

The Leading Grain Stirring Machine

# STIR-RITE



Simple, Rugged & Reliable



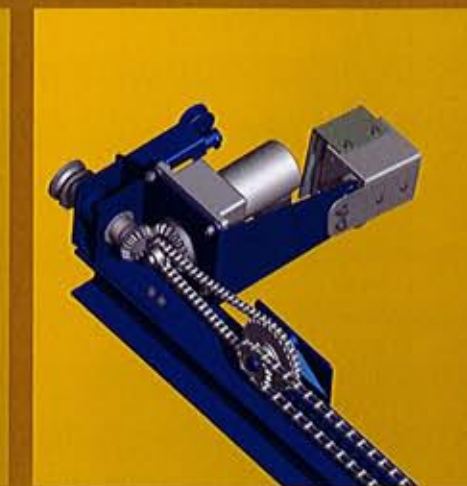
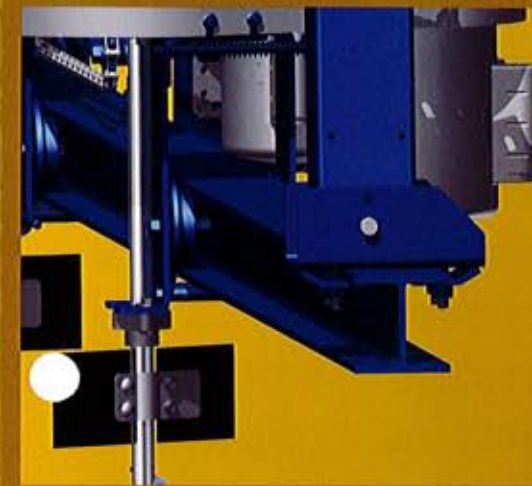
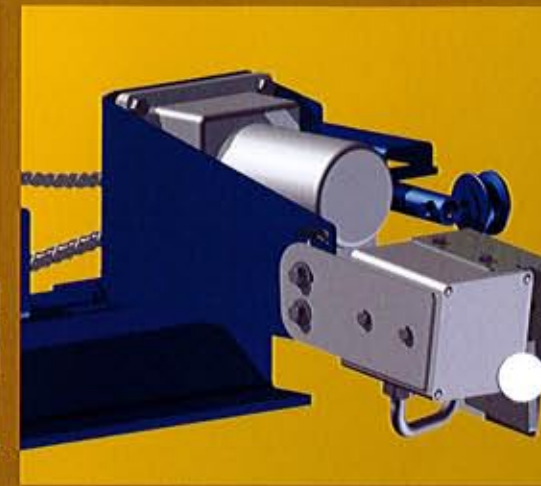
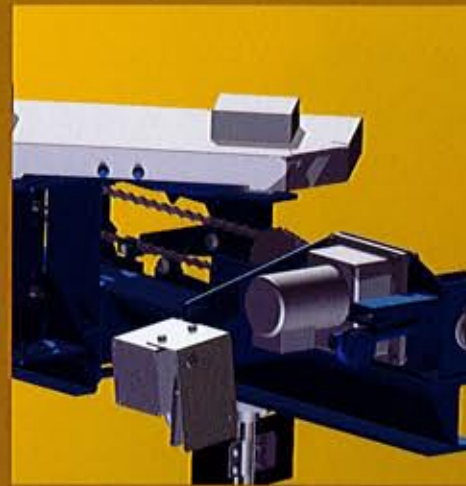
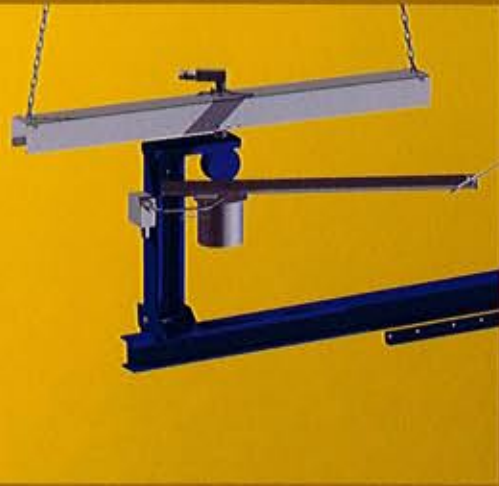


Value of NECO STIR-RITE.

1. Drying will be faster and more efficient.
2. Moves the hottest and driest grain at the bottom upward.
3. All grain mixed and blended until moisture content is uniform.
4. Over drying and under-drying is eliminated allowing for longer storage life.

Innovative Design.

1. Unique stirring pattern.
2. Increasing pitch down auger loosens the entire bin of grain.
3. The unique design of the STIR-RITE allows for additional stirring augers to be added as your operation grows.
4. Starts and advances more easily.



**Gooseneck Pivot Design**

The gooseneck pivot design suspends the inner end of the main beam, permitting the auger to move from the bin center to within 7" of the bin wall. The beam connecting point is moveable to precisely match the STIR-RITE to your bin. This feature assures that your dealer will have a STIR-RITE that fits your bin.

**Positive Chain Drive**

The positive chain drive prevents the possibility of slippage and is easy to adjust. Driven by a double pitch chain, the drive moves all trolleys back and forth in unison. A pivot arm is attached to the outer trolley; its other end is attached to a special link on the chain. The chain rotates around two sprockets and the pivot arm simply follows the chain reversing direction when it goes around each sprocket, eliminating the need for mechanical switches.

**Tilt Safety Switch**

A tilt micro switch is positioned at the outer end of the beam and detects any trail-back of the stirring augers. This shuts down the beam and trolley movement until the augers have a chance to right themselves.

