

ROTEX[®]

GRAIN CLEANERS



Model 522 ROTEX Grain Cleaner at United Coop, Inc., Poak, Nebraska

CATALOG 747

ROTEX

GRAIN CLEANERS



Model 722

Today's grain cleaning requires ROTEX accuracy

The highest ever standards for grain quality, required by both customers and governmental agencies, have sharply increased the importance of precision grain cleaning methods for today's markets. Fines, dust and dirt must be removed to much more critical tolerances than ever before, and at higher production rates.

These new standards of quality require grain cleaning equipment which is engineered specifically for such difficult applications. ROTEX Grain Cleaners are engineered with the right action—a horizontal gyratory motion combined with an effective mesh cleaning

system—to achieve this required accuracy, and at the same time maintain high production rates using less screen area than other types of equipment.

The ROTEX longstroke / low frequency motion is the key to ROTEX efficiency. This motion quickly stratifies the fines down against the screen openings without remixing, as the fines are positively conveyed over the screen, resulting in maximum removal. Changing screens is fast and easy too, therefore ROTEX can be quickly fitted with the exact size screen opening for the grain being cleaned, without com-

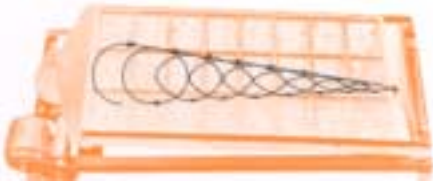
promising quality. This means maximum quality with minimum downtime.

Dependable ROTEX Screeners have been used successfully for over 40 years in the feed and grain industries. Now they are available in many standard models for scalping, fines removal or a combination of both, to serve today's exacting grain cleaning requirements. For further information consult your local ROTEX representative, or our application specialists in Cincinnati.

ROTEX INC.

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EFFICIENT SCREENING ACTION

The ROTEX gyratory motion of the near-level screen box varies from a circular motion at feed end, to a longitudinal stroke at discharge end. The circular action immediately distributes the grain over the entire width of the screen surface, insuring full utilization of the entire screen area and eliminating the need for a distribution device. This action also causes fines to quickly sink down against the screen mesh. Since there is no violent agitation or vertical hop, fines hug the screen surface and readily pass through. At the same time, larger particles are positively conveyed toward the discharge end, where the gentler ROTEX longitudinal motion extracts the more stubborn near-size particles, such as broken grain and weed seeds.

The ROTEX long stroke / low frequency motion (up to 31/2" stroke @200 rpm) achieves unmatched fines removal at rates as high as 125 bu./hr. per sq. ft. of screening surface. The efficient gyratory screening action removes fines and dust without causing the grain degradation which is typical of equipment having a more violent motion. In addition, because the screen surface is near-level, ROTEX produces sharp, well-defined separations without loss of good product in the fines.



BOUNCING BALLS PREVENT BLINDING, INSURE FINES REMOVAL

To keep the screen surface clean, ROTEX uses a system of resilient balls which continuously tap against the underside of the screen mesh. At the same time, it keeps the screen alive ... providing sufficient agitation to aid particle stratification and to separate particles adhering to one another. The ROTEX bouncing balls insure complete removal of undersize-even materials such as broken pieces of grain that tend to clog other types of equipment. In many cases this freedom from blinding permits the use of smaller screen openings on ROTEX retaining a greater proportion of desirable material that normally is lost through larger openings which must be used on other types of screeners.

ROTEX DESIGN SAVES SPACE, SIMPLIFIES INSTALLATION

ROTEX Grain Cleaners are designed with a lower silhouette than other types of screening equipment. Consider the advantages:

1) Lower headroom permits operation in confined areas, reducing costs of building construction and maintenance.

2) Less conveying equipment is required for elevating material to the feed point. Saves energy, reduces costs.

LOW HEADROOM

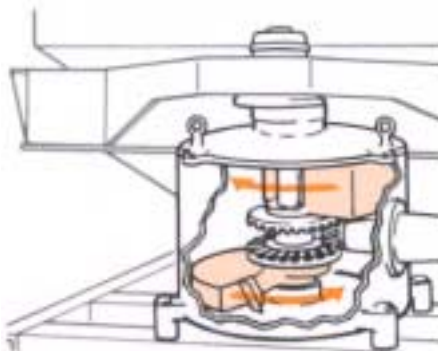


Furthermore, little space is required *around* ROTEX for removal of screens, in contrast with certain other machines which require substantial space at front and back in order to pull out screens.

LOW MAINTENANCE

Rugged construction and simplicity of design make ROTEX dependable in performance even when operated 24 hours per day, 7 days a week, *continuously*. ROTEX Grain Cleaners are engineered with heavy-duty construction to eliminate the maintenance problems of other equipment.

The only lubrication requirements are a semi-annual change of oil in the drive mechanism and periodic greasing of some bearings. For minimum attention, permanently sealed, lubricated-for-life bearings are used where applicable. All slide bearing assemblies (except 70 Series) employ graphite-impregnated carbon block material, which is fully self-lubricating. The 70 Series ROTEX models use a steel slide ball and have a fitting for grease lubrication. For maximum life, all areas subject to wear incorporate abrasion-resistant components, which are readily accessible should replacement ever become necessary.



