

ChangingTimes



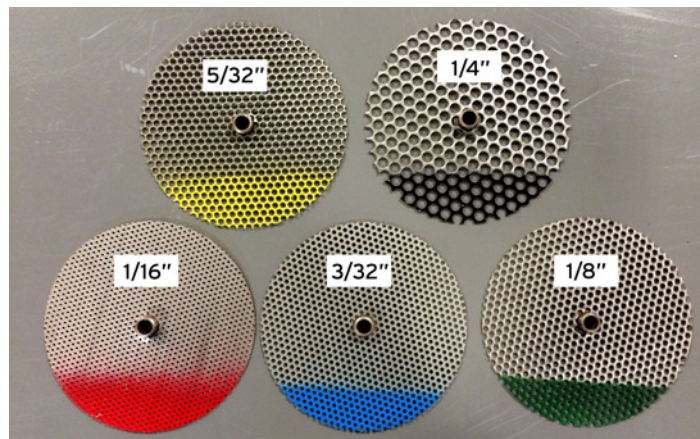
The applicator industry
leaders are talking about

- DURABLE
- ACCURATE
- EASY

(605) 878-3611

www.ctapplicators.com





Maximizing your yield starts by treating your seed.

To obtain the best use of your treatments, you need to treat the seed as close to planting as possible. The CT Dry Powder Applicator does just that - it can be used in-field or while filling the seed tender.

Our patented CT Dry Powder Applicator will meter talk, inoculants, graphite, or any dry product evenly and accurately. This applicator applies your seed treatments in the field when you are ready to plant.

CT Applicators stainless steel construction produces long term durability. Because stainless steel will not conduct static electricity, CT Applicators allow dry powders to flow without static charge buildup. The patented dry powder sifting system coupled with no static charge buildup produces the most accurate and consistent application rates for a wide range of dry powder products.



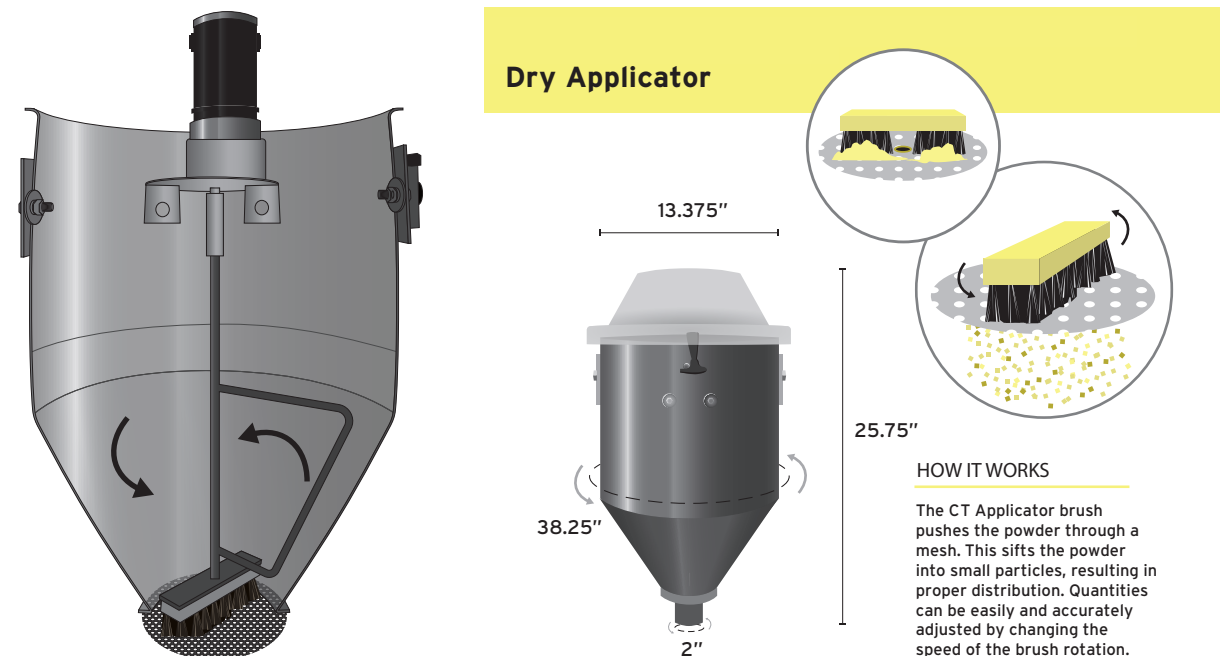
Increased accuracy of seed treatment application can **SAVE** money! More even seed treatment coverage can **MAKE** money! Less product waste plus improved seed coverage produces improved product performance at a reduced input cost.
RESULT = Greater return on investment.



