Flaman provides the components required for Grain Handling Setup & Maintenance. We will take care of any or all of the elements including:

- Design & Layout
- Equipment & Parts
- Setup & Installation
- Maintenance & Service

www.flamangraincleaning.com

We can help you find the best solution.
Saskatoon, SK 306.700.3823 / Southey, SK 306.993.9688
Our team of consultants and industry experts, purchasers, service specialists and support staff can help with any aspect of business related to your Grain Handling Equipment. We can provide, install and service:

*Horizontal, Incline & Overhead Conveyors*
*Flow Systems & Accessories*
*Support Towers, Safety Structures & Catwalks*

**BUCKET ELEVATOR TOWERS**

**OVERHEAD CHAIN CONVEYORS & CATWALKS**

Catwalk structures & safety platforms

**CAPACITIES RANGE FROM 200 BU/HR - 20,000 BU/HR**

**BUCKET ELEVATOR CUPS**

**LARGEST SUPPLIER OF BUCKET ELEVATOR CUPS & ACCESSORIES IN WESTERN CANADA**

**NORWAY & FANGED BOLTS**

*All bolts come with nuts*

**PLASTIC FLIGHTING**

**GENTLE ON PULSES**

*Available for 5”, 6”, 7”, 8” & 10” augers*

**SPACERS**

**WALINGA NUMATIC CONVEYANCE SYSTEM**

Ideal for connecting grain dryers
We specialize in Grain Cleaners and Grain Sorters of various capacities and function too. Give us a call and tell us how we can help.

1. Custom Built Hoppers
2. Gjesdal M2500
3. Extra Screens
4. Mez & Work Platforms
5. Bucket Elevators
6. Transfer Conveyors
7. Gravity Table
Custom Screens
Shipping available to anywhere in North America

Screen types
Rounds, Slots, Double Cut Triangle
Special Order: Wire Mesh, Stainless Steel Material, Stop Perforated, Bulk Perforated

Wood & aluminum frames
Forever, Gjesdal, Bench, Clipper, Crippen, Lightfoot, Garratt, Northland Superior, Westrup and custom built to your specifications

36” wide sheets
4/64 – 32/64 Round Hole Screen sq.ft.
4/64 – 14/64 Slotted Screen sq.ft.

48” wide sheets
4/64 – 32/64 Round Hole Screen sq.ft.
3/64 – 16/64 Slotted Screen sq.ft.
Buckwheat screen sq.ft.

Hand Sieves
Many Sizes Available
Durable hand sieves designed for excessive use in tough environments.

Wood Hand Testers
Assorted Kits Available
Economical hand tester kits. Changeable screen inserts available

Grader shells, scalper reels and indent shells available

SUGGESTED SCREEN SIZES FOR VARIOUS COMMODITIES

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Scalping Size</th>
<th>Sifting Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Wheat</td>
<td>12-14/64 round hole</td>
<td>5.5-6/64 slot</td>
</tr>
<tr>
<td>Durum Wheat</td>
<td>15-16/64 round hole</td>
<td>5.5-6/64 slot</td>
</tr>
<tr>
<td>Rye</td>
<td>12-13 round hole</td>
<td>5.5-6/64 slot</td>
</tr>
<tr>
<td>Barley</td>
<td>16-18/64 round hole</td>
<td>10-12/64 slot</td>
</tr>
<tr>
<td>Oat</td>
<td>18-20/64 round hole</td>
<td>9-10/64 slot</td>
</tr>
<tr>
<td>Eston Lentils</td>
<td>16-18/64 round hole</td>
<td>5-6/64 slot</td>
</tr>
<tr>
<td>Laird Lentils</td>
<td>17-18/64 round hole</td>
<td>12-15/64 round hole</td>
</tr>
<tr>
<td>Flax</td>
<td>3.5-4.5/64 slot</td>
<td>5.5/64 round hole</td>
</tr>
<tr>
<td>Canary Seed</td>
<td>5/64 slot</td>
<td>4.5-5/64 round hole</td>
</tr>
<tr>
<td>Peas</td>
<td>20-24/64 round hole</td>
<td>10-14/64 slot</td>
</tr>
<tr>
<td>Chick Peas</td>
<td>25-32/64 round hole</td>
<td>12-16/64 slot</td>
</tr>
<tr>
<td>Soy Beans</td>
<td>20/64 round hole</td>
<td>10/64 slot</td>
</tr>
<tr>
<td>Kidney Beans</td>
<td>28/64 round hole</td>
<td>14/64 slot</td>
</tr>
<tr>
<td>Corn</td>
<td>28-28 round hole</td>
<td>16-18 round hole</td>
</tr>
<tr>
<td>Alfalfa</td>
<td>4.5/64 round hole</td>
<td>6x22 or 34 wire</td>
</tr>
<tr>
<td>Canola</td>
<td>6.5-8/64 round hole</td>
<td>3-3.5/64 slot</td>
</tr>
<tr>
<td>Mustard</td>
<td>6-8/64 round hole</td>
<td>3-4/64 slot</td>
</tr>
<tr>
<td>Hemp</td>
<td>12-14 round hole</td>
<td>5.5-6/6 slot</td>
</tr>
</tbody>
</table>

