

# ***2014 Product Catalog***

***Ferrell-Ross Roll  
Manufacturing, Inc.***





**K**nown worldwide as the premier systems innovator in Steam Flaking Technologies, Ferrell-Ross Roll Manufacturing, Inc. is one of the most respected names in the Process Equipment Industry serving the Cattle Feeding, Oil Seed, Cereals, Livestock Feed, Grain and Seed as well as Industrial Size Reduction 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, 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 Mobile Field Service Technicians in addition to our Millwright Maintenance Services, Roll Grinding & Corrugation Services and in-house Mill Machinery Rebuilding Services has made us the “Go to Company” in the industries we serve.

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 industry.

**Dealers for the following quality equipment:**



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**Manufacturer of Quality Rolls for Feed, Food & Industrial Applications**

# Sales Department

## Inside Sales



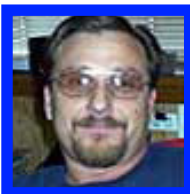
Clay Gerber  
EXT: 103  
cgerber@ferrellross.com  
*Equipment & Systems*



David Ibach  
EXT:102  
dibach@ferrellross.com  
*Equipment & Systems*



Tobe Fluty  
EXT:121  
tfluty@ferrellross.com  
*Rolls & Equipment*



Mike Cates  
EXT:110  
mcates@ferrellross.com  
*Parts*



Ken Aycock  
EXT:104  
k.aycock@ferrellross.com  
*Millwright Field Services*



Joel Mendoza  
EXT:112  
jmendoza@ferrellross.com  
*Roll Service*

## Outside Sales



Mike Mercer  
EXT:106  
m.mercer@ferrellross.com  
*Seed Systems*



Jeremy Schumacher  
EXT:105  
jschumacher@ferrellross.com  
*Steam Flaking Systems*



Wes Brown  
wbrown@ferrellross.com  
*Seed & Feed Mill Services*



Albert Mendoza  
amendoza@ferrellross.com  
*Roll Service*



Victor Worley  
sales@ferrellross.com  
*Millwright & Roll Service*

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E-mail • sales@ferrellross.com

**Ferrell-Ross Roll Manufacturing Inc.**  
**3690 FM2856, Hereford, Texas 79045 (U.S.A.)**

## 1. Chilled Cast Iron Rolls

Ferrell-Ross has the largest inventory of Chilled Iron Flaking and Cracking Roll Blanks in the Americas. We can build rolls for any make or model Flaking or Cracking Mill in 8, 9, 10, 12, 16, 18, 20, 24, 28 and 32 inch diameters up to 84 inches in length. Our journals are high strength AISI 4140 Alloy Steel, Hydraulically Pressed into the Roll Casting in our 400 ton Press then precision machined. The machined roll surface is then ground concentric to the bearing surfaces. We grind and corrugate rolls up to 32 inch diameter x 84 inches in length. Our corrugators are capable of straight or right and left hand spiral cuts from four to twenty four grooves per inch. We import only the highest quality German and Spanish Roll Blanks manufactured to ISO Quality Standards. Certified Material Test Reports including Physical and Chemical Properties along with Country of Origin are available upon request



Size	Blank Weight	
8X8	111	LBS
8X37	514	LBS
8X55	765	LBS
9X18	375	LBS
9X24	441	LBS
9X30	551	LBS
9X36	661	LBS
9X42	772	LBS
9X48	882	LBS
10X6	123	LBS
10X10	206	LBS
10X12	254	LBS
10X18	401	LBS
10X24	507	LBS
10X30	564	LBS
10X36	644	LBS
10X42	899	LBS
10X48	1,116	LBS
12X18	567	LBS
12X24	752	LBS
12X30	933	LBS
12X36	1,120	LBS
12X42	1,393	LBS
12X52	1,629	LBS
12X72	2,256	LBS
16X30	1,984	LBS
18X12	791	LBS
18X24	1,583	LBS
18X30	1,949	LBS
18X36	2,260	LBS
20X36	2,941	LBS
20X42	3,431	LBS
24X36	4,956	LBS
24X42	4,703	LBS
24x48	5,378	LBS
24X52	5,569	LBS
24X56	6,380	LBS
28X56	9,590	LBS
28X62	9,833	LBS
32X68	11,365	LBS

**\*Special sizes quoted upon request**

## 2.Roll Grinding & Corrugating

**The Ferrell-Ross Roll Manufacturing Roll Shop is capable of building or rebuilding rolls from start to finish.** Our Roll Shop is fully equipped with large and small engine lathes both conventional and CNC to cut new journals or repair your damaged or worn surfaces. Large and small plain cylindrical grinders refinish the roll surface and large and small corrugators cut grooves in the face of your rolls if required.

**The process:**After the journals are finish machined, the roll is setup on a precision cylindrical grinder where the roll body is ground concentric to the bearing surfaces. We then inspect and record the roll body dimensions. Many applications call for rolls with smooth rolling surfaces. In this case we coat the roll with a rust preventative, wrap it and crate it for shipment. Many applications require that precision grooves (corrugation) be cut into the roll body. This requires an additional operation involving our Roll Corrugating Department. We machine Straight (horizontal) Corrugation, Spiral (helical) Corrugation or Ring Cut (vertical) Corrugation to achieve the final product specification of the material being processed.



Please contact our Parts and Service department for Grinding and Corrugation pricing or to have your rolls either shipped in to our facilities or picked up by our Roll Service trucks.

Toll Free in the U.S.A.: 800-299-9051  
Office: 806-364-9051  
FAX: 806-364-8853  
E-mail: [sales@ferrellross.com](mailto:sales@ferrellross.com) -or- [sales@ferrellrossrollmfg.com](mailto:sales@ferrellrossrollmfg.com)

### 3. Ferrell-Ross Parts



K902-14201 228 Bearing  
A902-14211 23228 Bearing  
K902-14601 330 Bearing  
K902-14201 220 Bearing  
K902-13901 217 Bearing



K902-11001 228 Adapter  
A902-11200 128 Adapter  
K902-10801 220 Adapter  
K902-10601 217 Adapter



K914-07201 228 Housing Seal  
K914-06701 228 Cover Seal  
K914-06051 330 Housing Seal  
K914-07501 330 Housing Seal  
K914-06027 330 Cover Seal  
K914-06401 220 Housing Seal  
K914-06201 220 Cover Seal  
K914-06001 217 Housing Seal  
K914-06301 217 Cover Seal



Dust Seal, UHMW  
K201-00258 - 10" Mill  
K201-00259 - 12" Mill  
K201-00260 - 18" Mill  
K200-02171 1/4" - 24" Mill  
K200-02399 3/4" - 24" Mill



Scraper Bracket, Stainless Steel  
K200-00635 18x36  
K200-00639 20x42 Rear  
K200-00638 20x42 Front  
K100-02455 24x48 Scraper Assembly



Aluminum Scraper Blade  
1/4 tk 18X36  
3/8 tk 18X36  
1/2 tk 18x36  
  
1/4tk 24X48  
3/8 tk 24X48  
1/2 tk 24x48



K200-04016 SS Scraper Support Shaft  
  
K200-04019 Scraper Support Shaft Nut  
K200-020145 SS 24" Scraper Support Bar



3/4" Saddle, Cast Aluminum  
K201-05357 18X36  
1 1/2" Saddle, Cast Aluminum  
A201-05355 18X36  
K200-02036 24X48  
K201-05360 10" Roll  
K201-05358 12" Roll



UHMW Machined  
K201-00037 10" Roll  
K201-00045 12" Roll  
K201-05356 18" Roll  
K200-02035 24" Roll



Pin Feeder Shaft, Stainless Steel  
K200-00872 34" 18X36  
K200-00873 46" 24X48



K902-11303 UHMW Bearing  
K917-01602\_ PF Bearing Insert



K200-00088 Idler Shaft  
K902-11302 Idler Shaft Bearings  
For 18X36 Conventional Mill



Hydraulic Cylinder 3.25x 3.00  
Flo-More  
Rex-Roth  
Ortman  
Hydraulic Cylinder 4 x 3  
Flo-More



K201-05368A LF Roll Adjust  
K201-05368B LC Roll Adjust  
K201-05368C SF Roll Adjust  
K201-05368D SC Roll Adjust



K201-00273 Tension Spring



K200-00710 Tension Spring Grd



4401-1325 E 1-15/16" Hub  
4401-1338 E 2-3/4" Hub  
K915-04301 J 3-1/2" Hub  
K915-04701 M 3-1/2" Hub



F911-63144 C144 Belt  
K903-06001 CC120 Belt  
4501-3134 CC128 Belt



A201-00645 Pivot Base Pin  
K902-05802 Hardened Race



K200-00680 Clevis Pin Assembly



K200-06414 Rt Bevel Frame Supt.  
K200-06415 Lt Bevel Frame Supt.



