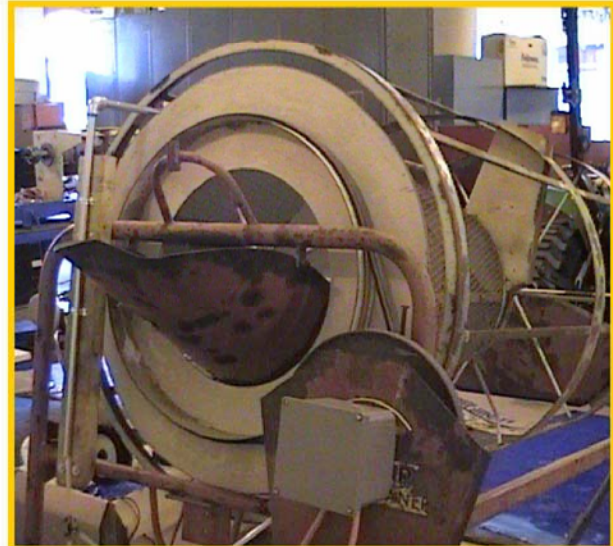




- The cleaner was originally enclosed with a screen to allow fines and foreign material to fall through.
- An enclosure had to be made to help contain the spray and take advantage of the grain movement inside the cleaner.
- The original plan called for a sheet metal enclosure but it was decided that a clear enclosure material might be beneficial for research purposes.
- Plexiglass was used because it was flexible enough to form the size circle needed
- Plexiglass long enough to form the circle was not available so to pieces had to be joined.

- The rotation speed of the cleaner will be adjustable.
- The original plan was to use a variable frequency drive to adjust the output speed of the motor.
- The load put on the motor is too heavy and using this method would cause the motor to prematurely burn out.
- This will be addressed by designing a set of pulleys that can be interchanged to obtain different speeds.



- This project can now be the basis of further research.
- It will be used to determine better methods of post harvest pesticide application hopefully leading to development of a variable rate precision applicator.
- This project would be easy and inexpensive to replicate for on farm use.

Part Number	Description	Price for 1	Quantity	Total
1x-1	Nozzle Tip	\$ 2.50	2	\$ 5.00
1x-2	Nozzle Tip	\$ 2.50	2	\$ 5.00
1x-3	Nozzle Tip	\$ 2.50	2	\$ 5.00
3NTL14	Elbow	\$ 0.53	2	\$ 1.06
3T14	Tee	\$ 0.84	1	\$ 0.84
				Total = \$ 18.70
Kirby Risk				
LUTR FS-5E-IV	5Amp 120 V. Speed Control	\$ 13.77	1	\$ 13.77
E987R	6"x8"x4" Conduit Box	\$ 18.49	1	\$ 18.49
				Total = \$ 32.26
Meyer Plastics				
plexiglass	4'x8' eighth inch sheet	\$ 57.60	2	\$ 115.20
				Total = \$ 115.20
Rural King				
	1/2" metal conduit 8'	\$ 7.99	1	\$ 7.99
	6" steel wheel	\$ 4.99	2	\$ 9.98
				Total = \$ 17.97
				Project Total = \$ 182.13