced scarifiers in no respect like the seed damaging “impact principle” employ this concept.

Centrifugal pressure is accomplished using revolving seed-distributing discs, which direct the seeds around concave abrasive or rubber rings at a controlled rate. This is fully explained on the reverse page under “ operational details.” The speed of the discs is continuously adjustable from 500 to 1950 revolutions per minute permitting precise settings for each particular lot of seed.

One set of carborundum concaves is supplied. A set of rubber concaves can be furnished at extra cost adding versatility the machine.

Many Legumes require hulling only, others scarification only, while some such as Sweet Clover and Sericea Lespedeza have an outer hull, which must be removed before scarification. The following list a few examples of each category:

Using Rubber Concaves

Legumes and Grasses hulled but not scarified-

Korean, Kobe, Common and Bi-color Lespedeza and Zoysia Japonica.



Using Carborundum Concaves.

Legumes scarified but not hulled-

Wild Winter Peas, Hairy Indigo, Alfalfa, White Clover, Sub Clover, Suckling Clover, and Cluster Clover.

Legumes hulled and scarified-

Sweet Clover, Sericea Lespedeza, Crown Vetch and Black Medic.

The Eddy-Giant is also effective when used to hull, crush or in effect alter the size or shape of fragile weed or crop seeds so they can be separated by screens. For example lots of Sweet Clover containing as much as fifty percent Foxtail or Pigeon Grass have been made comparatively clean and saleable at a regular prices by hulling the Foxtail so it can be screened out of the Clover.

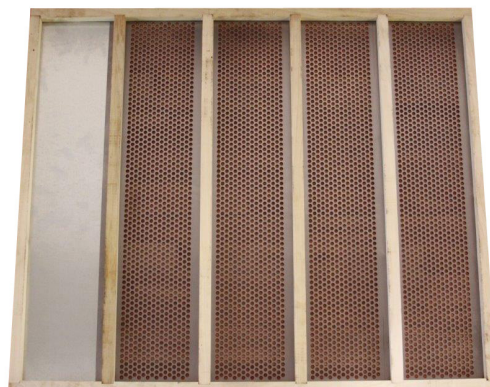
Capacity of the Eddy-Giant is comparable to the output of the large size Clipper Seed Cleaners, which means the hull-scarify job, will not delay the regular cleaning operation. Actually, the Eddy-Giant speeds up the cleaning of Sweet Clover as it receives the very rough, poorly hulled seed and delivers it to the Cleaner in a good condition so the Cleaner can produce a finished product in one pass. In this case if the Clipper Cleaner were to receive the stock direct it would have to be re-run two or more times without ever getting the same result.



2.Clipper Screens



54 in. X 60 in. cross slot screen



54 in. X 60 in. Screen With Round Perforations



Office Tester Screens
10 in. X 15 in.



Hand Test Screens
12 in. X 12 in.



Screen mid section with round perforations.

CLIPPER SCREEN SIZES - JUNE 1, 2012

ROUND HOLE

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91530125	1/25	2.56	.040	1.01	STANDARD	STANDARD
F91530124	1/24	2.67	.041	1.05	STANDARD	STANDARD
F91530123	1/23	2.78	.043	1.10	STANDARD	STANDARD
F91530122	1/22	2.91	.045	1.15	STANDARD	STANDARD
F91530121	1/21	3.05	.047	1.19	STANDARD	STANDARD
F91530120	1/20	3.2	.050	1.27	STANDARD	STANDARD
F91530119	1/19	3.37	.052	1.33	STANDARD	STANDARD
F91530118	1/18	3.56	.055	1.41	STANDARD	STANDARD
F91530117	1/17	3.76	.058	1.49	STANDARD	STANDARD
F91530116	1/16	4	.062	1.58	STANDARD	STANDARD
F91530115	1/15	4.27	.066	1.69	STANDARD	STANDARD
F91530114	1/14	4.57	.071	1.81	STANDARD	STANDARD
F91530113	1/13	5	.076	1.95	STANDARD	STANDARD
F91530112	1/12	5.33	.083	2.11	STANDARD	STANDARD
F91530512		5-1/2	.086	2.18	STANDARD	STANDARD
F91530600		6	.094	2.38	STANDARD	STANDARD
F91530612		6-1/2	.102	2.57	STANDARD	STANDARD
F91530700		7	.109	2.77	STANDARD	STANDARD
F91530712		7-1/2	.117	2.97	STANDARD	STANDARD
F91530800		8	.125	3.17	STANDARD	STANDARD
F91530812		8-1/2	.132	3.37	STANDARD	STANDARD
F91530900		9	.141	3.57	STANDARD	STANDARD
F91530912		9-1/2	.149	3.77	STANDARD	STANDARD
F91531000		10	.156	3.96	STANDARD	STANDARD
F91531001		10	.156	3.96	ADDITIONAL	18 GAUGE
F91531012		10-1/2	.164	4.16	STANDARD	STANDARD
F91531100		11	.172	4.36	STANDARD	STANDARD
F91531112		11-1/2	.180	4.56	STANDARD	STANDARD
F91531200		12	.187	4.76	STANDARD	STANDARD
F91531201		12	.187	4.76	ADDITIONAL	18 GAUGE
F91531212		12-1/2	.195	4.91	STANDARD	STANDARD
F91531300		13	.203	5.15	STANDARD	STANDARD
F91531301		13	.203	5.15	ADDITIONAL	18 GAUGE
F91531312		13-1/2	.211	5.35	STANDARD	STANDARD
F91531400		14	.219	5.55	STANDARD	STANDARD
F91531401		14	.219	5.55	ADDITIONAL	18 GAUGE
F91531412		14-1/2	.227	5.75	STANDARD	STANDARD
F91531500		15	.234	5.95	STANDARD	STANDARD
F91531501		15	.234	5.95	ADDITIONAL	18 GAUGE
F91531512		15-1/2	.242	6.15	STANDARD	STANDARD
F91531600		16	.250	6.35	STANDARD	STANDARD
F91531601		16	.250	6.35	ADDITIONAL	18 GAUGE
F91531602	HI DENSITY	16	.250	6.35	ADDITIONAL	18 GAUGE
F91531612		16-1/2	.258	6.54	STANDARD	STANDARD

