




[metragraincleaner.com](http://metragraincleaner.com)




**Professional solution for grain  
cleaning, quality classification &  
impurity removal**




**We take care of everything from  
delivery to training**

 Delivery anywhere  
in the world

 Complimentary  
lifetime support

 Set up on site  
and remotely

 We provide training on how  
to operate the equipment



**HIGH EFFICIENCY**

**HIGH QUALITY**

**LOW COST**



Address: 110 Boston Rd,  
Taylorsville, NC 28681,  
United States

Phone: **1(336)612-30-77**

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**INNOVATIVE  
GRAIN CLEANING TECHNOLOGIES**





The Metra Group Inc. presents the New Generation grain cleaning machine for all the grain industries: farms, grain storage enterprises, fodder factories, elevators, mills, and all grain crops and seed processing facilities etc,. The sieve less aerodynamic machine “METRA”, enables you to obtain high-quality food grains and excellent sowing materials preparation that increase the yield up to 30-40%.

The machine “METRA” represents a new method of separation that is based on the principles of the stream (jet) technique and aerodynamic flows, which allows for the separation of the source material according to its relative density with high preciseness.

Metra unique technology with precise quality cleaning ability and high production volume allows to replace 3-4 grain cleaning machines within one technological line. For one processing pass, this machine can clean and allocate seeds by their relative density and divide them into independent fractions.

**“METRA” is capable of processing seeds as small as(lucerne, popper, rape) as well as oats, barley, wheat, maize, peas, soy and many other cultures and bulk materials as well.**

### **“METRA” HAS THE FOLLOWING ADVANTAGES:**

- ✓ It does not damage the grain;
- ✓ Has a low energy consumption level (from 0.75 KW/hour to 22.0 KW/hour, depending on the machine's productivity);
- ✓ Reliability and durability due to design simplicity (absence of cinematic schemes and lubricant points);
- ✓ It does not require maintenance;
- ✓ It is capable of producing products of any level of humidity and impurity;
- ✓ High operating efficiency (it does not require expensive maintenance, there is no need for selection and replacement of the sieves for every type of grain, there is no necessity for careful and long cleaning after usage, and it can recoup itself within just one season).

### **“METRA” HAS HIGH TECHNOLOGICAL POTENTIAL, AND IS CAPABLE OF:**

- ✓ Separating the mixture of wheat and barley (up to 60% for one operation);
- ✓ Selecting the peas damaged by bruchus (Bruchus pisorum); durum and wheat damaged by Vomitoxin and Fusarium;
- ✓ Dleaning 100% of the seeds of wheat, barley and other crops from seeds of wild oats (Avena fatua);
- ✓ Separating rotten corn from healthy corn (dry);
- ✓ Separating grain in the air flow while simultaneously drying the seeds (up to 2% per passing);
- ✓ Selecting from the row crop the most viable (biological valuable) and productive grains;
- ✓ Raising the class of grain mass (selecting feed fraction and increasing the quality level of the grain);
- ✓ Working as a grouts separator on the grouts-mills.



**Scattering a field with seeds derived from the middle part of head, cob or sunflower hat, as well as free of grain and weed impurities, saves herbicides, fuels and lubricants, engine life,**

**salary and increases the yield by 30-40%.**

**The unique patented design of the machine “METRA” has no analogues.**





# AERODYNAMIC GRAIN CLEANERS

## & AERODYNAMIC GRAIN CLEANERS WITH CYCLONE DUST COLLECTOR

We offer more than **24 models** of  
Aerodynamic Grain Cleaners, with capacities  
ranging from **200 to 8,000 bushels per hour** or  
**5 to 200 metric tons per hour**.



### MODELS:

Metra ADS-200-E	Metra ADS-200-CDC
Metra ADS-200	Metra ADS-400GM-CDC
Metra ADS-400	Metra ADS-400-CDC
Metra ADS-600	Metra ADS-600-CDC
Metra ADS-800	Metra ADS-800-CDC
Metra ADS-1200	Metra ADS-1200-CDC
Metra ADS-1600	Metra ADS-1600-CDC
Metra ADS-2000	Metra ADS-2000-CDC
Metra ADS-4000	Metra ADS-4000-CDC
Metra ADS-6000	Metra ADS-6000-CDC
Metra ADS-8000	Metra ADS-8000-CDC



### MODELS:

Metra ADS-1600
Metra ADS-2000

METRA ADS 200



METRA ADS 200-CDC



METRA ADS 400



METRA ADS 400-CDC



METRA ADS 600



METRA ADS 600-CDC



METRA ADS 800



METRA ADS 800-CDC



METRA ADS 1200



METRA ADS 1200-CDC



METRA ADS 1600



METRA ADS 1600-CDC



METRA ADS 2000



METRA ADS 2000-CDC



METRA ADS 4000



METRA ADS 4000-CDC



METRA ADS 6000



METRA ADS 6000-CDC



METRA ADS 8000



METRA ADS 8000-CDC



# SERVICE COMMITMENT

## 24/7 technical support.

An intelligent system is built into each model with the help of which we can connect to the machine at any time, help you adjust your required settings, or make diagnostics before the cleaning season, as well as after it.

## We take care of everything from delivery to training

- Delivery anywhere in the world
- Complimentary lifetime support
- Set up on site and remotely
- We provide training on how to operate the equipment



## Professional solution for grain cleaning, quality classification & impurity removal

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TECHNICAL PARAMETERS GRAIN CLEANER «METRA ADS»

Models	ADS 200	ADS 400	ADS 600	ADS 800	ADS 1200
Productivity in primary grain cleaning in Hour	200 bushels 5 tons	400 bushels 10 tons	600 bushels 15 tons	800 bushels 20 tons	1200 bushels 30 tons
Energy consumption kW/Hour HP	0.75 1.0	0.75 1.0	2.2 3.0	3.0 4.0	4.0 5.5
Length in / mm	94.1 / 2136	91.0 / 2336	91.1 / 2314	91.1 / 2314	91.1 / 2314
Width in / mm	22.6 / 574	22.5 / 570	27.2 / 690	27.2 / 690	27.2 / 690
Height in / mm	74.9 / 1902	75.1 / 1908	92.0 / 2338	92.0 / 2338	92.0 / 2338
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz
Weight Lbs / kg	520 / 236	523 / 237	1136 / 515	1158 / 525	1182 / 536

Models	ADS 1600	ADS 2000	ADS 4000	ADS 6000	ADS 8000
Productivity in primary grain cleaning in Hour	1600 bushels 40 tons	2000 bushels 50 tons	4000 bushels 100 tons	6000 bushels 150 tons	8000 bushels 200 tons
Energy consumption kW/Hour HP	6.0 8.0	7.0 9.5	11.0 15.0	15.0 20.0	22.0 30.0
Length in / mm	91.0 / 2311	91.0 / 2311	122.1 / 3100	122.1 / 3100	122.1 / 3100
Width in / mm	45.3 / 1150	45.3 / 1150	70.9 / 1801	70.9 / 1801	70.9 / 1801
Height in / mm	92.0 / 2337	92.0 / 2337	117.7 / 2990	117.7 / 2990	117.7 / 2990
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	480V, 60Gz	480V, 60Gz
Weight Lbs / kg	1930 / 875	1930 / 875	2955 / 1340	3087 / 1350	2977 / 1400

TECHNICAL PARAMETERS GRAIN CLEANER «METRA ADS» with cyclone dust collector (CDC)

Models	ADS 200-CDC	ADS 400-CDC	ADS 600-CDC	ADS 800-CDC	ADS 1200-CDC
Productivity in primary grain cleaning in Hour	200 bushels 5 tons	400 bushels 10 tons	600 bushels 15 tons	800 bushels 20 tons	1200 bushels 30 tons
Energy consumption kW/Hour HP	0.75 1.0	0.75 1.0	2.2 3.0	3.0 4.0	4.0 5.5
Length in / mm	119.7 / 3041	127.7 / 3243	185.0 / 4697	185.0 / 4697	185.0 / 4697
Width in / mm	47.5 / 1206	47.7 / 1212	56.7 / 1440	56.7 / 1440	56.7 / 1440
Height in / mm	85.0 / 2159	85.0 / 2159	112.8 / 2866	112.8 / 2866	112.8 / 2866
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz
Weight Lbs / kg	1060 / 480	1110 / 503	2106 / 955	2128 / 965	2148 / 978

Models	ADS 1600-CDC	ADS 2000-CDC	ADS 4000-CDC	ADS 6000-CDC	ADS 8000-CDC
Productivity in primary grain cleaning in Hour	1600 bushels 40 tons	2000 bushels 50 tons	4000 bushels 100 tons	6000 bushels 150 tons	8000 bushels 200 tons
Energy consumption kW/Hour HP	6.0 8.0	7.0 9.5	11.0 15.0	15.0 20.0	22.0 30.0
Length in / mm	194.9 / 4951	194.9 / 4951	260.0 / 6603	260.0 / 6603	260.0 / 6603
Width in / mm	62.4 / 1585	62.4 / 1585	88.1 / 2239	88.1 / 2239	88.1 / 2239
Height in / mm	114.2 / 2900	114.2 / 2900	144.1 / 3660	144.1 / 3660	144.1 / 3660
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	480V, 60Gz	480V, 60Gz
Weight Lbs / kg	2842 / 1289	2842 / 1289	4939 / 2240	4960 / 2250	5070 / 2300

ADDITIONAL MODIFICATIONS OF AERODYNAMIC GRAIN CLEANERS.

