

THE CLIPPER SUPER K SEED / GRAIN CLEANER SERIES

- Dual Purpose*
- Precision Cleaning
 - Fast Cleaning

Many qualities of precision seed cleaners incorporated into high capacity grain cleaners to produce the popular Clipper Super K Series.

THE CLIPPER SUPER K SEED / GRAIN CLEANER SERIES

Available in three designs . . .

SUPER K 2248 D2A

Twin Suction

One air separation before screening . . . the second after screening.

SUPER K 2248 BD

Twin Suction • Bottom Blast Fan (featured)

One air separation before screening . . . the second top fan is synchronized with the bottom blast fan after screening.

Plus . . .

SUPER KV 4868 BD

Fully illustrated and described on a separate page.

SPECIFICATIONS

Model	K 2248 D2A	K 2248 BD
No. of Screens in Cleaner	5	5
No. of Screens Furnished	5	5
Screen Size — Top Scalper	54"x60"	54"x60"
Screen Size — Full Length } Scalping Sifting	54"x86"	54"x86"
Extreme Height	122"	131"
Extreme Length	156½"	162½"
Extreme Width	90½"	91"
Length on Floor	156½"	156½"
Width on Floor	71"	71"
Width Between Sills	62"	62"
Height Where Seed Enters	122"	131"
Height to Drive Shaft	98"	105½"
Shipping Weight (lbs.)	7000	7000
Drive Shaft Dia.	1-15/16"	1-15/16"

Width specifications listed above do not include dimensions for the modular V-belt guards.

The one foot narrower "9" size is available by special request . . . 42" wide screen size.

GRADUATED SCREEN SIZES IN THREE-PIECE SCREENS

Graduated screen sizes can be specified for the 3-piece 86" screens. A combination of different sizes or shapes supplies more thorough cleaning and capacity.

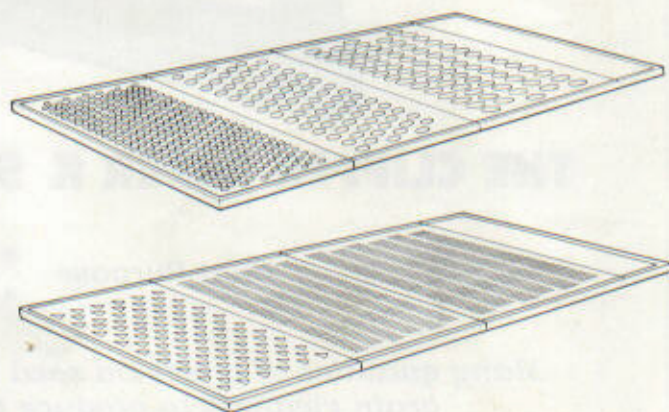
Top Scalping Screens

The product load is heaviest where the commodity is first fed onto the screen. The largest perforation is used in this first section. Smaller perforations, graduated in size, are used in the second and third sections. Each of the three perforations allows the good commodity to pass through . . . at the same time, better able to hold up large trash until it reaches the discharge spout. Sticks will not up-end and fall through.

Bottom Sifting Screens

The bottom screen in each shoe can also be dressed with a combination of screens with different shaped perforations to take out contaminants which require dissimilar shapes . . . for example, combine oblong slot with a triangle for difficult separations.

GRADUATED SCREEN SIZES



Graduated screen sizes on 3-piece 86" screens are optional, and can be ordered for any Clipper Super K Cleaner from our inventory of over 200 screen selections.

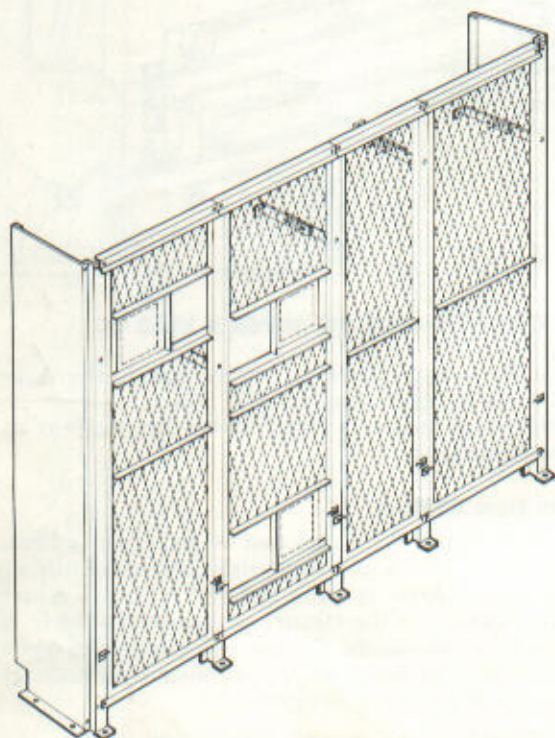
STANDARD FEATURES

BALANCED CONSTRUCTION

Excessive vibration is eliminated in all Super K Cleaners. The two shoes are counter-balanced, designed to shake the screens, not the cleaner. Vibrations are cancelled out in the frame of the cleaner and not transmitted to the building housing the cleaner.

V-BELT GUARDS

Modular guards are included to meet more stringent requirements for operator protection. They are built in sections of expanded metal . . . construction enables easy access for making adjustments to the cleaner and commodity sampling.



The above illustration shows examples of access opening positions with slide gate covers. End frames and slide gate covers are solid metal design.

HOPPERS

The customer has a choice of a variety of hoppers. The Chek-Flo Metering Hopper is especially designed to handle any and all commodities, and is used with a variable hopper drive at additional cost. Unless otherwise specified, the Hi-Capacity Brush Hopper is furnished.

