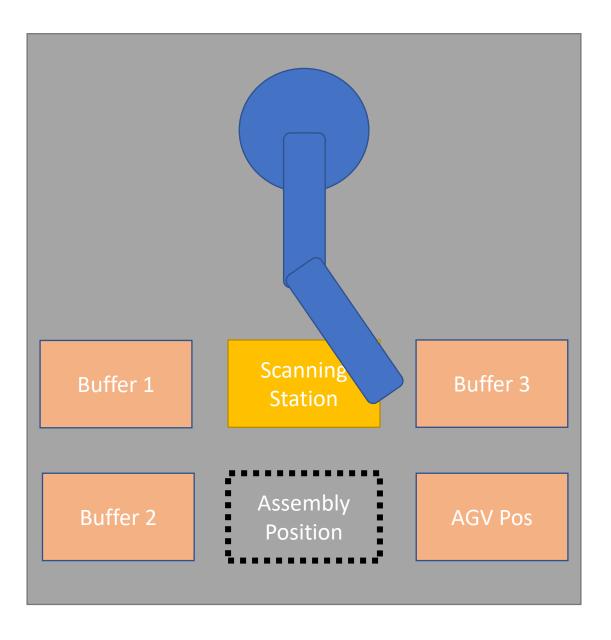


Instructions

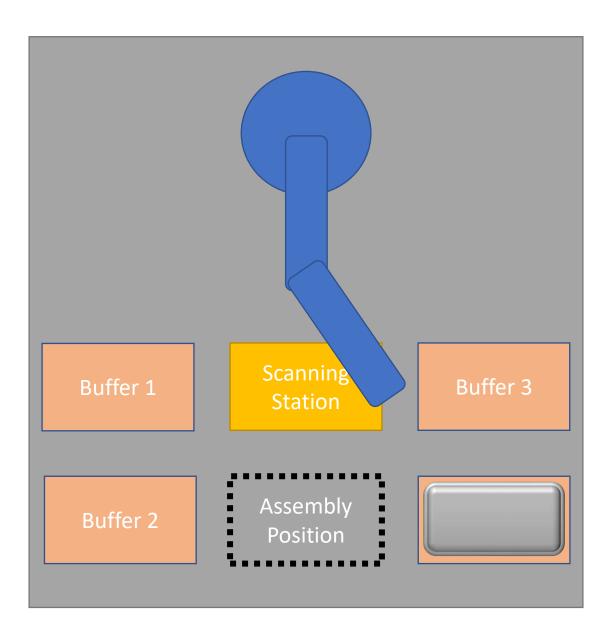
- All details of the project is similar to the main project file.
- Only the flow of the program is changed for this version.
- Please consult with the main document for instructions on the function blocks and other
- The AGV request button in Station is Swapped with **ixAGVatStation** variable now to make the AGV available as many times as possible to do the new project.
- The first container to arrive the station decide the color of buffer that the station will receive.