Models	METRA ADS 200-E
Productivity in primary grain cleaning in Hour	200 bushels 5 tons
Energy consumption HP	0.75
kW/Hour	0.55
Length in / mm	70.5 / 1790
Width in / mm	20.9 / 530
Height in / mm	62.2 / 1580
Weight Lbs / kg	297 / 135

Models	METRA ADS 2000-M
Productivity in primary grain cleaning in Hour	2000 bushels 50 tons
Energy consumption HP	0.67
kW/Hour	0.50
Length in / mm	59 / 1500
Width in / mm	49 / 1246
Height in / mm	75 / 1900
Weight Lbs / kg	882 / 400

- THE AERODYNAMIC GRAIN CLEANER METRA ADS 200-E**
- The aerodynamic grain cleaner Metra ADS 200-E cleans and sorts seeds in the airflow. For small agricultural businesses. Reliable, efficient and economic machine.
- Fast return of investment with potential to earn that money back within the first year.
  - Best suitable for organic production, no damage of seeds (no-sieves technology).
  - Sorts out the grains damaged by mycotoxins (fusarium, vomitoxins etc.). Losses from grain diseases could be minimized or eliminated.
  - Quick switch from one culture to another. No need to lose a lot of time to changing sieves.
  - Easy operation and machine cleaning. Doesn't require constant maintenance.

- THE AERODYNAMIC GRAIN CLEANER METRA ADS 2000-M**
- The aerodynamic grain cleaner Metra ADS 2000-M cleans and sorts seeds in the airflow. For large agricultural businesses. Reliable, efficient and economic machine.
- Best suitable for organic production, no damage of seeds (no-sieves technology).
  - Sorts out the grains damaged by mycotoxins (fusarium, vomitoxins etc.). Losses from grain diseases could be minimized or eliminated.
  - Quick switch from one culture to another. No need to lose a lot of time to changing sieves.
  - Easy operation and machine cleaning. Doesn't require constant maintenance.

Premium quality products  
FOR MORE DETAILS, PLEASE CONTACT US !

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METRA ADS 200-E



METRA ADS 2000-M





APPLICATIONS OF METRA GRAIN CLEANER

The “Metra” machine represents a revolution in grain cleaning technology. The Metra grain cleaner is a unique patented invention! Our technology is based on jet stream of air and aerodynamic principles which precisely separates source material based on relative density. The Metra machine is capable of processing all types of crop: Wheat, Durum, Corn, Soybeans, lentils, Sunflower, Hemp, Lucerne, Poppy, Oats, Chia, Barley, Maize, Peas, Beans, you name it...



Metra graincleaner cleans out any heavy or/and light impurities. Sorting and grading all types of grain.



Separating grains based on its relative density. Provides uniform seeds with most biological value for simultaneous germination and maturity to increase your yields up to 30%-40%.



Metra MS graincleaner is cable to divide two different density crops mixed together.



Separates grain into fractions to provide the best market value \$\$\$ for each grain category. Metra grain cleaner makes each grain category #1.

Metra unique technology with precise quality cleaning ability and high production volume allows to replace 3-4 grain cleaning machines within one technological line. With one processing pass, this machine can clean and allocate seeds by their relative density and divide them into independent fractions.

The Metra separates the source material into five fractions based on their relative density. The first fraction comprises stones and heavier impurities, the second and third fraction are the whole grains, the fourth fraction is broken grains and chaff and the fifth fraction comprises the smaller impurities. There is also an exhaust fan which rids the machine of dust and lighter impurities.



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WHY METRA GRAINCLEANERS ARE BETTER

- 1

**ABSENCE OF DAMAGED GRAIN**

Metra air dynamic cleaning technology doesn't damage the grain unlike most of the grain cleaners on the market.
- 2

**LOW ENERGY CONSUMPTION**

Metra consumes from 0.75 kW/h of electricity for a 200 bushels/hour (5t/hr) capacity to 22 kW/h for 8000 bushels/hour (200t/hr).
- 3

**MOBILITY AND RELIABILITY**

The simplicity of design and construction as well as genius technology makes Metra grain cleaners highly sufficient. Machine doesn't require any special set up or leveling, its relatively light and compact and can be placed on the trailer and function on the go as good as stationary.
- 4

**HIGHLY ECONOMICAL**

Our machine does not require any maintenance, doesn't have any moving parts or lubrication points. No sieves to change or replace for each grain type. No downtime for preparation and lubrication in-between crops. With Metra to go from one crop to another takes only 5 – 10 minutes.
- 5

**VERSATILITY AND MULTI-FUNCTIONALITY**

Due to its high productivity and separation ability, «Metra» can simultaneously pre-clean, primary and secondary clean in just one step using just one machine. Ability to identify the best seed is optimizing germination, improving sowing efficiency and increases harvest due to simultaneous maturation. This all collaborates to improve the crop yield up to 40%. This multifunctional machine replaces a line of 2 – 3 regular grain cleaners and provides simultaneous air drying of grain up to 2% per pass.
- 6

**HIGHLY TECHNOLOGICAL OPPORTUNITY**

Metra selects the most viable and productive kernels and separates diseased grain and grain damaged by parasites which often has no color or size difference and cannot be identified and separated by screen or color sorter. Our machine also separates grain effected by any type of fungus (VOM, FUS, AFLATOXIN etc.) along with chaff and any other impurities.

Metra is determined to offer the best universal solution to grain cleaning by applying the most innovative technology. We provide farmers worldwide with the best possible service and expertise in the business.

We strive to provide affordable, efficient and low maintenance technology for all agricultural applications. Whether you are a small scale organic farmer with a modest budget, or a multiple site, expansive commercial operation, we have the machine for you and your budget. We can assess your needs and current infrastructure and recommend products to complement your crop and set up.

Continual improvement and after sales service are vital to our continued success, and we ensure that you will receive the best possible support from our team.

- ✓ Possibility of sorting out the highest quality seeds which guarantees the germination up to 98%

✓ 8 degrees of engine protection, from a smooth start and stop to voltage drop protection

✓ Energy consumption 2.5 - 3 times lower comparing to the analogous separators
- ✓ High quality of the cleaning

✓ 24 hour technical support

✓ Simplicity of operation
- ✓ Self-cleaning mode of the separators allows to go over quickly from one crop spices to the other one

✓ Simplicity of construction and reliability of the machine

✓ Careful grain handling due to air treatment



## HARVEST INCREASE UP TO 40%



### CLEANING

all types of grain



### SORTING / GRADING

for any type of grain



### NO MAINTENANCE

no screens, no moving parts



Separating the grains of all heavy and light impurities that differ from the main grain



Selecting grains based on its relative density, selecting the most biological valuable grains which ensure optimum germination and result



Separating different kinds of cereal thereby giving these products a decent marketable appearance



### HARVEST INCREASE

up to 40%



### LOW PRICE & MOBILITY

best price on the market



### WE HAVE BEST

solution to any grain problem



The machines are suitable for operation both indoors and outdoors



No need to waste time cleaning up after using the separator



Changing from one commodity to the next takes as little as 5 minutes.

## FACTORY WARRANTY — UP TO 3 YEARS.

Average lifetime of color sorter — 20+ years. Average lifetime of aerodynamic grain cleaner — 30+ years.

**We will exchange all parts under the warranty.**

### Premium quality products

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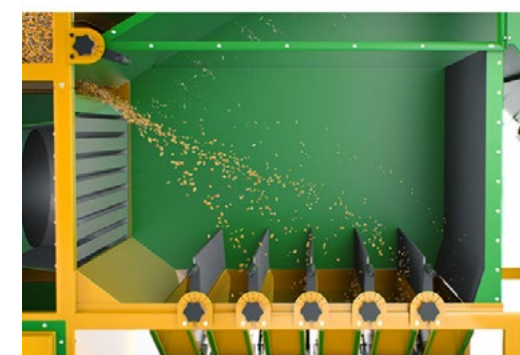
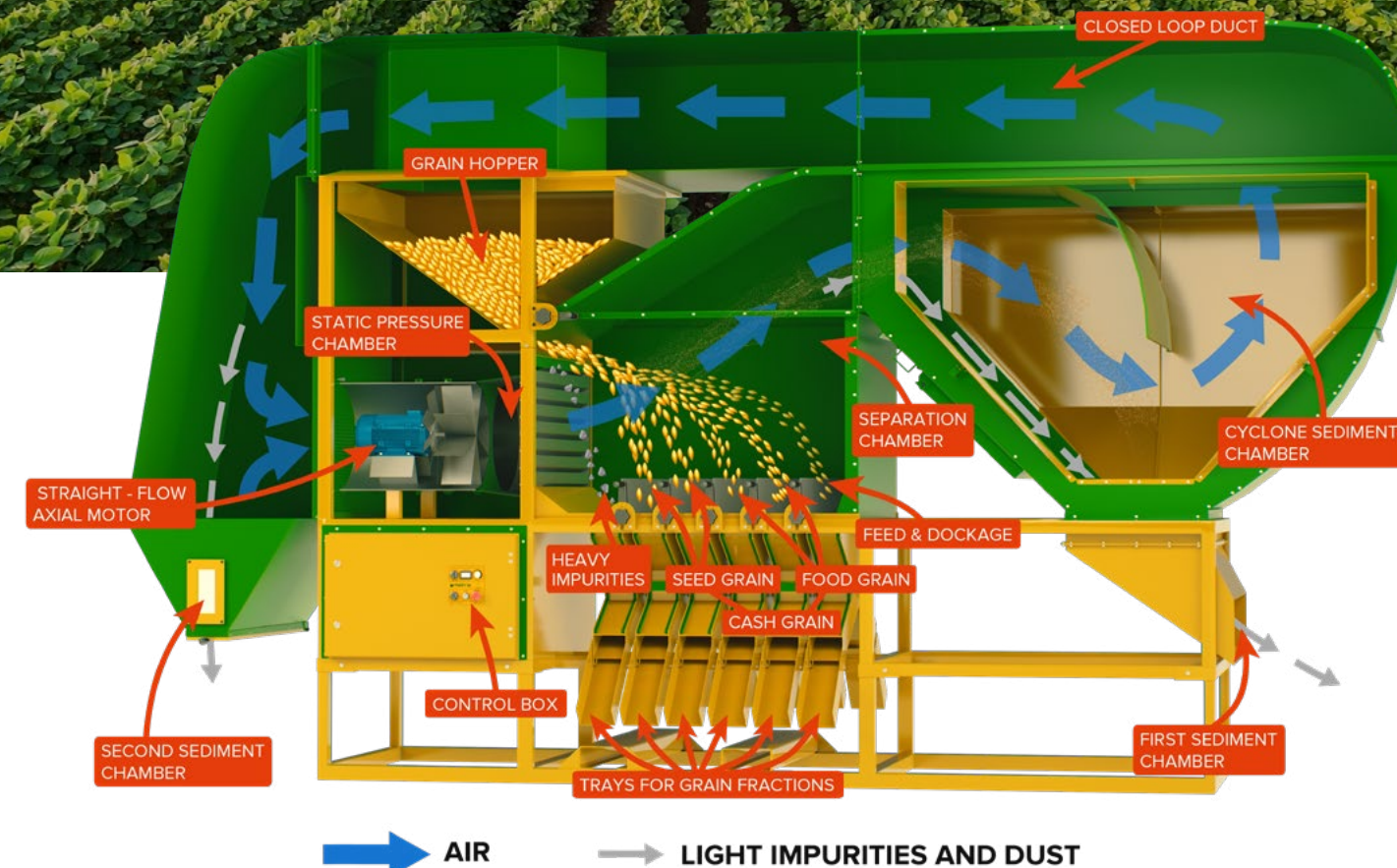