A200-00065 Stationary Housing  
Made in USA (not China)



K10000524 Pivot Housing  
K200-00063 Pivot Base -



K201-00268 Scraper Spring 3"



K910-01261 Scraper Knob



K200-00616 Stainless Steel Scraper  
Tension Rod



Aluminum Inspection Door Assembly  
K10000416 18X36  
24X48



400-02612 Reducer, Morse,  
206Q56H15 Through Style, Pin  
Feeder Drive



K911-00301 Motor, P/F DC  $\frac{3}{4}$  hp,  
1750 RPM, 56C  
AC Motor



K90901701 Accumulator, Hydac  
18 & 24" Mills



SST Roll Cover with Vent & Handles  
18X36 Mill  
24X48 Mill



SS Center Section  
18X36 Mill  
24X48 Mill



18x36 XHD Mill Frame  
W/O Legs  
With Legs



F04600508 ¾" SST, ¼ Turn Ball Valve



SST Flanged Valve, ¼ turn  
70110134, 1.5"  
70110143, 2"  
70110145, 3"



Sheaves and Sprockets for all size Ross Mills, new and used in stock. Too numerous to list.



46141517 Sprocket, Chain, 1-7/16 bore.



31012030 DC Controller  
83221025 AC 230V Control  
AC 460V Control



40002612 Reducer, Through Style



K2000090 Idler Shaft, 18" mill,  
24.5" long  
K20002119, 24" mill x 14.5",



K91001601 Fixator, RK-111



Adapters, Sheave and Sprocket,  
All sizes in stock



Belts, double sided,  
CC120 18"  
CC128 18"  
CC210 24"



HTD Belts for  
18" mill, 20" and 24" mills



V-Belts  
C144, 18"  
C210, 24"



# 18 x 12 Flakemaster

The Ferrell-Ross 18 x 12 Flakemaster is an extremely versatile flaking mill that is ideal for laboratory settings, research and development, pilot plant production, and commercial scale operations with lower output requirements. The 18x12 is available in four different models specific to steam flaking, oilseed flaking, oat flaking, and cereal flaking.

### Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- Flakemaster Design Allows Roll Removal From Front or Back of Mill
- Heavy-Duty Spring and Hydraulic Accumulator Roll Protection
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension
- Locking Collar Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door

### Options

- Drive Motors (Standard or Inverter Duty)
- Micro Hand Wheel Roll Gap Adjustment
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Vibratory Feeder with Controller
- Continuous Interior Welds
- Epoxy Paint
- Water Cooled Rolls
- Precision Roll Scrapers (Mill Knives)

### Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Food Grade Processing
- Oat Flaking
- Cereal Flaking

### Electrical Requirements

- 2 x 7.5 HP Main Drive Motors
- .5 HP Feeder Drive Motor

### Measurements

**Overall Length:** 70.200 in

**Overall Width:** 60.000 in

**Overall Height:** 77.000 in

**Base Height:** 75.400 in

**Weight:** 4400.000 lbs



# 18 x 36 Flakemaster

The Ferrell-Ross Flakemaster Series combines superior flaking performance with rugged reliability and straightforward operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- FlakeMaster Design Allows Roll Removal From Front or Back of Mill
- Heavy-Duty Spring and Hydraulic Accumulator Roll Protection
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension
- Locking Collar Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- Frame Extension with (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door

## Options

- Drive Motors
- Micro Hand Wheel Roll Gap Adjustment
- 24" Legs Welded to Mill Frame
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Continuous Interior Welds
- Epoxy Paint

## Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Oat Flaking

## Electrical Requirements

2 x 30 HP Main Drive Motors

.75 HP Feeder Drive Motor

## Measurements

**Overall Length:** 83.000 in

**Overall Width:** 73.250 in

**Overall Height:** 53.700 in

**Base Height:** 53.700 in

**Weight:** 10000.000 lbs



# 20 x 42 Flakemaster

The Ferrell-Ross Flakemaster Series combines superior flaking performance with rugged reliability and straightforward operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- FlakeMaster Design Allows Roll Removal From Front or Back of Mill
- Heavy-Duty Spring and Hydraulic Accumulator Roll Protection
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension
- Locking Collar Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- Frame Extension with (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door
- Roll Pre-Heat System (requires steam connection)

## Options

- Drive Motors
- Micro Hand Wheel Roll Gap Adjustment
- 24" Legs Welded to Mill Frame
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Continuous Interior Welds
- Epoxy Paint

## Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Oat Flaking

## Electrical Requirements

2 x 40 HP Main Drive Motors

.75 HP Feeder Drive Motor

## Measurements

**Overall Length:** 95.000 in

**Overall Width:** 82.400 in

**Overall Height:** 55.000 in

**Base Height:** 55.000 in

**Weight:** 11900.000 lbs





# 24 x 48 Flakemaster

The Ferrell-Ross Flakemaster Series combines superior flaking performance with rugged reliability and straightforward operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- FlakeMaster Design Allows Roll Removal From Front or Back of Mill
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension with Accumulator Roll Protection
- Fixator Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door
- Roll Pre-Heat System (requires steam connection)

## Options

- Drive Motors
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Continuous Interior Welds
- Epoxy Paint

## Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Oat Flaking

## Electrical Requirements

2 x 60 HP Main Drive Motors

.75 HP Feeder Drive Motor

## Measurements

**Overall Length:** 106.200 in

**Overall Width:** 97.000 in

**Overall Height:** 67.250 in

**Base Height:** 67.250 in

**Weight:** 21000.000 lbs





# 24 x 56 Flakemaster

The Ferrell-Ross Flakemaster Series combines superior flaking performance with rugged reliability and straightforward operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- FlakeMaster Design Allows Roll Removal From Front or Back of Mill
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension with Accumulator Roll Protection
- Fixator Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door
- Roll Pre-Heat System (requires steam connection)

## Options

- Drive Motors
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Continuous Interior Welds
- Epoxy Paint

## Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Oat Flaking

## Electrical Requirements

2 x 75 HP Main Drive Motors

.75 HP Feeder Drive Motor

## Measurements

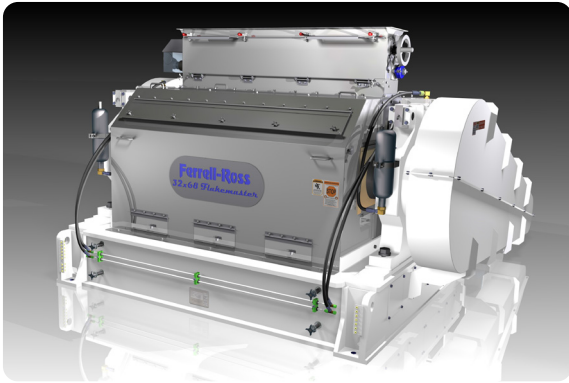
**Overall Length:** 106.200 in

**Overall Width:** 97.000 in

**Overall Height:** 67.250 in

**Weight:** 23000.000 lbs





# 32 x 68 Flakemaster

The Ferrell-Ross Flakemaster Series combines superior flaking performance with rugged reliability and straightforward operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Heavy Duty Mild Steel Mill Base
- T304 Stainless Steel Mill Housing
- (2) Roll Inspection Doors
- FlakeMaster Design Allows Roll Removal From Front or Back of Mill
- Double Row Self-Aligning SKF Spherical Roller Bearings
- Hydraulic Cylinder Roll Tension with Accumulator Roll Protection
- Fixator Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Manual and Electric Valve
- Dual HTD Drive Package with Enclosed Guards
- (2) Adjustable Motor Bases
- Stainless Steel Roll Scraper Assemblies with Aluminum Blades
- Stainless Steel Pin Feeder with Adjustable Slide Gate and Inspection Door
- AC Inverter Duty Pin Feeder Drive Motor
- Adjustable Internal Product Deflector
- Convenient Central Grease Manifolds with Poly Grease Lines
- Product Sampling Door
- Roll Pre-Heat System (requires steam connection)

## Options

- Drive Motors
- VFD Feeder Control
- Corrugated Roll Feeder
- Dual Roll Oat Feeder
- Continuous Interior Welds
- Epoxy Paint

## Applications

- Feed Manufacturing
- Steam Flaking
- Oilseed Flaking
- Oat Flaking

## Electrical Requirements

- 2 x 125 HP Main Drive Motors
- 1 HP Feeder Drive Motor

## Measurements

**Overall Length:** 138.590 in

**Overall Width:** 125.320 in

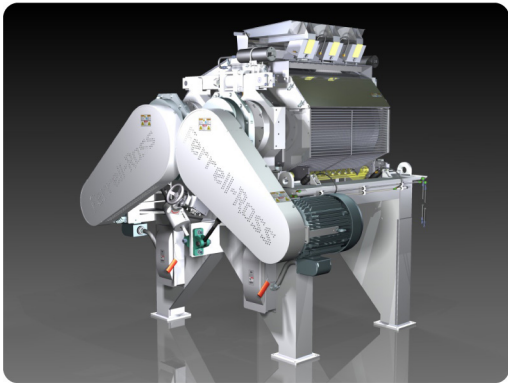
**Overall Height:** 73.940 in

**Base Height:** 73.940 in

**Weight:** 38850.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



## 32 x 40 Cereal Flaking Mill

The Ferrell-Ross 32x40 Cereal Mill now includes many improved features that compliment the strengths of its proven design.