ROUND HOLE CONTINUED

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91531700		17	.266	6.74	STANDARD	STANDARD
F91531701		17	.266	6.74	ADDITIONAL	18 GAUGE
F91531702	HI DENSITY	17	.266	6.74	ADDITIONAL	18 GAUGE
F91531712		17-1/2	.274	6.94	ADDITIONAL	22 GAUGE
F91531800		18	.281	7.14	STANDARD	STANDARD
F91531812		18-1/2	.289	7.34	STANDARD	STANDARD
F91531900		19	.297	7.54	STANDARD	STANDARD
F91531912		19-1/2	.305	7.73	STANDARD	STANDARD
F91532000		20	.312	7.93	STANDARD	STANDARD
F91532012		20-1/2	.320	8.13	STANDARD	STANDARD
F91532100		21	.328	8.33	STANDARD	STANDARD
F91532101		21	.328	8.33	ADDITIONAL	18 GAUGE
F91532112		21-1/2	.336	8.53	STANDARD	STANDARD
F91532113		21-1/2	.336	8.53	ADDITIONAL	18 GAUGE
F91532200		22	.344	8.73	STANDARD	STANDARD
F91532201		22	.344	8.73	ADDITIONAL	18 GAUGE
F91532212		22-1/2	.352	8.92	ADDITIONAL	22 GAUGE
F91532213		22-1/2	.352	8.92	ADDITIONAL	18 GAUGE
F91532300		23	.359	9.12	STANDARD	STANDARD
F91532301		23	.359	9.12	ADDITIONAL	18 GAUGE
F91532312		23-1/2	.367	9.32	ADDITIONAL	22 GAUGE
F91532313		23-1/2	.367	9.32	ADDITIONAL	18 GAUGE
F91532400		24	.375	9.52	STANDARD	STANDARD
F91532401		24	.375	9.52	ADDITIONAL	18 GAUGE
F91532412		24-1/2	.383	9.72	ADDITIONAL	22 GAUGE
F91532413		24-1/2	.383	9.72	ADDITIONAL	18 GAUGE
F91532500		25	.391	9.92	STANDARD	STANDARD
F91532501		25	.391	9.92	ADDITIONAL	18 GAUGE
F91532512		25-1/2	.398	10.11	ADDITIONAL	22 GAUGE
F91532600		26	.406	10.31	STANDARD	STANDARD
F91532601		26	.406	10.31	ADDITIONAL	18 GAUGE
F91532612		26-1/2	.414	10.51	ADDITIONAL	22 GAUGE
F91532700		27	.422	10.71	STANDARD	22 GAUGE
F91532712		27-1/2	.429	10.91	ADDITIONAL	22 GAUGE
F91532800		28	.437	11.11	STANDARD	STANDARD
F91532812		28-1/2	.445	11.31	ADDITIONAL	22 GAUGE
F91532900		29	.453	11.51	STANDARD	STANDARD
F91532912		29-1/2	.461	11.71	ADDITIONAL	22 GAUGE
F91533000		30	.469	11.9	STANDARD	STANDARD
F91533012		30-1/2	.477	12.1	ADDITIONAL	22 GAUGE
F91533100		31	.485	12.3	ADDITIONAL	22 GAUGE
F91533112		31-1/2	.492	12.5	ADDITIONAL	22 GAUGE
F91533200		32	.500	12.7	STANDARD	STANDARD
F91533300		33	.515	13.1	ADDITIONAL	22 GAUGE
F91533400		34	.531	13.49	STANDARD	STANDARD
F91533401		34	.531	13.49	ADDITIONAL	18 GAUGE
F91533600		36	.562	14.28	STANDARD	STANDARD

STANDARD SCREEN SHEET SIZE IS 53-1/4" X 26"

ROUND HOLE CONTINUED

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91533601		36	.562	14.28	ADDITIONAL	22 GAUGE
F91533800		38	.593	15.08	ADDITIONAL	22 GAUGE
F91534000		40	.625	15.87	ADDITIONAL	22 GAUGE
F91534200		42	.657	16.67	ADDITIONAL	22 GAUGE
F91534400		44	.687	17.47	ADDITIONAL	22 GAUGE
F91534600		46	.718	18.26	ADDITIONAL	22 GAUGE
F91534800		48	.750	19.05	ADDITIONAL	22 GAUGE
F91534801		48	.750	19.05	ADDITIONAL	22 GAUGE
F91535600		56	.875		ADDITIONAL	22 GAUGE

ADDITIONAL ROUND HOLE PUNCHES

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91531525		15-1/4	.238	6.05	CALL FOR QUOTE	
F91531575		15-3/4	0.246	6.25	CALL FOR QUOTE	
F91531625		16-1/4	.254	6.45	CALL FOR QUOTE	
F91531675		16-3/4	.262	6.64	CALL FOR QUOTE	
F91531725		17-1/4	.270	6.84	CALL FOR QUOTE	
F91533700		37	.579	14.68	CALL FOR QUOTE	
F91535000		50	.782	19.85	CALL FOR QUOTE	
F91535200		52	.814	20.59	CALL FOR QUOTE	
F91535400		54	.846	21.39	CALL FOR QUOTE	
F91535800		58	.906	23	CALL FOR QUOTE	
F91536000		60	.937	23.8	CALL FOR QUOTE	
F91536200		62	.968	24.6	CALL FOR QUOTE	
F91536400		64	1.000	25.4	CALL FOR QUOTE	
					CALL FOR QUOTE	

WE ARE CONTINUING TO BUY PUNCHES FOR HEAVIER GAUGE MATERIAL AND DIFFERENT SHEET SIZES.
CALL FOR AVAILABILITY

OBLONG (SLOTTED HOLES)

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91560124	1/24x1/2	2.67	.041	1.05 X 12.70	STANDARD	STANDARD
F91560122	1/22 x1/2	2.91	.045	1.15 X 12.70	STANDARD	STANDARD
F91561122	1/22 x1/2 DIAG	2.91	.045	1.15 X 12.70	STANDARD	STANDARD
F91550364	3/64 x 5/16	3.00	.047	1.19 X 7.98	STANDARD	STANDARD
F91560120	1/20 x 1/2	3.20	.050	1.27 X 12.70	STANDARD	STANDARD
F91540118	1/18 x 1/4	3.56	.055	1.40 X 6.35	STANDARD	STANDARD
F91560118	1/18 x 1/2	3.56	.055	1.40 X 12.70	STANDARD	STANDARD
F91570118	1/18 x 3/4	3.56	.055	1.40 X 19.05	STANDARD	STANDARD
F91560117	1/17 x 1/2	3.76	.058	1.49 X 12.70	STANDARD	STANDARD
F91540116	1/16 x 1/4	4.00	.062	1.58 X 6.35	STANDARD	STANDARD
F91560116	1/16 x 1/2	4.00	.062	1.58 X 12.70	STANDARD	STANDARD
F91560115	1/15 x 1/2	4.27	.066	1.69 X 12.70	STANDARD	STANDARD
F91540114	1/14 x 1/4	4.57	.071	1.81 X 6.35	STANDARD	STANDARD
F91560114	1/14 x 1/2	4.57	.071	1.81 X 12.70	STANDARD	STANDARD
F91560113	1/13 x 1/2	5.00	.076	1.93 X 12.70	STANDARD	STANDARD
F91560112	1/12 x 1/2	5.33	.083	2.11 X 12.70	STANDARD	STANDARD
F91570500	5 x 3/4	.076	1.98 X 19.05	STANDARD	STANDARD	
F91570525	5-1/4 X 3/4	0.081	2.13 X 19.05	ADDITIONAL	22 GAUGE	
F91570512	5-1/2 x 3/4	.086	2.28 X 19.05	STANDARD	STANDARD	
F91570600	6 x 3/4	.094	2.38 X 19.05	STANDARD	STANDARD	
F91570612	6-1/2 x 3/4	.102	2.57 X 19.05	STANDARD	STANDARD	
F91570700	7 x 3/4	.109	2.77 X 19.05	STANDARD	STANDARD	
F91570701	7 x 3/4	.109	2.77 X 19.05	ADDITIONAL	18 GAUGE	
F91570712	7-1/2 x 3/4	.117	2.97 X 19.05	STANDARD	STANDARD	
F91570800	8 x 3/4	.125	3.17 X 19.05	STANDARD	STANDARD	
F91570812	8-1/2 x 3/4	.132	3.35 X 19.05	STANDARD	STANDARD	
F91570900	9 x 3/4	.141	3.57 X 19.05	STANDARD	STANDARD	
F91570912	9-1/2 x 3/4	.149	3.78 X 19.05	STANDARD	STANDARD	
F91571000	10 x 3/4	.156	3.96 X 19.05	STANDARD	STANDARD	
F91571012	10-1/2 x 3/4	.164	4.16 X 19.05	STANDARD	STANDARD	
F91571100	11 x 3/4	.172	4.36 X 19.05	STANDARD	STANDARD	
F91571112	11-1/2 x 3/4	.180	4.56X 19.05	STANDARD	STANDARD	
F91571200	12 x 3/4	.187	4.76 X 19.05	STANDARD	STANDARD	
F91571212	12-1/2 x 3/4	.195	4.96 X 19.05	STANDARD	STANDARD	
F91571300	13 x 3/4	.203	5.15 X 19.05	STANDARD	STANDARD	
F91571301	13 x 3/4	.203	5.15 X 19.05	ADDITIONAL	18 GAUGE	
F91571312	13-1/2 x 3/4	.211	5.35 X 19.05	ADDITIONAL	22 GAUGE	
F91571400	14 x 3/4	.219	5.55X 19.05	STANDARD	STANDARD	
F91571401	14 x 3/4	.219	5.55X 19.05	ADDITIONAL	18 GAUGE	
F91571412	14-1/2 x 3/4	.227	5.75 X 19.05	ADDITIONAL	22 GAUGE	
F91571500	15 x 3/4	.234	5.95 X 19.05	ADDITIONAL	22 GAUGE	
F91571600	16 x 3/4	.242	6.35 X 19.05	STANDARD	STANDARD	