Grain Cleaning & Handling Solutions

Screen types
Rounds, Slots, Double Cut Triangle
Special Order: Wire Mesh, Stainless Steel Material, Stop Perforated, Bulk Perforated

Wood & aluminum frames
Forever, Gjesdal, Bench, Clipper, Crippen, Lightfoot, Garratt, Northland Superior, Westrup and custom built to your specifications

36” wide sheets
4/64 – 32/64 Round Hole Screen sq.ft.
4/64 – 14/64 Slotted Screen sq.ft.

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Buckwheat screen sq.ft.

Hand Sieves
Many Sizes Available
Durable hand sieves designed for excessive use in tough environments.

Wood Hand Testers
Assorted Kits Available
Economical hand tester kits. Changeable screen inserts available

Grader shells, scalper reels and indent shells available

Screens are available for most makes or models
ISM Separator Fractionating Aspirator

Efficiently cleans all types of seed & grain

ISM 40 SHOWN WITHOUT CSC
ISM 50 SHOWN WITH THE OPTIONAL CYCLONE SEDIMENTARY CHAMBER (CSC)

Available Options
- Cyclone - Sedimentary Chamber
- Scalper
- Mobile Unit

The closed circuit system (CSC) significantly reduces the amount of dust and chaff outside the machine, as well as reducing power and air consumption.

ISM SEPARATOR FRACTIONATING ASPIRATOR

The ISM separator is designed to separate various fractions of homogeneous material from each other. The Impeller forms an airflow pattern that separates various fractions while maintaining an aerodynamic shape.

No screens required
- Increase seed quality & remove dockage
- Separates out high quality heavy, plump seeds from low quality light dockage
- CSA approved
- Baffle + VFD controlled parameters
- Low power consumption
- Gentle seed handling (padded baffles)

MODELS AVAILABLE WITH THE CYCLONE SEDIMENTARY CHAMBER (*CSC)

<table>
<thead>
<tr>
<th>Models</th>
<th>10 SC</th>
<th>20 SC</th>
<th>30 SC</th>
<th>40 SC</th>
<th>50 SC</th>
<th>60 SC</th>
<th>70 SC</th>
<th>80 SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH</td>
<td>8’</td>
<td>11’1”</td>
<td>7’6”</td>
<td>15’8”</td>
<td>7’6”</td>
<td>15’8”</td>
<td>8’2”</td>
<td>17”</td>
</tr>
<tr>
<td>WIDTH</td>
<td>1’6”</td>
<td>3’4”</td>
<td>2’4”</td>
<td>3’8”</td>
<td>2’4”</td>
<td>3’8”</td>
<td>3’7”</td>
<td>5’4”</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>6’2”</td>
<td>6’8”</td>
<td>8’</td>
<td>9’1”</td>
<td>8’</td>
<td>9’1”</td>
<td>7’9”</td>
<td>9’1”</td>
</tr>
<tr>
<td>MOTOR SIZE</td>
<td>1 HP</td>
<td>1 HP</td>
<td>4 HP</td>
<td>4 HP</td>
<td>6 HP</td>
<td>6 HP</td>
<td>7.5 HP</td>
<td>7.5 HP</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>330 LBS</td>
<td>440 LBS</td>
<td>840 LBS</td>
<td>1500 LBS</td>
<td>880 LBS</td>
<td>1543 LBS</td>
<td>950 LBS</td>
<td>2028 LBS</td>
</tr>
</tbody>
</table>

ISM MOBILE UNIT INCLUDES: GENERATOR & DISCHARGE AUGERS
KWIK KLEEN
DOCKAGE CLEANERS

Used for sizing barley and removing small seeds and other dockage.

All models are available with electric or hydraulic drive mechanisms, and feature easily removable screens. More than 20 screen sizes are available to accommodate many commodities.

