

Sheep Shearing Race Trailer

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Aim of the project

- ▣ To complete a fully working sheep shearing race trailer
- ▣ To have a sheep shearing trailer that will make my life and the farmers life easier
- ▣ To be finished on time



SON Shearing race trailer model

Process

Firstly, I had to get the measurements for the trailer and then order the steel from Liffey mills in Shinrone. Then I cut the steel to length at home using a bandsaw. The I brought the steel to Pallas and started welding them together. I used a MIG welder to weld it as I prefer it and it is a lot quicker and better looking in my opinion.



This is my steel that I got from Liffey Mills in Shinrone

Background

▣The reason I'm doing a sheep shearing race trailer is to make life easier for myself as the shearer and the farmers that I shear sheep for. I shear sheep for hire and I employ one other shearer to shear with me. I took over the business from my father in 2024. We used to use a box shearing trailer which worked well when you had level ground.



My box shearing trailer

Progress

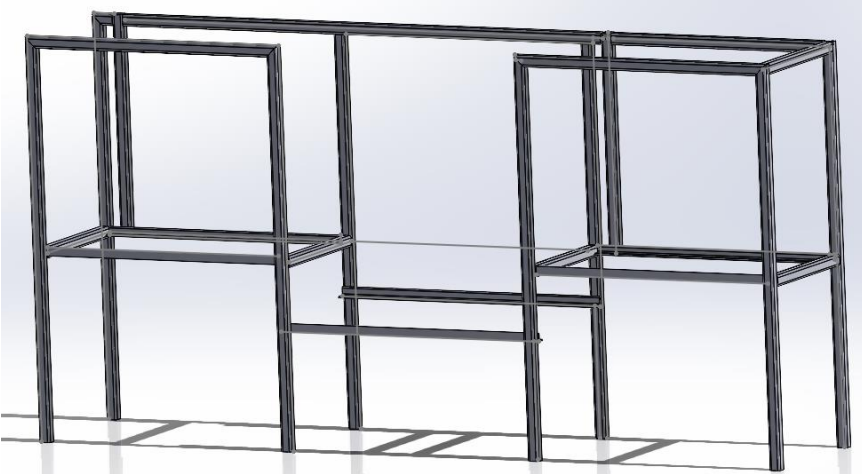
So far I have the first three sections of the race made. I have the steel for the body cut and ready to weld. Axles have arrived and ready to put on the body once I weld it together.



Work to Date

Design

- ▣ Design trailer on soildworks
- ▣ Have lots of room in all areas
- ▣ not to make the trailer to heavy
- ▣ Correct spacings
- ▣ Easy flow for sheep
- ▣ Easy assemble for shearing
- ▣ Safe on the road



Solid Works Drawing Model

Challenges

1. Waiting for my axles to come
2. Sources steel
3. Shortage of MIG welders to use
4. Time
5. Delivering steel to Pallaskenry

Conclusion

So far I am a bit behind but I hope to catch up in the next couple of weeks. I am enjoying doing my project as I am learning lots of new skills and improving al my other skills like MIG welding. I have faces challenges like ordering the steel and access to welders which have slowed me down a lot and waiting a few weeks for my axles to come. Overall I am happy with how is it going and I hope to be done in time

Cutting List

Shape of steel	Size mm	Thickness mm	Quantity	length
Channel iron	3 inch	5	1	20ft
Rectangle box	80x40	3	5	25ft
Box iron	40x40	3	7	25ft
Box iron	30x30	3	2	25ft
Box iron	25x25	3	6	25ft
Angle iron	30x30	5	2	20ft

For my trailer I also need to get two axles, a hitch, jockey wheel, 5 rims with Tyres, and 4 springs. I got all these from Auto and Trailer online.



Axles, Hitch, Tyres and Bolts