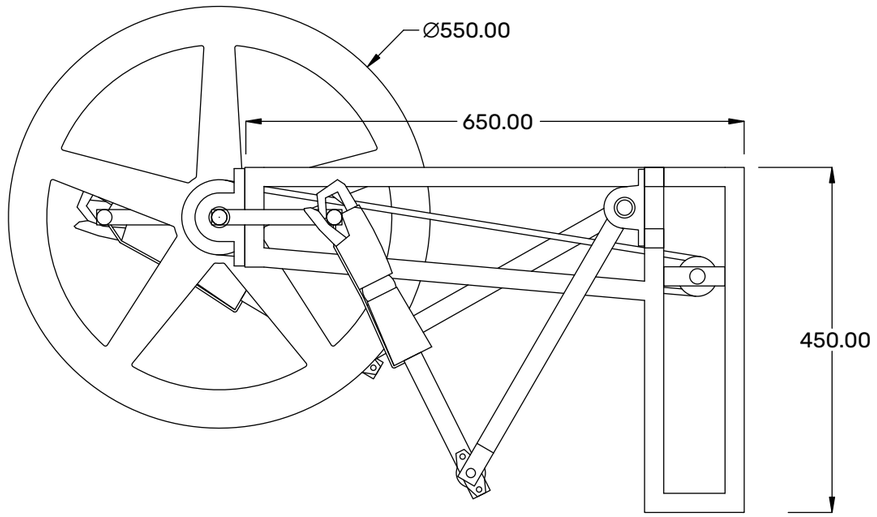
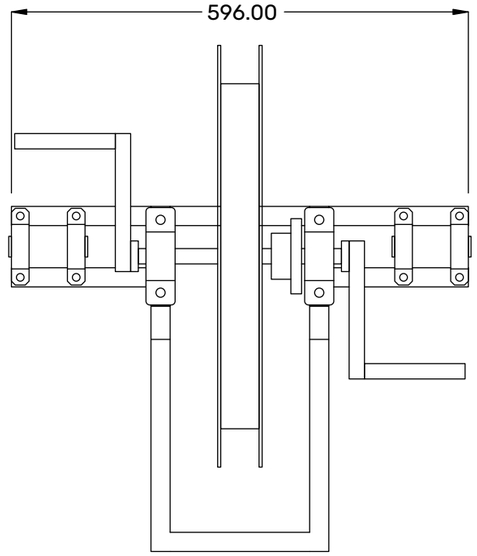
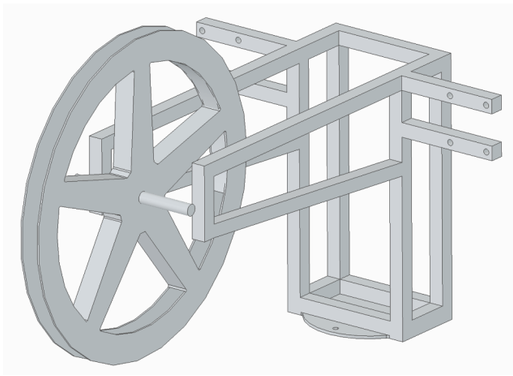
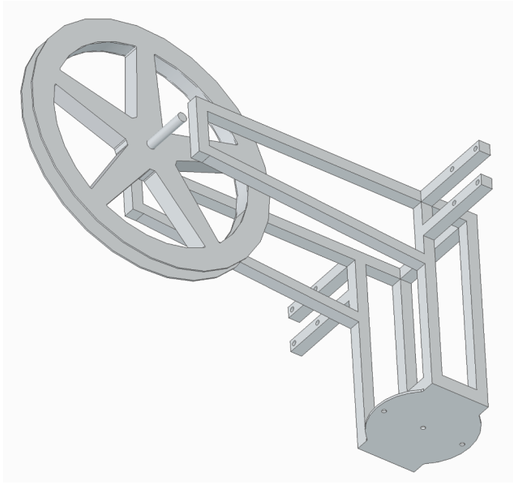
SIDE ELEVATION



