Presenting the “FOREVER” Grain and Grass Seed Cleaner

The most essential machine for seed-selection and commercial cleaning. Cleans and grades all course grains, flax, rape, corn, peas, beans and all vegetable and grass seeds.

STEEL CONSTRUCTION
SEALED BALL BEARINGS
FORCE FEED HOPPER
ACCURATE FEED CONTROL
DOUBLE ECCENTRICS – V BELT DRIVES
BALANCED SUCTION AND VERTICAL AIR – SPEED AND VALVE CONTROLLED
EASY CLEAN OUTS – 12 SCREENS SUPPLIED
SCREEN WIPERS UNDER ALL SCREENS

COMPARSE THESE FEATURES: WITH ANY OTHER MAKE OF CLEANER AND YOU WILL FIND THE “FOREVER” BEST VALUE FOR YOUR MONEY.

Manufactured by:
FOREVER INDUSTRIES (1971) LTD.

1673 DUGALD RD., WINNIPEG, MAN. R2J 0H3 PH. 247-8573
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<td>LIST OF SOME PRESENT OWNERS</td>
<td>22</td>
</tr>
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"Standard Models"

SIZES 30" - 36" - 42" - 48"

WITH DOUBLE FEED ROLLERS

VERTICAL AIR FAN AND SCREENING COLLECTOR
OPERATING DETAILS
STANDARD MODELS (WITH SCREENING COLLECTOR ATTACHED)

Placing Arrangement of Screens “EXCLUSIVE” in “FOREVER CLEANERS”

COARSE GRAIN cleaning: Use as Scalping screens A2 - A3
Screening screens A1 - A4 with dividing floor A5 down. This provides 36” Scalping and 54” Screening screen surface.

SMALL SEEDS cleaning: Use as Scalping screens A1 - A2 - A3
Screening screen A4 with dividing floor A5 up. This provides 54” Scalping and 36” Screening screen surface.

Screen Wipers under all screens to keep perforation of screens open.
Mechanical driven.

10 top and 2 bottom screens are supplied with machine.

<table>
<thead>
<tr>
<th>Wheat Cap. per Hour in Bushels</th>
<th>Seed</th>
<th>Commercial</th>
<th>Engine H.P. Req.</th>
<th>Electric H.P. Req.</th>
<th>Speed R.P.M.</th>
<th>Dimensions of Machines and Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 30”</td>
<td>35-40</td>
<td>40-60</td>
<td>1</td>
<td>3/4</td>
<td>All sizes</td>
<td>Drive Pulley</td>
</tr>
<tr>
<td>Size 36”</td>
<td>45-50</td>
<td>60-72</td>
<td>1.1 &amp; 2</td>
<td>1</td>
<td>400 to</td>
<td>16”</td>
</tr>
<tr>
<td>Size 42”</td>
<td>55-60</td>
<td>70-80</td>
<td>2</td>
<td>1</td>
<td>420</td>
<td>16”</td>
</tr>
<tr>
<td>Size 48”</td>
<td>65-70</td>
<td>80-90</td>
<td>2</td>
<td>1.1 &amp; 2</td>
<td>1,000 lbs.</td>
<td>16”</td>
</tr>
</tbody>
</table>

1 Force Feed Hopper equipped with 2 Feed Rollers
2 Feed roller distributes seed in hopper
3 Feed roller feeds seed through feed gate opening
4 Feed gate is adjustable to any variety of seed
A Shakershoe vibrates screens A1 - A2 - A3 - A4 for GRADING and Selecting Seed by Size and carries Seed to Vertical Air Channel for final grading by weight
A5 Dividing floor to be used in connection with placing screens
Ball-bearing Eccentrics operating Shakershoe (Endshake)
Screen wipers are provided to keep screens from clogging.
Mechanical driven.