CT 6 Gallon 12v Dry Applicator



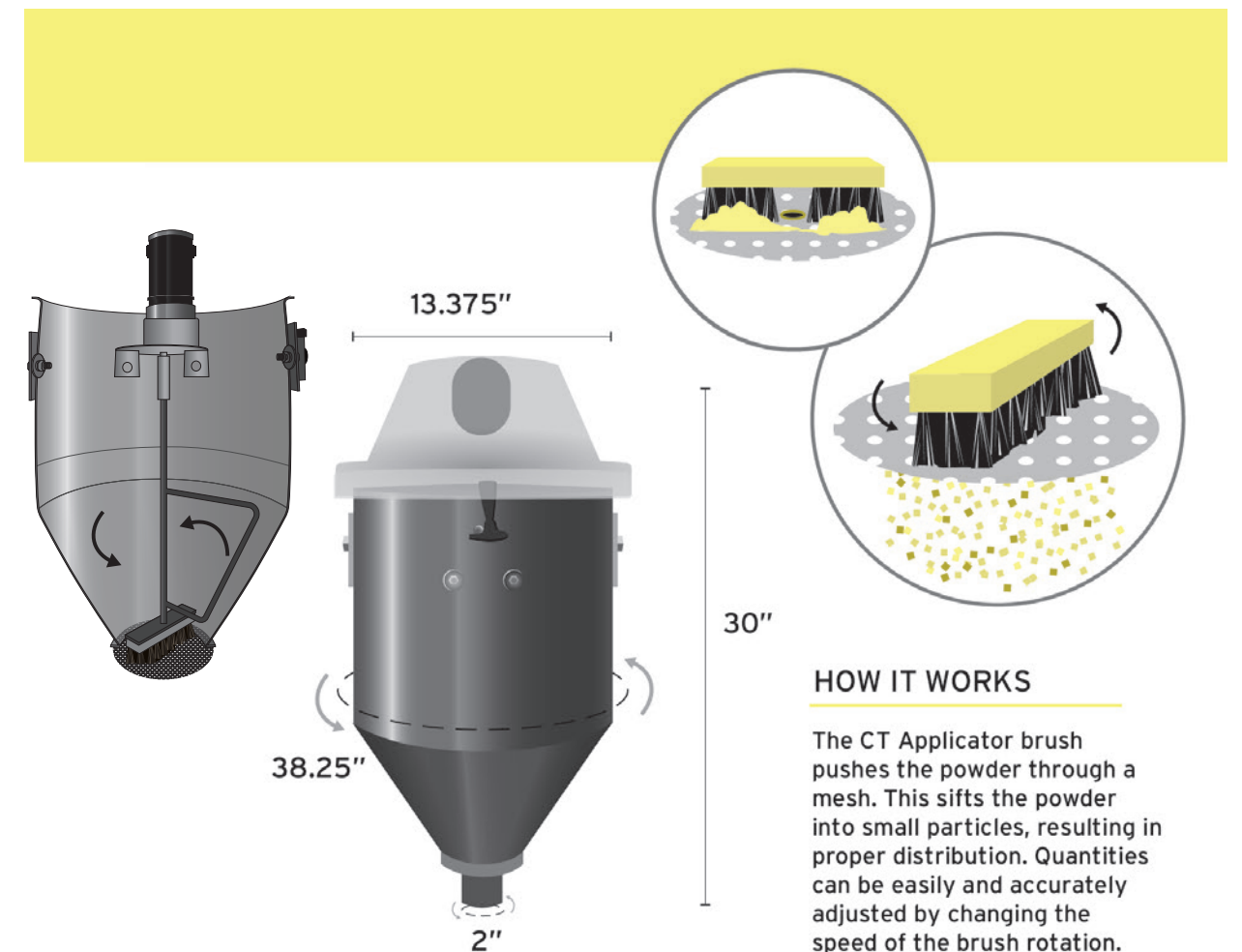
- 12 volt hands free system
- 6 gallon stainless steel cone helps prevent bridging vs. poured on seed or fertilizer
- 5 screens for multiple dry products
- Waterproof variable speed control
- Agitator arm keeps product from bridging
- Rubber swiper to keep product in funnel
- Rubberized motor to prevent sparks
- Lid to keep product dry and in cone
- Allows farmers to apply products needed at time of planting, for grain storage, or fertilizer application
- Can be used with most any seed delivery system
- Saves farmers labor, time, and money



