

1 Tank Drive

1.1 Cost

- Needs only 2 gearboxes. (4 if designed for meccanum) (upgraded if 6 motors used)
- Motors used is up to the year, with options for 2 or 4. (or 6 with upgraded gearboxes)
- Wheels used is 6. (or 4 if designed for meccanum)
- Can use any type of wheel if chains are used. Can use 6" + if belts are used.
- Can use chain or belts with sprockets or pulleys respectively.
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1.2 Programming

- Can be done by freshmen with some help.
- Extremely straightforward.
- Short development time.
- Easiest to program for autonomous. Dead reckoning or encoder reading possible.
- No need for a relative heading from a gyro.

1.3 Capabilities

- Tied for best design for pushing in the direction of the wheels.
- Resists perpendicular pushing perfectly.
- Resists $\sin(|\Theta|)$ in general where Θ is the angle of the pushing force from perpendicular.
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1.4 Hinderances

1.5 Driver Usage

1.6 name