



# ***Stirring Machines***



## ***Fastir***

*Simple and Dependable ■ Eliminates Overdried Grain  
Cuts Drying Time and Cost*



# Stirring Facts

## Stirring Eliminates Overdried Grain...Increases Airflow...Preserves Grain Quality.

Stirring mixes the driest grain at the bottom of the bin with the wetter grain toward the top. This results in a more uniform moisture content. In fact, university tests have shown less than 1% variation from top to bottom in stirred grain.

Stirring loosens grain, reduces static pressure and increases airflow. This, in turn, means grain dries more quickly and efficiently. University tests have found that, by using a stirring machine in wet grain with a powered spreader, airflow is increased by 33%.

Stirring mixes wet and dry layers of grain to extend storage life, and it also breaks up "hot spots." Since the stirring auger is surrounded by a cushion of grain, there are no pinch points to damage the grain.

## Sukup Stirring Machines Offer All of the Above Benefits, Plus:

- Sukup is the only company that offers a kit for easily adding more stirring augers at a later time as additional drying capacity is needed. With other brands, this would require a major overhaul or a totally new machine.
- A heavy-duty gear motor gives greater reliability.
- The exclusive rotating contact is heated to stay dry, even under high moisture conditions.
- For greater convenience and personal safety, the standard inside bin ladder may be used with Sukup stirring machines. This eliminates carrying a cumbersome ladder in and out of the bin.
- Sukup uses heavy-duty motors which are fan cooled, totally enclosed and protected by a thermal overload. Single and three phase units available.
- A tilt switch on each auger controls forward movement for trouble-free operation.



- Sukup track mounts higher in the bin than any competing units, giving up to 680 bu. of extra storage in a 36' diameter bin.



### Augers Are the Key to Optimum Stirring.

- Long-wearing, hard-faced down augers are standard on Sukup stirring machines.
- Down augers have 1" shafts and 1/4" hard-faced flighting.
- Various auger lengths are available to match bin sidewall heights. (For best operation, down auger length should not exceed 20'.)
- Sukup down augers are covered by a two-year unconditional warranty.

### Who Creates the Biggest Stir?



Sukup Constant Pitch Augers



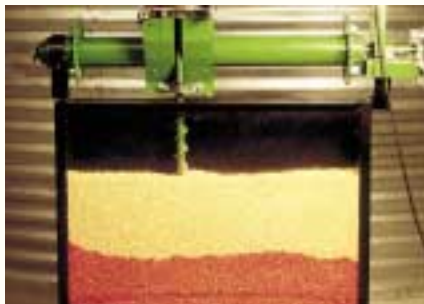
Brand "X" Graduated Pitch Augers

### Sukup Augers Stir More Grain

The pitch on a Sukup auger is constant for better stirring. A constant pitch auger fills only at the bottom where the overdried grain is located. Other companies use a graduated pitch auger which picks up small amounts of grain its entire length, so less overdried grain is moved.

Just compare the piles of grain produced by the augers in these photographs. It's plain to see that constant pitch augers move more grain!

Sukup augers can be used to stir corn, beans, rice, wheat, barley, sunflowers, popcorn, milo, sorghum, oats and fescue.



Sukup augers are continuously working forward while they move in and out on the crosstube. This ensures that all grain is being stirred. Angled bearing(s),



along with the downward pull of the augers ensure a positive changing pattern. Constant pitch augers pull dried grain from the bottom (simulated by the



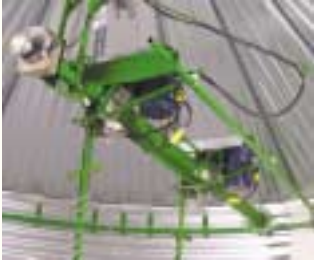
grain painted red in the photos above), thoroughly mixing it with the wetter grain at the top. This process also loosens the grain to increase airflow.