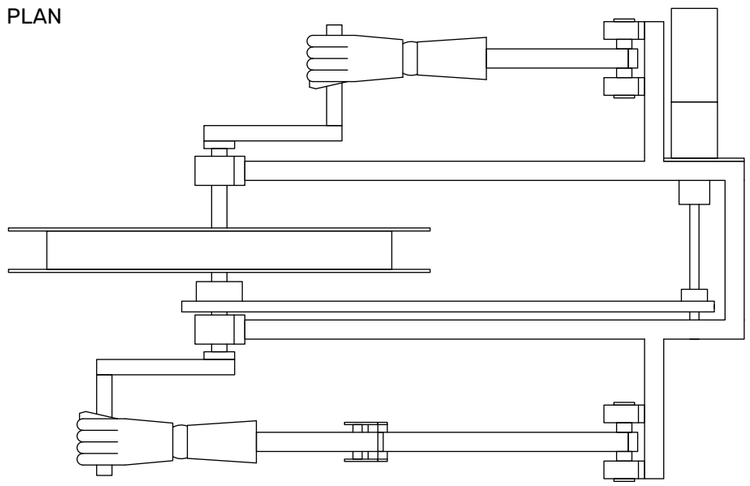
FRONT ELEVATION







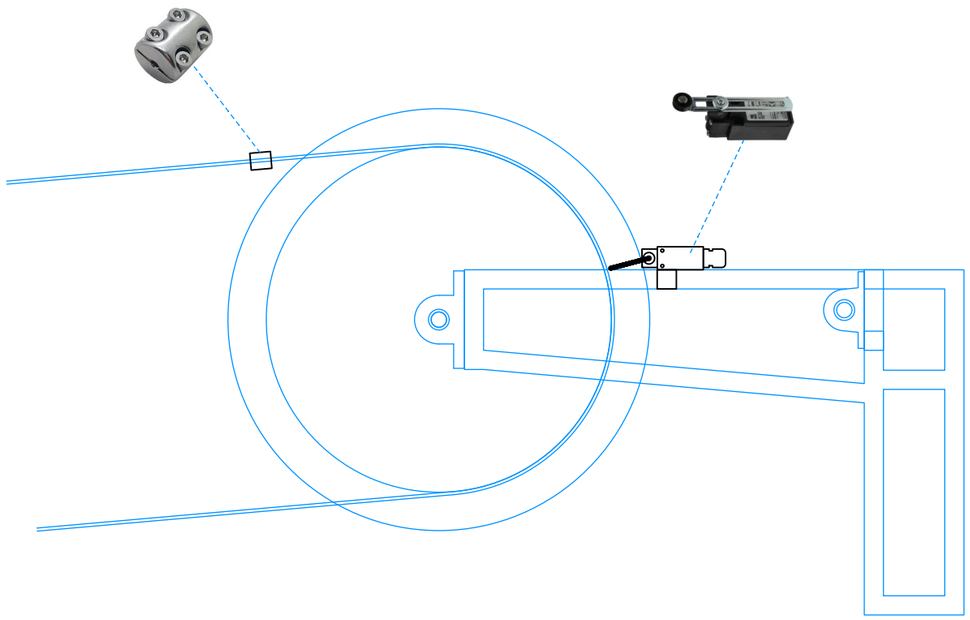
PLAN



Each pair of pulleys driven by single motor.
Sprocket and chain to drive pulley, to which the arm linkages are also attached.
Bearings used throughout on all moving parts.

Project:	WTT MECHANICAL
Drawing title:	Tug of War systems
Date:	23rd October 2026
Drawn by:	nervoussquirrel.com
Revision:	2
Scale:	1:8 @ A3 All dimensions in mm
Sheet:	1 of 2

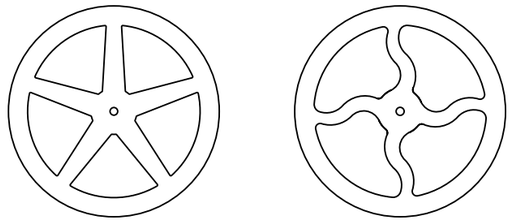
HOMING SYSTEM



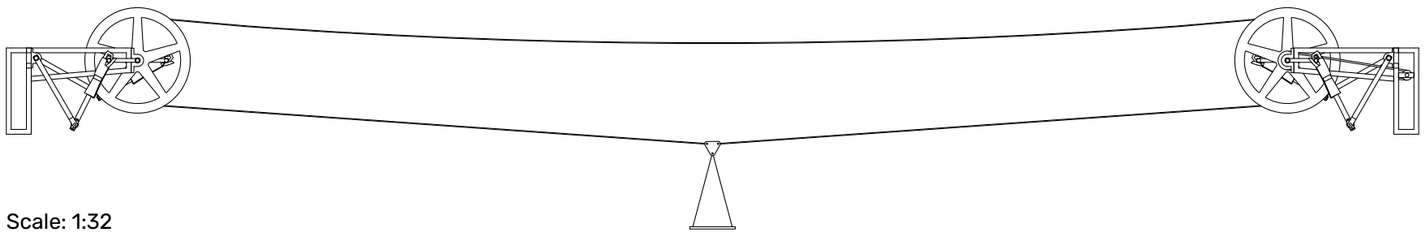
Lever switch to detect clamp mounted on cable.
On startup, pulley turns until limit switch is activated.
Watchdog timer also implemented in code.
Switch is mounted on bracket behind pulley.
Paddle attachment on switch.
Steel rope is 4mm diameter.

PULLEY SPOKES

Different design for each of the two tug of war systems:



SETUP WITH 4MM STEEL ROPE



Scale: 1:32
Basket / props by others

Project:	WTT MECHANICAL
Drawing title:	Tug of War systems
Date:	23rd October 2026
Drawn by:	nervoussquirrel.com
Revision:	3
Scale:	1:8 @ A3 or as indicated
Sheet:	2 of 2