A6 - A7 Screening Spouts carry rejected coarse and fine screenings to side of machine into side screenings collector (see photo)
B - Vertical Air Fan is regulated by step pullies in order that the speed can be controlled to produce more or less air
B1 - Air shut-off to control the air volume between fan and vertical air channel
Vertical Air Channel - Seed entering vertical air channel from shakershoe is GRADED by WEIGHT according to air volume applied
Light seeds are blown upwards into air screening collector. Dust is blown out
Heavy FULL WEIGHT Kernels pass through the air stream to clean seed auger for delivery to Elevator or Bin
### OPERATING INSTRUCTIONS

**STANDARD MODELS (WITH SCREENING COLLECTOR ATTACHED)**

#### POWER REQUIREMENTS

- ¾-1 ½ H.P. depending on size of model.
- Motors total enclosed
- Overload protected
- 110-220 Volt, single phase or three phase as power is available.
- **MOTOR SPEED**
  - 1725 R.P.M.
- Motor pulley 3 ½" to 4" adjustable "B" section

#### PLACING ARRANGEMENT OF SCREENS IN SHAKER SHOE

- **Coarse Grain Cleaning**
  - Use as screening Screens A2 - A3
  - Screening Screens A1 - A4 with floor No. 5 down, thus providing 36" scalping and 54" screening screen surface.
- **Flax, Rape and Small Seeds cleaning**
  - Use as screening Screens A1 - A2 - A3
  - Screening Screens A4 with floor No. 5 up, thus providing 54" scalping and 36" screening screen surface.

#### REGULATING VERTICAL AIR FAN

**Speed and Valve controlled**

- Different varieties of seed need different air applications.
- Adjust speed of fan accordingly.
- Blow until light, inferior seeds are carried by air into the air screenings collector.
- Change speed of fan on Step Pullies and regulate in-between pressure with air valve by opening or closing.
- It is better to have less speed on fan and air valve open than more speed and air valve closed.

### SPEED OF CLEANER

- Speed on eccentric shaft
  - 420 R.P.M.
- Regulate speed on adjustable motor pulley.
- Pulley on cleaner drive 16" single groove "B"

### SETTING UP CLEANER

- Install machine on solid floor and set level. Bolt down.

### FEEDING OF CLEANER

- After proper screen selection is made, feed until 2/3 of screens are covered.
- Do not carry good seed over screens.

### SELECTION OF SCREENS

**Scalping Screens:**

- Select as small a perforation as possible.

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Round</th>
<th>Slotted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11-12</td>
<td>13-14</td>
</tr>
<tr>
<td>Barley</td>
<td>14-15</td>
<td>16-17</td>
</tr>
<tr>
<td>Oats</td>
<td>18-20</td>
<td>8 x ¾</td>
</tr>
<tr>
<td></td>
<td>9 x ¾</td>
<td></td>
</tr>
<tr>
<td>Flax</td>
<td>7/8</td>
<td>3 ½ x ¾</td>
</tr>
<tr>
<td></td>
<td>4 x ¾</td>
<td>5</td>
</tr>
<tr>
<td>Alfalfa</td>
<td>5 ½-6</td>
<td>wire</td>
</tr>
<tr>
<td>Peas</td>
<td>20-22</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>9 x ¾</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10  ¾</td>
</tr>
</tbody>
</table>

**Screening Screens:**

- Select as large a perforation as possible.

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Round</th>
<th>Slotted</th>
<th>Triangular</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 ½ x ¾</td>
<td>5 x ¾</td>
<td>small</td>
</tr>
<tr>
<td></td>
<td>5 x ¾</td>
<td>6 x ¾</td>
<td>med.</td>
</tr>
<tr>
<td>Barley</td>
<td>5 ½ x ¾</td>
<td>6 x ¾</td>
<td>large</td>
</tr>
<tr>
<td>Oats</td>
<td>4 ½ x ¾</td>
<td>5 x ¾</td>
<td>small</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>med.</td>
</tr>
<tr>
<td>Flax</td>
<td>3 ½ x ¾</td>
<td>5</td>
<td>wire</td>
</tr>
<tr>
<td></td>
<td>4 x ¾</td>
<td>5 ½</td>
<td></td>
</tr>
<tr>
<td>Alfalfa</td>
<td></td>
<td></td>
<td>4 x 22</td>
</tr>
<tr>
<td>Peas</td>
<td>20-22</td>
<td>24</td>
<td>4 x 24</td>
</tr>
</tbody>
</table>

**NOTE:**

- Air-screenings blown by the vertical air fan into the screening-collector can be regulated by adjusting air-speed on fan and air-valve to the desired amount wanted to be blown out.