This is important in deep, wet grain.

All electrical connections and enclosures are moisture tight in order to deal with the extreme conditions encountered in drying bins.

**Backbone**

The backbone of the STIR-RITE is a wide flange beam chosen for its high strength and rigidity in relation to weight.

Trolleys roll on long-life cast iron rollers. The rollers are machined to fit between the flanges of the beam. This eliminates the possibility of the trolley coming off during operation.

**Heavy-Duty Gear Motor**

Heavy-duty gear-motor and forged bevel gears supply power to the hardened steel track drive wheel. In the event that an auger encounters an obstruction in the bin, a shear pin is built into this drive to protect the mechanical components.

**Track Support Brackets**

In most cases the track support brackets use the existing bin bolt holes. The track is manufactured from heavy hot-rolled steel bar and is designed not to sag even in the wettest grain.

Optional Fixed Outside Trolley

Why the need for a fixed trolley? The outside of a drying bin can have problems because of temperature differentials between the moist warm air inside the bin, and the much colder temperatures of the sidewall. 12% to 36% of the grain is located in this area and fixed outside stirring augers provide constant stirring of the grain

located toward the outside of the bin. This provides extra loosening, airflow and drying toward the outside of the bin. A fixed auger stirs this portion of the grain constantly while the rest of the augers stir the remainder of the grain. Stirring the grain sooner, and providing a pattern that better matches where the grain is located in the bin.





Choose your STIR-RITE from models with one, two or more augers to fit your bin size and your drying requirements or start with the minimum capacity needed and add additional augers as your operation grows.

The chart below will help in determining your present and future needs regarding the number of augers needed, fan sizes, number of fans and other factors relating to drying.

Fan performance is approximate and varies from one brand to another. Many other conditions will have an effect on the number of bushels per hour. To minimize variables, the figures are based on ambient air temperature of 50° F, 60% relative humidity, 16' of corn and moisture reduction of up to 10%. For conditions other than these, make appropriate adjustments or call the factory for assistance.

BIN DIA	NATURAL AIR			HEATED AIR			100°		125°		150°	
	No. of Augers	Fan H.P.	CFM BU	Fan H.P.	Static Press.	CFM	BPH	No. of Augers	BPH	No. of Augers	BPH	No. of Augers
18	1	.3-5	.5	5	3.5	6,000	21	1	31	1	42	2
	1	1-1.5	1.0	7.5	4.5	7,000	24	1	36	2	48	2
	1	5-7.5	2.0									
21	1	.5-7.5	.5	5	3.0	7,100	25	1	37	2	49	2
	1	1-3	1.0	7.5	3.0	8,700	30	1	45	2	60	2
	1	10	2.0	10	4.0	9,000	31	1	47	2	62	3
24	1	.75	.5	7.5	3.0	9,000	32	1	47	2	62	3
	1	1.5-3	1.0	10	3.5	10,000	35	2	52	2	69	3
	1	10*	2.0	10*	4.0	11,150	39	2	58	2	77	3
27	1	1	.5	7.5	2.5	10,800	37	2	56	2	75	3
	1	1.5-3	1.0	10	3.5	12,000	42	2	62	3	83	3
	1	5x(2)	2.0	10*	3.5	12,000	42	2	62	3	83	3
	1	7.5x(2)	2.0	5x(2)	3.5	13,000	45	2	67	3	90	3
30	1	1.5-3	.5	7.5	2.0	11,500	40	2	60	2	80	3
	1	5-7	1.0	10	2.5	13,000	45	2	67	3	90	3
	1	10x(2)	2.0	15*	3.0	15,240	53	2	79	3	105	3
				7.5x(2)	3.0	16,400	57	2	85	3	113	4
				10x(2)	4.0	18,000	62	2	92	3	124	4
33	1	3	.5	10	2.0	13,500	47	2	70	3	93	3
	1	10	1.0	7.5x(2)	3.0	18,000	62	3	93	3	124	4
	2	10*	2.0	10x(2)	3.0	19,000	66	3	98	3	131	4
				10*x(2)	4.5	21,130	73	3	110	4	146	4
36	1	3-5	.5	10	1.8	14,000	49	2	73	3	97	3
	2	7.5-10	1.0	7.5x(2)	2.8	20,000	69	3	104	3	138	4
	2	10*x(2)	2.0	10x(2)	3.5	22,000	77	3	115	4	153	4
	2	15*x(2)	2.0	10*x(2)	3.8	23,000	80	3	119	3	159	4
42	1	5	.5	7.5x(2)	2.3	21,800	76	3	113	3	151	4
	2	10-12	1.0	10x(2)	2.6	25,600	89	3	133	4	177	4
	3	10*x(2)	2.0	15*x(2)	3.0	30,100	106	3	158	4	211	4
				20*x(2)	3.5	32,000	111	3	166	4	221	4
48	1	5-7	.5	10x(2)	2.5	29,000	100	3	150	4	200	4
	2	7.5x(2)	1.0	20*x(2)	2.7	32,700	113	3	169	4	226	4
	3	20*x(3)	2.0	10*x(3)	3.0	36,300	126	4	188	4	251	4
				15*x(3)	4.0	42,900	148	4	222	4	296	4
				20*x(3)	4.5	44,775	155	4	232	4	309	4



**A Division of GLOBAL Industries, Inc.**  
 9364 N. 45th Street :: Omaha, NE 68152  
 Phone: (402) 453-6912 :: Fax: (402) 453-0471  
[necousa.com](http://necousa.com) | [sales@necousa.com](mailto:sales@necousa.com)