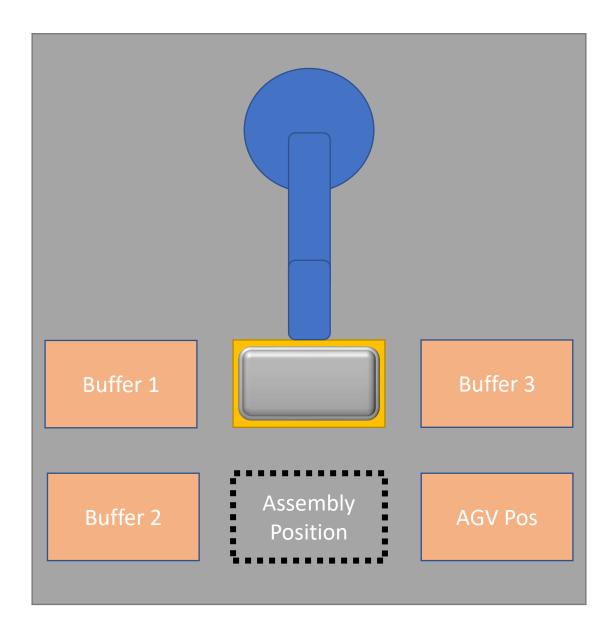
Project Flow



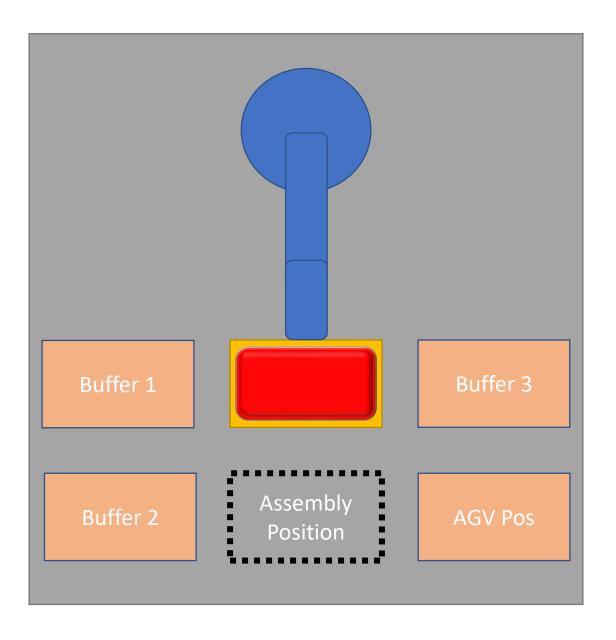
- When the Station Starts, All buffers are empty
- Station goes to AutoMode
- Station Status: 100
- Then Station Status: 200 when IO station books the station.



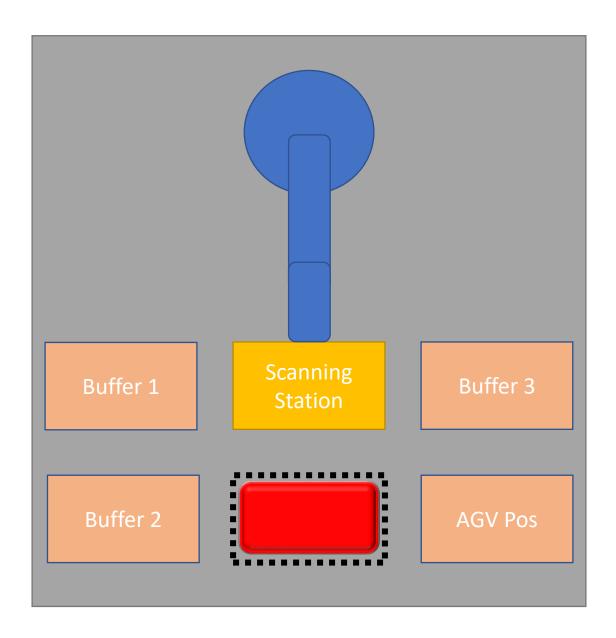
- ixAGVatStation=TRUE
- New container have arrived at the station



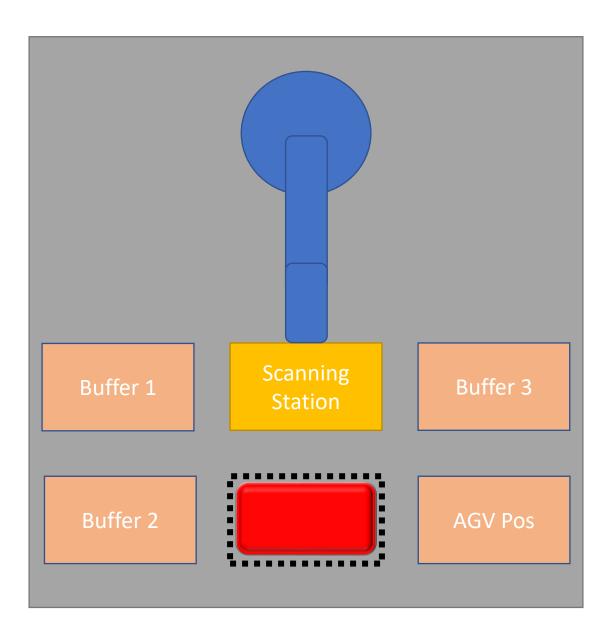
- ixAGVatStation:=FALSE
- Robot Scans the container to identify the color



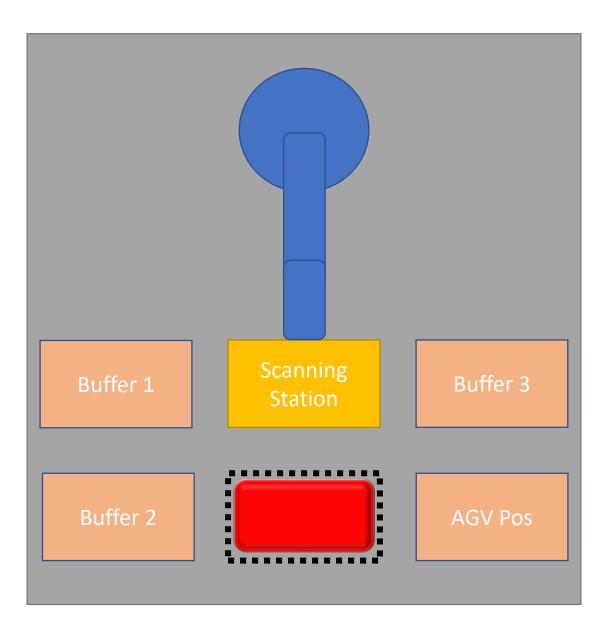
- ixAGVatStation:=FALSE
- Robot Find the color of the container.
 - Example: REDCONTAINER