CT 6 Gallon 110 Dry Applicator

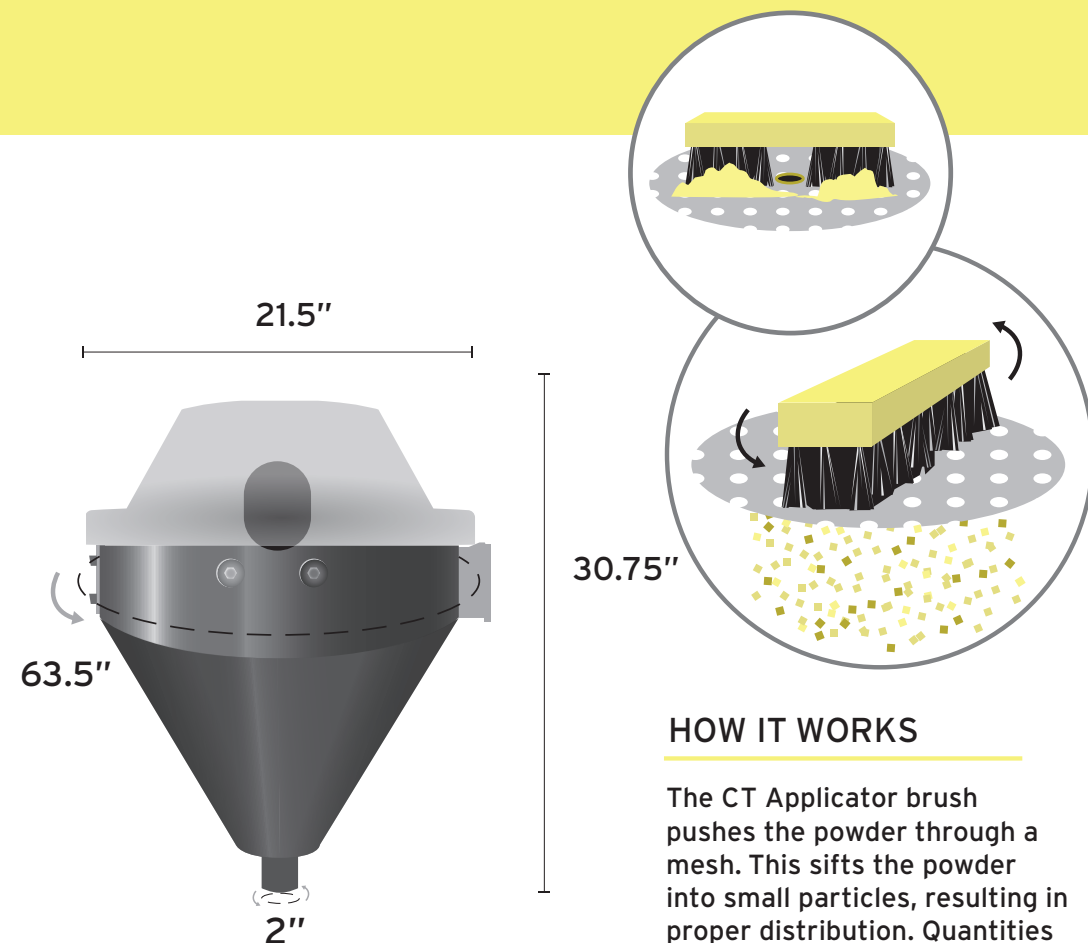


- 110 volt hands free system
- 6 gallon stainless steel cone helps prevent bridging vs. poured on seed or fertilizer
- 5 screens for multiple dry products
- Waterproof variable speed control
- Agitator arm keeps product from bridging
- Rubber swiper to keep product in funnel
- Lid to keep product in cone



CT 14 Gallon 110 Dry Applicator

- 110 volt hands free system
- 14 gallon stainless steel cone helps prevent bridging vs. poured on seed or fertilizer
- 5 screens for multiple dry products
- Waterproof variable speed control
- Agitator arm keeps product from bridging
- Rubber swiper to keep product in funnel
- Lid to keep product dry and in cone