F91571700	17 x 3/4	.266	6.74 X 19.05	STANDARD	STANDARD
F91571800	18 x 3/4	.281	7.14 X 19.05	STANDARD	STANDARD
F91571900	19 x 3/4	.297	7.54X 19.05	STANDARD	STANDARD
F91572000	20 x 3/4	.312	7.93 X 19.05	ADDITIONAL	22 GAUGE
F91572012	20-1/2 x 3/4	.320	8.13 X 19.05	ADDITIONAL	22 GAUGE
F91572200	22 x 3/4	.344	8.73 X 19.05	ADDITIONAL	22 GAUGE
F91572400	24 x 3/4	.375	9.53 X 19.05	ADDITIONAL	22 GAUGE
F91573201	32 x 1	0.5	12.75 X 25.40	ADDITIONAL	22 GAUGE

WE ARE CONTINUING TO BUY PUNCHES FOR HEAVIER GAUGE MATERIAL AND DIFFERENT SHEET SIZES.
CALL FOR AVAILABILITY

OBLONG CROSS (SLOTTED HOLES)

(CROSS SLOTS MEANS THAT THE SLOTS GO ACROSS THE FLOW OF THE PRODUCT)

PART NUMBER	FRACTIONS (INCH)	CROSS SLOT SIZE IN 64TH	SLOT WIDTH IN THOUSANDS	SLOT SIZE IN IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91520734		7 X 3/4	.109	2.77 X 19.05	ADDITIONAL	STANDARD
F91520834		8 X 3/4	.125	3.17 X 19.05	ADDITIONAL	STANDARD
F91520812		8.5 X 3/4	0.133	3.37 X 19.05	ADDITIONAL	22 GAUGE
F91520934		9 X 3/4	.141	3.57 X 19.05	ADDITIONAL	STANDARD
F91520912		9-1/2 X 3/4	.149	3.78 X 19.05	ADDITIONAL	22 GAUGE
F91521034		10 X 3/4	.156	3.96 X 19.05	ADDITIONAL	STANDARD
F91521012		10-1/2 X 3/4	.164	4.16 X 19.05	ADDITIONAL	STANDARD
F91521134		11 X 3/4	.172	4.36 X 19.05	ADDITIONAL	STANDARD
F91511112		11-1/2 X 3/4	.180	4.56 X 19.05	ADDITIONAL	STANDARD
F91521234		12 X 3/4	.187	4.76 X 19.05	ADDITIONAL	STANDARD
F91521334		13 X 3/4	.203	5.15 X 19.05	ADDITIONAL	STANDARD
F91521434		14 X 3/4	.219	5.55 X 19.05	ADDITIONAL	STANDARD
F91521512		15-1/2 X 3/4	.242	6.15 X 19.05	ADDITIONAL	22 GAUGE
F91521634		16 X 3/4	.250	6.35 X 19.05	ADDITIONAL	STANDARD
F91521612		16-1/2 X 3/4	.258	6.55 X 19.05	ADDITIONAL	22 GAUGE
F91521834		18 X 3/4	.281	7.15 X 19.05	ADDITIONAL	STANDARD

ADDITIONAL SLOTTED HOLE PUNCHES

PART NUMBER	FRACTIONS (INCH)	HOLE SIZE IN 64TH	HOLE SIZE IN THOUSANDS	HOLE SIZE IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
		10/64 X 1	.156	3.96 X 25.40	CALL FOR QUOTE	
		28/64 X 3/4	.437	11.11 X 19.05	CALL FOR QUOTE	
		32/44 X 1	.500	12.75 X 19.05	CALL FOR QUOTE	
		35/64 X 15/16	.546	13.89 X 23.80	CALL FOR QUOTE	
		40/64 X 1-3/8	.625	15.87 X 34.92	CALL FOR QUOTE	
		48/64 X 1-1/2	.750	19.12 X 38.10	CALL FOR QUOTE	

(SLOTS GOES AT A DIAGONAL ACROSS THE FLOW OF THE PRODUCT)

PART NUMBER	FRACTIONS (INCH)	SLOT SIZE IN 64TH	SLOT WIDTH IN THOUSANDS	SLOT SIZE IN IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91581000		10 X 1-1/4	.156 X 1.250	3.96 X 31.75	ADDITIONAL	20 GAUGE
F91581012		10-1/2 X 1-1/4	.164 X 1.250	4.16 X 31.75	ADDITIONAL	20 GAUGE
F91581100		11 X 1-1/4	.172	4.36 X 31.75	ADDITIONAL	20 GAUGE

WE ARE CONTINUING TO BUY PUNCHES FOR HEAVIER GAUGE MATERIAL AND DIFFERENT SHEET SIZES.
CALL FOR AVAILABILITY

TRIANGLE HOLE
(MEASURED ON THE SIDE OF TRIANGLE)

PART NUMBER	FRACTIONS (INCH)	SIZE IN THOUSANDS	SIZE IN IN MM	STANDARD OR ADDITIONAL	METAL GAUGE
F91510564		5 TRIANGLE		ADDITIONAL	SPECIAL
F91511065		10 TRIANGLE	3.57	STANDARD	STANDARD
F91511264		12 TRIANGLE	4.76	STANDARD	STANDARD