GCS SCALPER

500 - 1000 bu/hr

The GCS Scalper can be used on a variety of crops like wheat, soybeans, durum, oats and more. Capacity depends on the screen size used, which is in turn driven by what type of crop is being cleaned.

<table>
<thead>
<tr>
<th>Kwik Kleen</th>
<th>572</th>
<th>772</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH</td>
<td>108&quot;</td>
<td>108&quot;</td>
</tr>
<tr>
<td>WIDTH</td>
<td>58&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>THROUGHPUT CAPACITY</td>
<td>7&quot;- 8&quot; AUGER</td>
<td>10&quot; AUGER</td>
</tr>
<tr>
<td>HYDRAULIC DRIVE</td>
<td>12-13 GPM</td>
<td>14-15 GPM</td>
</tr>
<tr>
<td>ELECTRIC DRIVE</td>
<td>5 HP</td>
<td>7.5 HP</td>
</tr>
<tr>
<td>TUBES</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>SCREENING AUGER</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scalper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BU/HR</td>
<td>500-1000</td>
</tr>
<tr>
<td>LENGTH</td>
<td>76&quot;</td>
</tr>
<tr>
<td>WIDTH</td>
<td>50&quot;</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>54&quot;</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>300 LB</td>
</tr>
<tr>
<td>POWER</td>
<td>1/3 HP</td>
</tr>
</tbody>
</table>
Gjesdal Cleaners

All-In-One Seed Cleaners

The Gjesdal 5-in-1 grain cleaner was developed in Saskatchewan as a solution that encompasses all of the elements necessary to clean common grain into clean seed that can be put back into the ground or sold to market.

1. Aspiration - Pre & Final Air
2. Scalp Deck – removal of large material (Scalping)
3. Grader Shells – removal of small material (Sifting)
4. Small Pocket Indent – buckwheat and broken cereal kernel removal (Short Removal)
5. Large Pocket Indent - wild oat & long grain removal

The Gjesdal 5-in-1 grain cleaner was developed in Saskatchewan as a solution that encompasses all of the elements necessary to clean common grain into clean seed that can be put back into the ground or sold to market.
The Bench air screen utilizes scalping and sifting screens mixed with aspiration. The large pocket indents provide the length separation for wild oat removal.

- Pre Aspiration
- Scalp Screen
- Sift Screen
- Large Pocket Indent
- Final Aspiration

**FLAMAN 2010**

Flaman all-in-one seed cleaners take the proven Bench air screen modular cleaner and combine its technology with multiple 17”x90” indents.

The Bench air screen utilizes scalping and sifting screens mixed with aspiration. The large pocket indents provide the length separation for wild oat removal.

- Pre Aspiration
- Scalp Screen
- Sift Screen
- Large Pocket Indent
- Final Aspiration

<table>
<thead>
<tr>
<th>FLAMAN 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITY</strong></td>
</tr>
</tbody>
</table>
| **HORSEPOWER** | 2 HP MACHINE  
5 HP ON FAN  
3 HP INDENT |
| **SCREEN SIZE** | 54 X 36 (6) |
| **DECK SIZE** | 54 X 72 |
| **INDENT** | (3) 17” X 90” |
Bench Air and Screen grain separators are an affordable way to clean your grain. Counterbalanced shaker shoe, large air settling chambers with precise adjustments, and a heavy-duty frame allow for accurate cleaning and a long lasting life expectancy. Low HP requirements and easy to change screens.

Bench Modular Air Screen

Gentle feeder will not damage your crop.
Improve the test weight of your grain

The debearder helps to improve the flow-ability of products and improves test weight. It breaks up hard to thrash commodities and polishes grain, oats and wheat. Available with 7 ½-20 HP TEFC or TEXP motor, which can clean up to 400 bu/hr. 16 hard surfaced blades and 16 stationary blades assist with the product flow and movement in the drum. The Bench debearder has an 18” diameter drum, which features a heavy duty drop down door for easy clean-out.

<table>
<thead>
<tr>
<th>Bench</th>
<th>Debearder</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY</td>
<td>UP TO 400 BU/HR</td>
</tr>
<tr>
<td>HP REQ.</td>
<td>7 ½ - 20 HP</td>
</tr>
</tbody>
</table>

The Satake pulse and cereal dehuller type VTA is a high capacity machine designed for the removal of hulls and husks from a range of commodities including lentils, chickpeas, soy and barley. The machine is exceptionally hard wearing for a trouble free 24 hour operation.

