

Fan Speed

Adequate air volume is necessary at all times to carry the product in the air stream. Air volume can be controlled by adjusting hydraulic oil flow on hydraulic fan drives or adjusting engine speed on engine fan drive models.

Air volume hence fan speed requirements will vary with:

- (a) Ground speed
- (b) Metering rate
- (c) Number of primary runs
- (d) Width of machine
- (e) Density and size of material

Excessive fan speed can cause seed damage, seed bouncing and premature wear of the system.

Generally fan speed is adequate if product flows through the hoses without surging and the hoses empty quickly and evenly when the system shuts down.

The table lists *suggested minimum fan speeds* for certain products. **The table should be used only as a guide.** If plugging or surging occurs increase the fan speed to eliminate the problem.

Note: It is recommended that after a rain or dew the fan be run two to three minutes to expel any moisture in the system.

Important

Keep fan impeller blades clean at all times.

Note: Once fan speed is properly set, be sure to adjust the monitor fan alarm setting accordingly. See Monitor Section “Monitor Programing”.

Suggested <i>Minimum</i> Fan RPM				
Product	Application Rate		Fan Speed Setting	
	Seed	Fertilizer	Single Shoot	Double Shoot
Fine Seeds	All Rates	50 lbs/acre (56 kg/ha)	3400 RPM	3000 RPM
		100 lbs/acre (112 kg/ha)	3800 RPM	3400 RPM
		>150 lbs/acre (168 kg/ha)	4300 RPM	3800 RPM
Lentils	All Rates	All Rates	3800 RPM	3800 RPM
Coarse Grains	90 lbs/acre (100 kg/ha)	50 lbs/acre (56 kg/ha)	4300 RPM	3800 RPM
	90 lbs/acre (100 kg/ha)	100 lbs/acre (112 kg/ha)	4500 RPM	3800 RPM
	90 lbs/acre (100 kg/ha)	>150 lbs/acre (168 kg/ha)	4800 RPM	4000 RPM
Large Seeds	180 lbs/acre (200 kg/ha)	40 lbs/acre (45 kg/ha)	4400 RPM	4000 RPM
Fertilizer Light	*****	<100 lbs/acre (112 kg/ha)	4000 RPM	*****
Fertilizer Heavy	*****	>100 lbs/acre (112 kg/ha)	4500 RPM	*****
Note: Fan Speeds given are when applying product. It is normal for fan speed to drop when not applying product.				

Operation

Double Shoot Settings

Double Shooting is done with a few simple adjustments as follows:

1. Plenum Setting
2. Diverter Setting
3. Quick Coupler Position (Tow Behind Only)

Plenum Damper Settings

Adequate air volume is necessary at all times to carry the product in the air stream. Air volume can be controlled by adjusting the plenum damper settings.

The table below lists initial plenum damper settings for certain products.

Note: The settings in table should be used only as a guide.

- If **fertilizer** plugging or surging occurs **decrease** the seed damper setting to eliminate the problem.
- If **seed** plugging or surging occurs **increase** the seed damper setting to eliminate the problem.

Diverter Settings

Located between the metering bodies in each primary line are two diverter valves. The diverters must be correctly set in order for product to flow correctly as outlined on page 5-53 and 5-54.

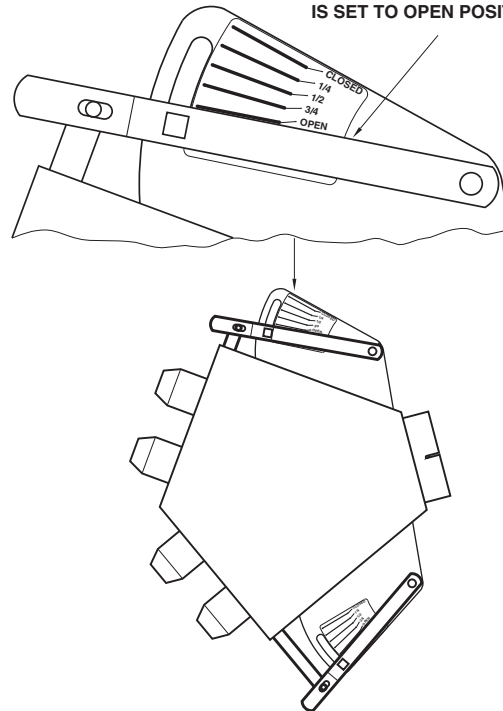
1. Double Shoot - Handles in Double Shoot Position.
2. Single Shoot - Handles in Single Shoot Position.

Quick Coupler (Tow Behind Only)

The Quick Coupler located on the rear of the seeding tool has two positions. In order to maintain correct product flow the coupler must be set in correct position as outlined on page 5-53.

1. Double Shoot - Top Position
2. Single Shoot - Lower Position

SET PLENUM DAMPER SO THAT TOP EDGE OF STRAP ALIGNS WITH DECAL LINE. THIS DAMPER IS SET TO OPEN POSITION.



Suggested Plenum Settings for Average Rates				
Product	Seed		Fertilizer	
	Rate lb/acre	Damper Setting	Rate lb/acre	Damper Setting
Fine Seeds	All Rates	1/4	All Rates	Open
Coarse Grains	90 lb (100 kg/ha)	Open	50 lb (56 kg/ha)	1/2
	90 lb (100 kg/ha)	Open	100 lb (112 kg/ha)	Open
	90 lb (100 kg/ha)	1/4	150 + lb (168 kg/ha)	Open
Large Seeds	180 lb (200 kg/ha)	Open	40 lb (45 kg/ha)	1/4
Single Shoot	Tow Behind - Top Damper Closed Bottom Damper Open			
	Tow Between - Top Damper Open Bottom Damper Closed			

Note: See "Fan Speeds" for Fan RPM.