WE ARE CONTINUING TO BUY PUNCHES FOR HEAVIER GAUGE MATERIAL AND DIFFERENT SHEET SIZES.
CALL FOR AVAILABILITY

**RECTANGULAR WIRE MESH
STAINLESS STEEL MATERIAL**

PART NUMBER	SIZE	WIRE SIZE	Roll Width
F91210317	3 X 17	.012 X .014	26"
F91210418	4 X 18	.010 X .011	26"
F91210428	4 X 28	.007 X .014	26"
F91210618	6 X 18	.0085 X .015	26"
F91210620	6 X 20	.0085 X .015	26"
F91210621	6 X 21	.0085 X .015	26"
F91210622	6 X 22	.0085 X .014	26"
F91210624	6 X 24	.008 X .014	26"
F91210626	6 X 26	.0075 X .014	26"
F91210628	6 X 28	.007 X .014	26"
F91210630	6 X 30	.0065 X .013	26"
F91210632	6 X 32	.0065 X .012	26"
F91210634	6 X 34	.0065 X .011	26"
F91210636	6 X 36	.0065 X .011	26"
F91210638	6 X 38	.0065 X .011	26"
F91210640	6 X 40	.0065 X .011	26"
F91210642	6 X 42	.0065 X .011	26"
F91212022	20 X 22	.0065 X .011	26"

**SQUARE WIRE MESH
STAINLESS STEEL MATERIAL**

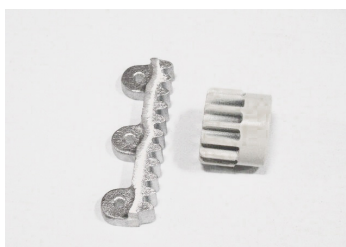
PART NUMBER	SIZE	WIRE SIZE	Roll Width
F91211616	16 MESH		42" or 48"
F91212424	24 MESH		42" or 48"
F91212626	26 MESH		42" or 48"
F91212828	28 MESH		42" or 48"
F91213838	38 MESH		42" or 48"
F91211010	10 MESH		60"
F91211212	12 MESH		60"
F91211414	14 MESH		60"
F91211818	18 MESH		60"
F91212020	20 MESH		60"
F91212222	22 MESH		60"
F91213030	30 MESH		60"
F91213232	32 MESH		60"
F91213434	34 MESH		60"
F91213636	36 MESH		60"
F91214040	40 MESH		60"
F91214444	44 MESH		60"
F91215050	50 MESH		60"
F91216060	60 MESH		60"

SCREEN COMPARISON

TYLER	U.S.	OPENING MICRONS	OPENING INCHES	OPENING MM
3 1/2	3 1/2	5664	.223	5.664
4	4	4749	.187	4.749
5	5	3987	.157	3.987
6	6	3360	.132	3.360
7	7	2819	.111	2.819
8	8	2380	.0937	2.380
9	10	2000	.0787	2.000
10	12	1680	.0661	1.680
12	14	1410	.0555	1.410
14	16	1191	.0469	1.191
16	18	1000	.0394	1.000
20	20	841	.0331	0.841
24	25	706	.0278	0.706
28	30	594	.0234	0.594
32	35	501	.0197	0.501
35	40	420	.0165	0.420
42	45	353	.0139	0.353
48	50	297	.0117	0.297
60	60	250	.0098	0.250
65	70	212	.0083	0.212
80	80	178	.0070	0.178
100	100	150	.0059	0.150
115	120	125	.0049	0.125
150	140	103	.0041	0.103
170	170	88	.0035	0.088
200	200	73	.0029	0.073
250	230	64	.0025	0.064
270	270	53	.0021	0.053
325	325	42	.0017	0.042
400	400	37	.0015	0.037



1.5 in. Adjusting Nut
with Zerk: F19500700



4 in. Rack F01200300 and
Pinion Gear: F01200203



3 in. Rope Sheave Assembly
Complete: F01000200



3 in. Rope Sheave only with
Bushing: F01401300



6.25 in. Vibro Conveyor Hanger
Assembly Complete: F09000300



12 in. Heavy Duty Hanger
Assembly with Needle Bearing
F18602802



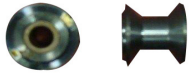
Black Coarse Screen Brush in
Various Sizes



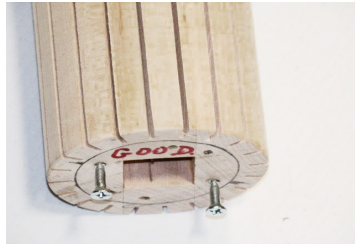
16 in. Hopper Clutch Sheave,
RH F04201700, LH: F04201800



Chain Idler Assembly



Brush Carrier Rollers for 1 3 16
shaft F09501400



Air Discharge Roll for # 8 or # 9
wide Machines Chain Idler As-
sembly Clipper Variable Speed
Belts Various Sizes.



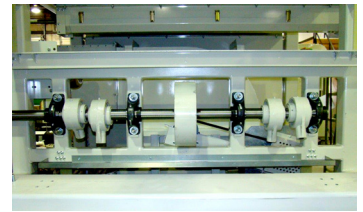
Wooden Pitman Arms LH, RH,
Top shoe, Bottom shoe most
Super Clipper Cleaners



Clipper Variable Speed Belts
Various Sizes.



Clutch Handle F02401000



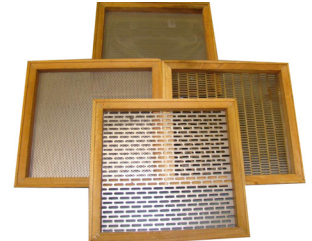
Eccentric Shaft and Eccentric
Assemblies for a Conquest 586



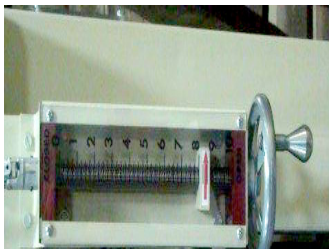
Fiberglass shoe hanger



Fifteen Tooth 1in. Bore Hopper
Pinion Gear: F04201400



Hand Test Screens
12 in. X 12 in.



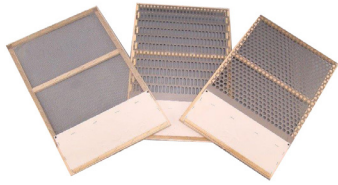
Hand Wheel Air Gate
Control



Hopper Clutch RH: F04201700
LH: F04201800



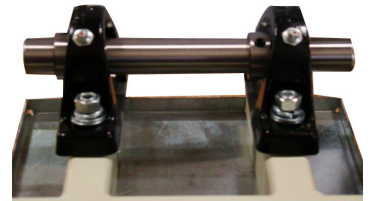
Screen Hook Assembly
F03500800



Office Tester Screens
10 in. X 15 in.



Permanent New Style Ball
Trays for Most Clipper Cleaners
Power



Pillow Block Bearings



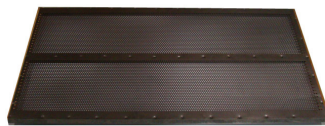
Twist B style Belt: 40000520



Red Wirelon Brush Cable 250
ft.: F97700063



Rubber ball White 1.375 in.
F80026102



Screen mid section with
round perforations.



Eccentric Shaft and Eccentric
Assemblies for a Conquest 586



Thrust Disc 9 in. or 12 in.