<table>
<thead>
<tr>
<th>Satake</th>
<th>VTA10</th>
<th>VTA20</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY</td>
<td>UP TO 5 TONS / HR</td>
<td>UP TO 10 TONS / HR</td>
</tr>
<tr>
<td>180 BU / HR</td>
<td>360 BU / HR</td>
<td></td>
</tr>
<tr>
<td>POWER REQ.</td>
<td>45-55 KW (6P)</td>
<td>90-110 KW (6P)</td>
</tr>
<tr>
<td>AIR VOLUME</td>
<td>55 M³ /MIN</td>
<td>80 M³ /MIN</td>
</tr>
<tr>
<td>STATIC PRESSURE</td>
<td>120-150 mmAq</td>
<td>120-150 mmAq</td>
</tr>
</tbody>
</table>
**BOMILL**

PROTEIN, FUSARIAUM & VITREOUS SORTER

*Sorts Each Individual Kernel - 25000 kernels/second*

BoMill – TriQ Technology

The TriQ technology can be used to sort durum wheat, soft wheat, malting barley, spelt and oat on fusarium, protein, vitreousness, seed quality and falling number with a speed of 25000 kernels per second.

<table>
<thead>
<tr>
<th>BoMill</th>
<th>TriQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY</td>
<td>118 BU/HR average grain</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>70.87&quot;</td>
</tr>
<tr>
<td>WIDTH</td>
<td>47.25&quot;</td>
</tr>
<tr>
<td>DEPTH</td>
<td>68.90&quot;</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>2,205 LBS</td>
</tr>
<tr>
<td>SORTING CHANNELS</td>
<td>96</td>
</tr>
</tbody>
</table>

**Technology that looks beyond the surface**

Near Infrared Transmission Technology (NIT)

Removes unwanted kernels using specially designed (grain specific) drum, near infrared detectors, and air ejection. Sorts product into one to three separate distributions or quality fractions using a transmission style analyses.

**CARTER-DAY**

**DOCKAGE TESTER**

*Accurate and uniform tests of grain samples for dockage*

The Carter-Day Dockage Tester was designed to provide more consistent results than hand testing, and can use one riddle and three sieves simultaneously while aspirating at the same time.

**LAB DEHULLER**

**HULLERMATIC**

*Self-contained easy to use machine*

This compact lab sized impact dehuller, can hull oats at a rate of 5-10 BU/HR. The machine has a manual tensioner and no air. The motor is ¾ HP and wired for 110 volts.
GRAIN ANALYSIS
Gain the advantage of knowing what your grain has to offer before sending it to market

MOISTURE TESTERS

LABTRONICS 919
Moisture Meter
Comes as a complete kit with digital scale, celsius thermometer & set of charts.

PERTEN AQUAMATIC 5800
Portable Grain Moisture Meter
The most accurate and repeatable portable moisture meter available. Easy to use, no need for scale, charts or thermometer. Battery powered and comes with convenient carrying bag. Measures moisture test weight and temperature with the same calibration as the officially approved AM5200-A GPE105800

PROTEIN TESTERS

PERTEN INFRAMATIC 8800
Portable Grain Protein & Moisture Analyzer
Near-infrared (NIR) portable grain analyzer designed specifically for on-farm use. This rugged meter is ideal for testing grain for protein, moisture and oil content. Can be operated using battery power and has GPS capability for field mapping

SCALES
Weigh your grain samples and determine dockage.

A+D EJ1500 DIGITAL SCALE
Counting & Percentage function
1500g x 0.1 g
HWF120032

A+D COMPACT DIGITAL SCALE
500g x 0.1 g
HWF120024

ACCESSORIES
Bushel weight set
HWF1200

STRIKER
HWF120037

COX FUNNEL
HWF120036

0.5L CUP
HWF120034

100 COUNT KIT
HWF120060

500 COUNT KIT
HWF120067

DIGITAL CELCIUS THERMOMETER
HWF120027

BRASS GRAIN PROBE
6 FOOT
HWF120160
8 FOOT
HWF120180
10 FOOT
HWF120190

SAMPLE SCOOP
HWF120081

HAND SIEVES
Many Sizes Available
Durable hand sieves designed for excessive use in tough environments.

Use this handy canola roller kit to check your canola green counts.

Use with your bin or grain bag to quickly check temperature.