**DUST**

- Can be blown outside by connecting a pipe to air-screening outlet.
- Do not restrict this outlet by using a smaller pipe. Use 45° elbows.

**GOOD SCREEN SELECTION IS HALF THE CLEANING.**

Submit small samples for testing.
DUSTLESS MODELS
SIZES 36"-42"-48"
WITH DOUBLE FEED ROLLERS VERTICAL AIR FAN AND SCREENING COLLECTOR
OPERATING DETAILS

DUSTLESS MODELS 36” 42” 48”

10 TOP AND 2 BOTTOM SCREENS ARE SUPPLIED WITH MACHINE

<table>
<thead>
<tr>
<th>Wheat Cap per Hour in Bushels</th>
<th>Seed</th>
<th>Commercial H.P. Req.</th>
<th>Electric H.P. Req.</th>
<th>Eccentric Shaft R.P.M.</th>
<th>Suction Fan-Speed R.P.M.</th>
<th>Drive Pulley</th>
<th>Dimensions of Machines &amp; Weights</th>
<th>Screen Frame Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 36 in.</td>
<td>50-60</td>
<td>2½</td>
<td>2</td>
<td>400</td>
<td>800</td>
<td>12”-“</td>
<td>7”2”-” 6”-“ 5”-“ 9’3”-</td>
<td>A1,A2,A3 A4</td>
</tr>
<tr>
<td>Size 42 in.</td>
<td>60-70</td>
<td>3½</td>
<td>3</td>
<td>360</td>
<td>800</td>
<td>12”-“</td>
<td>7”2”-” 6”-“ 5”-“ 9’3”-</td>
<td>18”x36” 36”x36”</td>
</tr>
<tr>
<td>Size 48 in.</td>
<td>70-90</td>
<td>3½</td>
<td>3</td>
<td>410</td>
<td>900</td>
<td>12”-“</td>
<td>7”2”-” 6”-“ 6”-“ 9’3”-</td>
<td>18”x42” 36”x42”</td>
</tr>
</tbody>
</table>

1. Force feed hopper
2. Agitator
3. Feed roller
4. Feed gate
5. Feed trough
6. Suction Air Channel
7. Settling Chamber
8. Suction Auger
9. Suction Air Valve
10. Suction Fan
11. Air Volume Control
12. Vertical Air Fan
13. Vertical Air Fan Control
14. Air Screening Collector and Dust Outlet
15. Air Vent
16. Dust Outlet

- Equipped with feed roller and agitator.
- Distributes seed in hopper.
- Feeds seed through feed gate opening.
- Adjustable to all varieties of seed.
- Delivers seed to suction air channel.
- Separates seed by weight—removes inferior seeds and weeds (Air screenings).
- Receives and settles Air screenings.
- Delivers Air screenings to side of machine.
- Controls air suction in channel 6 for more or less air.
- Creates air suction and blows Dust outside.
- Controls the amount of air warranted in cleaning different varieties of seed.
- For final grading of seed by weight.
- Works together with fan speed in adjusting Air screenings blown into Air screening collector.
- Must pull a little air in—open or close air volume control valve 11 and adjust vertical air valve 13.
- When leading out do not restrict by using smaller pipe.
## OPERATING INSTRUCTIONS

### POWER REQUIREMENTS

- **2-3 H.P.** Motor total enclosed, overload protected 110-220 Volt single phase or three phase where power is available.
- Motor Speed 1725 R.P.M.
- Motor Pulley 6” diam. double V-Belt.
- Motor to be mounted on provided base.

### SPEED OF CLEANER

- **Suction Fan** 900 R.P.M.
- **Eccentric Shaft** 410 R.P.M.

  - This eccentric speed can be regulated with adjustable pulley on suction shaft.

### SETTING UP CLEANER

- Install machine on solid floor and set level. Bolt down.

### FEEDING OF CLEANER

- After proper screen selection is made, feed until 2/3 of screens are covered.
- Do not carry good seed over screens.

### PLACING ARRANGEMENTS OF SCREENS IN SHAKER SHOE

Coarse Grain Cleaning — Use as
Scalping Screens A2 - A3
Screening Screens A1 - A4 with floor No. 5 down, thus providing 36” scalping and 54” screening screen surface.

