

- Boom up- and down with telescope in a position far out. The further out the telescope is, the heavier it gets for the boom motor.
- Telescope out when the boom is in an upward position.
- **Do not turn the tower sideways when the water/nozzle is sideways.** If the water goes sideways when the tower rotates, the water pressure will effect the electric motor. The further out the telescope/arm is, the higher the effect gets.

Therefore, it is important that you use our principles as basics during the programming to get the full potential of the robot without unnecessary movements and with the least possible wear on the EVO Cleaner.

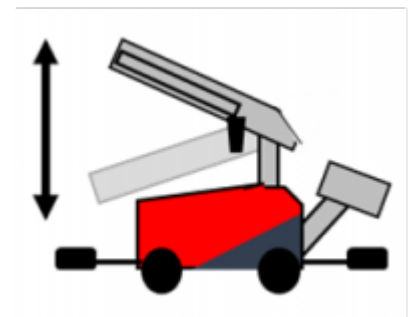
Basically we use a lot of motions with the tower, arm and nozzle to make circular patterns in our programs (most efficient). Boom, telescope and wheels is mostly used to take a new position (shorter movements).



During teach-in, always have great margins to the inventory of the pen with every part of the robot to avoid collisions.



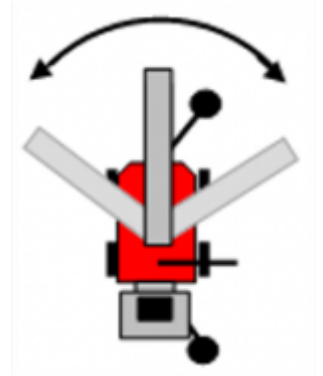
The directions of motion in the following illustrations are described as seen from behind the robot.



Boom up/down

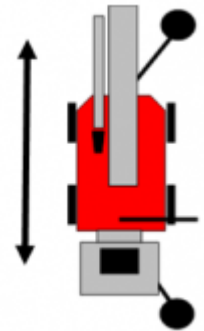
The boom moves about 100° from bottom (position 0) to top (position 1250). Parked position should be horizontal (about position 700).

Move joystick shaft backwards/forwards.

Tower right/left 

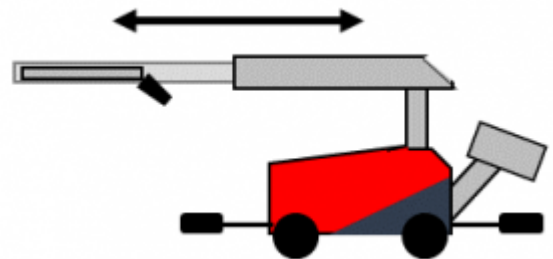
The tower can go about 200° in both directions (positions ± 1000) from its parked forward position (about position 0).

Move joystick shaft right/left.

Robot forward/backward

This function counts the distance (pulses) from the markers to get its positions.

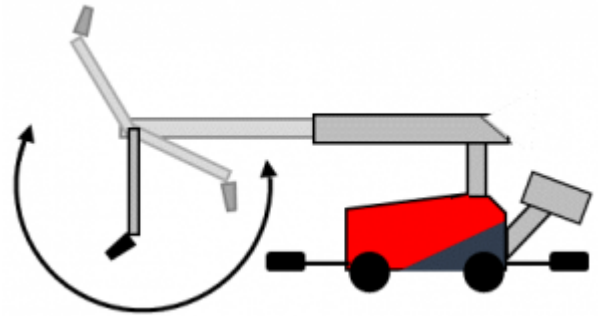
Move joystick shaft forwards/backwards, while pressing buttons 1 and 2 simultaneously.

Telescope out/in

The telescope can run out of its parked position 0 to position 425.

Move joystick shaft forwards/backwards, while pressing button 1.

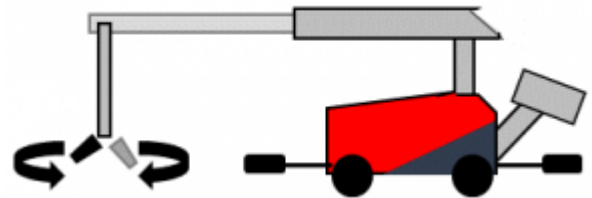
Arm out/in



The arm starts from its parked position parallel to the boom (position about -55). The arm can go out about 315°(to position 1100), so it points towards the ceiling.

Move joystick shaft right/left, while pressing button 1.

Nozzle right/left



The nozzle can spin 360° in both directions. The nozzle is parked when the arm is parked and nozzle points downwards.

Move joystick shaft right/left, while pressing button 2.

Now you know how to run the joystick.

How to use the joystick in the programs, go to [Programming - How to move the robot.](#) and select a program.

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