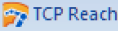


Using the MotoSim Reach Tool

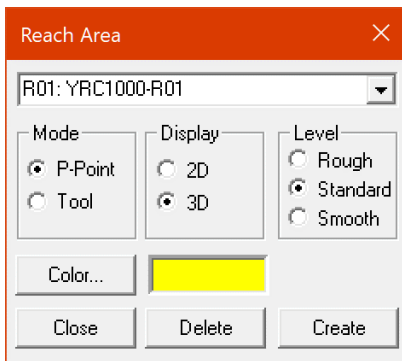
Introduction

The MotoSim TCP Reach tool is useful for quickly displaying if a robot can reach all needed locations. It either generates a 2D profile or a 3D “Bubble”, showing the reach.

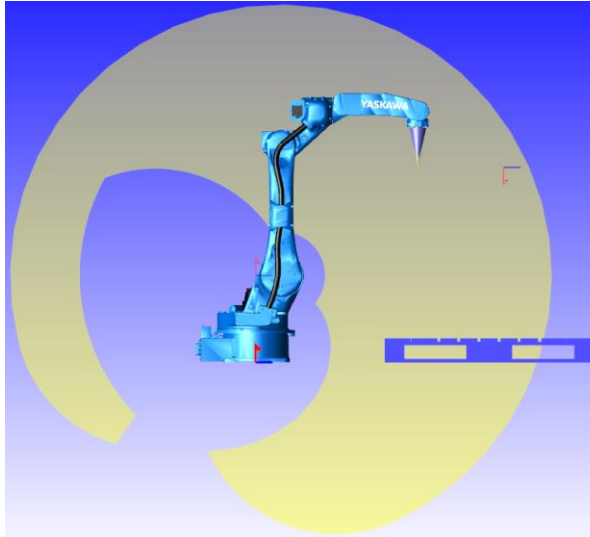
The Reach Tool  can be found on the CONTROLLER Tab. It can be either based off the robot’s wrist (the P point) or the user-defined Tool Center Point (TCP) location.

TCP Reach Tips

1. Select P-Point (the link between the R and B axis) or Tool
2. 2D or 3D
3. Level of detail (Rough, Standard, Smooth)
4. Select a color
5. Select OK

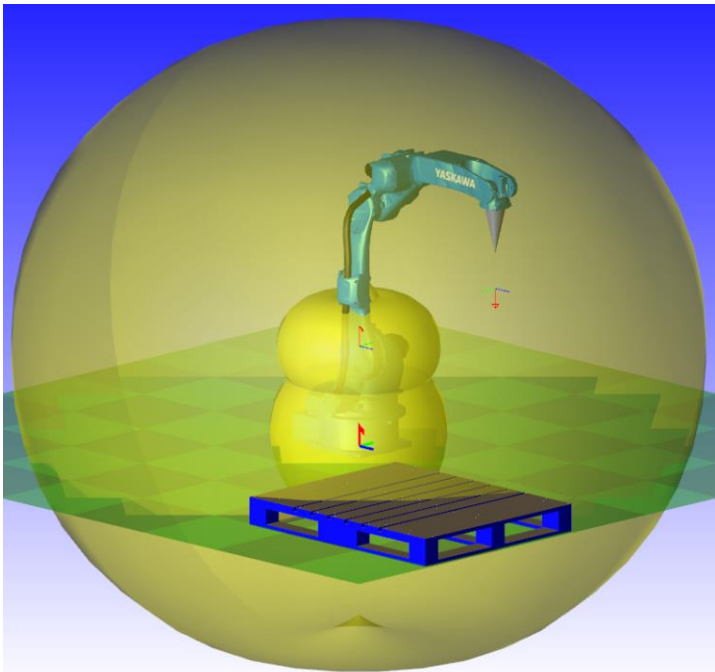


2D Reach Envelope



This document captures ideas, experiences, and informal recommendations from the Yaskawa Partner Support team. It is meant to augment – not supersede manuals or documentation from motoman.com. Please contact the Partner Support team at partnersupport@motoman.com for updates or clarification.

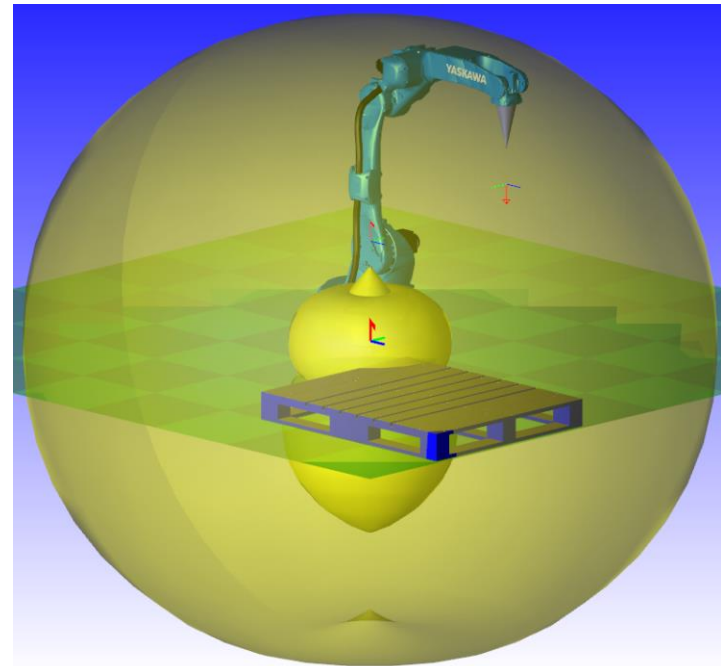
3D Reach Envelope (P-Point)



The envelope is based on the P-Point, the link between the R and B axis.

Note how the envelope only partially covers the pallet

3D Reach Envelope (Tool)



Because the tool TCP is moved, the envelope is adjusted.

Note how the envelope almost covers the pallet