# Fastir™ ...Causing a Big Stir!

Optional stabilizer kit (below) prevents augers from working too far forward or lagging behind in tough drying conditions.



*The Sukup Fastir™ is causing a big stir in the grain handling industry. Its patented mechanical reversing drive makes other stirring machines with cable or chain drives obsolete.*

## Simply Dependable

The patented, mechanical reversing drive on the Fastir™ is the only one of its kind, making it the simplest and most dependable stirring machine on the market. This patented drive mechanism is operated by a single drive wheel. The movement of a lever



by the reversing plate changes the angle of this drive wheel to move the carriage in and out on the crosstube.

The simple

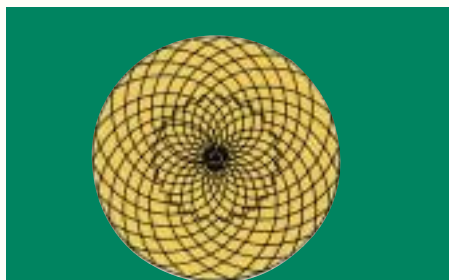
process eliminates electric reversing switches, drive gearboxes, chains and cables.

## The Fastir™ is the Ideal System for Large or Small Drying Operations.

- One primary carriage may be used to travel the entire length of the crosstube in smaller bins.
- A satellite carriage may be linked to the primary carriage for larger bins. Each carriage on 2 auger units travels about half the length of the crosstube.
- Up to three satellite carriages may be linked to the primary carriage for high capacity stirring applications. The satellite carriages on multiple auger units are positioned closer together to stir the larger volume of grain in the outer portion of the bin.



Offset hanger is standard on the Fastir™ to provide more stirring in the center of the bin.



## The Fastir™ Stirring Pattern

The Fastir™ Stirring Pattern illustrated here shows the approximate pattern resulting from stirring for a day and a half with one down auger. Notice the complete stirring that has occurred. (Approximate times and pattern for a 24' bin.)

## The Extras Add A Lot

Sukup adds a lot of extras to the Fastir™ to give you the most machine for your money. These extras add up to make the Fastir™ the best and most flexible stirring machine on the market, but they don't add any extra cost!

## The Fastir™ Extras Include:

- Heavy-duty 4½" crosstube on machines under 40' and 5½" on 40' and larger diameter machines for maximum strength.
- Offset hangers provide better stirring in the center of the bin to break up the concentration of fines over the center sump.
- Angled shields on carriages allow stirring closer to the wall.
- No zerks to grease.
- CSA models available.



Bin Dia.	Natural Air	Plenum Temp. Up to 110°F	110° to 130°F	Cont. Flow Systems
15'-23'	1	2	3	3
24'-37'	2	3	4	4
40'-49'	3	4	5	5

# Sukup® Fastir™ Plus

## Stirs Along the Bin Wall

The Sukup Fastir™ Plus has all of the features of our standard Fastir™, like mechanical reversing and constant pitch down augers, but we've added a stationary auger to stir along the bin wall. This stationary auger ensures complete stirring around the outside of the bin, where a large portion of the grain is located.



Fastir™ Plus  
Down Auger  
Recommendations

Bin Diameter

# of Stirring Augers

15'-24'

3

24'-37'

4

40'-49'

5

## Drying & Storage Solutions



Sukup is the company to turn to for all your grain storage, drying and handling needs. Along with the simply dependable Fastir™, Sukup is also the leader in unloading equipment and fans and heaters. And, Sukup Grain Bins and Dryers have taken the market by storm. Turn to Sukup for all of your Grain Drying and Storage Solutions.



### Sukup Centrifugal and Axial Fans give FANtastic™ Airflow!

Sukup fans are the key to more efficient drying because higher airflow dries grain faster, and Sukup fans have the highest airflow.

Adding a heater can dramatically increase your drying speed. And, a Sukup heater is the one to add. Sukup heaters are extremely efficient, as is shown by the intense blue flame present with any Sukup heater.



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