### NEW STANDARD FEATURES

#### INCLUDE:

More Power - Dual 60 HP drives provide ample power for even the most demanding cereal flaking applications. More Accuracy - Improved roll scraper (mill knife) location and adjustment allow for fine tuning of the blade angle and point of roll contact. More Access - Re-designed roll guards meet safety guidelines while allowing access to roll scraper adjustments and knife warping bolts. More Quality - The rugged mill frame and bearing housing mounting surfaces are machined after fabrication for improved roll alignment and roll gap precision.

#### Standard Features

- Mild Steel Base with Epoxy White Paint
- Stainless Steel Mill Housing with Continuous Welds, Ground Smooth
- 32" Diameter Peripherally Drilled Water Cooled Chilled Cast Iron Rolls
- Two Rotary Unions for Connection to Chilled Water Source
- SKF Explorer Double-Row, Self-Aligning Spherical Roller Bearings
- Vibratory Feeder with Stainless Steel Pan and (3) Electromagnetic Drives
- Vibratory Feeder Control with (3) Individual Trimmers and (1) Main Rheostat
- Nylon Roll Saddles
- Redesigned Air Actuated Roll Scraper Assembly (Easily Adjustable)
- (2) Shaft Mounted Gear Reducers
- Fixator Positive Stop Roll Gap Adjustment
- Air-Over Hydraulic Pump with Electric and Manual Valves
- Dual Motor Drive Components

#### Applications

- Cereal Flaking

#### Electrical Requirements

2 x 60 HP Main Drive Motors



# 8 x 37 Pellet Crumbler

Ferrell-Ross Pellet Crumblers are designed to effectively reduce pellets to a desired particle size range. The low profile design and front side roll removal allow for convenient placement in both new and existing pelleting lines.

### Standard Features

- Two Chilled Cast Iron Rolls
- Horizontal and Ring Cut Corrugation to Reduce Fines
- Lever Control Pellet Diverter Allows Product to By-Pass Rolls
- Low Profile Design
- Main V-Belt Drive, with Motor
- Adjustable Motor Base
- 1.5 to 1 Differential V-Belt Drive
- Enclosed Drive and Differential Guards
- Heavy Duty Spring Roll Tension
- Bolt-on Bearings with Robust Support
- Rolls Removed From Front of Crumbler
- Roll Inspection Panel with Safety Switch
- Sample Door for Easy Collection

### Applications

- Feed Manufacturing

### Electrical Requirements

10 HP Drive Motor

### Measurements

**Overall Length:** 57.400 in

**Overall Width:** 56.900 in

**Overall Height:** 20.000 in

**Base Height:** 20.000 in

**Weight:** 1940.000 lbs

### Options



SINCE 1869

# 8 x 55 Pellet Crumbler

Ferrell-Ross Pellet Crumblers are designed to effectively reduce pellets to a desired particle size range. The low profile design and front side roll removal allow for convenient placement in both new and existing pelleting lines.

## Standard Features

- Two Chilled Cast Iron Rolls
- Horizontal and Ring Cut Corrugation to Reduce Fines
- Lever Control Pellet Diverter Allows Product to By-Pass Rolls
- Low Profile Design
- Main V-Belt Drive, with Motor
- Adjustable Motor Base
- 1.5 to 1 Differential V-Belt Drive
- Enclosed Drive and Differential Guards
- Heavy Duty Spring Roll Tension
- Bolt-on Bearings with Robust Support
- Rolls Removed From Front of Crumbler
- Roll Inspection Panel with Safety Switch
- Sample Door for Easy Collection

## Applications

Feed Manufacturing

## Electrical Requirements

15 HP Drive Motor

## Measurements

**Overall Length:** 57.400 in

**Overall Width:** 74.900 in

**Overall Height:** 20.000 in

**Base Height:** 20.000 in

**Weight:** 2500.000 lbs

## Options



SINCE 1869

# 10 x 12 2-HI IND Roller Mill

The Ferrell-Ross Industrial Series Roller Mills feature heavy duty construction and components to meet the demands of higher capacity or continuous operation applications.

## Standard Features

- Four Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Double Row Self Aligning SKF Spherical Roller Bearings
- Heavy Duty Cast Bearing Housings
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Base Mounted to Motor Stand
- Variable Position Locking Lever Roll Gap Adjustment
- Belt Driven Corrugated Roll Feeder (constant RPM)
- Adjustable Feed Gate
- Roll Feeder Inspection Door
- (2) Product Sampling Doors
- (2) Aspiration Ports
- Convenient Central Grease Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- T304 or T316 Stainless Steel Housing
- Variable Speed Roll Feeder Package (AC or DC)
- Vibratory Feeder and Control
- Continuous Interior Welds
- Epoxy Paint
- Linear Transducers with Digital Roll Gap Display

### Available in:

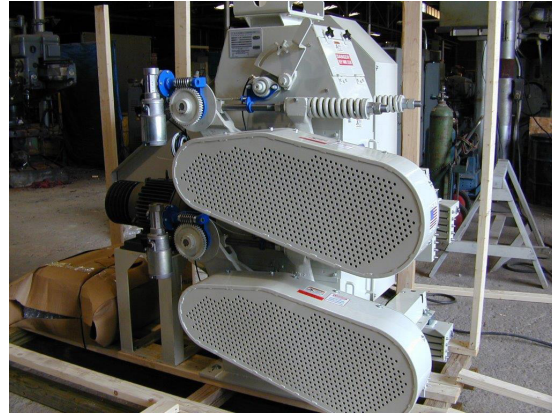
**10x12**

**10x18**

**10x24**

**10x30**

**10x42**



## Electrical Requirements

10 HP Drive Motor

## Measurements

**Overall Length:** 79.000 in

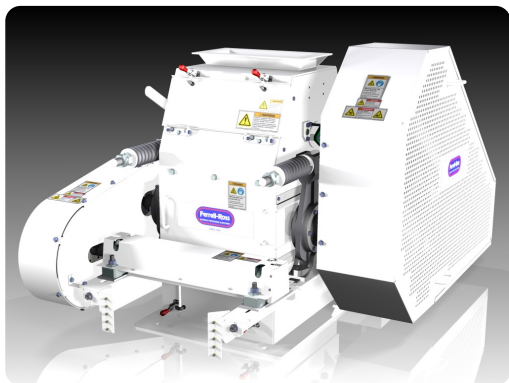
**Overall Width:** 47.000 in

**Overall Height:** 64.200 in

**Base Height:** 62.750 in

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



# 10 x 18 Single HI IND Roller Mill

The Ferrell-Ross Industrial Series Roller Mills feature heavy duty construction and components to meet the demands of higher capacity or continuous operation applications.

## Standard Features

Two Chilled Cast Iron Rolls  
Mild Steel Mill Housing  
Double Row Self Aligning SKF Spherical Roller Bearings  
Heavy Duty Cast Bearing Housings  
Heavy Duty Spring Roll Tension  
V-Belt Drive and Differential Packages with Enclosed Guards  
Adjustable Motor Base Mounted to Mill Frame  
Variable Position Locking Lever Roll Gap Adjustment  
Belt Driven Corrugated Roll Feeder (constant RPM)  
Adjustable Feed Gate  
Roll Feeder Inspection Door  
(1) Product Sampling Door  
(1) Aspiration Port  
Convenient Central Grease Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- T304 or T316 Stainless Steel Housing
- Variable Speed Roll Feeder Package (AC or DC)
- Vibratory Feeder and Control
- Continuous Interior Welds
- Epoxy Paint
- Linear Transducers with Digital Roll Gap Display

### Available in:

10x12  
10x18  
10x24  
10x30  
10x36  
10x42

## Applications

- Feed Manufacturing
- Oilseed Cracking
- Food Grade Processing
- Industrial Materials Size Reduction

## Electrical Requirements

7.5 HP Main Drive Motor

## Measurements

**Overall Length:** 69.400 in

**Overall Width:** 52.000 in

**Overall Height:** 42.700 in

**Base Height:** 40.750 in

**Weight:** 2200.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



# 10 x 12 Single HI M Roller Mill

The Ferrell-Ross M Series Roller Mills are designed to provide an economical solution for medium duty particle size reduction. The M Series Mills are widely used for cracking or grinding grains and oilseeds in lower capacity applications that do not require continuous operation.