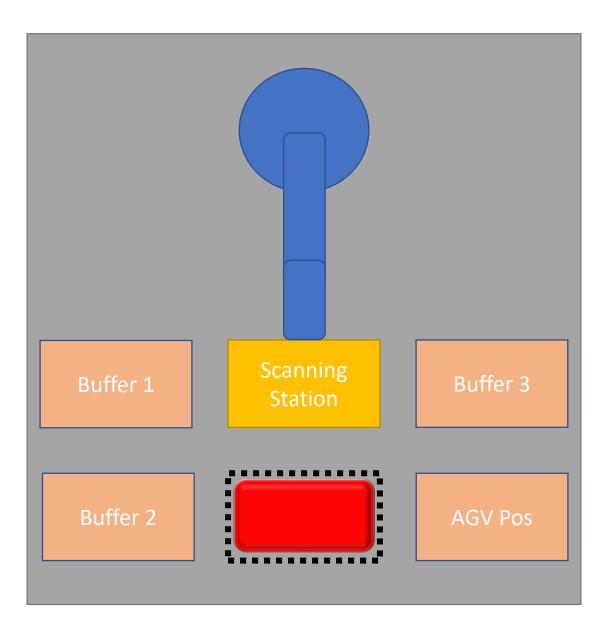
• Robot moves the container to table.



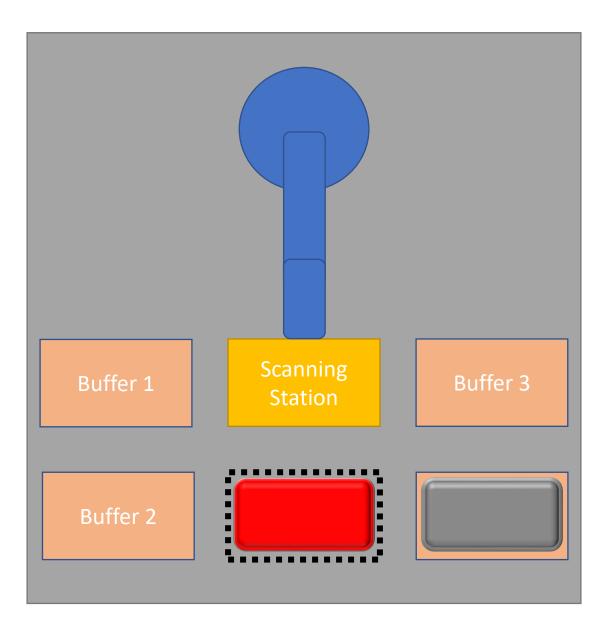
- Program identifies the correct parts needed for the assembly.
 - Example:
 - In this case the parts needed are
 - REDPLATE
 - REDCYLINDER
 - REDOCTAGON



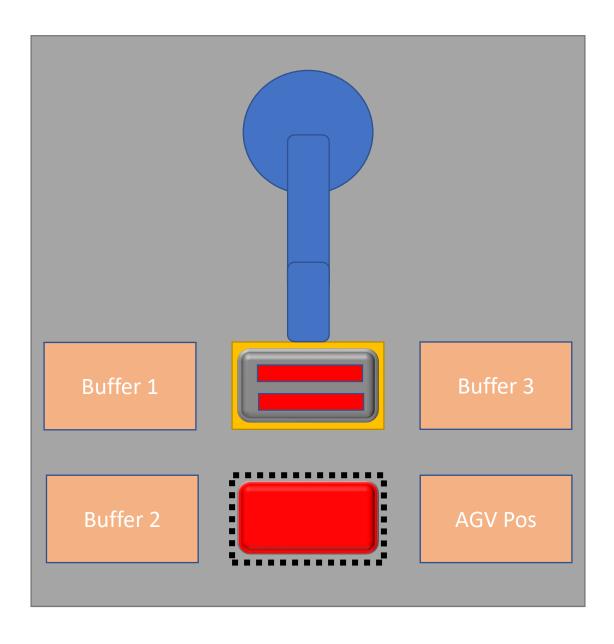
- Program Starts requesting for buffers of parts needed.
- Order 1:
- qsOrderforNextAssembly:="REDPLATE"



