# Pushing board

This is our pushing board, it is used to push as many loaded balls from our side to the opposite each time as possible.

## Why we need it?

The idea first came into our mind when our operator is training to push a set of loaded balls to the other side in once using the back of the robot. Of course this is the fastest way to deliver balls and push them into the basket. However, we found that the robot is too narrow, and this causes two problems: First, the robot can’t push enough balls at once. Second, it’s easy for the balls to “leak” outside and are no longer pushed by the robot. It’s not surprising for us at that time that only one of the four loaded balls went into the goal successfully. Adding pushing boards can “virtually” increase the width of the robot and hence solve the problems above.

## How it works and how we use it.

The boards are usually closed so that the width of the robot won’t exceed 18 inch before the competition. After the robot touches the match load bar, the operator presses a button on a controller, and the pistons connected to the boards will be activated and push the boards open. The loaders put tribals in the front of the robot and boards. After that, the operator controls the robot to go forward and push the tribals into the goal.

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## How it’s developed?