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## CAREFUL PROCESSING OF GRAIN USING A LAMINAR AIRSTREAM, THAT PREVENTS DAMAGED GRAIN



### MACHINES COME WITH SPECIAL RUBBER PADDING WITHIN THE SEPARATION CHAMBER.



All dust and small particles are collected by the Cyclone Dust Collector for non-grain waste and are discharged through a channel into separate trays via the airstream

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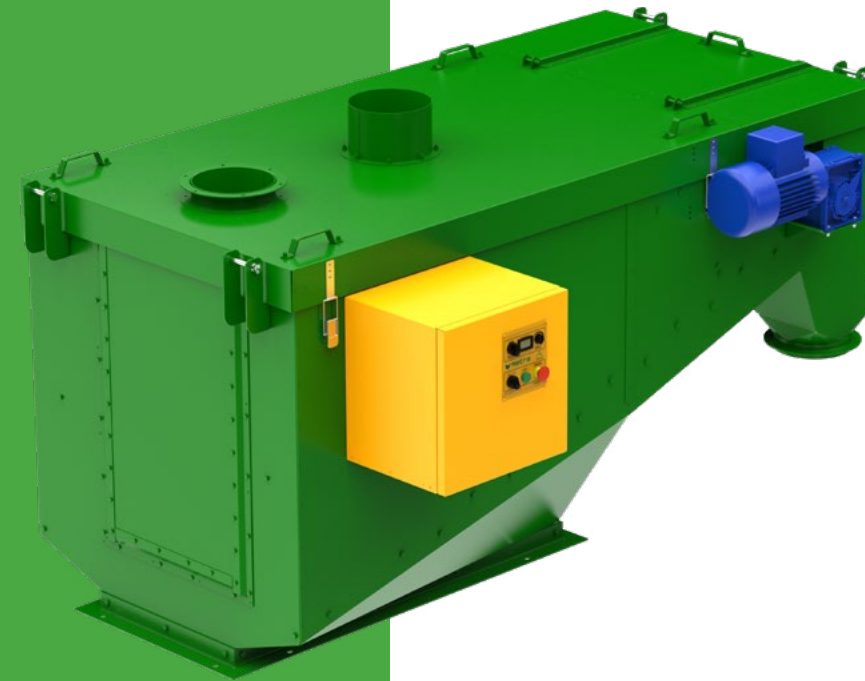
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# COMPACT PRE CLEANER & SCALPER GRAIN CLEANER

We offer 4 models of compact pre-cleaners with capacities ranging from 400 to 2000 bushels per hour or 10 to 50 metric tons per hour.

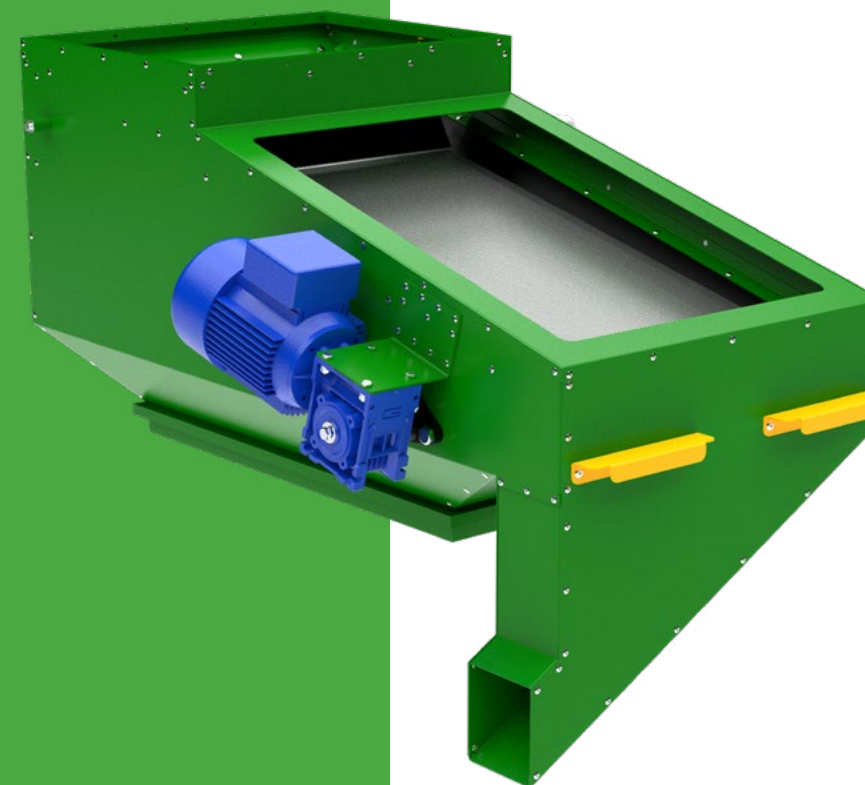


Grain Pre-Cleaner



**MODELS:**

Metra GPC-400  
Metra GPC-2000



Scalper Grain Cleaner



**MODELS:**

Metra SGC-400  
Metra SGC-400-S  
Metra SGC-400-H



TECHNICAL PARAMETERS COMPACT PRE-CLEANERS FROM METRA

Models	METRA GPC 400	METRA GPC 2000	Scalper Grain Cleaner SGC-400	Scalper Grain Cleaner SGC-400-S	Scalper Grain Cleaner SGC-400-H
Productivity in grain cleaning in Hour	400 bushels 10 tons	2000 bushels 50 tons	400 bushels 10 tons	400 bushels 10 tons	400 bushels 10 tons
Energy consumption kW/Hour HP	1.1 2.5	1.1 2.5	0.37 0.5	0.37 0.5	0.37 0.5
Length in / mm	47.2 / 1200	84.6 / 2150	44.5 / 1130	44.7 / 1135	44.7 / 1135
Width in / mm	47.8 / 1213	43.9 / 1115	31.9 / 810	35.8 / 910	35.8 / 910
Height in / mm	51.6 / 1310	46.7 / 1187	28.1 / 715	50.1 / 1272	62.3 / 1582
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz
Weight Lbs / kg	470 / 213	882 / 400	130 / 59	206 / 93	243 / 110



COMPACT PRE CLEANER FOR GRAIN AND BULK SOLIDS

Cleans grain twice as fast with one pass compared to competitive pre-cleaners.

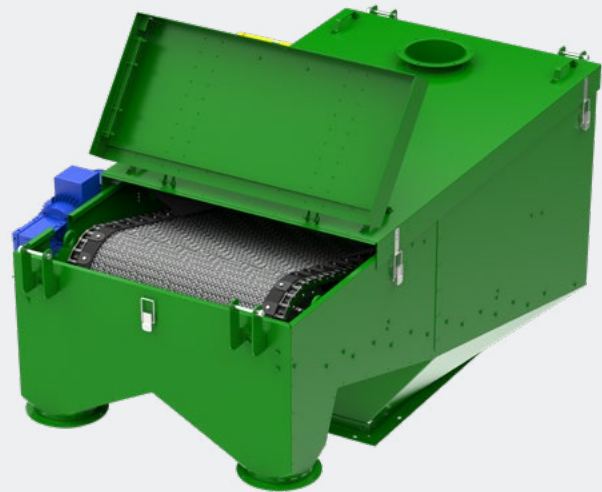
The pre-cleaner increases quality and speed of the subsequent cleaning of various commodities. Cleans grain by separating large impurities such as weeds, straw, leaves and stems.

Due to the variable speed of the rotating screen, you can adjust the productivity of the pre-cleaner to match that of the grain cleaner and build a production line consisting of several machines.

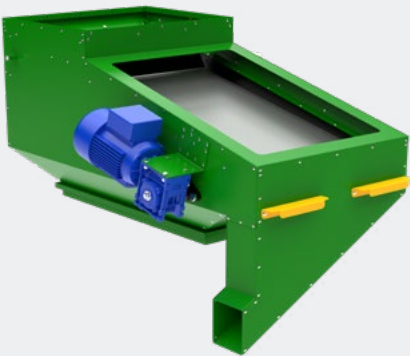
METRA GPC-400



METRA GPC-2000



METRA SGC-400



METRA SGC-400-S



METRA SGC-400-H



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# SIXTH GENERATION OPTICAL COLOR SORTERS

We offer 8 models of optical color sorters  
with capacities ranging from 40 to 800  
bushels per hour or 1 to 20 metric tons per  
hour.