## Standard Features

- Two Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Removable Doors for Easy Access to Rolls
- Pillow Block and Flange Style Roll Bearings
- Pivot Roll Arms with Eccentric Vertical Adjustment
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Base Mounted to Mill Frame
- Ten Position Locking Lever Roll Gap Adjustment
- Belt Driven Rotary Paddle Feeder (constant RPM)
- Adjustable Feed Gate
- Product Sampling Ports
- Central Lubrication Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- Small Surge Hopper
- 6" Horizontal Auger Discharge
- Continuous Interior Welds
- Epoxy Paint

## Available in:

**10x12**  
**10x18**  
**10x24**  
**10x30**  
**10x36**

## Applications

- Feed Manufacturing
- Oilseed Cracking
- Food Grade Processing

## Electrical Requirements

- 5 HP Main Drive Motor

## Measurements

**Overall Length:** 55.700 in

**Overall Width:** 35.250 in

**Overall Height:** 44.200 in

**Base Height:** 42.000 in

**Weight:** 1500.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY

# 10 x 12 2-HI M Roller Mill

The Ferrell-Ross M Series Roller Mills are designed to provide an economical solution for medium duty particle size reduction. The M Series Mills are widely used for cracking or grinding grains and oilseeds in lower capacity applications that do not require continuous operation.

## Standard Features

- Four Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Removable Doors for Easy Access to Rolls
- Pillow Block and Flange Style Roll Bearings
- Pivot Roll Arms with Eccentric Vertical Adjustment
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Base Mounted to Motor Stand
- Ten Position Locking Lever Roll Gap Adjustment
- Belt Driven Rotary Paddle Feeder (constant RPM)
- Adjustable Feed Gate
- Product Sampling Ports
- Central Lubrication Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- Small Surge Hopper
- 6" Horizontal Auger Discharge
- Continuous Interior Welds
- Epoxy Paint

### Available in:

**10x12**  
**10x18**  
**10x24**  
**10x30**  
**10x36**

## Applications

- Feed Manufacturing
- Oilseed Cracking
- FoodGrade Processing

## Electrical Requirements

10 HP Main Drive Motor

## Measurements

**Overall Length:** 57.200 in

**Overall Width:** 36.400 in

**Overall Height:** 62.400 in

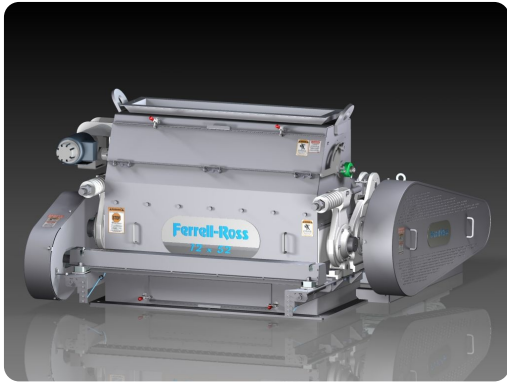
**Base Height:** 60.250 in

**Weight:** 2600.000 lbs



**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



# 12 x 52 Single HI IND Roller Mill

The Ferrell-Ross Industrial Series Roller Mills feature heavy duty construction and components to meet the demands of higher capacity or continuous operation applications.

## Standard Features

- Two Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Double Row Self Aligning SKF Spherical Roller Bearings
- Heavy Duty Cast Bearing Housings
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Base Mounted to Mill Frame
- Variable Position Locking Lever Roll Gap Adjustment
- Belt Driven Corrugated Roll Feeder (constant RPM)
- Adjustable Feed Gate
- Roll Feeder Inspection Door
- (1) Product Sampling Door
- (1) Aspiration Port
- Convenient Central Grease Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- T304 or T316 Stainless Steel Housing
- Variable Speed Roll Feeder Package (AC or DC)
- Vibratory Feeder and Control
- Continuous Interior Welds
- Epoxy Paint
- Linear Transducers with Digital Roll Gap Display

## Applications

- Feed Manufacturing
- Oilseed Cracking
- Food Grade Processing
- Industrial Materials Size Reduction

## Electrical Requirements

40 HP Main Drive Motor

## Measurements

**Overall Length:** 88.500 in

**Overall Width:** 85.200 in

**Overall Height:** 47.900 in

**Base Height:** 46.000 in

**Weight:** 6500.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY

# 12 x 52 2-HI IND Roller Mill

The Ferrell-Ross Industrial Series Roller Mills feature heavy duty construction and components to meet the demands of higher capacity or continuous operation applications.

## Standard Features

- Four Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Double Row Self Aligning SKF Spherical Roller Bearings
- Heavy Duty Cast Bearing Housings
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Base Mounted to Motor Stand
- Variable Position Locking Lever Roll Gap Adjustment
- Belt Driven Corrugated Roll Feeder (constant RPM)
- Adjustable Feed Gate
- Roll Feeder Inspection Door
- (2) Product Sampling Doors
- (2) Aspiration Ports
- Convenient Central Grease Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- T304 or T316 Stainless Steel Housing
- Variable Speed Roll Feeder Package (AC or DC)
- Vibratory Feeder and Control
- Continuous Interior Welds
- Epoxy Paint
- Linear Transducers with Digital Roll Gap Display

## Applications

- Feed Manufacturing
- Oilseed Cracking
- Food Grade Processing
- Industrial Materials Size Reduction

## Electrical Requirements

75 HP Main Drive Motor

## Measurements

**Overall Length:** 93.000 in

**Overall Width:** 86.600 in

**Overall Height:** 74.400 in

**Base Height:** 72.000 in

**Weight:** 13000.000 lbs



**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



# 12 x 52 3-HI IND Roller Mill

The Ferrell-Ross Industrial Series Roller Mills feature heavy duty construction and components to meet the demands of higher capacity or continuous operation applications.

## Standard Features

- Six Chilled Cast Iron Rolls
- Mild Steel Mill Housing
- Double Row Self Aligning SKF Spherical Roller Bearings
- Heavy Duty Cast Bearing Housings
- Heavy Duty Spring Roll Tension
- V-Belt Drive and Differential Packages with Enclosed Guards
- Adjustable Motor Bases Mounted to Motor Stand
- Variable Position Locking Lever Roll Gap Adjustment
- Belt Driven Corrugated Roll Feeder (constant RPM)
- Adjustable Feed Gate
- Roll Feeder Inspection Door
- (3) Product Sampling Doors
- (3) Aspiration Ports
- Convenient Central Grease Manifolds with Poly Grease Lines

## Options

- Main Drive Motor
- Micro Hand Wheel Roll Gap Adjustment
- T304 or T316 Stainless Steel Housing
- Variable Speed Roll Feeder Package (AC or DC)
- Vibratory Feeder and Control
- Continuous Interior Welds
- Epoxy Paint
- Linear Transducers with Digital Roll Gap Display

## Applications

- Feed Manufacturing
- Food Grade Processing
- Industrial Materials Size Reduction

## Electrical Requirements

(1) 75 HP and (1) 40 HP Drive Motor

## Measurements

**Overall Length:** 92.100 in

**Overall Width:** 86.600 in

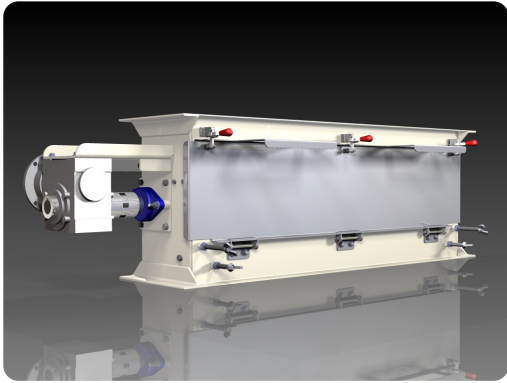
**Overall Height:** 103.400 in

**Base Height:** 103.400 in

**Weight:** 21000.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY



# Ferrell-Ross Roll Feeders

Ferrell-Ross Roll Feeders are available to replace vibratory feeders or pin feeders on any Ferrell-Ross Roller Mill or Flaking Mill. Ferrell-Ross can also custom build the Roll Feeder to fit other makes and models.

## Standard Features

- Hardened Feed Roll: 65-70 Rockwell C
- Heavy Duty Mild and Stainless Steel Housing Construction
- Adjustable Stainless Steel Ceramic Magnet Assembly
- Inverter Controlled Feed Roll
- Gearbox Drive
- Adjustable Stainless Steel Grain Deflector
- Adjustable Stainless Steel Inlet Baffle

## Capacities

## Electrical Requirements

.5 - 1 HP

## Options

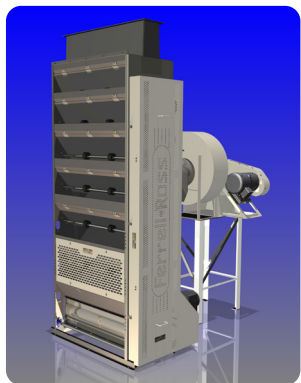
- Rare Earth Magnets
- Vibratory Feed to Roll Feed Adapter Plates

## Measurements

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY

## 6. Ferrell-Ross Flake and Pellet Coolers



# Ferrell-Ross RC 100 Flake and Pellet Cooler

Ferrell-Ross RC Coolers feature rotary vane product discharge with variable speed drive to precisely adjust material flow rate.