Wooden Shoe Hanger with
Top Block



SX298D 1.5 in. Eccentric Throw
Assembly Complete: F19503600

4. Flo-More Rotary Scalpers and Cleaners

The Flo-More FMRS-1D1S-HD Series



Applications: Scalping or Sifting Grains, Seeds, Pellets and other Bulk Commodities

Capacity: Scalping: Models available from 500 to 2,000 bushels per hour
 Sifting: Varies with commodity, 250 to 1,000 bushels per hour

Technical Specifications FMRS-2000HD:

Extreme Height:	67"	Motor:	3HP, 3 Phase, 230/460/60HZ
Extreme Width:	45"		Available in 1 Phase and 50HZ
Extreme Length:	91"	Drive:	Gear Reducer
Weight:	1,850 pounds	Options:	Aspiration available upon request

Features:

- Single Drum Screen
- Total Screen Area –29 Ft²
- Screen scalps off overs or sifts out unders
- Mild Steel Materials of Construction
- 3/16 Plate Clean Grain Discharge Hopper
- 3/16 Plate Inlet
- Cleaner Door Panel is 12 Gauge M.S.
- Conveyance Auger Shaft is 3" Schedule 80
- Auger Flights of 7 Gauge M.S. - 28" Diameter
- Screen is 28 inch ID x 48 inches long
- Heavy-duty Bearings and Supports
- One - 3 HP Motor – 3/60/230-460
- One - Gear Reducer Drive
- Adjustable Brush type screen cleaning
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



The Flo-More FMRC-1D2S Series



Applications: Sift/Scalp, Scalp/Scalp, Sift/Sift Grains, Seeds, Pellets and other Bulk Commodities

Capacity: Models available from 500 to 5,000 bushels per hour

Technical Specifications FMRC-1D2S-5000:

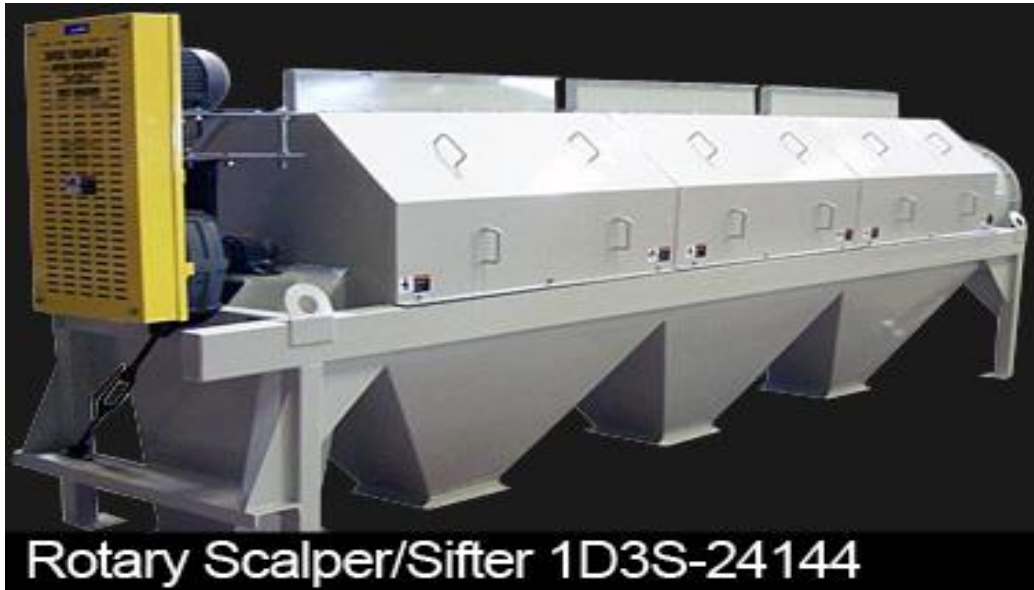
Extreme Height	68"	Motor	5HP, 3 Phase, 230/460/60HZ
Extreme Width	55"		Available in 1 Phase and 50HZ
Extreme Length	160"	Drive	Gear Reducer
Weight	3,700 pounds	Options	Aspiration available upon request, Multiple Hoppers or Common Discharge

Features:

- Single Drum, Two Screen
- Total Screen Area –75.40 Ft²
- Sift/Scalp, Sift/Sift or Scalp/Scalp Screen arrangements
- Mild Steel Materials of Construction
- 3/16 Plate Clean Grain Discharge Hoppers
- 3/16 Plate Inlet
- Cleaner Door Panel is 12 Gauge M.S.
- Conveyance Auger Shaft is 6" Schedule 80
- Auger Flights of 7 Gauge M.S. - 36" Diameter
- Screens are 36 inch ID x 48 inches long
- Heavy-duty Bearings and Supports
- One - 5 HP Motor – 3/60/230-460
- One - Gear Reducer Drive
- Adjustable Brush type screen cleaning
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



The Flo-More FMRC-1D3S Series



Applications: Sift/Scalp/Scalp Sift/Sift/Scalp, Scalp/Scalp/Scalp Grains, Seeds, Pellets and other Bulk Commodities

Capacity: Models available from 1,000 to 10,000 bushels per hour

Technical Specifications FMRC-1D3S-24144: (shown)

Extreme Height	68"	Motors:	One 5HP, 3 Phase, 230/460/60HZ
Extreme Width	55"		Available in 1 Phase and 50HZ
Extreme Length	210"	Drives:	One Gear Reducer
Weight	4,200 pounds	Options:	Aspiration available upon request, Multiple Hoppers or Common Discharge

Features:

- One Drum, Three Screens
- Total Screen Area –87.96 Ft²
- Sift/Scalp/Scalp, Sift/Sift/Scalp or Scalp/Scalp/Scalp Screen arrangements
- Mild Steel Materials of Construction
- 3/16 Plate Clean Grain Discharge Hoppers
- 3/16 Plate Inlet
- Cleaner Door Panel is 12 Gauge M.S.
- Conveyance Auger Shaft is 6" Schedule 80
- Auger Flights of 7 Gauge M.S. - 28" Diameter
- Screens are 28 inch ID x 48 inches long
- Heavy-duty Bearings and Supports
- One - 5 HP Motors – 3/60/230-460
- One - Gear Reducer Drive
- Adjustable Brush type screen cleaning
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



The Flo-More FMRC-2D4S Series



Applications: Sift/Scalp, Scalp/Scalp, Sift/Sift Grains, Seeds, Pellets and other Bulk Commodities

Capacity: Models available from 1,000 to 10,000 bushels per hour

Technical Specifications FMRC-2D4S-10,000:

Extreme Height	68"	Motors:	Two 5HP, 3 Phase, 230/460/60HZ
Extreme Width	90"		Available in 1 Phase and 50HZ
Extreme Length	160"	Drives:	Two Gear Reducers
Weight	6,300 pounds	Options:	Aspiration available upon request, Multiple Hoppers or Common Discharge

Features:

