

Daay Power Sweep

General Information & Frequently Asked Questions

Support Information:

- Manual
 - Daay Bin Paddle Sweep – 687988
 - Collector Ring – 688489
 - Daay Bin Paddle Sweep – 686279 (Generation I)
 - Daay Power Farm – 689865 (Farm Sweep)
- Custom Order Structure

General Information: Daay Power Sweep

- In an attempt to market a paddle sweep to the farm market, the Daay Bin Power Sweep was developed to be fitted as a standard power sweep unit would to an unload system.
- Like the Daay Bin Paddle Sweep, the Daay Bin Power Sweep is constructed of the exact same chain system with rubber paddles.
- The unit is manufactured for bins ranging from 15' to 66' with capacities up to 5,000 bu/hr.
- 18-36' diameter bins have an eave height of 62', 42'-66' diameter have eave height of 42' (eave height can be increased to 62' with purchase of additional jacks)
- It has the ability to perform single or multiple passes, will work on a full or flush floor, and adapters to a Sudenga, Springland, Hutchinson, or Neco power sweep (can be retrofitted to other existing sweeps) – this allows it to be substituted for an existing power sweep.
- Since it is powered by the existing power head, there is no need for a second motor or electrical cord.
- The drive wheel (single – 5" x 8" x 15" tire) is placed close to the center of gravity, so the end of the sweep is transferred to the tire, thus eliminating the need for excess weight used to keep the sweep from climbing.
- A flexible pivot joint transfers the power from the gearbox to the sweep.
- Another feature on the sweep is the adjustable stabilizer arms that allow the sweep to accommodate different bin sizes.

Frequently Asked Questions

Q. How do I get the sweep into my bin?

A. *The sweep is brought in through the man way and assembled in the bin. Your man way opening must be at least 22" in diameter for this to work. If your man way is big enough you may be able to assemble the sweep outside or in your shop and then insert the completed unit. This would require a loader, telehandler, or, a number of hands to accomplish.*

Q. Do you have any information on sump capacity?

A. *We do have calculations on center sump capacities. However, there are many different variables in the market. Your best bet is to contact the person or company that erected your bin and ask them what the center sump was designed for (Bushel per Hour Run Through).*

Q. Does the bin have to be empty to get the sweep inside?

A. No. However, one needs about a 4' to 6' area from the outer wall to the center to work with. Preferably to the left of the sumps. The current sweep should be removed prior to installing the new Daay Bin Paddle Sweep.

Q. Can I move the sweep from bin to bin?

A. Yes. This is possible. Limiting factors are size of man way and size of sweep. The sweeps are built with 10 gauge steel and are heavy. Some companies use an overhead track system. Other companies have man ways large enough to walk in a number of employees and move it from commercial bin to commercial bin with manpower.

Q. Does it run on an air floor?

A. Yes. The sweep can run on air floors or false floors. One has to be careful when setting the sweep for burial so a plate or piece of plywood can be placed under every lift jack so one does not crease the floor. Also, there are a couple leading and trailing edge metal caster wheels that may also crease a false floor. Most run a small metal track under the caster wheels to avoid creasing.

Q. Does it really clean the bin floor that well?

A. On the first pass around your bin you may experience some spill over the top. If you have inside stiffeners there may be grain left between them. The sweep also has no vacuum on it so we can't suck grain and grain dust out of aeration grates. If you run the sweep around twice it will literally pick up 99% of the grain in the bin. In most cases it appears as if the floor has been swept.

Q. What is the life expectancy of the paddles?

A. Customers have sweeps that have been running in bins since 2010. Some of these sweeps get used on average of a 100 hours/year. To date they have shown little wear. Please keep in mind that there are several variables that determine the wear on the paddles. How often you sweep your bin and what condition the floors are in. Sharp metal objects and edges will cause damage or premature wear to the paddles.

The paddles are reinforced, fiber filled, rubber that are pliable, yet so tough they need to be laser cut to size.

Q. Do the paddles bolt onto the chain?

A. Yes.

Q. Can we get replacement paddles?

A. Yes.

Q. How hard is it to take the wheels off?

A. Four lug nuts, just like a trailer wheel. However on the 90' & 105' bin sweeps we use a ratchet drive, which is more complex.

Q. What is the width of the sweep in the different sections? Can I get it through the bin door (what is the standard size of a bin door)?

A. 18" wide. There is no industry standard. We have seen many ways as small as 20" in diameter and some big enough to drive in a skid steer.

Q. How heavy is each 5ft section?

A. Approximately 100 lbs.

Q. Do you have to keep pushing it into the grain like you do a normal sweep?

A. No. The sweep drives itself. One never has to touch it or assist it. If slippage issues happen you can add more miniature tractor weights to each dual set of drive wheels.

Q. How tight do I tighten the paddle chain?

A. Refer to page 3-8 of the Extrac manual for chain tension instructions.

Q. How large a diameter of a silo can I put a sweep into?

A. 120' of grain depth = 60' diameter.

B. 92' eave height = 105' diameter

Q. How high of a container can I bury the sweep in?

A. Grain Bin 92' to the eave; Silo 120' of grain depth

Q. When do I need a high flow head section sweep?

A. When your center sump is larger than 34" x 34"

Q. What are the sweep capacities?

A. Max theoretical sweep capacities/gearbox ratio

5:1 = 5500bu/hr

7.5:1 = 4000bu/hr

10:1 = 3000bu/hr

15:1 = 2000bu/hr

20:1 = 1500bu/hr

30:1 = 1000bu/hr

Q. Do I need to put a steel wheel caster on the motor/gearbox?

A. Yes. The rear caster that is installed on the head section needs to be removed and placed on the gearbox to offer balance and support to the motor/gearbox. Without it the sweep can become unbalanced and expose the paddle chain to more grain causing it to trip out the motor or cause the motor to overheat.

Q. Can I just add gear lub to the Grove gearboxes (used on the 66' to 105' bin sweeps)?

A. No. Adding regular synthetic gear lub to the Glygoyle 460 oil is not recommended, and will void the warranty. The oil provided does not mix together with other synthetic oils. The Glygoyle oil is used to achieve higher loads on the gearbox. The Glygoyle oil is available thru Koyker/Sioux Steel in quarts.

Q. What do I look for if the motor is running and gearbox is turning, but the sweep chain is not moving?

A. *Is the key installed into the keyway? Is the motor/gearbox on the head shaft? Sometimes the set screws are loose the motor/gearbox slides partially off the head shaft.*