VARIABLE SHOE SHAKE

This feature controls the action of the commodity as it travels down the screens. Many cleaning jobs require more or less action. For instance, fast shake is needed to make grass seed flow over wire screens . . . slow speed insures best sifting of weed seeds from evenly shaped, smooth flowing seeds and grains. The variable shoe shake gives a wide, continuous range adjustment of screen movement up to approximately 450 vibrations per minute, allowing the operator to select the speed which produces the best cleaning results.

AUTOMATIC TRAVELING BRUSHES

Brushes cross back and forth under each screen, keeping screen perforations open. The nylon brushes are adjustable to compensate for bristle wear. The No. 80-77 double roller chain brush drive activates the brush mechanism, assuring trouble-free operation.

HI-STATIC FANS

Clipper Super K Cleaners are equipped with hi-static fans as standard equipment. Larger motors and higher R.P.M. fan speeds are an option to enable these cleaners to be used with dust filter systems.

A dust filter system creates a static pressure up to three times greater than generated by a standard dust collector. Top fan speeds are increased to 1350 R.P.M. to operate against the increased resistance when filtering air through a fabric system before it is released into the atmosphere.

Hi-static fans are ruggedly constructed of cast steel with the hub and arms in one piece. The fans will not disintegrate at the higher speeds required.



COMMODITY FLOW

Screen Performance on All Clipper Super K Cleaners

The commodity discharges from the feed hopper in a uniform layer across the full width of the two-piece 60" scalper screen. This screen, equipped with screen cleaning brushes, removes bulky trash which it discharges to a catch-all spout.

The good product falls through and is routed to the splitter where the flow is evenly divided . . . half to the upper shoe and half to the lower shoe. Each counter-balanced shoe carries two 3-piece 54" x 86" screens . . . the top screen for scalping and the lower screen for sifting. The overs from both sifting screens are rejoined and discharged from the cleaner through a slotted opening which extends across the full width at the bottom of the machine.

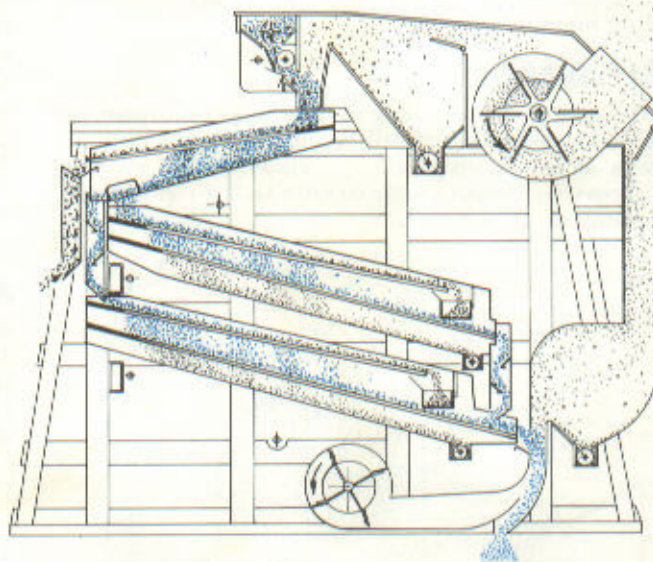
Air Performance on Clipper Super K 2248 D2A

The first air separation takes place as the commodity discharges from the feed hopper, removing dust and lightweight foreign material. After all screening, the second fan performs a back air separation to remove any light, chaffy material not removed by the first air and the screens. Both suction fans are precisely controlled to permit close air separation by weight.

Air Performance on Clipper Super K 2248 BD

As the commodity discharges from the feed hopper, it passes through the hopper air leg connected to one of the top suction fans. A stream of air is passed through the product to remove lightweight trash and dust. The product flow passing over the two lower screens is rejoined and routed through the vertical air column generated by the bottom blast fan. The second top fan, synchronized with the bottom blast fan, carries lightweight foreign material and dust to the dust collecting system. This precise, final air separation is the same as used on Clipper Precision Seed Cleaners.

The Variable Air Regulator permits fast, accurate bot-



COMMODITY FLOW SUPER K 2248 BD

tom blast fan adjustments to supply exactly the right amount of air for each separation.

Fan discharge angle is fixed at 45° to the rear as standard equipment.

Optional Flow Feature

Each Clipper Super K Cleaner can be screened to clean alternate loads of two different commodities requiring different screen sizes, routing the entire flow to either shoe. The capacity of the cleaner is reduced to the level which one shoe can handle. This feature eliminates down time for screen changes when handling commodities with overlapping harvest seasons.

Top Shoe Only . . . remove divider pan.

Bottom Shoe Only . . . remove divider pan — install blank pan.

SPLIT-FLOW DESIGN

Each Clipper Super K Cleaner is equivalent to two separate three-screen cleaners mounted in a single frame. Double Screen Area . . . Double Capacity. The commodity is split-fed after heavy trash is removed to produce twice the capacity.

APPROXIMATE CAPACITIES

Bu. per Hr.	K 2248 D2A	K 2248 BD
Precision Cleaning	400-700	400-800
Fast Cleaning	2000-3000	2000-3000

All capacities will vary according to area and amount of foreign material in the commodity to be cleaned.

Drive Shaft Speeds	Horsepower Required	
	K 2248 D2A	K 2248 BD
1000 R.P.M.	10	15
1350 R.P.M. — used when a dust filter system is used with the cleaner	15	25