The RC Flake and Pellet Coolers are designed for continuous flow cooling with eccentric driven baffles that prevent product bridging. A level sensor at the top of the cooler inlet activates the baffle and rotary discharge drive.

Air flow is created by the blower and regulated via the by-pass valve to fine tune c.f.m. Inspection and clean out doors are included in the fan hood assembly.

The RC Series Coolers are available with mild steel or 304 stainless steel housings.

### Standard Features

- Mild Steel Housing
- Mild Eccentric Shafts and Baffles
- Mild Steel Hood with Inspection Door
- Stainless Steel Rotary Discharge
- Variable Speed Baffle and Discharge Drive
- Enclosed Mild Steel Drive Guard
- Indicator Level Indicator
- Exhaust Fan
- Air Valve Adjustment Lever
- Fan Motor and Drive Package with Enclosed Guard

### Options

- Stainless Steel Housing
- Stainless Steel Eccentric Shafts and Baffles
- Stainless Steel Hood with Inspection Door

### Applications

- Feed Manufacturing
- Steam Flaking

### Electrical Requirements

1 HP Drive Motor

10 HP Fan Motor

### Measurements

**Overall Length:** 95.400 in

**Overall Width:** 59.200 in

**Overall Height:** 132.000 in

**Base Height:** 132.000 in

**Weight:** 3500.000 lbs

**Ferrell-Ross**

MATERIALS PROCESSING & RECOVERY

# Ferrell-Ross RC 200 Flake and Pellet Cooler

Ferrell-Ross RC Coolers feature rotary vane product discharge with variable speed drive to precisely adjust material flow rate.

The RC Flake and Pellet Coolers are designed for continuous flow cooling with eccentric driven baffles that prevent product bridging. A level sensor at the top of the cooler inlet activates the baffle and rotary discharge drive.

Air flow is created by the blower and regulated via the by-pass valve to fine tune c.f.m. Inspection and clean out doors are included in the fan hood assembly.

The RC Series Coolers are available with mild steel or 304 stainless steel housings.

## Standard Features

- Mild Steel Housing
- Mild Eccentric Shafts and Baffles
- Mild Steel Hood with Inspection Door
- Stainless Steel Rotary Discharge
- Variable Speed Baffle and Discharge Drive
- Enclosed Mild Steel Drive Guard
- Indicator Level Indicator
- Exhaust Fan
- Air Valve Adjustment Lever
- Fan Motor and Drive Package with Enclosed Guard

## Options

- Stainless Steel Housing
- Stainless Steel Eccentric Shafts and Baffles
- Stainless Steel Hood with Inspection Door

## Applications

- Feed Manufacturing
- Steam Flaking

## Electrical Requirements

1 HP Drive Motor

15 HP Fan Motor

## Measurements

**Overall Length:** 112.000 in

**Overall Width:** 59.200 in

**Overall Height:** 168.000 in

**Base Height:** 168.000 in

**Weight:** 4500.000 lbs



## 7. Flo-More High Efficiency Steam Chest

# The Flo-More High Efficiency Steam Chest



**Applications:** Steam Cooking Grains such as Corn, Milo, Wheat, Barley and Oats in Flaking Operations for Feed and Food production.

**Capacity:** Models available from 2 to 50 Tons per hour. The following standard models are fabricated in any length to match the capacity capabilities of your flaking mill:

FMSC-3820	150 <sup>3</sup> /ft, 4.5 TPH, 4.08 MTPH	FMSC-6620	432 <sup>3</sup> /ft, 13.0 TPH, 11.79 MTPH
FMSC-4820	236 <sup>3</sup> /ft, 7.09 TPH, 6.43 MTPH	FMSC-7220	506 <sup>3</sup> /ft, 15.2 TPH, 13.78 MTPH
FMSC-5420	294 <sup>3</sup> /ft, 8.83 TPH, 8.0 MTPH	FMSC-7620	564 <sup>3</sup> /ft, 16.9 TPH, 15.32 MTPH
FMSC-5720	326 <sup>3</sup> /ft, 9.78 TPH, 8.87 MTPH	FMSC-8420	677 <sup>3</sup> /ft, 20.3 TPH, 18.41 MTPH
FMSC-6020	359 <sup>3</sup> /ft, 10.8 TPH, 9.8 MTPH	FMRC-9620	870 <sup>3</sup> /ft, 26.1 TPH, 23.67 MTPH

Capacities calculated at a 45 minute retention time

Holding capacity increases with length of cylinder,

Custom diameters up to 96 inches and lengths up to 54 feet are available.

**Features:**

- 10 gauge 304 Stainless Steel Body
- 10 Gauge Stainless Steel Cone Square to Round Transition
- Stainless Steel Structural Support at Top of Transition
- Stainless Steel Lifting Lugs
- Stainless Steel Internal Diffusion Injectors and Supports
- Exclusive Dual-Zone, Injector Sparge Design (Provides twin concentric rings per sparge for better cooking.)
- Two Man-Way Access– One in Top and One in Transition Cone
- Stainless Steel Top Vent Port
- Stainless Steel Piping and Manifold (All piping is internal)
- Stainless Steel ¼ Turn Ball Valves with Stainless Steel Ball and Teflon Seat
- Sight Glass in Cone Bottom with Stainless Steel Bezel
- Three Temperature Gauges with Stainless Steel Thermal Wells, Digital Read-outs available
- Stainless Steel Bindicator mounting plate
- Structural Steel mounting pads for rigid mounting
- Expansion joint for mounting transition to pin feeder
- Factory Insulation is optional.



## 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 Ft<sup>2</sup>
- 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:**

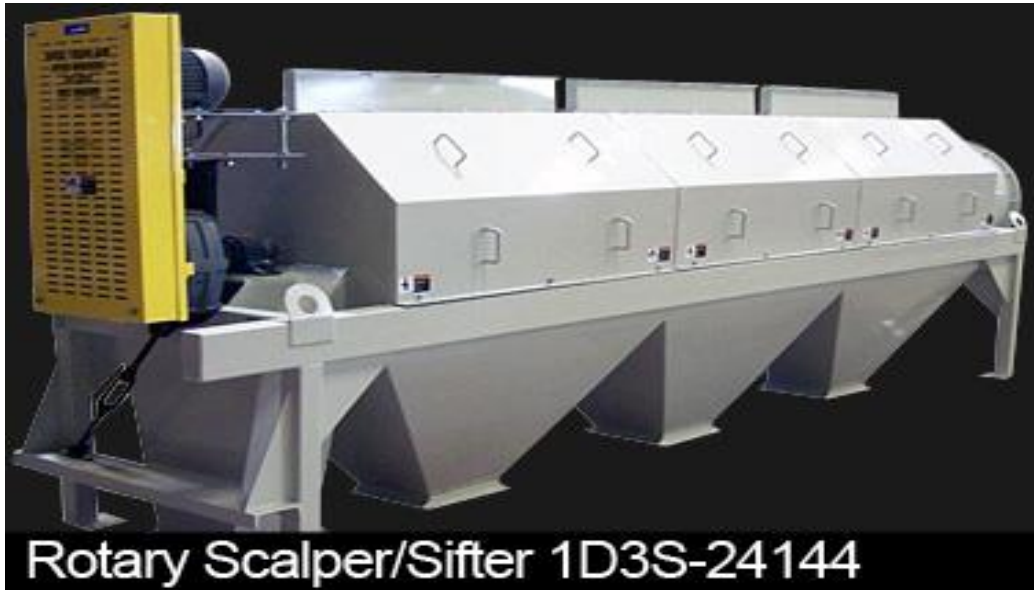
Extreme Height	68"	Motor	5HP, 3 Phase, 230/460/60HZ
Extreme Width	55"		Available in 1 Phase and 50HZ
Extreme Length	160"	Drive	Gear Reducer
Weight	3,700 pounds	Options	Aspiration available upon request, Multiple Hoppers or Common Discharge

**Features:**

- Single Drum, Two Screen
- Total Screen Area –75.40 Ft<sup>2</sup>
- 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 Ft<sup>2</sup>
- 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 Ft<sup>2</sup>
- 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 Ft<sup>2</sup>
- 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