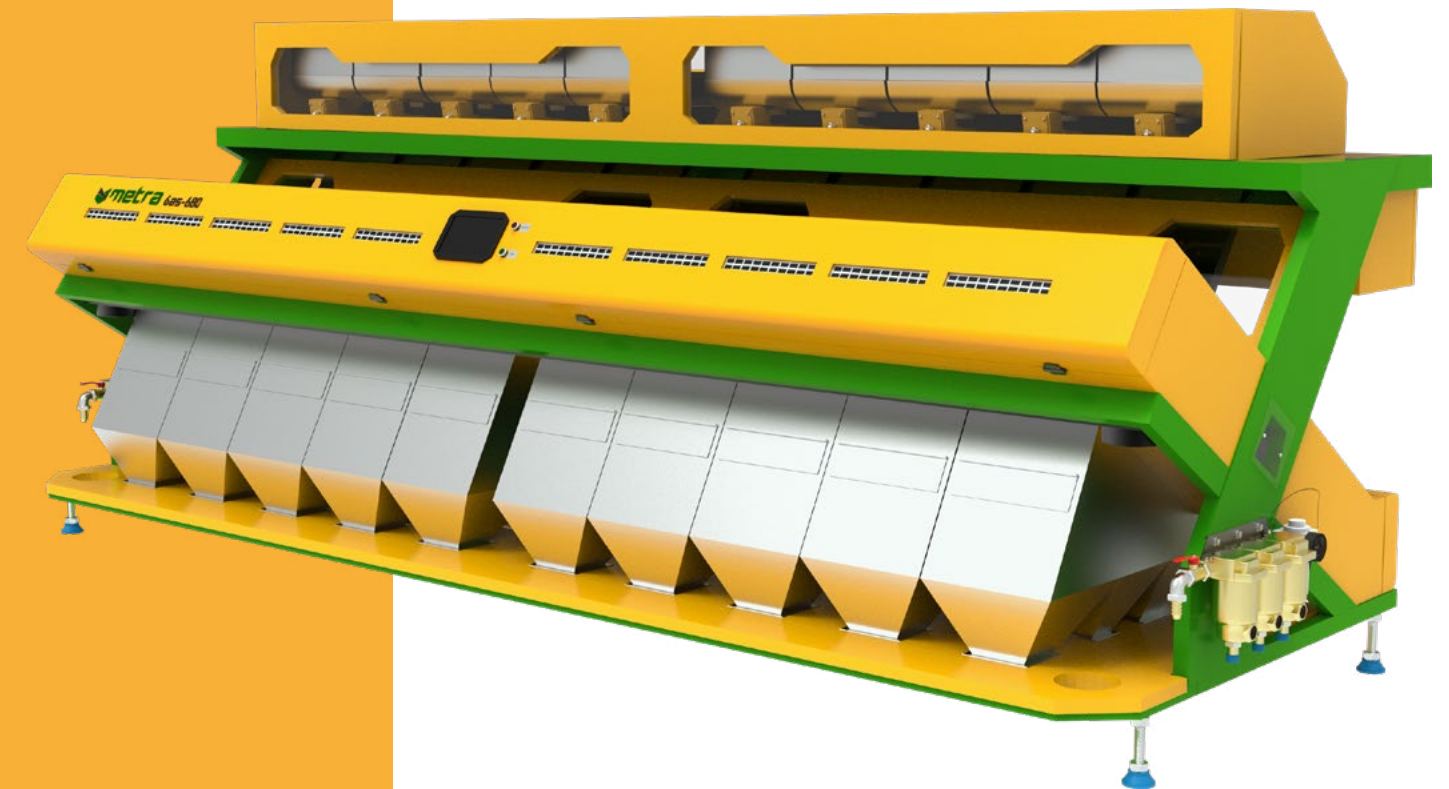


Optical Color Sorter



## MODELS:

Metra 6AS-68  
Metra 6AS-68L  
Metra 6AS-136  
Metra 6AS-204  
Metra 6AS-272  
Metra 6AS-340  
Metra 6AS-476  
Metra 6AS-680





TECHNICAL PARAMETERS COLOR SORTER «METRA»

Models	6AS-68 1 chute	6AS-68L 1 chute	6AS-136 2 chute	6AS-204 3 chute	6AS-272 4 chute	6AS-340 5 chute	6AS-476 7 chute	6AS-680 10 chute
Capacity * bushels / hour tons / hour	40 – 80 1 – 2	40 – 80 1 – 2	80 – 160 2 – 4	120 – 240 3 – 6	160 – 320 4 – 8	200 – 400 5 – 10	280 – 560 7 – 14	400 – 800 10 – 20
Air pressure Mpa	0.4 - 0.6	0.4 - 0.6	0.5 - 0.7	0.6 - 0.8	0.6 - 0.8	0.6 - 0.8	0.6 - 0.8	0.6 - 0.8
Energy consumption kW / hour	1.0 - 1.3	1.0 - 1.3	1.4 - 1.8	2.0 - 2.2	2.5 - 2.9	5.3 - 6.2	7.5 - 8.7	8.5 - 10.9
Air consumption cubic feet / min. liter / min.	<35 <1000	<35 <1000	<63 <1800	<95 <2700	<113 <3200	<134 <3800	<169 <4800	<215 <6100
Length in / mm	37.4 / 950	48.9 / 1241	50.8 / 1290	62.8 / 1594	79.2 / 2010	92.5 / 2350	113.5 / 2884	165.4 / 4200
Width in / mm	56.2 / 1428	80.2 / 2038	59.4 / 1510	60.3 / 1532	60.3 / 1530	59.8 / 1518	66.6 / 1692	60.3 / 1530
Height in / mm	59.5 / 1510	69.3 / 1761	69.7 / 1770	104.4 / 2653	82.7 / 2100	88.6 / 2250	61.0 / 1549	88.6 / 2250
Voltage V	220-240	220-240	220-240	220 / 480**	220 / 480**	220 / 480**	220 / 480**	220 / 480**
Phase	Single	Single	Single	Single	Single	Single	Single	Single
Weight Lbs / kg	574 / 260	683 / 310	970 / 440	1280 / 580	1810 / 820	2360 / 1070	3140 / 1450	4850 / 2200

\* Note: The specific index varies on the basis of different materials with different rate of foreign/impure materials.

\*\* Supplied complete with Air compressor 480V

Professional solution for product sorting, quality classification & impurity removal

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Intelligent CCD 1 Chute  
Multi-function Color Sorter  
metra 6as-68



Intelligent CCD 1 Chute  
Multi-function Color Sorter  
metra 6as-68L



Intelligent CCD 2 Chute  
Multi-function Color Sorter  
metra 6as-136



Intelligent CCD 3 Chute  
Multi-function Color Sorter  
metra 6as-204



Intelligent CCD 4 Chute  
Multi-function Color Sorter  
metra 6as-272



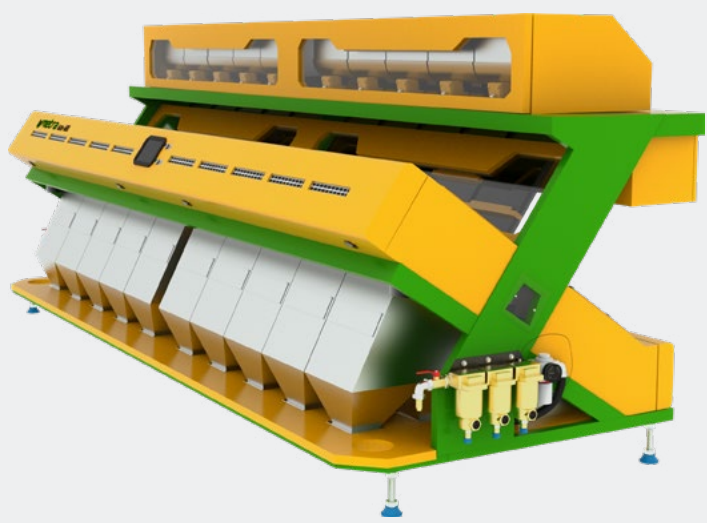
Intelligent CCD 5 Chute  
Multi-function Color Sorter  
metra 6as-340



Intelligent CCD 7 Chute  
Multi-function Color Sorter  
metra 6as-476



Intelligent CCD 10 Chute  
Multi-function Color Sorter  
metra 6as-680





# MULTIPURPOSE MACHINE SHAPE+COLOR SORTING INTELLIGENT SORTING

## FASTER

### Easy, fast

only one key operation via tablet PC, no waiting, pick the grain in one step, save time and low consumption.

## EFFICIENT

### Time saving, labor saving

ntelligent sorter for high speed, stable output / machine 1 hours, =10 people 8 hours, saving time and effort

## ECONOMIC

### Low cost ,more funcations

election kinds of material via one device, Providing processing production, reduce production costs

## HIGH QUALITY

### Better quality, no damage

special chute, accurate elimination of various impurities, nutrition is not lost, food is delicious, more healthy



Input



Accept



Reject



Input



Accept



Reject



Input



Accept



Accept



Input



Accept



Accept



Input



Accept



Accept

## MULTIPURPOSE MACHINE METRA 6AS

**WE HAVE CREATED A COLOR SORTER SUPERIOR TO ANY OTHER BY TAKING GERMAN TECHNOLOGY AS A BASIS YET MAKING THE COLOR SORTER 30% CHEAPER, THREE TIMES MORE PRODUCTIVE AND TWO TIMES STRONGER.**

### SIMPLE OPERATION

ONE person is all it takes to operate. The color sorter works automatically; you just need to turn it ON and monitor the process.

### SERVES OVER 20 YEARS

We strengthened the components of the Color Sorter by Two times.