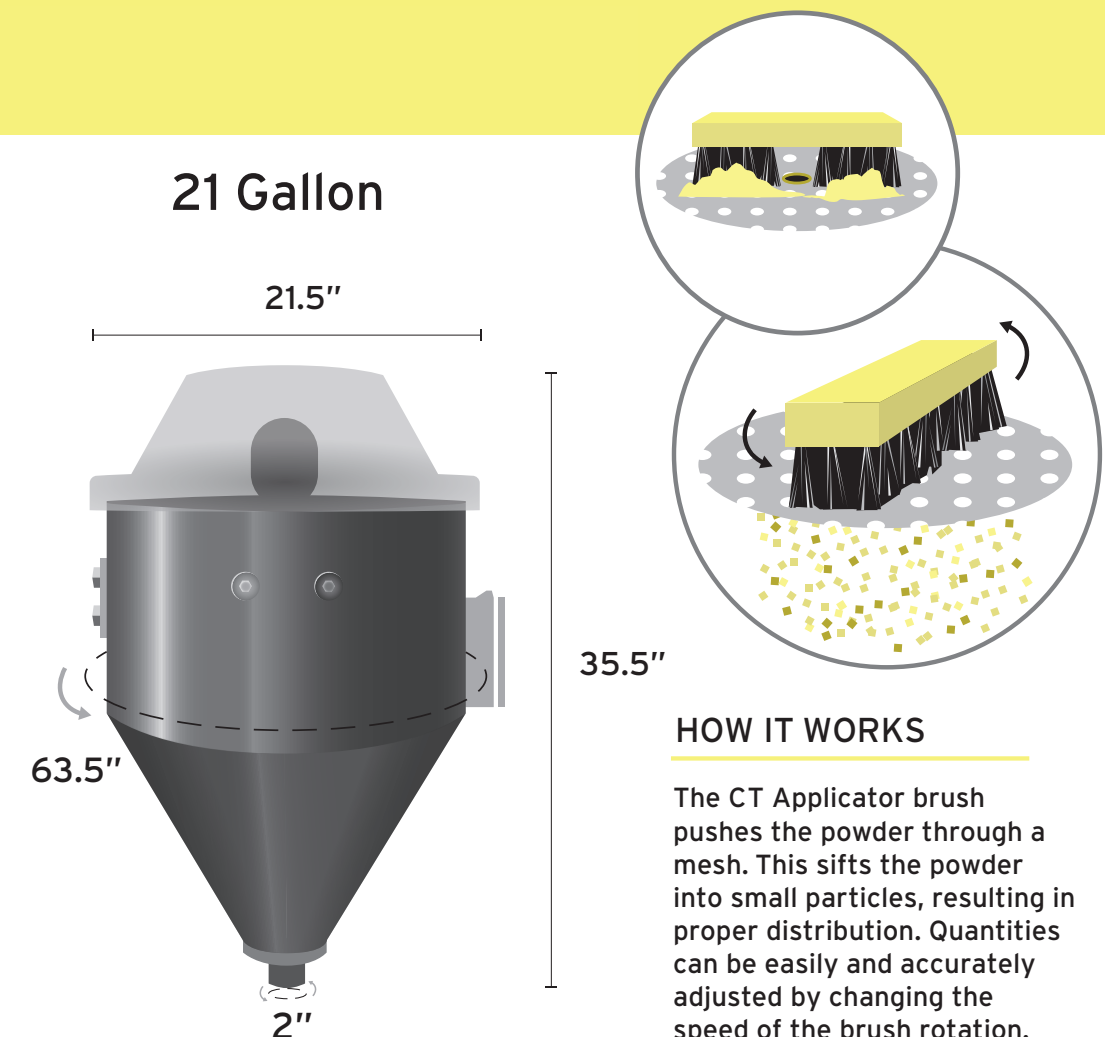


HOW IT WORKS

The CT Applicator brush pushes the powder through a mesh. This sifts the powder into small particles, resulting in proper distribution. Quantities can be easily and accurately adjusted by changing the speed of the brush rotation.

CT 21 Gallon 110 Dry Applicator

- 110 volt hands free system
- 21 gallon stainless steel cone helps prevent bridging vs. poured on seed or fertilizer
- 5 screens for multiple dry products
- Waterproof variable speed control
- Agitator arm keeps product from bridging
- Rubber swiper to keep product in funnel
- Lid to keep product dry and in cone



HOW IT WORKS

The CT Applicator brush pushes the powder through a mesh. This sifts the powder into small particles, resulting in proper distribution. Quantities can be easily and accurately adjusted by changing the speed of the brush rotation.