- Dual Drums, Four Screens
- Total Screen Area –150.80 Ft²
- Sift/Scalp, Sift/Sift or Scalp/Scalp Screen arrangements
- Mild Steel Materials of Construction
- 3/16 Plate Clean Grain Discharge Hoppers
- 3/16 Plate Inlet
- Cleaner Door Panel is 12 Gauge M.S.
- Conveyance Auger Shaft is 6" Schedule 80
- Auger Flights of 7 Gauge M.S. - 36" Diameter
- Screens are 36 inch ID x 48 inches long
- Heavy-duty Bearings and Supports
- Two - 5 HP Motors – 3/60/230-460
- Two - Gear Reducer Drive
- Adjustable Brush type screen cleaning
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



The Flo-More FMRC-2D6S Series



Rotary Scalper/Sifter 2D6S-48144

Applications: Sift/Scalp/Scalp Sift/Sift/Scalp, Scalp/Scalp/Scalp Grains, Seeds, Pellets and other Bulk Commodities

Capacity: Models available from 1,000 to 10,000 bushels per hour

Technical Specifications FMRC-2D6S-5,000:

Extreme Height	98"	Motors:	Two 10HP, 3 Phase, 230/460/60HZ
Extreme Width	115"		Available in 1 Phase and 50HZ
Extreme Length	216.5"	Drives:	Two Gear Reducers
Weight	10,900 pounds	Options:	Aspiration available upon request, Multiple Hoppers or Common Discharge

Features:

- Dual Drums, Six Screens
- Total Screen Area –301.59 Ft²
- Sift/Scalp/Scalp, Sift/Sift/Scalp or Scalp/Scalp/Scalp Screen arrangements
- Mild Steel Materials of Construction
- 3/16 Plate Clean Grain Discharge Hoppers
- 3/16 Plate Inlet
- Cleaner Door Panel is 14 Gauge M.S.
- Conveyance Auger Shaft is 6" Schedule 80
- Auger Flights of 7 Gauge M.S. - 48" Diameter
- Screens are 48 inch ID x 48 inches long
- Heavy-duty Bearings and Supports
- Two - 10 HP Motors – 3/60/230-460
- Two - Gear Reducer Drive
- Adjustable Brush type screen cleaning
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



The Flo-More High Capacity Drag Scalper



Applications: Scalp trash and Overs from Corn, Wheat, Barley and other Grains

Capacity: Two Models available: 15,000 and 20,000 bushels per hour based on Yellow Corn through a ½ inch square opening wire screen. Larger openings available.

Technical Specifications FMDS-4825 and FMDS-6025

Extreme Height	64"	Motors:	One 10 HP, 3 Phase, 230/460/60HZ
Extreme Width	87" or 99"		Available in 50HZ
Extreme Length	364"	Drives:	Gear Reducer Drive
Weight	8,745 pounds 9,580 for 6025	Options:	Multiple Discharge Locations Available

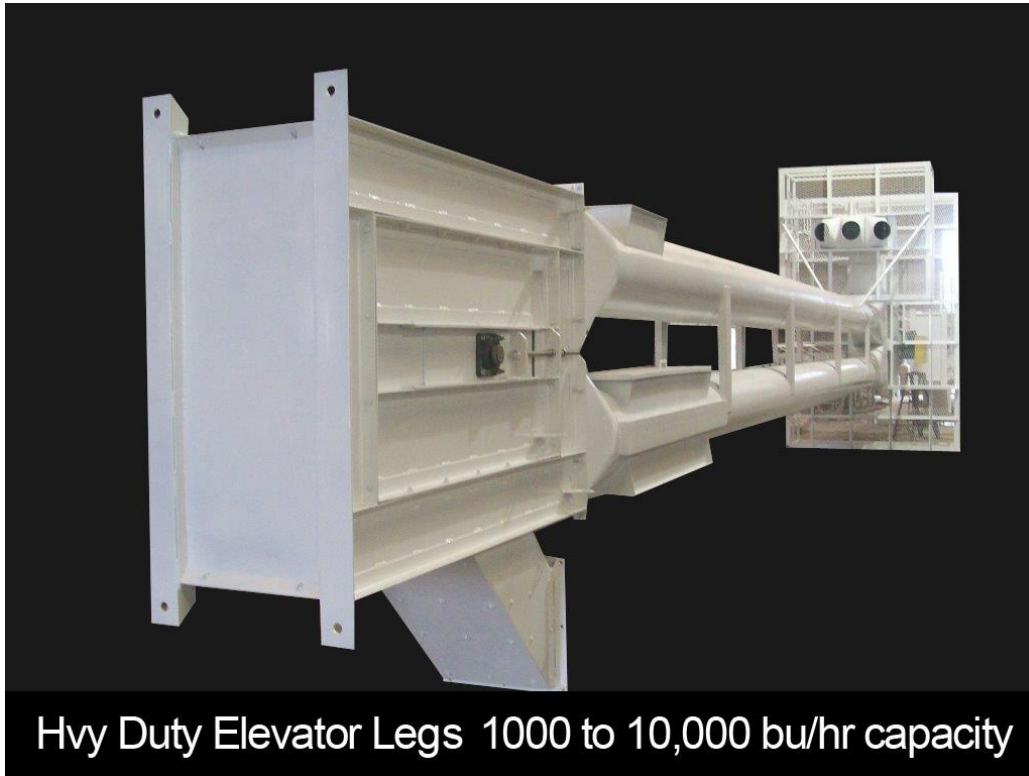
Features:

- Single Screen 48w x 300L or 60w x 300L
- Total Screen Area –100 Ft² or 125 Ft²
- Scalp only Screen arrangement
- Mild Steel Materials of Construction
- 2-15/16 Diameter Drive and Tail Shafts
- 1-15/16 Diameter Idler Shafts
- Hardened Chain Sprockets
- C188 Chain, Cotter Pinned
- Cover Panels are 14 Gauge M.S.
- Drag Paddles are UHMW, ¼ thick, Steel Backed
- Screens are available in wire or perforated metal
- Heavy-duty Pillow Block Bearings and Supports
- 10 HP Motor – 3/60/230-460
- Gear Reducer Drive
- Legs are optional
- Sheaves, Belts and OSHA-Type Drive Guards
- Completely Assembled & Tested in Shop
- Painted Ross Gray unless otherwise specified



6.Flo-More Heavy Duty Pipe Leg Bucket Elevator

The Flo-More Heavy Duty Pipe Legs



Applications: Elevation of free flowing Grains, Seeds, Pellets and other Bulk Commodities

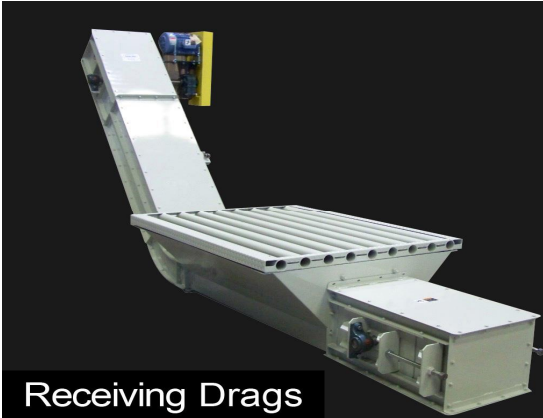
Capacity: Models available from 1,000 to 10,000 bushels per hour

Features:

- Mild or Stainless Steel Head and Boot sections
- Mild Steel 14 to 18" Pipe Trunks
- Shaft Mount Box Drives
- TEFC 230/460/3/1750 motor
- #350 PVC Belts
- Max Lift Cups
- Mild Steel, Zinc Plated hardware
- Work Platform with Safety Railing
- Ladder with Rest Platforms and Safety Cage
- Adjustable Boot Pulley
- Self-Cleaning Boot Pulley
- Double Disk Head Pulley
- Weld on Vulcanized Lagging
- Vented Head Section
- Large Trunk Access Panels for easy maintenance
- Painted Ross Gray (looks white)



The Flo-More Drag and Receiving Conveyors



Receiving Drags



L-Path Drag Conveyors



S-Path Drag Conveyors



Drag Conveyors



Applications: Flo-More Drag Conveyors can be used to receive, move and deliver commodities of all kinds. Available in mild or stainless steel in capacities from 1,000 to 10,000 bushels per hour.