### 8 MODELS OF COLOR SORTERS

Productivity from 40 to 800 bushels per hour (1 to 20 tons per hour).

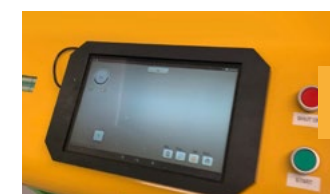
### 1 YEAR WARRANTY

We will exchange all parts under the warranty. Average lifetime of color sorters 20+ years.

## GOOD PRODUCTS SHOWING IN POWER

METRA COLOR SORTER VS "OTHER" BRAND COLOR SORTER IN THE MARKET

### OPERATING SYSTEM



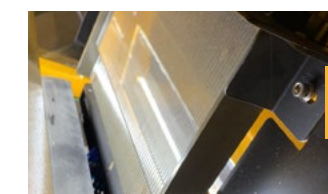
VS



METRA color sorter comes with a mobile tablet computer, easy to use operation interface, and sustainable updated system, with no additional cost - WiFi remote operation, while debugging and detecting materials simultaneously.

Other color sorters use a stationary industrial computer. The operating system is outdated & inconvenient, and it cannot be continuously upgraded. When the product requirements are continuously improving, without the capability of a software update the only choice is for the software to be eliminated or replaced.

### LED LIGHT



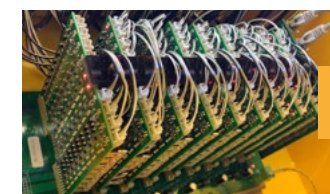
VS



METRA color sorter is a color CCD system: The light source is white light with high brightness, long life, with a stable light source that can identify the material as the actual color - the material of a similar color can be selected meaning that the color selection effect provides better results.

Other manufacturers' color sorters are white CCD systems. The light source presents blue light or other colors. The identification materials are black, gray and white. It is difficult to identify the materials with similar colors.

### PROCESSING SYSTEM



VS



METRA color sorter uses an intelligent and efficient processing system, with a fast response that can maximize the material selection rate. The system comes with sustainable upgrades - increasing the unlimited choice of material selection.

The processing system of other manufacturers' color sorters is backward, the response speed is slow and the net effect of material selection is affected. The system cannot be continuously upgraded limiting its capabilities.

### CAMERA LENS



VS



The METRA color sorting machine adopts a 5400 pixel high-speed camera, which can identify the true color of materials in high-definition, it can recognize the color accurately while identifying the material diameter as small as 0.04mm.

The number of pixels in other manufacturers' color sorters is 2000 and the identification material is black and white imaging. The identification color is fuzzy, and the minimum diameter of the material is 0.08mm.

## Premium quality products

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## METRA COLOR SORTER HIGH ACCURACY SEPARATION RESULTS



### Premium quality products

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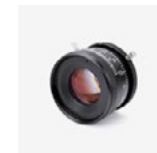
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**Camera** **Nikon**

**Country:**  
Japan

**Distinctive features:**  
High-end customized lens for Metra color sorter

**Function:** Lens



**Core Process Chip**

**Country:** USA

**Distinctive features:**  
Adopt advanced technology of DSP digital signal processs) + FPGA Field programmable gate array)

**Function:** Processing chip

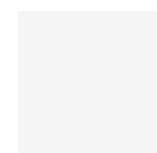


**Filter** **YSC**

**Country:**  
South Korea

**Distinctive features:**  
1. model YAFF 350;  
2. max press: 1.0 Mpa temp: 0-60 flow rate: 53CFM (ANR) ELEMENT no: YAFF-EL350 YSC is a reputable brand with more than 50 years of experience and has the most strict and professional quality control system.

**Function:** Filter water, oil and contaminates in the air



**Stalinite Glass** **metra**

**Country:** USA

**Distinctive features:**  
Pioneering stalinite glass for color sorter, avoiding crack of glass

**Function:** Glass in front of camera



**CCD sensor** **TOSHIBA** **东芝**

**Country:**  
Japan

**Distinctive features:**  
1. 5400 pixel TOSHIBA CCD sensor 5400  
2. 200 million pixels ;  
3. The detective defects can as small as 0.01mm<sup>2</sup>.

**Function:** Image processing



**LED light** **OSRAM**

**Country:**  
Germany

**Distinctive features:**  
Advanced shadowless cold light guarantee high-resolution image and avoid damage to other electronic components due to high temperature.

**Function:** Background light and lighting for materials



**Solenoid Valve**

**Country:** USA

**Distinctive features:**  
1. high-frequency 1200/s  
2. long lifetime: more than 20 billion times  
3. high-speed. response time 0.6 ms

**Function:** Shoot rejects



**Solenoid Valve Protecting System** **metra**

**Country:** USA

**Distinctive features:**  
Exclusive initiative solenoid valve protecting system, extending lifetime of solenoid valve

**Function:** Protecting solenoid valve



**Rodless cylinder** **SVC**

**Country:**  
Japan

**Distinctive features:**  
1. Durable, 304 anti-rust food safety standard aluminum alloy cylinder.  
2. 304 food safety standard stainless steel rack for cleaning brushes,  
3. Model CY3B 20-600  
4. MAX PRESS 0.7mpa

**Function:** Automatic glass cleaning system



**SMPS** (Switched-mode power supply) **OMRON**

**Country:** Japan

**Distinctive features:**  
More than five thousand hours

**Function:** Power supply



**Anti-rust, non-toxic & harmless chute aluminium alloy** **metra**

**Country:** USA

**Distinctive features:**  
1. Super wide chute: 13.03 in, high capacity.  
2. Food safety standard aluminum alloy  
3. Single channel width 0.15 in  
4. 68 channnels

**Function:** Chute for falling materials

- Innovative leading technologies
- Artificial intelligent multifunction sorting
- Color sorting plus shape sorting
- Artificial intelligent light controlling system
- User-friendly one-key artificial intelligent operation
- APP remote control
- Visible image capture system
- Automatic dust sucking system
- Customized sorting program
- Artificial data back-up
- Self-developed software
- Kilomega high internet speed

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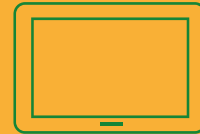
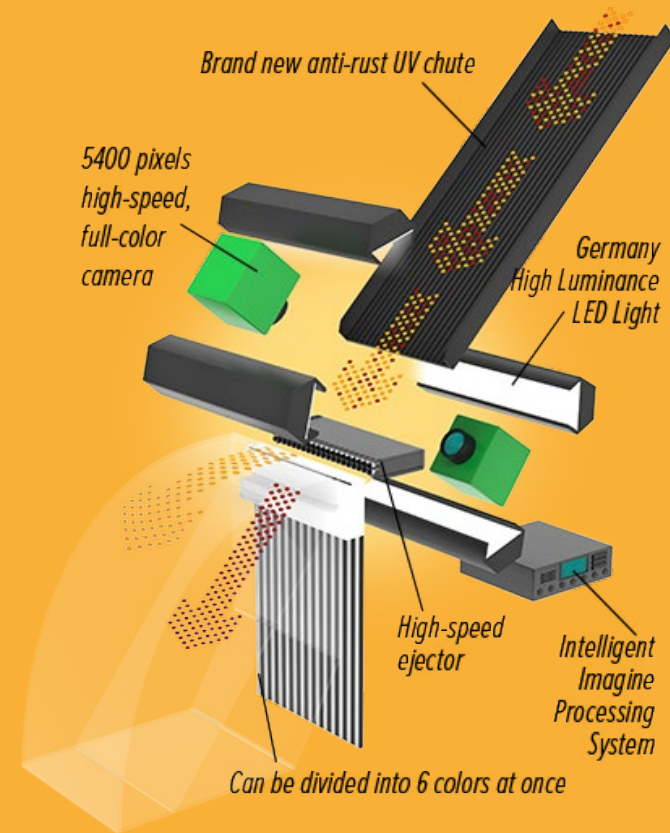
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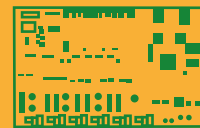


## 8 ADVANTAGES OF THE INTELLIGENT FULL COLOR CCD SORTER



### Remote Control and One-Key Operation

Detachable Lenovo tablet with a personalized operation system, 30 initial memorization sorting programs, One-key automation switchover and adjustment.



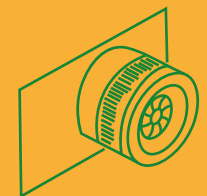
### Intelligent Image Processing System

Identification scanning ability with speeds of up to 30,000 times per second/ Real time large data analysis that can fulfill many complex algorithms.



### High-speed transmission system

High speed internet with tech support TP/TCP protocol, Internet remote maintenance function meaning that your system could be set up remotely by experts with accordance to your needs - This allows you to have the correct set up without clicking a button! Allow our experts to set up your configuration.



### Advanced Image Acquisition

With 5400 pixel, super high-resolution full color Toshiba CCD camera, defects as small as 0.01mm<sup>2</sup> can be sorted out (Impurity value can be adjusted according to different commodities and customers needs in order to meet different batch and sorting requirement.)



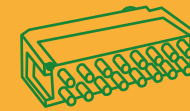
### German High Luminance LED Light

Shadow free LED lighting system with high luminance, precise detection, and a stable frequency that ensures the highest sorting accuracy.



### Brand new anti-rust UV chute

Wide-angle design, anti-rust, non-toxic & harmless aluminium alloy - in line with international safety standards, ensuring the smooth slide of the commodity, reduce waste, and achieve the maximum capacity. Customizable according to different commodities.



### High-speed electromagnetic ejector

Imported metal-magnetic levitated ejector that passed a pressure test 2 billion times, making it durable, fast responding - with precise detection & improved accuracy while reducing energy consumption.