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

# 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**

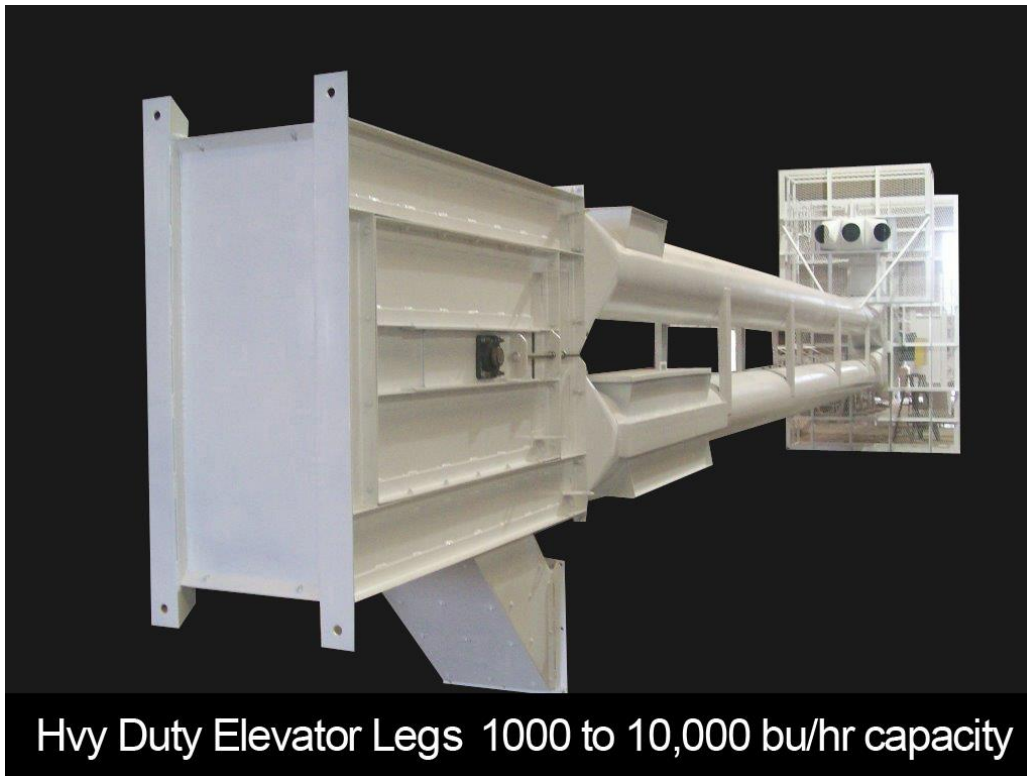
Extreme Height	64"	Motors:	One 10 HP, 3 Phase, 230/460/60HZ
Extreme Width	87" or 99"		Available in 50HZ
Extreme Length	364"	Drives:	Gear Reducer Drive
Weight	8,745 pounds 9,580 for 6025	Options:	Multiple Discharge Locations Available

## **Features:**

- Single Screen 48w x 300L or 60w x 300L
- Total Screen Area –100 Ft<sup>2</sup> or 125 Ft<sup>2</sup>
- 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



# The Flo-More Heavy Duty Pipe Legs



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

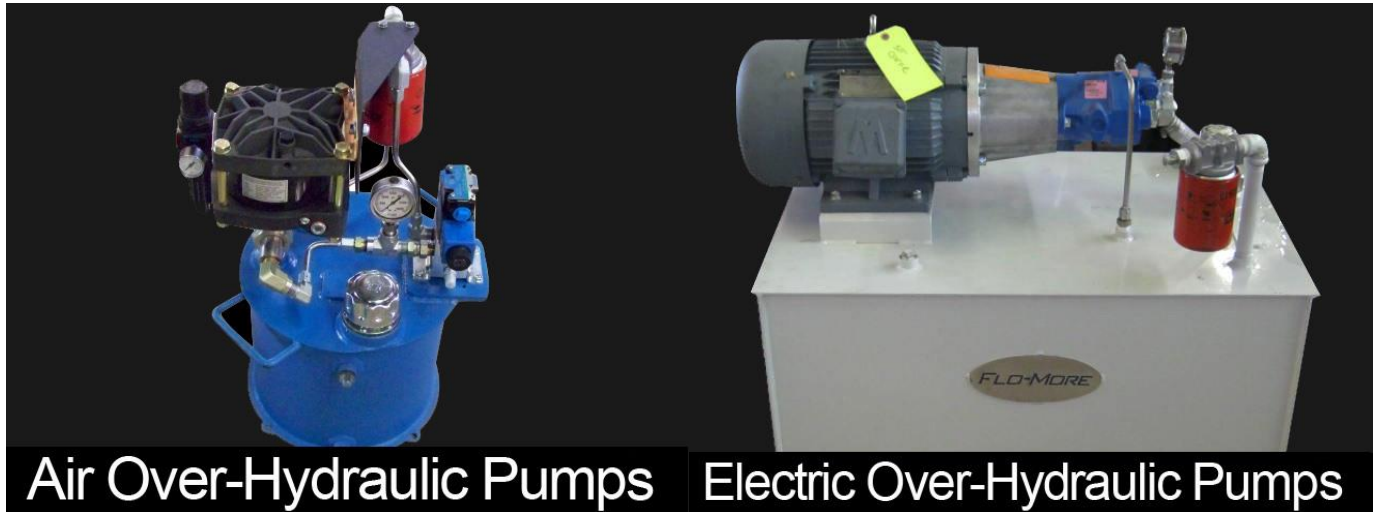
**Capacity:** Models available from 1,000 to 10,000 bushels per hour

**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)

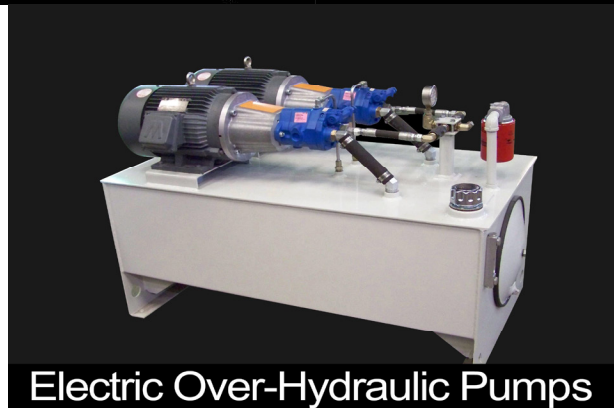


# The Flo-More Hydraulic Reservoirs and Pumps



Air Over-Hydraulic Pumps

Electric Over-Hydraulic Pumps



Electric Over-Hydraulic Pumps

**Applications:** Delivery of hydraulic oil pressure to hydraulic cylinders

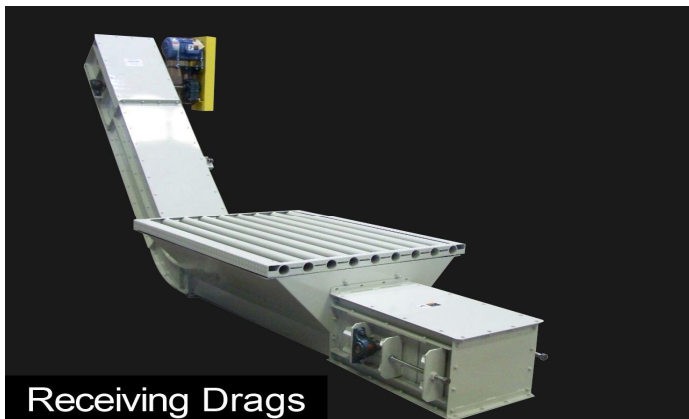
**Capacity:** Models available from 5.5 gallon to 100 gallons

**Features:**

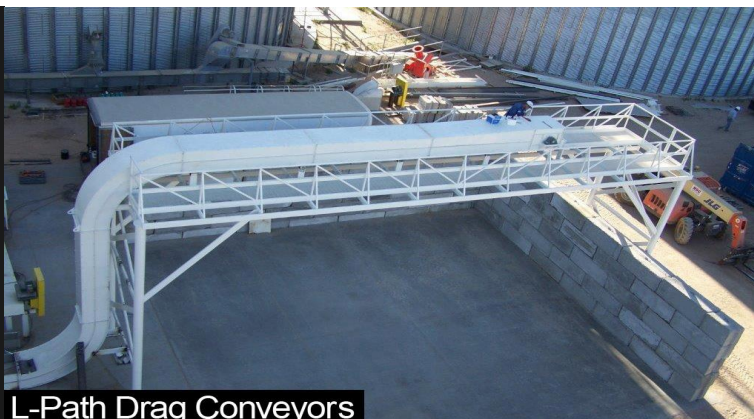
- Mild Reservoir
- Air over Hydraulic Pump
- -or- Vickers variable-volume pressure compensated inline piston pump
- TEFC 230/460/3/1750 motors
- Rated for 350 – 3000 PSI Hydraulic Pressure range
- Adjustable pressure compensator
- Suction filter
- Spin on return filter assembly
- Filler breather cap
- Manual or Electric valves
- Duplex pumps available



