STIRATORS

IN-BIN STIRRING MACHINE

IN-BIN DRYING

GSI Take control.

WHY CHOOSE A GSI STIRATOR?

Whether purchasing a new bin or updating present storage for drying, a StirAtor can cut drying time by 50% in a low temperature bin. A StirAtor can also help store grain by serving as a management tool for grain conditioning.

GSI StirAtors provide a thorough, systematic, and time-tested stirring pattern. The efficiency of the Design III StirAtor is enhanced by its spiral stirring pattern which affects the entire grain mass within each stirring cycle. This stirring pattern allows the augers to spend more time stirring the outside of the bin, rather than the center of the bin — an important feature considering that half of a bin's grain is positioned in the outside one-third of the bin.

Choose a GSI StirAtor with two or three augers for 24' to 36' bins.

DESIGN III STIRATOR

The Design III StirAtor can turn a grain bin into a drying system at a minimum investment. A high temperature, above 10 degree rise, bin dryer has to have a way to dry all the grain to the same moisture. Just running a fan and heater on a bin full of grain will result in 5% grain at the bottom with no moisture removed on the top. A GSI StirAtor ensures that all the grain is the same moisture without requiring a wet tank.

STIRATOR FEATURES:

Rugged Drive: A strong 3/16" aircraft cable drives the machine. No reversing switches.

Disconnect Box: Fused disconnect box protects motors.

Automatic Shut-Off: Shuts the StirAtor down if the trolley binds.

Fused Gear Motor: Protects against electrical problems.

Sealed Bearings: Low maintenance.

Solid State Electronic Tilt Switch: Replaces the mercury switch. Controls the forward motion of the machine. No moving parts.

Gear Motor Ratio: GSI StirAtors use a 9 RPM gear motor.

AVAILABLE OPTIONS:

Stir-Guard: Protects grain from over-stirring. If the StirAtor does not move forward within 45 minutes, Stir-Guard shuts the StirAtor down.

Hard Surfaced Down Augers: The entire lifting surface of GSI's down augers is covered by a durable, stainless steel surface.

Graduated Pitch Augers: Easier start-ups and more flighting at the bottom of the auger where the most grain is stirred.

GSI Air Tubes: Help prevent bin wall grain spoilage.

In-Out Ladder: Since GSI StirAtors stir all the way to the bin wall, removal of the inside attached ladders is recommended. GSI's strong and lightweight alloy steel tubing In-Out Ladder allows for easy entry into the bin.

SPECIFICATIONS

STIRATOR CORN CHART

BIN SIZE	FAN[1] H.P.	AIR FLOW			CORN DRYING CAPACITY (BU/24 HRS) AND RECOMMENDED NUMBER OF AUGERS							
		DRYING RATE MULTIPLIER FOR 2 FANS[2]	CFM FOR 1 FAN	STATIC PRES-SURE FOR 1 FAN	DRYING CAPACITY (BU/24 HRS) RECOMMENDED NUMBER OF STIRRING AUGERS HEAT RISE ABOVE AMBIENT TEMPERATURE							
					25°	AUGERS	50°	AUGERS	75°	AUGERS	100°	AUGERS
24	7.0	1.2	8,500	2.5	408	2	936	2	1536	3	2112	3
	10.0	1.2	9,300	2.9	432	2	1032	2	1680	3	2304	3
	10C	1.5	11,000	3.7	504	2	1224	2	1992	3	2736	3
	15 28"	1.2	12,500	4.5	576	2	1368	2	2256	3	3096	3
	15C	1.4	12,700	4.6	600	2	1416	2	2304	3		
	20C	1.3	15,400	6.2	720	2	1704	3	2784	3		
27	7.0	1.4	9,400	2.1	432	2	1032	2	1704	3	2328	3
	10.0	1.3	10,300	2.4	480	2	1128	2	1872	3	2568	3
	10C	1.6	11,500	2.8	528	2	1272	2	2064	3	2880	3
	15 28"	1.3	14,000	3.7	648	2	1536	2	2544	3		
	15C	1.5	13,800	3.7	648	2	1512	2	2496	3		
	20C	1.5	16,500	4.8	744	2	1800	3	2976	3		
	30C	1.3	20,600	6.7	936	2	2256	3				
30	10.0	1.5	11,000	2.0	504	2	1224	2	1992	3		
	10C	1.7	11,900	2.2	552	2	1320	2	2160	3		
	15 28"	1.4	15,200	3.0	696	2	1680	2	2736	3		
	15C	1.6	14,600	2.9	672	2	1608	3	2640	3		
	20C	1.6	17,200	3.7	762	2	1896	3				
	30C	1.5	21,800	5.3	984	2	2400	3				
33	10.0	1.5	11,600	1.6	504	2	1272	2	2088	3		
	10C	1.8	12,180	1.7	576	2	1344	2	2208	3		
	15 28"	1.5	16,200	2.6	744	2	1776	2	2928	3		
	15C	1.6	15,100	2.3	696	2	1656	3	2712	3		
	20C	1.7	17,800	3.0	816	2	1944	3				
	30C	1.6	22,600	4.2	1032	2	2472	3				
36	10C	1.8	12,400	1.4	576	2	1368	2	2232	3		
	15 28"	1.6	17,000	2.2	768	2	1872	3	3072	3		
	15C	1.7	15,400	1.9	696	2	1680	3				
	20C	1.8	18,300	2.4	840	2	1992	3				
	30C	1.7	23,200	3.4	1056	2	2544	3				