Flax, Rape and Small Seeds cleaning — Use as
Scalping Screens A1 - A2 - A3
Screening Screens A4 with floor No. 5 up, thus providing 54” scalping and 36” screening screen surface.

### SELECTION OF SCREENS

<table>
<thead>
<tr>
<th>Scalping Screens:</th>
<th>Screening Screens:</th>
<th>Speed and valve controlled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select as small a perforation as possible.</td>
<td>Select as large a perforation as possible.</td>
<td>Different varieties of seed need different air applications.</td>
</tr>
<tr>
<td><strong>Wheat</strong></td>
<td><strong>Round</strong></td>
<td><strong>Slotted</strong></td>
</tr>
<tr>
<td>11-12</td>
<td>4½ x ⅜</td>
<td>5 x ⅜</td>
</tr>
<tr>
<td>13-14</td>
<td>5 x ⅜</td>
<td>5⅞ x ⅜</td>
</tr>
<tr>
<td><strong>Barley</strong></td>
<td>14-15</td>
<td>5⅛ x ⅜</td>
</tr>
<tr>
<td>16-17</td>
<td>5⅛ x ⅜</td>
<td>9</td>
</tr>
<tr>
<td><strong>Oats</strong></td>
<td>18-20</td>
<td>4½ x ⅜</td>
</tr>
<tr>
<td>19-20</td>
<td>5 x ⅜</td>
<td>10</td>
</tr>
<tr>
<td><strong>Flax</strong></td>
<td>7-8</td>
<td>4⅞ x ⅜</td>
</tr>
<tr>
<td>9-10</td>
<td>5⅛ x ⅜</td>
<td>10</td>
</tr>
<tr>
<td><strong>Alfalfa</strong></td>
<td>5½-6</td>
<td>5⅞ x ⅜</td>
</tr>
<tr>
<td>7-8</td>
<td>6 x ⅜</td>
<td>11</td>
</tr>
<tr>
<td><strong>Peas</strong></td>
<td>20-22</td>
<td>8 x ⅜</td>
</tr>
<tr>
<td>20-22</td>
<td>9 x ⅜</td>
<td>11</td>
</tr>
</tbody>
</table>

Good screen selection is half the cleaning. Submit small samples for testing.

### SETTING OF SUCTION AIR READ WITH CARE

There are two settings to be made.

**FIRST**
- the Air Volume Valve No. 11.
- By opening or closing this Valve the AIR VOLUME produced by the SUCTION FAN is increased or decreased.

**SECOND**
- Valve to the variety of seed to be cleaned:
  - COARSE GRAIN open.
  - FLAX, RAPE more or less half open.
  - SMALL SEEDS, closed to partly open.
- the AIR CHANNEL VALVE No. 9.
- By opening or closing this Valve the draw of air in the suction channel No. 6 is regulated.
- This Valve in open position when starting to operate, then close until you stop pulling good grain into the settling chamber No. 7.

**Check**
- Sample on suction auger outlet No. 8.
- Suction should be re-adjusted after awhile.

### REGULATING VERTICAL AIR FAN

- Speed and valve controlled.
- Different varieties of seed need different air applications.

**ADJUST**
- speed of fan accordingly. Blow until light, inferior seeds are carried by air into the air screenings collector.

**CHANGE**
- speed of fan on Step Pullies and regulate in-between pressure with air valve by opening or closing.
- It is better to have less speed on fan and air valve open than more speed and air valve closed.
DUSTLESS MODEL
SIZE 54"
WITH DOUBLE FEED ROLLERS VERTICAL AIR FAN AND SCREENING COLLECTOR
### OPERATING DETAILS

**DUSTLESS MODEL 54”**

8 SCALPING SCREENS  
2 SMALL SCREENING SCREENS AND 2 LARGE SCREENING SCREENS  
SUPPLIED WITH MACHINE.

<table>
<thead>
<tr>
<th>Wheat Cap per Hour in Bushels</th>
<th>Seed</th>
<th>Commercial</th>
<th>Engine H.P. Req.</th>
<th>Electric H.P. Req.</th>
<th>Eccentric shaft R.P.M.</th>
<th>Suction Fan-Speed R.P.M.</th>
<th>Drive Pulley</th>
<th>Extreme Fan Hgt.</th>
<th>Hopper Height</th>
<th>Total Width</th>
<th>Total Length</th>
<th>Approx. Weight</th>
<th>Screen Frame Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 54 in.</td>
<td>90-110</td>
<td>100-150</td>
<td>3-5</td>
<td>3-5</td>
<td>400-410</td>
<td>900</td>
<td>12”</td>
<td>8’2”</td>
<td>7’9”</td>
<td>7’</td>
<td>9’10”</td>
<td>2,000 lbs.</td>
<td>A1,A2,A3,A4,A5</td>
</tr>
</tbody>
</table>