# The Flo-More Drag and Receiving Conveyors



Receiving Drags



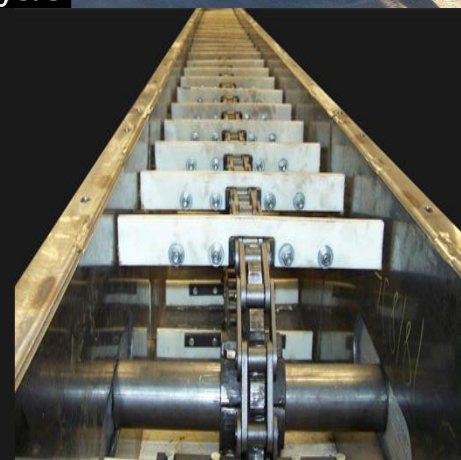
L-Path Drag Conveyors



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



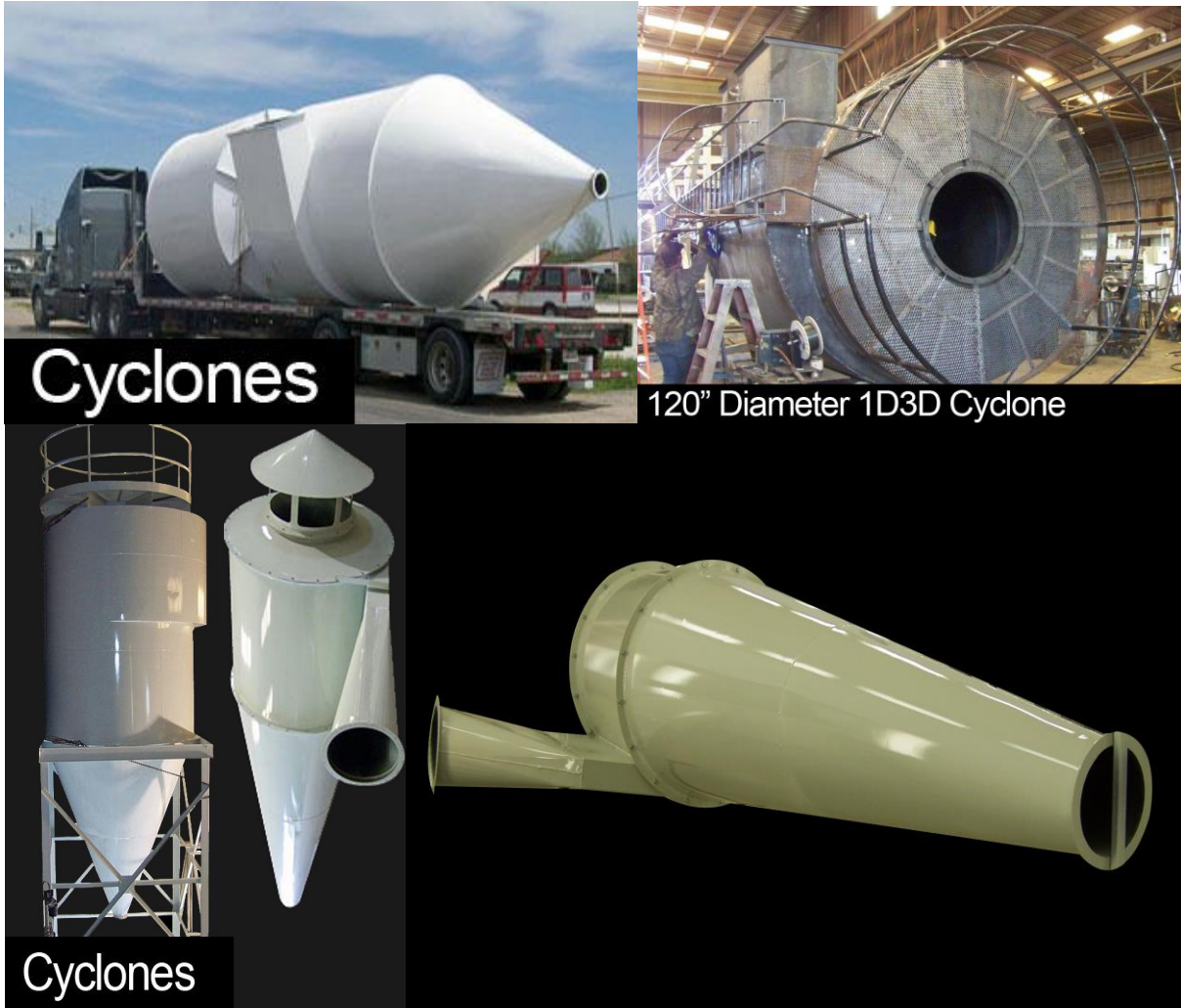
**Applications:** Storage Bins, Soak Bins, Load Out Bins, Surge Bins, Bagging Bins, Trash Bins, Micro Ingredient Bins, Scale Hoppers, Surge Hoppers

**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

## 15.Mix-Mill Products



# SENTRY 100 HAMMERMILL

The Sentry 100 is as an economical and efficient “Drop Through” Feed Processing Hammermill. Product inflow is through either a 6” or 4” diameter top inlet, which can be fitted with an optional slide gate and various hoppers. Magnets are mounted on the intake to remove ferrous material contaminants. The product discharge/outflow is by gravity through the bottom of the mill.

### Standard Features

- Rugged 18" Full Circle Grinding Chamber
- Heavy Duty Wear Plates (front & rear)
- 360- Degree 3/16" Screen (*other sizes from 1/16"-3/4" are available*)
- 15 Case Hardened, Beveled Hammers
- 6" Diameter Top Inlet
- Door Interlock Safety Switch
- Magnets
- Housing with Bottom Discharge

### Options

- Mill Motor
- 4" Diameter Top Inlet
- 4" or 6" Inlet Slide Gate

### Capacities

- Corn 7,000lbs/hr (3175 Kg/hr)
- Wheat 8,000lbs/hr (3900 Kg/hr)

*Based on 3/16" screen and 10 HP motor. Capacities will vary with the type and nature of the ingredient as well as the mill HP and screen opening size.*

### Electrical Requirements

Select according to your needs and your local power source. Single phase motors are available in 5, 7.5, or 10 HP. Three phase motors are available in 5, 7.5, 10, and 20 HP. NOTE: Rotation of single-phase motors may be reversed to equalize hammer and screen wear.

### Measurements

**Overall Length:** 30.000 in

**Overall Width:** 27.500 in

**Overall Height:** 35.500 in





# Sentry 130 Hammer Mill

Our Sentry 30hp Hammer Mills are designed with the larger operations in mind. The Sentry 130 comes with a 30 horsepower Baldor motor, top or side inlet and an 8" split screen with a multitude of screen sizes.

The mill also has 21 case hardened hammers.

The test results show up to 7.5 tons of ground corn per hour (depending on test weight and moisture) through a 3/13 screen.

The Sentry 130 Mill is a drop through mill.

## Standard Features

### Options

## Capacities

7.5 tons per hour through a 3/16 split screen (grinding capacities may vary on test weight and moisture)

## Electrical Requirements

30hp

3ph

3520 rpm

230/460 volts

68/34 amps

60 hz

## Measurements

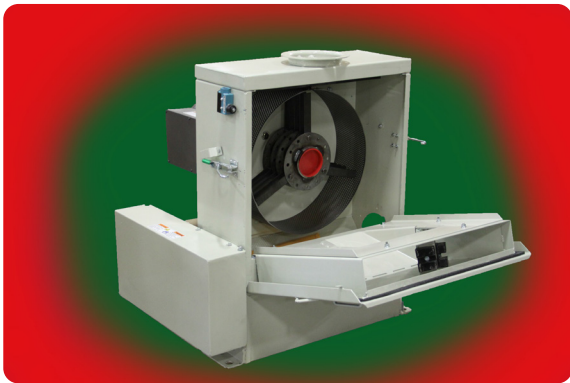
**Overall Length:** 37.625 in

**Overall Width:** 30.125 in

**Overall Height:** 35.000 in

**Weight:** 675.000 lbs





# SENTRY 1000 HAMMERMILL

The Sentry 1000 Feed Processing Hammermill is an economical and efficient 90 degree side discharge mill. Product is discharged with either 3 1/2" or 6" discharge augers to meet specific output capacity requirements. Product inflow is through either a 6" or a 4" top inlet, which can be fitted with an optional slide gate and various hoppers. Magnets are mounted on the intake to remove ferrous material contaminants.