OP STICK PROBE

OPI STICK PROBE

STEEL ROLLER
HWF120050

PLASTIC ROLLER WITH WOODEN HANDLE
HWF120053
We See Your Grain Differently

FMS SERIES
Modular design allows two units to be connected with one single interface. Shape sorting comes standard. The FMS-2000 is a portable, cost effective, full colour RGB optical sorting machine for small and medium applications that is efficient at sorting 1-4000 lbs of product per hour.

This sorting machine features two-view, high resolution full colour cameras, intuitive touch screen operator interface and compact design.

RNEZX SERIES
The next step in the RNEZ series. This model is upgraded from the RNEZS with higher camera resolution, larger touch screen, option for 6 or 10 chutes, as well as shape sorting capability.

RGBR SERIES
Impurities such as glass, plastic and stone which are invisible or have the same colour as the material cannot be detected with only a full colour CCD camera. The RGBR series has the ability to detect and sort these impurities with a high technology NIR camera inside.

EVOLUTION SERIES
This full colour sorting machine uses 16 million colours, high-resolution cameras and long lasting LED lighting to detect and remove defects. This machine has the ability to see true colour and precisely sort a wide range of products, even those with small shade differences. Shape sorting is available.
**RNEZS SERIES**

Satake’s high capacity, cost-effective, full colour precision optical sorter series is ideal for bulk agricultural products such as wheat, lentils, peas and other small grains. The RNEZ Series sorter is able to consistently and effectively sort these product types at high capacity - up to 3.5 tons per hour per chute - for common grains. Secondary and/or tertiary resort capability is also optional if desired.

The RNEZ is powered by patent-pending Satake software assuring quick set-up and hassle-free operation. A simple user interface, similar to a smart phone or tablet with touch and flick operation, offers the operator quick adjustments to a number of settings and sensitivities.

---

### Full Colour

<table>
<thead>
<tr>
<th></th>
<th>FMS 2000</th>
<th>Evolution 400</th>
<th>Evolution 800</th>
<th>RNEZS 2500</th>
<th>RNEZS 6500</th>
<th>RNEZS 4500</th>
<th>RNEZS 7500</th>
<th>RGRB 3401 IR Capabilities</th>
<th>RGRB 5401 IR Capabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY*</td>
<td>60 BUHR</td>
<td>200-400 BUHR</td>
<td>400-800 BUHR</td>
<td>75-200 BUHR</td>
<td>225-600 BUHR</td>
<td>~600 BUHR</td>
<td>~1000 BUHR</td>
<td>~500 BUHR</td>
<td>~900 BUHR</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>81.1”</td>
<td>80.9”</td>
<td>80.9”</td>
<td>68.4”</td>
<td>68.4”</td>
<td>68.4”</td>
<td>74.9”</td>
<td>74.9”</td>
<td>89.7”</td>
</tr>
<tr>
<td>WIDTH</td>
<td>18.9”</td>
<td>52.2”</td>
<td>64.5”</td>
<td>54.2”</td>
<td>109”</td>
<td>81.7”</td>
<td>62.2”</td>
<td>61”</td>
<td>61”</td>
</tr>
<tr>
<td>DEPTH</td>
<td>49.6”</td>
<td>62.8”</td>
<td>62.8”</td>
<td>64”</td>
<td>64”</td>
<td>64”</td>
<td>64”</td>
<td>61”</td>
<td>61”</td>
</tr>
<tr>
<td>NUMBER OF EJECTORS</td>
<td>48</td>
<td>92</td>
<td>184</td>
<td>136</td>
<td>409</td>
<td>273</td>
<td>455</td>
<td>252</td>
<td>420</td>
</tr>
<tr>
<td>CHUTES</td>
<td>1</td>
<td>4</td>
<td>8</td>
<td>3</td>
<td>9</td>
<td>6</td>
<td>10</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CHUTE WIDTH</td>
<td>240 mm</td>
<td>100 mm</td>
<td>100 mm</td>
<td>220 mm</td>
<td>220 mm</td>
<td>224 mm</td>
<td>224 mm</td>
<td>336 mm</td>
<td>336 mm</td>
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<tr>
<td>SHAPE CAPABILITIES</td>
<td>INCLUDED</td>
<td>OPTION</td>
<td>OPTION</td>
<td>N/A</td>
<td>N/A</td>
<td>INCLUDED</td>
<td>INCLUDED</td>
<td>INCLUDED</td>
<td>INCLUDED</td>
</tr>
</tbody>
</table>

*Capacities are based on 60lb/bu product. Capacity is highly variable.*
FLAMAN
GRAIN SYSTEMS

Southey, SK  306.726.4403 / Saskatoon, SK  306.986.9303
www.flamangraincleaning.com