1. Force feed hopper  
2. Agitator  
3. Feed roller  
4. Feed gate  
5. Feed trough  
6. Shaker  
7. Suction Air Channel  
8. Settling Chamber  
9. Suction Auger  
10. Suction Air Valve  
11. Suction Fan  
12. Air Volume Control  
13. Vertical Air Fan  
14. Vertical Air Fan Control  
15. Air Screening Collector and Dust Outlet  
16. Air Vent  
17. Dust Outlet

*Note: Air Vent pulls in air — adjust air volume control valve 12 and vertical air valve 14. When leading out do not restrict by using smaller pipe.*
OPERATING INSTRUCTIONS
DUSTLESS MODEL 54"

Selection of Screens

<table>
<thead>
<tr>
<th>Scalping Screens:</th>
<th>Screening Screens:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select as small a perforation as possible.</td>
<td>Select as large a perforation as possible.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Round</th>
<th>Slotted</th>
<th>Round</th>
<th>Slotted</th>
<th>Triangular</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>11-12</td>
<td>13-14</td>
<td>4½ x ½</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 x ½</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5½ x ½</td>
<td>11</td>
</tr>
<tr>
<td>Barley</td>
<td>14-15</td>
<td>16-17</td>
<td>5 x ½</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5½ x ½</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6 x ½</td>
<td>11</td>
</tr>
<tr>
<td>Oats</td>
<td>18-20</td>
<td>8 x ¾</td>
<td>4½ x ½</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 x ¾</td>
<td>10</td>
</tr>
<tr>
<td>Flax</td>
<td>7-8</td>
<td>³½ x ½</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 x ½</td>
<td>5½</td>
</tr>
<tr>
<td>Alfalfa</td>
<td>5½-6</td>
<td>wire</td>
<td>4 x 22</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 x 24</td>
<td></td>
</tr>
<tr>
<td>Peas</td>
<td>20-22</td>
<td>8 x ¾</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>9 x ¾</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Good screen selection is half the cleaning. Submit small samples for testing.

PLACING ARRANGEMENT OF SCREENS IN SHAKER SHOE

Coarse Grain Cleaning — Use as
Scalping Screens No. 2 - 4
Screening Screens No. 1 - 3 - 5 with floor No. 6 down, thus providing 36” scalping and 90” screening screen surface.
Flax, Rape and Small Seeds cleaning — Use as
Scalping Screens No. 1 - 2 - 4
Screening Screens No. 3 - 5 with floor No. 6 up, thus providing 54” scalping and 72” screening screen surface.

REGULATING – SUCTION AIR

There are two settings to be made.
FIRST Set the Air Volume Valve. By opening or closing this Valve the AIR VOLUME produced by the SUCTION FAN is increased or decreased.
Second Set Valve to the variety of seed to be cleaned:
- COARSE GRAIN open.
- FLAX, RAPE more or less half open.
- SMALL SEEDS, closed to partly open.

REGULATING – VERTICAL AIR FAN

Different varieties of seed need different air applications.
ADJUST speed of fan accordingly. Blow until light, inferior seeds are carried by air into the air screenings collector.
CHANGE speed of fan on Step Pulleys and regulate in-between pressure with air valve by opening or closing. It is better to have less speed on fan and air valve open than more speed and air valve closed.

POWER REQUIREMENTS

3 H.P. Motor total enclosed, overload protected 110-220 Volt single phase or three phase where power is available.
Motor Speed 1725 R.P.M.
Motor Pulley 5-6” adj. double V-Belt. Motor to be mounted on provided base.

SPEED OF CLEANER

On Suction Fan 880 - 910 R.P.M.
On Eccentric Shaft 400 - 410 R.P.M.
This eccentric Speed can be regulated with adjustable pulley on motor shaft.

