



**2020**  
Special Events Entry Form

# Belt Sander Drag Race

**Event Information: 2:00 PM, Sunday, August 2<sup>nd</sup>, 2020**

**General Rules**

- Two categories: Stock and Modified
- Free Fair admission on Sunday for those bringing a belt sander to the race
- Full list of rules is attached to this form

**Entry Fee: None**

**Entry Deadline: 1:45 PM, Sunday, August 2<sup>nd</sup>**

**Prize:** 1<sup>st</sup> Place - \$50 & Ribbon  
 2<sup>nd</sup> Place - \$30 & Ribbon  
 3<sup>rd</sup> Place - \$20 & Ribbon

**Applicant Information**

Name \_\_\_\_\_

Address (mailing) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone Number \_\_\_\_\_

**Category (circle one):**      STOCK      MODIFIED

*I hereby release and hold harmless, the Trinity County Fair Association, Directors and staff, County of Trinity and the State of California and/or any person or other organization in any way connected with my activities on the Fairgrounds from any loss, damage or injury resulting from my activities. Further, I hereby resume and accept the full risk and danger of any hurt, injury or damage to myself or my equipment which may occur through or by reason of any matter, thing, condition, negligence or any person or persons whatsoever in any event held or given under the direction of said Trinity County Fair Association.*

\_\_\_\_\_  
Signature (Parent/Guardian)

\_\_\_\_\_  
Date

**Stock Division Tips & Tricks:**

While you're not allowed to mechanically alter or remove any part of your sander, if you're going to be racing it in the stock division, here are a few ideas that may help you get into the winner's circle.

- *The shortest distance between two points is a straight line.* - The simplest thing you can do to make your sander run faster is to ensure it runs straight down the track. There are a number of methods to achieve this, such as making a simple wood box that covers the sander, metal guide frames with wheels or bearing guide bars. Any one of these will help to make your sander run straight and true down the track.

*With the track width only 7 ¾ inches wide, make sure you don't make the guides too tight, ¼ inch clearance is suggested.*

- *Tracking* - Check to make sure the belt is running straight on the sander. It's a good idea to check this after every race. Power is provided in the pit area for this purpose.
- *Belt Choice* - Make sure the belt you choose is new and sharp and free of any track dust. An official track is made of soft plywood so the belts will bite into the track. The coarser the grit the better. Make sure you have spares in case you tear or break one during a race.
- *Less Drag* - Wipe any part of the sander or frame that will come in contact with the side rails of the track with wax, graphite, or silicone spray.
- *Variable Speed* - While it may seem obvious, make sure your sander is set at the highest speed.
- *Decorations* - If you are decorating your sander make sure the decorating starts at least 2 inches above the base of the sander. You don't want any decorations rubbing against the side of the track.

### **Modified Division Tips & Tricks:**

Most of the suggestions from the Stock Division apply for the Modified Division as well. The trick is to find the correct balance between rpm, torque, and weight. With that said, any modifications can be made to the motor, drive system, and/or electrical. However, mounting a router motor with super high rpms does not seem to work all that well, unless you like to see spectacular burnouts at the starting line. The motor of choice seems to be grinder motors.

**MAKE SURE TO READ THE RULES SHEET REGARDING BOTH DIVISIONS (NEXT PAGE).**

# Belt Sander Race Rules

## **Stock Division:**

- Belt sanders used must be 'off-the-shelf' standard products made by an established manufacturer/brand.
- No modifications or substitutions to mechanical or electrical components.
- Track guides and wheelie bars are allowed and encouraged – See track and guide sheet. Any sander that will not stay on the track will be eliminated from competition as a safety hazard.
- Non-functional decorations allowed and encouraged. Make sure any decorations are at least 2" above the track surface.

## **Modified Division:**

- This is an open category for creating the fastest sander through alterations within the limits of the power source, fitting on the track and belt rules.
- Belt sanders must propel itself with conventional sanding belt only.
- Modifications and substitutions allowed to motor, drive system, electrical, etc.
- Track guides and wheelie bars are allowed and encouraged – See track and guide sheet. Any sander that will not stay on the track will be eliminated from competition as a safety hazard.
- Non-functional decorations allowed and encouraged. Make sure any decorations are at least 2" above the track surface.

## **Track:**

- The track consists of seven, eight-foot portable table sections hooked together to form a two side-by-side drag racing lane.
- The length from start to finish line is 30'. The remaining track is used for slowing and stopping with padding at the end of the track for sanders to stop safely.
- Inside dimension of the track is 7 ¾ inches wide and 1 7/8-inch-high side walls.
- Race entries must fit into the track and run on the track surface.

## **Power:**

- Standard 110 household currents.
- Race entries must plug into standard extension cord provided.

## **Racing:**

- Race Official's decision is final.
- Race entry owners are responsible for tracking entry belt before each race.
- Race entry owners are responsible for ensuring sander fits into track.
- Race entry owners are responsible for any sander decorations.
- Race entry owners are responsible for all risks or damage to their sanders.
- Once the sander is placed on the track, it cannot be touched, adjusted, or interfered with in any way.
- Race Official aligns entries at starting line and plugs in power cord.
- Race will be replayed if switch was not on, or at Race Official's discretion, if an unfair situation occurred.
- Race Officials collect sanders at end of track and return them to their owners.
- Sander is disqualified if it stops, jumps track, flips, or does not finish for any reason.
- Racing is conducted on a double-elimination basis for each race entry, unless Race Official announces alternative format.