### Flexible mode wide application

One machine that can achieve screening to various commodities while meeting the color sorting requirement of any and all agricultural products, industrial products and other special commodities.

## METRA COLOR SORTER

### Camera:

Phoenix, made in China

### CCD:

Toshiba, made in Japan

### Power Supply Chip:

TI, made in USA

### LED:

Osram, made in Germany

### SMPS:

Omron, made in Japan

### Discrete Device:

ON, made in USA

### Filter:

YSC, made in Korea

### Cylinder:

SMC, made in Japan

### Core Process:

Intel, made in USA

### D/A Chip:

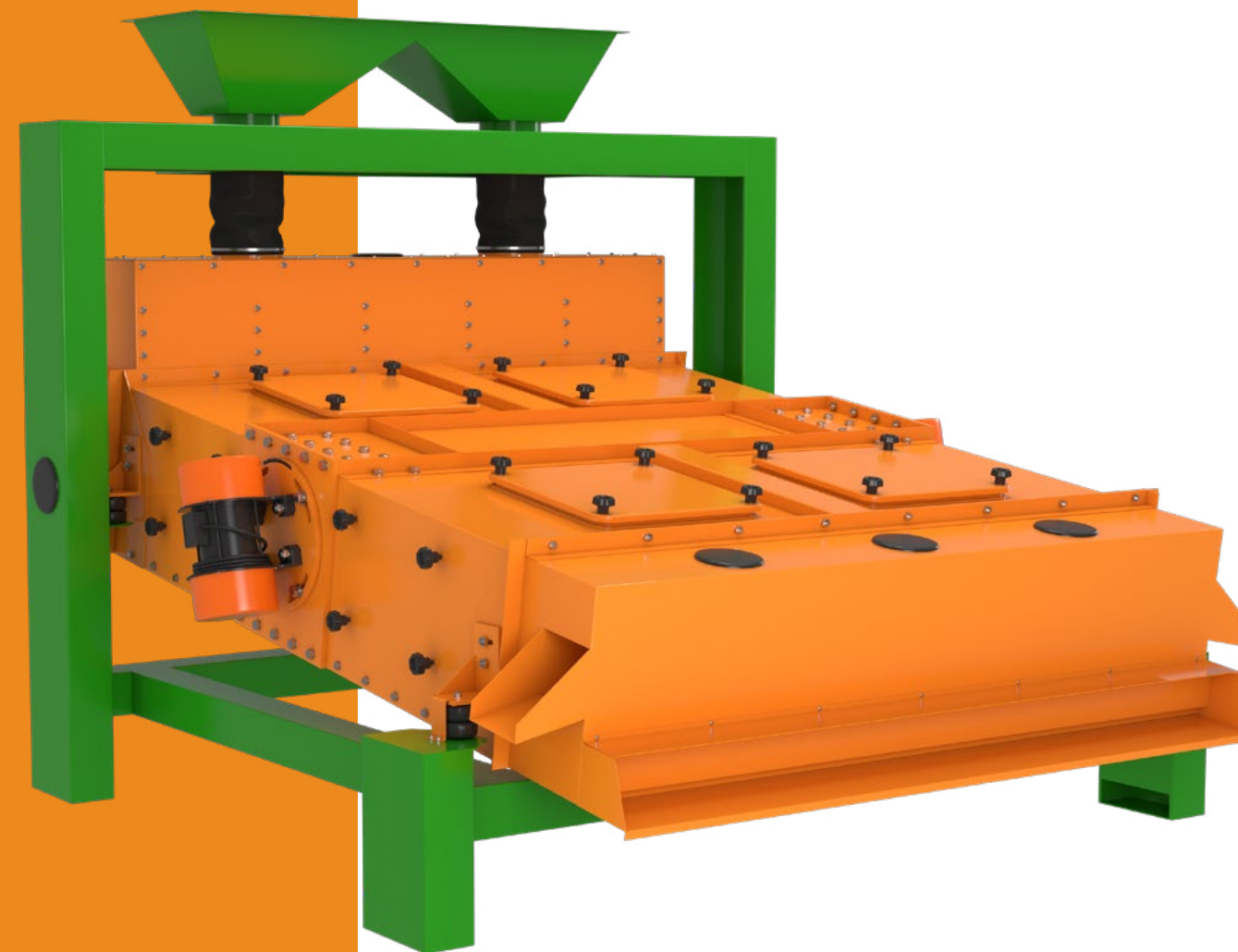
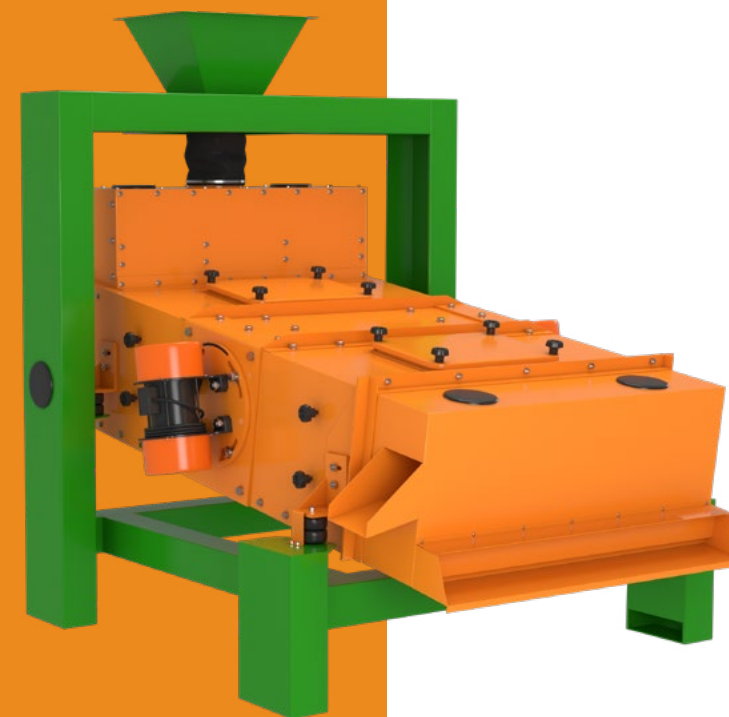
ADI, made in USA





# VIBRATION GRAIN CLEANER

We offer 4 models of Vibration Grain Cleaners with capacities ranging from 400 to 2,000 bushels per hour or 10 to 50 metric tons per hour.



Vibration Grain Cleaner



## MODELS:

Metra VDSC-400

Metra VDSC-600

Metra VDSC-800

Metra VDSC-2000

TECHNICAL PARAMETERS METRA VDSC

Models	METRA VDSC 400	METRA VDSC 800	METRA VDSC 1600	METRA VDSC 2000
Productivity in grain cleaning in Hour	400 bushels 10 tons	800 bushels 20 tons	1600 bushels 45 tons	2000 bushels 50 tons
Screen size in cm	31.5 x 47.2 80 x 120	39.4 x 70.9 100 x 180	59.0 x 90.5 150 x 230	70.8 x 90.5 180 x 230
Energy consumption HP kW/Hour	0.7 0.5	1.0 0.75	2.0 1.5	3.0 2.2
Length in / mm	64.9 / 1648	97.3 / 2470	116.5 / 2960	116.5 / 2960
Width in / mm	63.0 / 1600	61.0 / 1550	85.9 / 2180	97.6 / 2480
Height in / mm	57.2 / 1452	60.2 / 1530	64.4 / 1636	73.7 / 1873
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz
Weight Lbs / kg	880 / 400	1220 / 550	1500 / 680	2425 / 1110

The vibration cleaner Metra has a double screen for better grain cleaning results.

IT IS DESIGNED WITH DOUBLE-DECKED SIEVES, WITH DIFFERENT SPECIFICATIONS, WHICH CAN SEPARATE LARGE, MEDIUM AND SMALL IMPURITIES FROM WHEAT, PADDY, CORN AND OTHER GRAINS. IT IS EQUIPPED WITH TWO LAYERS OF SCREEN WHICH MAKES BETTER CLEANING EFFICIENCY.

- ✓

Simple structure, steady function, cheaper price and long-life using.
- ✓

Optional vertical aspirator has high efficiency of removing light impurities and dust.
- ✓

High capacity, low noise and low power consumption.
- ✓

Driven by a pair of vibrating motors, vibrating direction & inclination of sieve cover are adjustable.

Premium quality products

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metra vdsc-400



metra vdsc-800



metra vdsc-1600



metra vdsc-2000

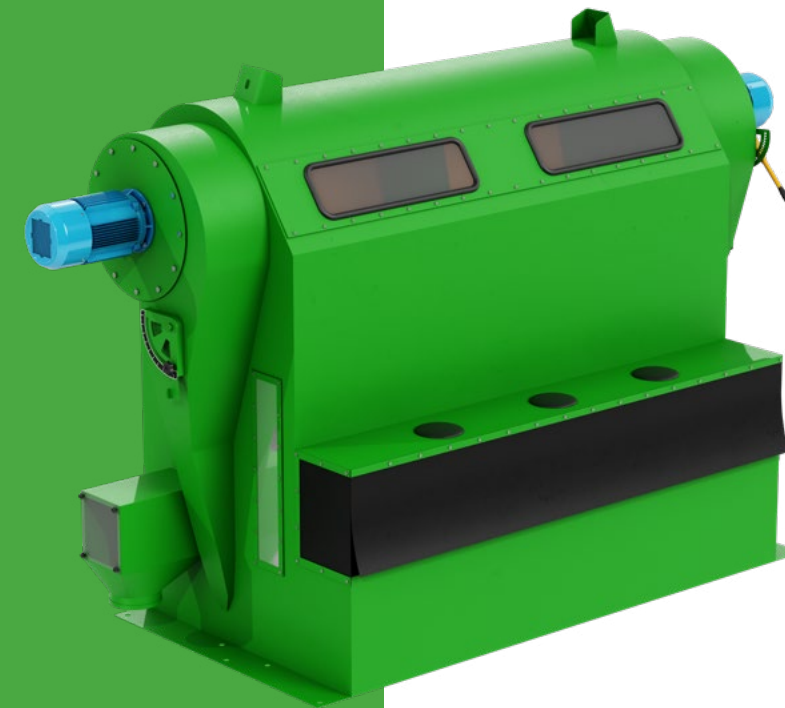






# AIR RECYCLING ASPIRATOR

We offer 3 models of Air Recycling Aspirators with capacities ranging from 400 to 2,800 bushels per hour or 10 to 70 metric tons per hour.