SETTING UP CLEANER

Install machine on solid floor and set level. Bolt down. Avoid vibration.

FEEDING OF CLEANER

After proper screen selection is made, feed until 2/3 of screens are covered. Do not carry good seed over screens.

CLEANING COARSE GRAINS

Use:
- 2 Scalping Screens
- 3 Screening Screens
Return Floor DOWN

CLEANING FLAX & SMALL SEEDS

Use:
- 3 Scalping Screens
- 2 Screening Screens
Return Floor UP
Forever Scalpers
SIZES 42”-48”-54”
SCREEN WIDTH SIZES
WITH FEED ROLLER
AND AGITATOR
OPERATING DETAILS

SCALPERS
42"-48"-54"

<table>
<thead>
<tr>
<th>Wheat Cap per Hour in Bushels</th>
<th>Seed</th>
<th>Grain</th>
<th>Engine H.P. Req.</th>
<th>Eccentric Shaft R.P.M.</th>
<th>Suction Fan Speed R.P.M.</th>
<th>Dimensions of Machines &amp; Weights</th>
<th>Screen Frame Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 42 in.</td>
<td>45</td>
<td>90</td>
<td>1</td>
<td>400</td>
<td>800</td>
<td>5' x 9'11&quot; 950 lbs.</td>
<td>42&quot; x 36&quot;</td>
</tr>
<tr>
<td>Size 48 in.</td>
<td>60</td>
<td>120</td>
<td>2</td>
<td>to</td>
<td>to</td>
<td>5'6&quot; x 9'11&quot; 1000 lbs.</td>
<td>48&quot; x 36&quot;</td>
</tr>
<tr>
<td>Size 34 in.</td>
<td>75</td>
<td>150</td>
<td>3</td>
<td>410</td>
<td>900</td>
<td>6' x 9'11&quot; 1100 lbs.</td>
<td>54&quot; x 36&quot;</td>
</tr>
</tbody>
</table>

1 to 11
12 — Screening outlet from screen separation.
13 — Grain outlet.
14 — Scalping outlet.
A1 — 36" Screening screen.
A2 — 36" Scalping screen.

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OPERATING INSTRUCTIONS
SCALPERS - 42" - 48" - 54"

Descriptions and Uses

The scalper is basically designed for the removal of screenings and roughage. The machine is beneficial as an aid in upgrading commercial grain, which not only may result in a higher price per bushel, but also saves the producer's screenings plus the freight to market.

Scalpers have also been utilized by seed plant operators as pre-cleaners of grain and seed. After the grain or seed has been pre-cleaned it is fed into a normal cleaner. The cleaner now works closer to full capacity because the flow of grain or seed is more even and steady because the machine does not have to contend with the large volume of roughage or screenings which would have been removed during the scalping operation.

Operation

The grain or seed is fed into the shakershoe which has two 36" screens. The first screen is used for screening and the second screen is used for scalping.

Four (4) screens of different perforations are supplied with each machine. During operation, the screens are kept clean by mechanically driven rubber scrapers.

Outlets for screenings and grain or seed can be supplied to deliver to left or right side of machine as seen from the hopper. 

Note: When ordering please specify either left or right hand delivery otherwise we will supply a machine with a left hand delivery.
Special Models
SIZES-24"-30"-36"
BUILT UPON REQUEST ONLY
OPERATING DETAILS

SPECIAL MODELS - 24'' - 30'' - 36''

A standard set of 11 screens for wheat, oats, barley and all V belts are supplied with each unit.

GENERAL DESCRIPTION

A - Hopper.
A-1 - Feed Roller and agitator - distributing the grain in Hopper and throgh the Feedgate.
A-2 - Feedgate Control - has single adjusting handle for setting the feed.
B - Shakershoe or Riddle - is built to withstand vibration and has endshake.
B-1 and B-2 - Scalping Screens - are interchangeable and take out large weeds.
B-3 - Scalping Spout discharges scalplings to the side of the machine.
B-4 - Returnfloor - delivers grain going through scalpers to the screening screens.