STIRATOR RICE CHART

BIN SIZE	FAN[1] H.P.	AIR FLOW			RICE DRYING CAPACITY (BU/24 HRS) AND RECOMMENDED NUMBER OF AUGERS					
		DRYING RATE MULTIPLIER FOR 2 FANS[2]	CFM FOR 1 FAN	STATIC PRES-SURE FOR 1 FAN	DRYING CAPACITY (BU/24 HRS) RECOMMENDED NUMBER OF STIRRING AUGERS HEAT RISE ABOVE AMBIENT TEMP					
					10°	AUGERS	20°	AUGERS	30°	AUGERS
24	7.0	1.2	6,300	3.3	144	2	480	2	792	2
	10.0	1.2	6,800	3.6	168	2	504	2	864	2
	10C	1.2	9,400	5.6	216	2	696	2	1200	3
	15 28"	na	9,500	5.6	216	2	696	2	1200	3
	15C	na	10,400	6.4	240	2	744	2	1320	3
	20C	na	12,600	8.3	288	2	936	3	1584	3
27	7.0	1.2	7,400	3.0	144	2	552	2	936	2
	10.0	1.2	8,100	3.4	168	2	576	2	1032	3
	10C	1.2	11,000	5.0	240	2	816	2	1368	3
	15 28"	1.4	10,300	4.6	216	2	768	2	1320	3
	15C	na	11,700	5.5	264	2	864	2	1488	3
	20C	na	14,400	7.2	288	2	1056	3	1824	3
	30C									
30	10.0	1.2	9,100	3.0	216	2	672	2	1152	3
	10C	1.3	12,400	4.5	264	2	912	3	1584	3
	15 28"	1.5	10,900	3.8	240	2	816	2	1392	3
	15C	1.4	12,700	4.6	288	2	936	3	1632	3
	20C	1.3	15,500	6.0	336	2	1152	3	1968	3
	30C	1.2	19,200	8.1	408	3	1416	3		
33	10.0	1.3	9,900	2.6	216	3	744	3	1248	3
	10C	1.3	13,600	3.9	288	3	1008	3	1728	3
	15 28"	1.6	11,400	3.1	240	3	840	3	1440	3
	15C	1.5	13,600	3.9	288	3	1008	3	1728	3
	20C	1.5	16,400	5.0	336	3	1176	3	2088	3
	30C	1.4	20,500	6.8	432	3	1512	3		
36	10C	1.4	14,600	3.4	312	3	1080	3	1848	3
	15 28"	1.7	11,700	2.6	264	3	864	3	1464	3
	15C	1.5	14,200	3.3	312	3	1056	3	1800	3
	20C	1.6	16,900	4.2	360	3	1248	3		
	30C	1.5	21,500	5.7	456	3	1584	3		

The **StirAtor Corn Charts** are based on ambient air temperature of 50°F, 60% relative humidity, 16' (4.9 m) of corn, 10% moisture removal (2 points removed in cooling) (25%–17%).

The **StirAtor Rice Charts** are based on ambient air temperature of 80°F, 85% relative humidity, 16' (4.9 m) of rice, 7% moisture removal (19%–13%).

These charts are designed as a guide only. Fan performance will vary considerably from one manufacturer to another and other factors can change the approximate bushels per day. Choose from StirAtor models with two, or three augers to fit bins from 18' (5.5 m) to 48' (14.6 m). Each model gives you all the exclusive StirAtor features that can turn a simple bin into a wet-holding tank, dryer, and storage bin—all in one unit.

[1] Centrifugal Fan

[2] All multiple fans are in parallel. Multiply drying rates x 1.6 for 5 point removal (for corn). All multiple fan static pressures (where multipliers are shown) fall within acceptable performance guidelines.

Visit grainsystems.com for product specs and info

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