ROTEX DRIVE PROVIDES BALANCED MOTION

ROTEX Screeners use a smooth counterbalanced motion to drive the screen box. On smaller machines, this is achieved by a single counter-rotating weight to offset the out-of-balance forces of the screen box. On larger machines (50-70-80 Series), two oppositely rotating weights counterbalance the forces of the screen box. Both drives provide smooth, quiet operation. Even when a heavy load of grain hits the screen, the ROTEX positive displacement stroke does not dampen out - its screening remains constant and steady.



FAST SCREEN CHANGES -EASY INSPECTION

The ROTEX "stacked" frame design is easy to disassemble. Patented *Quick-Release Cover Clamps* permit immediate removal of top cover from box frame. Total time required for screen change is less than an hour. Optional pneumatic clamping is also available.

TOTALLY ENCLOSED CONSTRUCTION

The ROTEX Grain Cleaner is completely enclosed. Every joint and connection is sealed to help prevent contamination of grain or atmosphere, thereby providing clean safe operating conditions. Interior sealing, too, prevents cross-contamination of materials between the various screen surfaces ...thus insuring the consistently high quality separations inherent with the ROTEX screening action.

CABLE SUSPENSION ELIMINATES TRANSMITTED VIBRATION



Because of their smooth counterbalanced drive, ROTEX Grain Cleaners can be cable suspended at any desired location to meet space or structural limitations. Cable suspension prevents transmission of motion to or from adjacent equipment in light structures and provides long lasting, quiet performance.

ROTEX[®] GRAIN CLEANERS



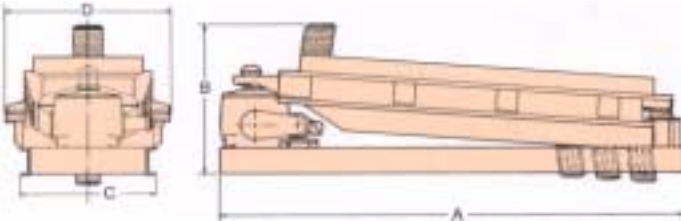
Model 552 ROTEX Grain Cleaner at The Pillsbury Co., Lilly Chapel, Ohio, cleaning corn and soybeans. This model has two independently fed surfaces, providing rates up to 15,000 BPH.



Model 722 ROTEX Grain Cleaners at Burge Corp., Cairo, Illinois, cleaning **whole and cracked soybeans**, at rates up to 9,000 BPH.



Model 722 ROTEX Grain Cleaner, incorporating air separation, cleaning 10,000 BPH of corn and wheat at W G. Thompson's Blenheim, Ontario Elevator.



SCALPING (¾"-1" opening)

Capacity* (BPH)	Model Number	Nominal Area (sq. ft.)	Screen Motion		Motor		Shipping Weight (lbs.)	Approximate Principal Dimensions (inches)				Connectors (Dia. or Oval-inches)			
			Dia. (inches)	RPM	HP	RPM		A	B†	C	D	Inlet	Fines	Product	Overs
10,000	3421	35	2½	243	2	1200	2070	120%	44	67½	69½	18	-	22	10
15,000	821	35	3	227	3	1800	3600	132%	53	70	76½	20	-	24	10
20,000	81	50	3	216	3	1800	3800	165%	55½	70	77½	22	-	26	10
30,000	521	60	3½	199	7½	1200	6270	201	52	77	85½	26	-	30	10
40,000	581	80	3½	199	7½	1200	6500	201	47½	95	105½	28	-	36	10

FINES REMOVAL

5,000	81	50	3	216	3	1800	3800	165%	55½	70	77½	14	10	12x20	-
7,500	521	60	3½	199	7½	1200	6270	201	52	77	85½	16	10	12x24	-
10,000	581	80	3½	199	7½	1200	6500	201	47½	95	105½	18	12	12x30	-
15,000	552**	120	3½	199	7½	1200	6750	206	86***	77	84	17x33***	12	16x30	-
20,000	732**	160	3½	200	10	1200	13100	214%	92***	102	108	17x33***	16	16x30	-

SCALPING AND FINES REMOVAL

2,500	342	23.3	2½	243	2	1200	2080	124%	48	47	54½	12	10	14	10
4,000	642	35	3	216	3	1800	3775	135	55%	69½	60%	10x24	10	10x24	10
6,000	522	60	3½	199	7½	1200	6400	210	55½	77	83½	16	10	12x24	6x12
8,000	582	72	3	216	7½	1200	7000	213	61	82	95½	16	10	12x30	10
10,000	722	80	3½	200	10	1200	12500	216	68½	102	108	18	12	12x30	10
15,000	732**	160	3½	200	10	1200	13100	214%	92***	102	108	12x24	16	18x30	10

*Capacities are based on today's commercial grain cleaning requirements, such as reducing fines in corn from 7% to less than 3%. For your specific requirements, consult ROTEX INC. application specialists.

**Machine has two independently fed surfaces **Includes 24" height for feed splitter

+ Except for scalping, base slope is increased 4° for maximum capacity-"B" dimension must be increased accordingly.

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ROTEX INC. REPRESENTATION
Call TOLL-FREE 1-800-453-2321 for
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