BALL-BEARINGS ON ALL MAIN-DRIVES

B-5 and B-6 - Screening Screens - are interchangeable and take out small weeds.
B-7 - Screening Spout - discharges screenings to the side of the machine.
C - Drive for RUBBER SCRAPERS to keep screening screens from clogging. Scrapers under screening screens only.
D - Vertical Air Fan - adjustable to different speeds for the different varieties of grain.
E - Vertical Air Channel - grades the grain and carries in its adjusted air current, inferior grain and weeds upwards and out of the machine.
F - Single Eccentric Drive - is connected to Shakershoe.

Wheat Cap. per Hour in Bushels | Commercial | Engine H.P. Req. | Electric H.P. Req. | Speed R.P.M. | Drive Pulley | Dimensions of Machines and Weights
--- | --- | --- | --- | --- | --- | ---
Size 24 in. | 15-20 | 20-25 | 1 | 1/2 | 360 | 8 in. | Height 54 in. | Width 44 in. | Length 64 in. | Approx. Weight 360 lbs.
Size 30 in. | 20-25 | 25-30 | 1 | 1/2 | to 8 in. | 54 in. | 50 in. | 64 in. | 420 lbs.
Size 36 in. | 25-30 | 30-35 | 1 | 1/2 | 400 | 8 in. | 54 in. | 56 in. | 64 in. | 520 lbs.
OPERATING INSTRUCTIONS

SPECIAL MODELS - 24” - 30” - 36”

Set machine level on solid ground and fasten down.
Speed of machine on Main drive 380-400 R.P.M.

Selecting Screens:
Top screens are the screens to remove all larger material than the grain or seed to be cleaned. These screens should always be selected as small as possible, but yet large enough not to scalp good grain overscreens. There are two scalping screens used in the machine.

Screening Screens:
Bottom screens are the screens to remove all fine seeds. These screens should always be selected as large as possible, but yet small enough not to let good grain or seed pass through them. There are two bottom screens used in the machine.

General Selection of Screens:

<table>
<thead>
<tr>
<th>Grain</th>
<th>Scalpers</th>
<th>Screenings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>No. 10, 11, 12, 13 round perforation, depending on size of wheat. 5 x ¾ and 5½ x ¾</td>
<td>No. 14, 15, 16 round perforation. No. 5 x ¾ and 5½ x ¾</td>
</tr>
<tr>
<td>Barley</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Oats:
Scalpers No. 9 x ¾ slotted, No. 20 or 18 round perforation.
Screenings No. 5 x ¾ slotted, 4½ x ½ slotted

Alfalfa:
Scalpers No. 5½, 5 round perforation.
Screenings No. 4 x 24 or 6 x 26 wire.

After the proper screen selections are made, the Air Blast is to be regulated according to the grain or seed to be cleaned.

Adjustment of Air Blast:
First, closed the Air valve on front of the machine by pushing the lever in.
After that, see how much grain you blow over at the back of the machine.
If you take out too much, re-open the valve until the proper air is found.
If you still have too much air, regulate the speed of the fan by changing the V belt on pulleys.
The Step pulleys are interchangeable.
In coarse grain, the large pulley is used on the Main drive and the small pulley on the fan drive. For flax and other smaller seeds the pulleys must be reversed.
SCREENS AND PERFORATED ZINC

THIS IS IMPORTANT!

WHEN ORDERING THIS TYPE OF MATERIAL BE SURE
TO STATE LENGTH AND WIDTH REQUIRED.

ROUND PERFORATIONS

TRIANGULAR PERFORATIONS
WHEN ORDERING THIS TYPE OF MATERIAL BE SURE TO STATE LENGTH AND WIDTH REQUIRED

IF YOU MAIL US A ONE POUND SAMPLE OF GRAIN WITH YOUR ORDER WE WILL SELECT SUITABLE SCREENS FOR YOUR PARTICULAR REQUIREMENTS

SLOTTED PERFORATIONS

WIRE MESH
Our Standard Elevators are of the Belt and Bucket type and therefore will not damage the seed. They are supplied in any length desired.

These Elevators are equipped with a Flexible Spout on the Grain Outlet and are provided with Belt Take Up Bearings, a Clean-out Gate at the bottom as well as a conveniently placed Inspection Gate. All elevators are V Belt driven.

The Elevator Hood may be lifted off by simply loosening a few bolts.