## Standard Features

- Rugged 18" Full Circle Grinding Chamber
- Heavy Duty Wear Plates (front & rear)
- 360 – Degree 3/16" Screen (other sizes from 1/16" – 3/4" are available)
- 15 Case Hardened, Beveled Hammers
- 6" Diameter Top Inlet
- Door Interlock Safety Switch
- Housing with Side Discharge
- Base Auger Motor and Belt Guard

## Options

- Mill Motor
- 4" Diameter Top Inlet
- 4" or 6" Inlet Slide Gate
- 3 1/2" or 6" Auger Discharge Package

## Capacities

- Corn 7,000lbs/hr (3175 Kg/hr)
- Wheat 8,000lbs/hr (3900 Kg/hr)
- Based on 3/16" screen and 10 HP motor. Capacities will vary with the type and nature of the ingredient as well as the mill HP and screen opening size.

## Electrical Requirements

Select according to your needs and your local power source. Single phase motors are available in 5, 7.5, or 10 HP. Three phase motors are available in 5, 7.5, 10, and 20 HP. NOTE: Rotation of single-phase motors may be reversed to equalize hammer and screen wear.

## Measurements

**Overall Length:** 30.000 in

**Overall Width:** 27.500 in

**Overall Height:** 35.500 in



## Hyundai Premium Efficiency Motors from Worldwide Electric

HP	Frame	RPM	Voltage	Phase	Hz
1	143T	1800	208-230/460	3	60
1.5	145T	1800	208-230/460	3	60
2	145T	1800	208-230/460	3	60
3	182T	1800	208-230/460	3	60
5	184T	1800	208-230/460	3	60
7.5	213T	1800	208-230/460	3	60
10	215T	1800	208-230/460	3	60
15	254T	1800	208-230/460	3	60
20	256T	1800	208-230/460	3	60
25	284T	1800	208-230/460	3	60
30	286T	1800	208-230/460	3	60
40	324T	1800	208-230/460	3	60
50	326T	1800	208-230/460	3	60
60	364T	1800	208-230/460	3	60
75	365T	1800	208-230/460	3	60
100	405T	1800	208-230/460	3	60
125	444T	1800	208-230/460	3	60
<b>125</b>	<b>445T</b>	<b>1200</b>	<b>208-230/460</b>	<b>3</b>	<b>60</b>
<b>125</b>	<b>445T</b>	<b>1200</b>	<b>208-230/460</b>	<b>3</b>	<b>60</b>
150	445T	1800	208-230/460	3	60

**Hyundai Premium-Efficiency Motors Include the following standard features:**

CSA Approved  
 TEFC Enclosure  
 Class F Insulation  
 Rigid Base  
 Premium-Efficiency, meets or exceeds EISA 2007 requirements  
 3-Year Warranty (from WWE WAREHOUSE SHIPPING date)  
 NEMA Design B  
 Cast Iron Frame & Conduit Box  
 Suitable for wye-delta start (15HP through 250HP)  
 Inverter Ready, 10:1 CT / 20:1 VT  
 Class I, Division II, Groups A, B, C & D



## 17. Gear Box Reducers

### The "Original" Shaft Mount Reducer



- 15:1 and 25:1 ratios
- Box sizes 2-9
- Tapered bushing type (bushing not included)
- Ultra-high quality NSK bearings
- Tapered bearings - double lip seals
- Case hardened shafts and gears
- All cast iron housing
- Extended gear centers and tooth contact
- Metal reinforced double lip, spring loaded oil seals
- Dimensional drop-in for all major makes
- Torque arm included



### The "Ultimate" Shaft Mount Reducer

- 15:1 and 25:1 ratios
- Box sizes 2-9
- Tapered bushing type (bushing not included)
- Ultra-high quality NSK bearings
- Tapered bearings - double lip seals
- Case hardened shafts and gears
- All cast iron housing
- Extended gear centers and tooth contact
- Metal reinforced double lip, spring loaded oil seals
- Dimensional drop-in for all major makes
- Torque arm included





## **Roll Service**

Ferrell-Ross Roll Manufacturing operates a fleet of Field Service Trucks with experienced Field Service Technician crews to perform on-site Roll Changes and Maintenance on all makes and models of Feed Flaking, Oil Seed Flaking, Cereal Food Flaking Mills, and Roller, Cracking or Grinding Mills.

### **Flaking Mills and Roller Mills**

Many of our customers purchase a extra set of spare rolls and bearing housings which allows us to recondition their rolls prior to scheduled or unscheduled maintenance issues arise. This service translates to a minimum amount of downtime to get customers up and running again. Contact us for a fast quote on a set of Roll and Bearing Housing Assemblies for your Flaking Mill or Cracking Mill.

### **Geographic Areas of Operation**

Our Roll Service Trucks service customers throughout Arkansas, Missouri, Oklahoma, Texas, Kansas, Nebraska, Colorado, Wyoming and Arizona. Roll pickup and delivery is also available in all forty-eight via common carrier or our own Semi tractor-trailers in most states west of the Mississippi River. Roll Service Technicians are also available to assist or train your maintenance personal anywhere in the US, Canada, Mexico and South America with advance notice. We are bilingual.

### **Expedited Service Available**

Ferrell-Ross Roll Manufacturing also offers an expedited two-day Roll Service at our Hereford, Texas facility. We Service, Repair, Grind & Corrugate any make or model of Flaking Roll or Cracking Roll. Turnaround time depends on the condition of the rolls and the depth of corrugation. In most cases we can precision grind and re-corrugate your rolls in about two days with an appointment. To schedule an appointment in-house Two-Day Roll Reconditioning Service or to request a service estimate, Call (806) 364-9051

### **Well Stocked Parts Department**

Our Parts Department carries most of the common replacement items for Ferrell-Ross Flaking Mills and Roller Mills and are available for same day expedited shipping. Orders in by 2:00 PM CST ship the same day. Although, in an emergency we will make every effort to ship your parts for next day delivery no matter how late it is. For additional information on our wide-range of Roller Mill, Flaking Mill, Mill and Elevator 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 produces quality products for Feed, Food, and Industrial applications. We manufacture, sell and service machinery used to process, condition, and convey Animal Feeds, Vegetable/Seed Oils, Edible Cereals, Food Ingredients, Grains, Seeds, Spices, Chemicals, Minerals, Plastics, Wastes, and other Powders and Bulk Materials. We also provide Millwright and Construction Service to the industry.

**We offer the following products and services from our Hereford, Texas facility:**

**Chilled Iron Rolls  
Roller Mills  
Flaking Mills  
Cereal Mills  
Cracking Mills  
Pellet Crumblers  
Hammer Mills**

**Steam Chests  
Pellet and Flake Coolers  
Vertical Coolers  
Horizontal Coolers  
Cooler/Dryer Combinations**

**Horizontal Ribbon Mixers  
Continuous Mixers  
Paddle Mixers  
Mixing Augers  
Sanitary Mixers  
Custom-Built Blenders**

**Vibratory Feeders  
Roll Feeders  
Pin Feeders  
Rotary Vane Feeders**

**Ferrell-Ross designs and  
builds complete facilities  
from Green Field to Start-Up.**

**Gyratory Classifiers  
Gravity Scalpers  
Rotary Scalpers  
Rotary Cleaners  
Sifters  
Clipper Seed Cleaners  
Clipper Grain Cleaners  
In-Line Air Cleaners  
Replacement Screens &  
Sieves**

**Pneumatic Conveyors  
Screw Conveyors  
Inclined Screw Conveyors  
Sanitary Screw Conveyors  
Mixing and Blending Augers  
Belt Conveyors  
Drag Conveyors  
Elevator Legs**

**De-Bearders  
De-hullers & Scarifiers  
Cyclones, Dust Collectors  
Fabricated Steel Bins  
Custom Catwalks and  
Bridges**

**Hard Car Unloader Systems**



### **Ferrell-Ross Roll Manufacturing Inc.**

102 FM2856 (Holly Sugar Road), Hereford, TX 79045

Tel: 800-299-9051 or 806-364-9051 - Fax: 806-364-8853

See our products at: [www.ferrellross.com](http://www.ferrellross.com) - Email us at [sales@ferrellross.com](mailto:sales@ferrellross.com)

# **WARRANTY**

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

<b><u>FERRELL-ROSS</u></b>	Roller Mills, Flaking Mills, Cereal Mills, Industrial Mills, Flake and Pellet Coolers, Crumbler and Replacement Rolls
<b>Clipper</b>	Grain and Seed Cleaners
<b><u>FLO-MORE</u></b>	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.





**COMPLETE PROCESS  
SOLUTION PROVIDER**



**WE PROVIDE  
COMPLETE SYSTEMS**

**Ferrell-Ross Roll Manufacturing Inc.  
3690 FM 3690, Hereford-TX 79045**

**T: 806-364-9051 F: 806-364-8853 E: [sales@ferrellross.com](mailto:sales@ferrellross.com) [www.ferrellross.com](http://www.ferrellross.com)**