Air Recycling Aspirator

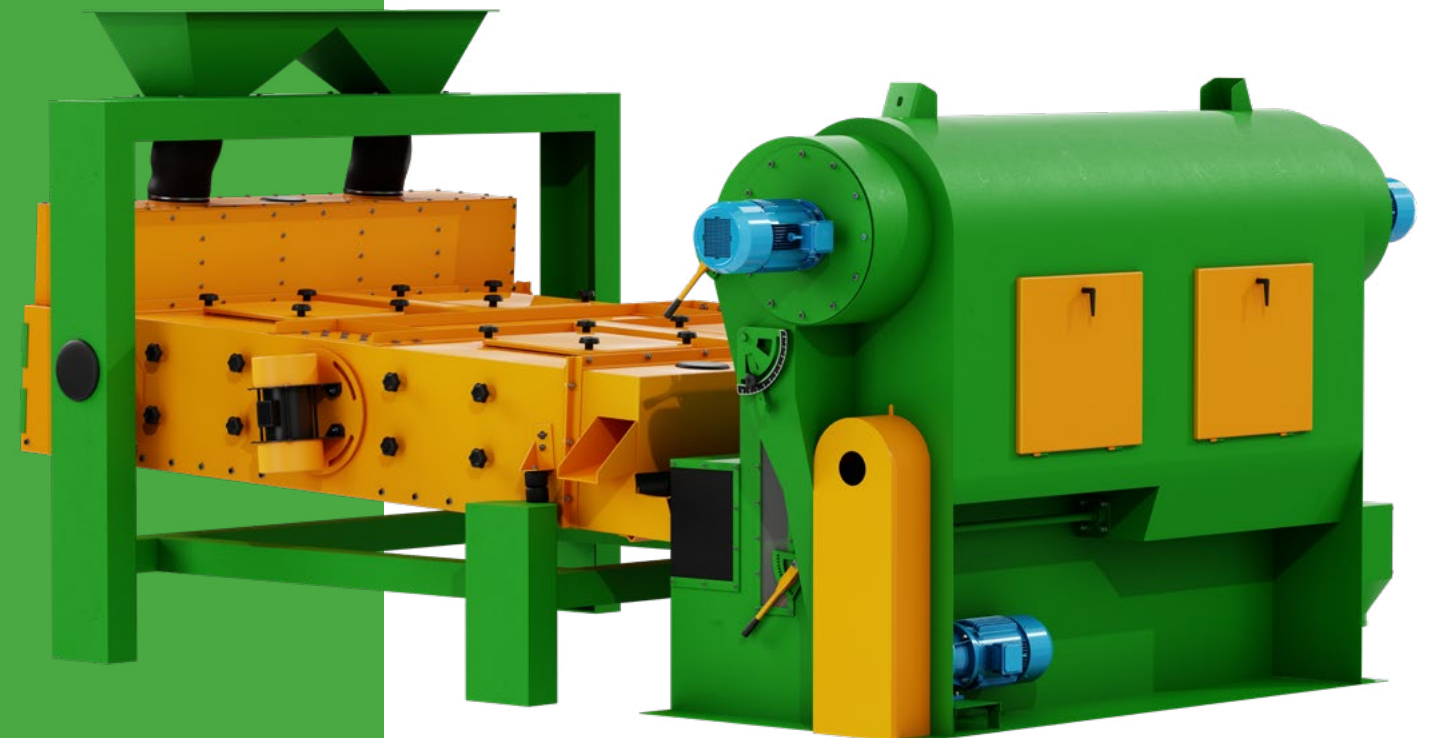


## MODELS:

Metra ARC-400

Metra ARC-800

Metra ARC-2000



# TECHNICAL PARAMETERS METRA ARC AIR RECYCLING ASPIRATOR

Models	METRA ARC 400	METRA ARC 800	METRA ARC 2000
Productivity in grain cleaning in Hour	800 bushels 20 tons	1000 bushels 25 tons	2800 bushels 70 tons
Supplementary air intake cfm m³/h	280 480	310 525	377 640
Energy consumption HP kW/Hour	3.95 2.95	3.95 2.92	7.4 5.5
Length in / mm	63.5 / 1613	87.7 / 2226	109.3 / 2776
Width in / mm	39.4 / 1000	39.4 / 1000	39.4 / 1000
Height in / mm	68.7 / 1745	68.7 / 1745	68.7 / 1745
Weight Lbs / kg	1015 / 460	1103 / 500	1720 / 780

THE ARC RECIRCULATING AND SELF-CLEANING EXHAUST AIR ASPIRATOR IS AN AUXILIARY EQUIPMENT FOR GRAIN CLEANING, DESIGNED TO REMOVE LIGHT IMPURITIES AND DUST FROM THE GRAIN MASS. IT CAN BE INTEGRATED WITH OTHER CLEANERS SUCH AS THE VDSC VIBRATORY CLEANER OR SEPARATELY IN THE CLEANING PROCESS.

- ☒ Built-in fan and air recirculation system to separate dust and light impurities
- ☒ The air channel can be adjusted according to the requirements to achieve the best impurity cleaning result.
- ☒ Unique impurity extraction system from the air box for good sealing of effective impurity precipitation
- ☒ The pressure valve at the grain outlet can close automatically to ensure independent air circulation and no dust flying around. No harm to the environment

Premium quality products

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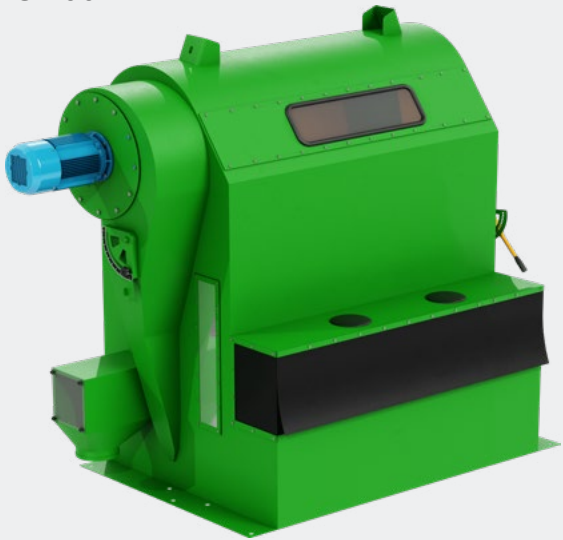
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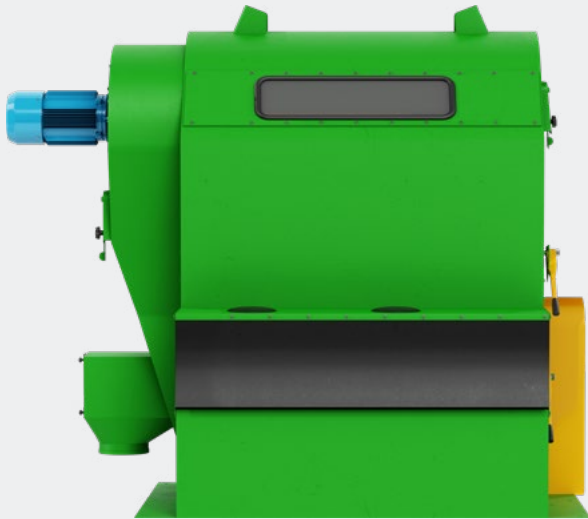
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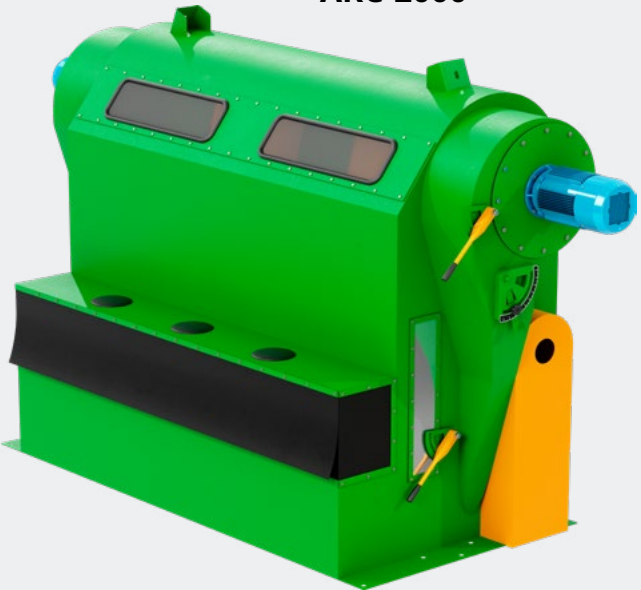
METRA  
ARC-400



METRA  
ARC-800



METRA  
ARC-2000







# MOBILE GRAIN CLEANER FROM METRA

The materials are separated by two winds in the air screening inlet and outlet boxes.

Light impurities are separated and discharged from the machine through the dust collector and impurity discharge auger; large impurities and small impurities are discharged through the impurity discharge pipe after being screened, and the remaining better materials are screened out of the grain tank by the wind and enter the specific gravity selection platform.