Features:

- Heavy Gauge Mild or Stainless Steel Head and Tail sections
- Mild or Stainless Steel Intermediate Sections
- Bolt together designs
- Shaft mount reducer drives
- Heavy duty pillow block bearings
- Steel drive sprockets
- Nylon idler sprockets
- Alloy steel chain with stainless pins
- Nylon/UHMW or Fiberglass paddles
- Chain tension adjuster on Tail Section
- Flat or hip roof covers
- 230/460 TEFC Motor, 60 or 50 hz
- Custom built to fit your application



The Flo-More Fabricated Bins



Applications: Storage Bins, Soak Bins, Load Out Bins, Surge Bins, Bagging Bins, Trash Bins, Micro Ingredient Bins, Scale Hoppers, Surge Hoppers

Features:

- Custom and Standard designs
- Mild or Stainless Steel
- Square, Round or Rectangle
- Optional Support Stands
- Optional Slide Gates
- Optional Bin Level Indicators
- Multi Compartment available
- Open or Closed Top
- Internal or External Stiffening



The Flo-More Cyclones and Dust Collectors



Applications: Grain Elevators, Seed Cleaning Operations, Feed Mills, Grain and Flake Dryers

Features:

- Mild or Stainless Steel Construction
- Custom sizes from 20 to 120 inch diameter
- 1D2D or 1D3D designs
- Abrasion resistant steel wear plates
- Rain caps available
- Work platforms available
- Support stands available



Flo-More Products are designed and manufactured by: Ferrell-Ross Roll Manufacturing Inc. Hereford, Texas 79045

10. Universal Industries Bucket Elevators and Accesories



Bucket Elevators



Conveyors



P-Leg



Universal Bucket Elevator/Conveyor Accessories



B3



C3



C6



D3



DD



DR



E

Ferrell-Ross Roll Mfg. is an Authorized Full Product Line Dealer

Call, E-mail or Fax our Sales Department with your requirements for a quotation.

Toll Free: 800-299-9051, Tel. 806-364-9051, Fax 806-364-8853

E-Mail sales@ferrellross.com or sales@ferrellrossrollmfg.com or sales@flo-more.com



Gravity Separators



Destoner

Ferrell-Ross Roll Mfg. is an Authorized Full Product Line Dealer

Call, E-mail or Fax our Sales Department with your requirements for a quotation.

Toll Free: 800-299-9051, Tel. 806-364-9051, Fax 806-364-8853

E-Mail sales@ferrellross.com or sales@ferrellrossrollmfg.com or sales@flo-more.com

12. ScafcO Grain Storage Bins



Storage Bins

Ferrell-Ross Roll Mfg. is an Authorized Full Product Line Dealer

Call, E-mail or Fax our Sales Department with your requirements for a quotation.

Toll Free: 800-299-9051, Tel. 806-364-9051, Fax 806-364-8853

E-Mail sales@ferrellross.com or sales@ferrellrossrollmfg.com or sales@flo-more.com



Length Graders



Aspirator



Ferrell-Ross Roll Mfg. is an Authorized Full Product Line Dealer

Call, E-mail or Fax our Sales Department with your requirements for a quotation.

Toll Free: 800-299-9051, Tel. 806-364-9051, Fax 806-364-8853

E-Mail sales@ferrellross.com or sales@ferrellrossrollmfg.com or sales@flo-more.com

14. Field Services



Millwright Service

Ferrell-Ross Roll Manufacturing's Ross Millwright Group offers millwright services to Feed-yards, Feed-mills, Grain Elevators and Seed Plants in Texas, Oklahoma, Kansas, Nebraska, Colorado and Arizona. Equipped and capable, we provide millwright maintenance, equipment installation and general construction services for Ag based Industries. Ross Millwright Group's experienced Millwright Crews specialize in the installation and maintenance of:

- *Process Machinery*
- *Material Handling & Conveyance Equipment*
- *Feed, Grain & Seed Conditioning Equipment*
- *Grain Storage Facilities*
- *Complete Production Systems*

Ross Millwright Group offers:

- *24/7 On-Call Millwright Services*
- *A Fleet of Reliable Trucks*
- *Job-site Trailers stocked with service tools and parts*
- *Boom Trucks to provide on-site lifting capabilities*
- *Heavy-duty Mobile Hydraulic Crane Services*

Ross Millwright Group's Services are backed by:

- *\$3,000,000. Liability insurance coverage*
- *In-house Engineering, Design Drafting and Project Management*
- *A large and well-equipped Metal Fabrication and Welding facility*
- *Full range of CNC and Conventional Fabrication Machinery*
- *MIG, TIG, and Arc Welding Stations*
- *Qualified Fabricators and Welders*
- *Mild Steel, Stainless Steel, Aluminum, and Plastics inventories*
- *Extensive Machine Shop Capabilities*
- *Experienced Machinists*
- *CDL licensed drivers and equipment operators*
- *Certified Crane and lifting equipment operators*
- *Documented Safety Training Program*



Product Line Card

Ferrell-Ross Roll Manufacturing provides quality products for Feed, Food, and Industrial applications. We manufacture, sell, install and service machinery used to process and convey Animal Feeds, Grains, Seeds, Edible Cereals, Food Ingredients, Spices, Chemicals, Minerals, Plastics, Wastes, and other Powders and Bulk Materials.

Chilled Iron Rolls for most Makes and Models of Roller, Flaking, Crimping, Cracking and Grinding Mills.