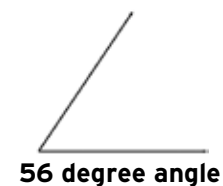
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Changing Times Dry Applicator Instructions and Adjustments

Available models: **6 gallon 12v** **14 gallon 110**
 6 gallon 110 **21 gallon 110**

Mounting

CT Dry Applicator can be mounted by bolting the applicator mounting bracket to a flat mounting area directly above the target application area. Attach the 2" hose to the bottom cone to direct the flow of powder to the center of the target application area. A section of hose is provided.



If mounting of CT Dry Applicator needs to be to the left or the right of the target application area such that 2" hose must be at an angle, the angle should not be less than 56 degrees and hose must be smooth inside to allow powders to flow freely. Additional 2" hose will be needed and is not provided.

Run 2" hose to the center point where seed is moving into auger, conveyor belt or at the center of pickup attachment for hay or silage inoculants to insure proper placement of talc, inoculant or other dry powder products. Hose should be placed no more than 2" above the target application to minimize impact of wind. Do not let seed or other material build up around the 2" tube to avoid powder back up in the hose.

The center point of the application target may change as the auger or conveyor is moved from side to side for planter fill or other reasons. In that case, the 2" hose should be attached to a 90 degree bracket that is fastened to the auger or conveyor to keep the hose centered. That bracket is not supplied. Keep the lid on except to fill and keep hands out of the container when it is running.

Calibration

Powder application rate can be varied by adjusting the rotation speed of the agitator/brush. The agitator/brush will begin to rotate and increase speed to setting 10. Calibration is made by measuring the quantity of powder dispensed per minute and correlating the setting number on the speed control to the amount of seed, hay, silage or other target product that will pass by the hose opening in one minute. **The green screen (1/8") is the standard screen that is installed in the applicator.** Additional screens are included for lower and higher application rates. Red = 1/16" Blue = 3/32" Yellow = 5/32" Black = 1/4"

Material quantity that will push through the screen will vary depending on the density of the product, amount used, humidity, and/or other environmental factors. Please refer to the rate charts for products tested and approved.

Changing Screens

Tools needed: 7/16" wrench, 1/8" allen wrench

1. Take off clamp that holds clamp to applicator with 7/16" wrench.
2. Take off swiper by using 1/8" allen wrench from agitator arm.
3. Take off current screen on agitator arm and replace with desired screen. (color side down)
4. When changing the screens, be sure to place the 5 hole plate below the screen (see figure A). **If not using the 5 hole plate, you must insert the metal spacer ring (see figure B).** The brush needs to rotate on the screen surface to keep it clean and keep the powder moving.
5. Replace swiper on agitator arm and hand tighten allen screw just enough to hold swiper (**do not over tighten**).
6. Replace cone and clamp and tighten securely.

Use the smallest screen possible with a higher control rate setting as motor RPMs will be higher, producing better product consistency, motor longevity, and prevention of motor stoppage with lower settings.

Figure A



Figure B



Brush adjustment may be necessary as brush wears. To adjust the brush, loosen the 4-1/4" motor mount bracket bolts with 7/16" wrench. Apply downward pressure on top of the motor until there is proper brush contact with the screen. Bristles should lean back slightly when brush rotates.

* To avoid set-up problems associated with long-term storage of dry product in the hopper, empty the hopper completely when done treating seed. If you leave product in hopper for an extended period of time there may be product settling causing the applicator to not run, in this case use a stir stick or spatula to loosen up dry product in hopper before you start treating!

Photo 1



Photo 2



Photo 3



How to Attach Auger to Applicator

1. Remove cone from Applicator. (photo 1)
This is now the time to change the screen if needed. Follow instructions on how to change screen.
2. Attach auger cone with 5-hole restrictor plate or spacer to Applicator. (photo 2)
3. Tighten clamp when the auger is positioned as needed. (photo 3)
4. Wire according to instructions.
5. Keep the cone from the Applicator as it may be needed if you decide not to use the auger.



CT Liquid Applicator

- 12 volt, 5 or 10 gallon liquid applicator
- Continuous agitation pump
- Drain for easy clean out
- In-line clear bowl filter
- Pressure gauge, adjustable ball valve, and orifice for rate regulation
- Dry and liquid applicators can be used separately or together
- Allow farmers to apply products needed at time of planting
- Can be used with most any seed delivery system
- Orifice for auger treating
- Fan tips for conveyor treating



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Changing Times Liquid Applicator Operating Instructions



Settings for the CT Liquid Applicator

* PSI settings are set before opening the discharge valve. Once you set PSI and you open the valve to start treating seed, the PSI will drop some. **DO NOT ADJUST PSI!**

The rates are based on the initial setting, and if you re-adjust the PSI after start treating you will adjust the volume being discharged.