The length of elevators as per our price list is overall length and can be supplied in wood or metal — Capacity range 75 to 150 bushels per hour.

ELEVATORS OF LARGER CAPACITIES CAN BE SUPPLIED
In your enquiries, please state overall length and hourly capacity.
Who has one or several
"FOREVER" Grain and Seed Cleaners?

MANITOBA
Arborg
Arborg
Argyle
Brunkild
Carman
Crystal City
Cypress River
Dufrost
Domain
Dauphin
Dugald
Elphinstone
Gretna
Grandview
Green Oak
Killarney
Lac du Bois
Neepawa
Oak River
Petersfield
Plum Coulee
Portage la Prairie
Pine River
Reston
Rosser
Russell
Rossbach
St. Joseph
St. Jean Baptiste
Starbuck
Swan River
Shoal Lake
Winnipeg

SASKATCHEWAN
Abernathy
Aylesham
Canora
Corning
Edgley
Esten
Glen Ewen
Goven
Indian Head
Janzen
Kindersley
Kinistino
Lemberg
Lorley
McTaggart
Medstead
Nokomis
Naicam
Nipawin
Outram
Preeceville
Prince Albert
Rouleau
Redvers
Regina
Riceton
Rosthern
Saltcoats
Stoughton
Tribune
Tyner
Watson
Watson
Watrous
Weyburn
Wynyard
Wolseley
Yarbow
Yellow Grass
Zealandia

ALBERTA
Arrowwood
Berwyn
Big Valley
Benalto
Bymore
Cayley
Didsbury
Ezikon
Fort McLeod
Gwynne
Kelsey
Legal
Lacombe
Magrath
Picture Butte
Penhold
Rosemary
Red Deer

OTHER NAMES
Can be given on request.
OPERATING DETAILS

DUSTLESS MODELS 36" 42" 48"

10 TOP AND 2 BOTTOM SCREENS ARE SUPPLIED WITH MACHINE

<table>
<thead>
<tr>
<th>Wheat Cap per Hour in Bushels</th>
<th>Seed</th>
<th>Commercial</th>
<th>Engine H.P. Req.</th>
<th>Electric H.P. Req.</th>
<th>Eccentric Shaft R.P.M.</th>
<th>Drive Pulley</th>
<th>Dimensions of Machines &amp; Weights</th>
<th>Screen Frame Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 36 in.</td>
<td>50-60</td>
<td>70-80</td>
<td>2½</td>
<td>2</td>
<td>400</td>
<td>800</td>
<td>12&quot;</td>
<td>A1,A2,A3, A4</td>
</tr>
<tr>
<td>Size 42 in.</td>
<td>60-70</td>
<td>80-90</td>
<td>3-5</td>
<td>3</td>
<td>500</td>
<td>12&quot;</td>
<td>12½&quot;</td>
<td>18&quot;x36&quot; 36&quot;x36&quot;</td>
</tr>
<tr>
<td>Size 48 in.</td>
<td>70-90</td>
<td>90-100</td>
<td>3-5</td>
<td>3</td>
<td>640</td>
<td>12&quot;</td>
<td>13½&quot;</td>
<td>18&quot;x33&quot; 36&quot;x48&quot;</td>
</tr>
</tbody>
</table>

1. Force feed hopper equipped with feed roller and agitator.
2. Agitator distributes seed in hopper.
3. Feed roller feeds seed through feed gate opening.
4. Feed gate adjustable to all varieties of seed.
5. Feed trough delivers seed to suction air channel.
6. Suction Air Channel separates seed by weight — removes interior seeds and weeds (Air screenings).
7. Settling Chamber receives and settles Air screenings.
8. Suction Auger delivers Air screenings to side of machine.
9. Suction Air Valve controls air suction in channel 6 for more or less air.
10. Suction Fan creates air suction and blows Dust outside.
11. Air Volume Control controls the amount of air warranted in cleaning different varieties of seed.
12. Vertical Air Fan for final grading of seed by weight.
13. Vertical Air Fan Control works together with fan speed in adjusting Air screenings blown into Air screening collector.
14. Air Screening Collector and Dust Outlet.
15. Air Vent Must pull a little air in — open or close air volume control valve 11 and adjust vertical air valve 13.
16. Dust Outlet when leading out do not restrict by using smaller pipe.