Roller Mills
Flaking Mills
Cereal Mills
Cracking Mills
Pellet Crumblers
Hammer Mills

Pellet and Flake Coolers
Vertical Coolers
Horizontal Coolers
Cooler/Dryer Combinations

High Efficiency Steam Chests
Conditioning/Mixing Augers
Steam Boilers

Vibratory Sifters
Gyratory Classifiers

Gravity Scalpers
Rotary Scalpers & Cleaners
Sifters
Precision Seed Cleaners
High Capacity Grain Scalpers
Sifting Conveyors
In-Line Air Cleaners
Aspirators

Length Graders
Replacement Screens & Sieves

Screw Conveyors
Mixing and Blending Augers
Belt Conveyors
Drag Conveyors
Elevator Legs

De-bearders
De-hullers & Scarifiers
Bean Ladders

Hydraulic Pumps
Hydraulic Cylinders
Hydraulic Reservoirs
Milling System Control Panels
Roll Gap Control Systems

Fabricated Steel Bins
Cyclones, Dust Collectors
Air Locks
Catwalks & Bridges
Support Structures

Dealers for:

Ferrell-Ross Roller Mills
Mix-Mill Hammer Mills
Bliss Hammer Mills & Pellet Mills
Clipper Precision Seed Cleaners
Premier Length Graders
Oliver Gravity Tables and De-Stoners
Universal Bucket Elevators
SCAFCO Grain Systems
Belt-O-Matic Cooler/Dryers

Services:

Complete Plant Construction
Plant Expansions & Improvement
Turnkey Process Systems Installation
Roll Grinding and Corrugating
Roll Change Field Service
Custom Metal Fabrication

WARRANTY

Ferrell-Ross Roll Manufacturing Inc. Warranty for the following products:

<u>FERRELL-ROSS</u>	Roller Mills, Flaking Mills, Cereal Mills, Industrial Mills, Flake and Pellet Coolers, Crumbler and Replacement Rolls
<u>Clipper</u>	Grain and Seed Cleaners
<u>FLO-MORE</u>	Rotary Scalpers, Grain Cleaners, Steam Chests, Conveyers, Grain Bins, Soak Tanks Bucket Elevators, Complete Feed Factories, Electronic Control Systems, Custom Fabrications and Process Equipment.

Ferrell-Ross Roll Manufacturing Inc. warrants each new product of its manufacture when purchased from an authorized representative for a period of **one year from the date of shipment**. This warranty shall apply to all parts and workmanship (except products or components not manufactured by (Ferrell-Ross Roll Manufacturing Inc.), which shall appear to Ferrell-Ross Roll Manufacturing to have been defective in manufacture. Ferrell-Ross Roll Manufacturing Inc. sole and entire obligation under such warranty shall be satisfied by shipment to the Purchaser-User, without charge, (except for transportation costs, which shall be paid by the Purchaser-User) of the part or parts returned for inspection and parts intended to replace those acknowledged by Ferrell-Ross Roll Manufacturing Inc. to be defective.

This warranty shall not apply and shall be void under the following conditions:

1. If the product is transported from original installation site.
2. If any part of the product has been altered, modified, or changed, except at Ferrell-Ross Roll Manufacturing Inc. factory or is authorized in by Ferrell-Ross Roll Manufacturing Inc. in writing.
3. If attachments or devices unsuitable to the product have been used on or in conjunction with the product.
4. If the product has not been installed, used, operated, handled, or serviced in accordance with the appropriate instruction manual.

Ferrell-Ross Roll Manufacturing Inc. reserves the right to make changes in design or improvements in its products without obligation whatsoever to prior Purchaser-User of such products.

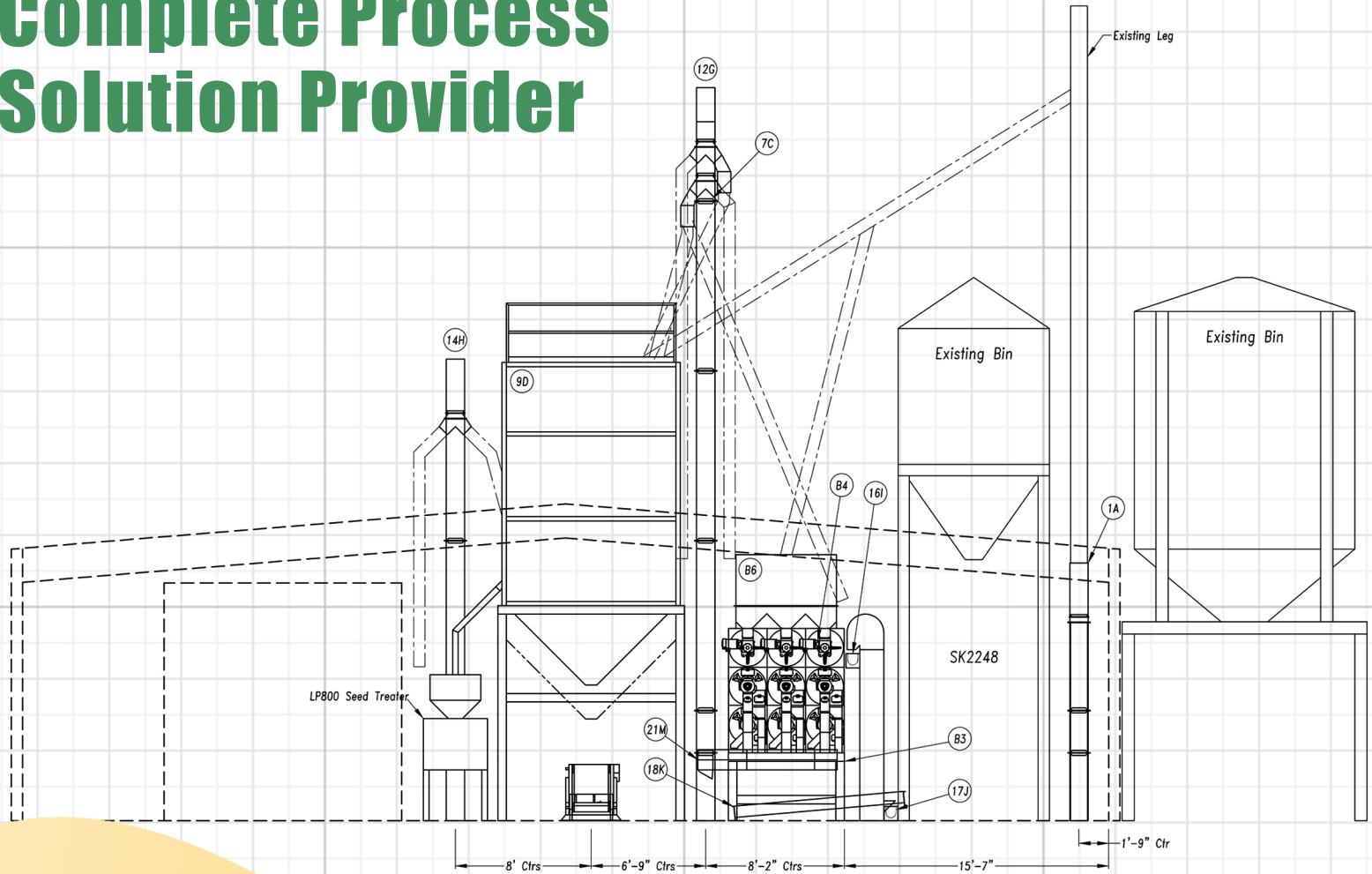
Ferrell-Ross Roll Manufacturing Inc. will pass on to a Purchaser-User only such warranty as it shall receive on products or components not of its manufactured from the manufacturer or supplier thereof.

This warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability of fitness and of any other obligation on the part of Ferrell-Ross Roll Manufacturing Inc. and may not be altered, modified, or changed in any way except in writing by an officer of Ferrell-Ross Roll Manufacturing Inc.

Ferrell-Ross Roll Manufacturing Inc. shall not be liable for any loss or damage directly or indirectly arising from the use of its products or otherwise, or for any special or consequential damages of any nature.

Notes:

Complete Process Solution Provider



We Provide Complete Systems