The materials pass through The stratification is carried out by the action of wind. The lighter materials (grates, mildew) pass through the miscellaneous bucket discharge machine, and the full materials enter the screening and classifying machine (optional)

The materials are divided into 3-5 grades according to their geometric dimensions.

Mobile Grain Cleaner



**MODEL:**

Metra MGC-800



TECHNICAL PARAMETERS AND PRICE METRA MGC-800  
MOBILE GRAIN CLEANING SYSTEM

Models	METRA MGC 800
Productivity in grain cleaning (Commercial Grain) in Hour	1200 bushels 30 tons
Table Size in mm	80.7×76.8 2050×1950
2x Sieve Screen in mm	59.1×59.1 1500×1500
Sieve Layer	2 layers
Selection rate %	≥98
Clearness Rate %	≥99
Broken Rate %	≥5
Total Power HP kW	42.9 32
Measurements in mm	135.9×104.4×128 3450×2650×3250
Weight Lbs / kg	8600 / 3900
Moving speed mi/h km/h	≤3.1 ≤5

Premium quality products

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METRA MGC-800







# GRAVITY-ACTING DESTONER & BLOWING TYPE GRAVITY TABLE

## THE METRA GDSM-400.

It boasts remarkable capabilities in sand and stone removal while maintaining low energy consumption and minimal noise and dust emission.

## THE METRA BLGS-200 GRAVITY TABLE

is designed for the separation of dry bulk materials of uniform size but differing in mass, this blowing-type gravity separator excels in eliminating moldy, blighted, and insect-infested grains, ensuring only the highest quality grains are processed.



Gravity-acting Destoner



**MODEL:**

Metra GDSM-400



Blowing Type Gravity Table



**MODEL:**

Metra BLGS-200

# GRAVITY-ACTING DESTONER FROM METRA

Models	METRA GDSM-400
Productivity in grain cleaning in Hour	400 bushels 10 tons
Screen width in mm	39.4 1000
Air flow rate cfm m³/h	4710 8000
Energy consumption HP kW/Hour	0.67 0.50
Length in / mm	59 / 1500
Width in / mm	49 / 1246
Height in / mm	75 / 1900
Weight Lbs / kg	882 / 400

## THE METRA GDSM-400

is a pinnacle of grain cleaning technology, featuring a dual-surface design for optimal sorting and impurity removal. Supported by shock absorbers for stable operation, this machine integrates air flow, vibration, and sieving to achieve unparalleled efficiency and performance. It boasts remarkable capabilities in sand and stone removal while maintaining low energy consumption and minimal noise and dust emission. With adjustable inner sieve angles and air supply, it caters to various grains and specific cleaning tasks, ensuring your product's purity and quality.

# BLOWING TYPE GRAVITY TABLE FROM METRA

Models	METRA BLGS-200
Productivity in grain cleaning in Hour	200 bushels 5 tons
Screen Area ft² m²	39.4 3.66
Working Air Pressure psi pa	0~0.15 0~1000
Energy consumption HP kW/Hour	17.90 13.35
Length in / mm	151.2 / 3840
Width in / mm	83.1 / 2110
Height in / mm	80.3 / 2040
Weight Lbs / kg	3090 / 1400

## THE METRA BLGS-200 GRAVITY TABLE


is designed for the separation of dry bulk materials of uniform size but differing in mass, this blowing-type gravity separator excels in eliminating moldy, blighted, and insect-infested grains, ensuring only the highest quality grains are processed. Ideal for when air aspiration and screening reach their limits, the BLGS-200 acts as an essential addition to your cleaning equipment system, not as a replacement. It efficiently removes both light and heavy impurities, including husks, immature, sprouted, and insect-damaged grains, through its precise sorting process.

Premium quality products

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METRA GDSM-400



METRA BLGS-200







# METRA SEED TREATERS

We offer **5 models** of Seed Treaters with capacities ranging from **120 to 800 bushels per hour** or **3 to 20 metric tons per hour**.



Seed Treater



## MODELS:

Metra STM-120  
Metra STM-200  
Metra STM-800  
Metra STM-800S  
Metra STM-800P



TECHNICAL PARAMETERS AND PRICE METRA SEED TREATERS

Models	STM-120	STM-200	STM-800	STM-800S	STM-800P (+ 3 peristaltic pumps system)
Productivity (on wheat seeds) in Hour	120 bushels 3 tons	200 bushels 5 tons	800 bushels 20 tons	800 bushels 20 tons	800 bushels 20 tons
Energy consumption kW/Hour	1.1	1.6	6.6	4.0	2.7
HP	1.5	2.1	8.9	5.4	2.0
Tank for working fluid gal	13.2	26.4	63.4	79.3	66
L	50	100	240	300	250
Dosage range gpm	0.02 - 0.9	0.02 - 0.9	0.02 - 0.9	0.02 - 0.9	0.02 - 1.6
l/min	0.1 - 3.3	0.1 - 3.3	0.1 - 3.3	0.1 - 3.3	0.1 - 6.0
Power consumption	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz	220V, 60Gz
Length in	138.6	110.2	205.5	145.7	84.7
mm	3520	2800	5220	3700	2150
Width in	47.8	79.0	191.0	145.7	70.9
mm	1210	2000	4850	3700	1800
Height in	78.0	102.4	169.3	177.2	98.4
mm	1980	2600	4300	3520	2500
Weight Lbs	331	486	1433	1764	684
kg	150	220	650	800	310

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METRA STM-120



METRA STM-200



METRA STM-800



METRA STM-800S



METRA STM-800P  
(+ 3 peristaltic pumps system)





## APPLICATIONS OF METRA SEED TREATERS



**Agricultural Farms**

Treating seeds before planting to protect against diseases and pests



**Seed Processing Plants**

Mass treatment of seeds to prepare them for planting



**Research Institutions**

Testing protective agents and seed treatment methods

## FEATURES OF METRA STM - PERFECT SEED TREATMENT

### 1 OPERATION OF THE SEPARATE SUPPLY SYSTEM

The separate supply system utilizes NP-02 type peristaltic dosing pumps, with the number of pumps determined by the components of the working solution, including water. Flow rates and component percentages are set via a central control panel or individual dispensers. Water is supplied from the main tank of the treatment unit.

### 2 MONITORING AND PREPARATION OF THE WORKING SOLUTION

Dispensers continuously display real-time information on the supplied amounts of water and other components. The working solution is prepared in the hydraulic line before application to the seed material in the treatment chamber. The system also adjusts the amount of working fluid based on changes in seed supply.

- ✓ High precision dosing ensures accurate application of treatment liquids for optimal seed protection.
- ✓ Quick adjustment of the required application rate of the working liquid enhances treatment efficiency.
- ✓ Available in both mobile and stationary designs, these seed treaters can adapt to various operational environments.
- ✓ Capable of treating various types of seeds, including cereals, legumes, soybeans, and corn.
- ✓ Equipped with peristaltic pumps for precise delivery of working liquids.
- ✓ Designed to minimize the use of toxic chemicals while maximizing ecological benefits.

## THE SEED TREATERS FROM METRA CAN WORK WITH VARIOUS TYPES OF GRAINS, INCLUDING CEREALS, LEGUMES, SOYBEANS, SUNFLOWER, AND CORN.

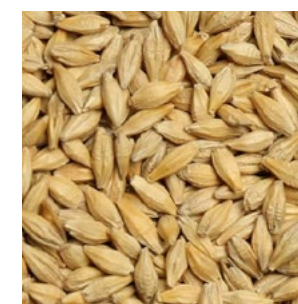
Treat the seeds with water solutions or suspensions of treating agents for protection against diseases and pests



**OATS GRAIN**



**RAPESEED**



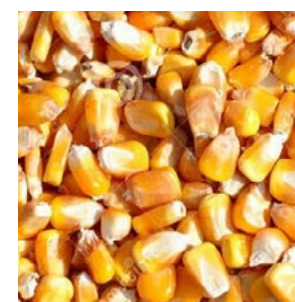
**BARLEY GRAIN**



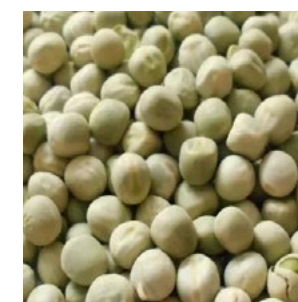
**TEFF SEEDS**



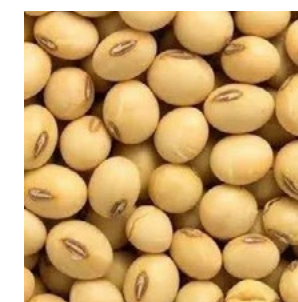
**WHEAT GRAIN**



**CORN GRAIN**



**PEAS**



**SOYBEANS**

## SEED TREATERS HELP PROTECT SEEDS FROM DISEASES AND PESTS

### SEED PROTECTION

Seed treaters apply chemical solutions to protect seeds from diseases and pests

### PRECISE DOSING

The machines ensure accurate dosing of treatment liquids, optimizing the amount of chemicals used

### MIXING AND LOADING

Automatically mix, load, and treat seeds, reducing manual labor and ensuring even coverage

## FOR MORE DETAILS, PLEASE CONTACT US!

110 Boston Rd,  
Taylorsville, NC 28681,  
United States

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[bit.ly/2EhXXI6](https://www.youtube.com/watch?v=bit.ly/2EhXXI6)  
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## SERVICE COMMITMENT

### 24/7 technical support.

An intelligent system is built into each model with the help of which we can connect to the machine at any time, help you adjust your required settings, or make diagnostics before the cleaning season, as well as after it.

### We take care of everything from delivery to training



Delivery anywhere in the world



Complimentary lifetime support



Set up on site and remotely



We provide training on how to operate the equipment



## Professional solution for grain cleaning, quality classification & impurity removal

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**HIGH EFFICIENCY**

**HIGH QUALITY**

**LOW COST**



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