Auger Treating

Flow Regulator (Orifice)	10 PSI*	20 PSI*	30 PSI*	40 PSI*
29	6.9 oz/min	9.7 oz/min	11.9 oz/min	13.7 oz/min
46	17.3 oz/min	24.5 oz/min	29.8 oz/min	34.4 oz/min
70	39.2 oz/min	55.3 oz/min	67.8 oz/min	78.3 oz/min

Conveyor Treating

Fan Tip Color	15 PSI*	20 PSI*	30 PSI*	40 PSI*
Yellow	15.4 oz/min	17.9 oz/min	21.8 oz/min	25.6 oz/min
Blue	23.0 oz/min	26.9 oz/min	33.3 oz/min	38.4 oz/min
Gray	47.4 oz/min	53.8 oz/min	66.6 oz/min	76.8 oz/min

Updated 6-1-20.

Pressure is adjusted by changing the position of the yellow valve handle that is located just above the pump motor. Changing the position of that valve setting will increase the volume of liquid returning to the tank and increase agitation in the tank thereby reducing the pressure or the inverse. The agitation decreases as the pressure increases. Operation in a range of 10 to 40 PSI will keep good agitation in the tank and produce even product flow.

Auger Treating:

When treating with an auger, you will use one of the flow regulator orifices and the black adapter. (See photo.)

Conveyor Treating:

When treating with a conveyor, you will use one of the colored fan tip nozzles. (See photo.) Slow down your conveyor speed if possible and shallow your seed flow to get better coverage with your liquid treatment.



Dripping of product from Flow Regulator Disc body can be minimized by closing the 1/4" valve in the application line (Blue Handle).

Toggle switch will turn off the pump motor but will not stop drip from the Flow Regulator Body.

The yellow valve handle located below the 5 gallon tank can be opened to easily drain the contents of the tank.

Options



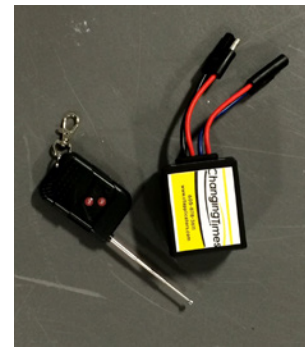
12v Auger



110 Conversion



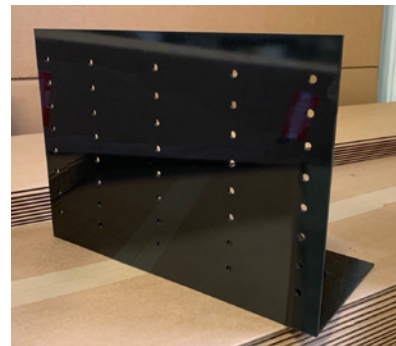
Automated Drum Panel



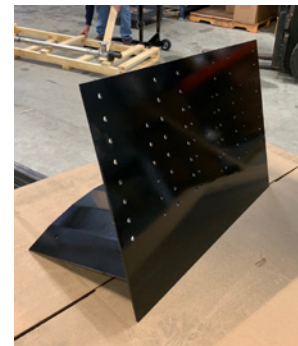
Wireless Remote
For standard 12v applicator only.



110v Wireless Remote



Universal Mount
For All Dry



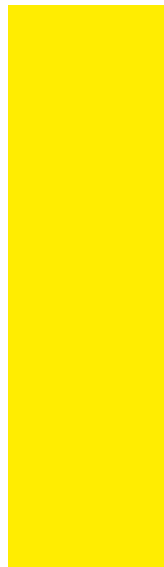
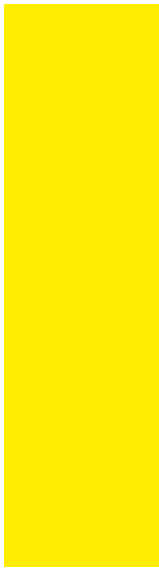
USC LPV Curved
Drum Mount



Portable and adjustable
stand works with all
CT Applicators.

* Fits most USC: LPX & LPH
drum treaters and most
Bayer RH drum treaters.





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