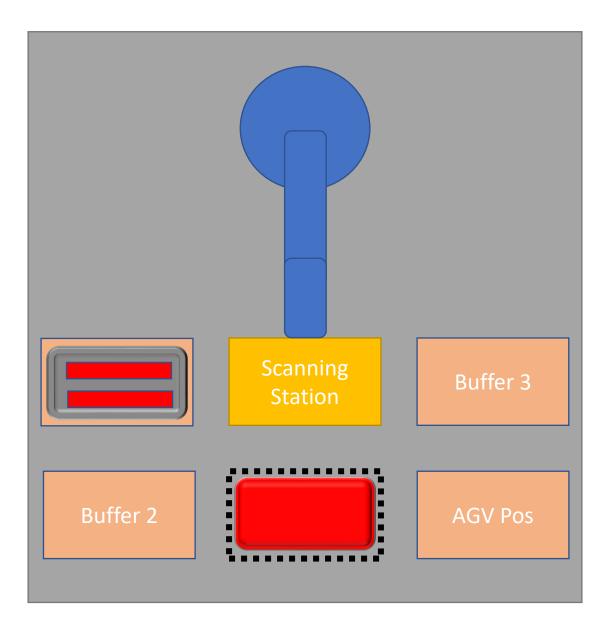
- Program Starts requesting for buffers of parts needed.
- Order 1:
- qsOrderforNextAssembly:="REDPLATE"



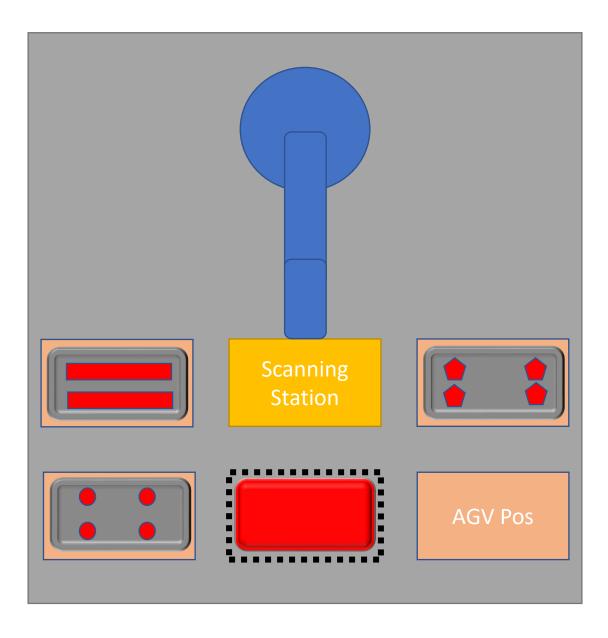
- qsOrderforNextAssembly:="REDPLATE"
- ixAGVatStation=TRUE
- New container have arrived at the station



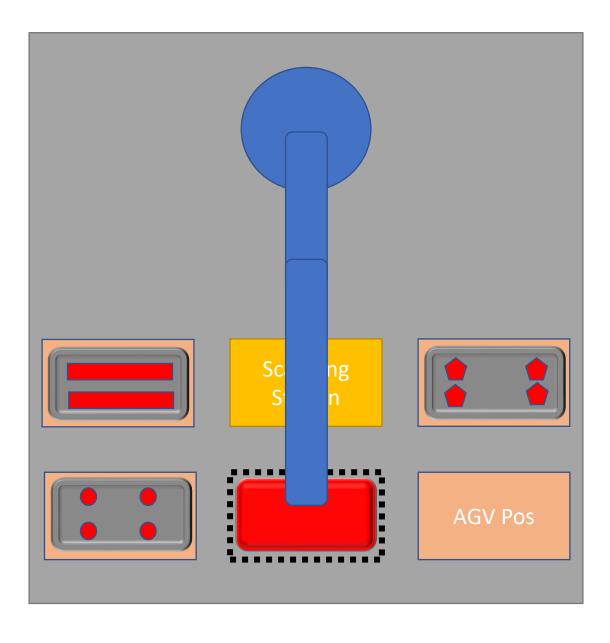
- Robot Scans the buffer pallet to confirm the pallet is as per the order.
- The AGV can bring wrong plates also.
 Wrong plates should be handled well.



- Confirmed red plates are moved to Buffer 1
- Bufferproduct.Storage1.Combonents:= "REDPLATE"
- Bufferproduct.Storage1.Quantity:=2



- Next Order
- Order 2:
- qsOrderforNextAssembly:="REDOCTAGO N"
- Step 7 to 10 are repeated for all buffers

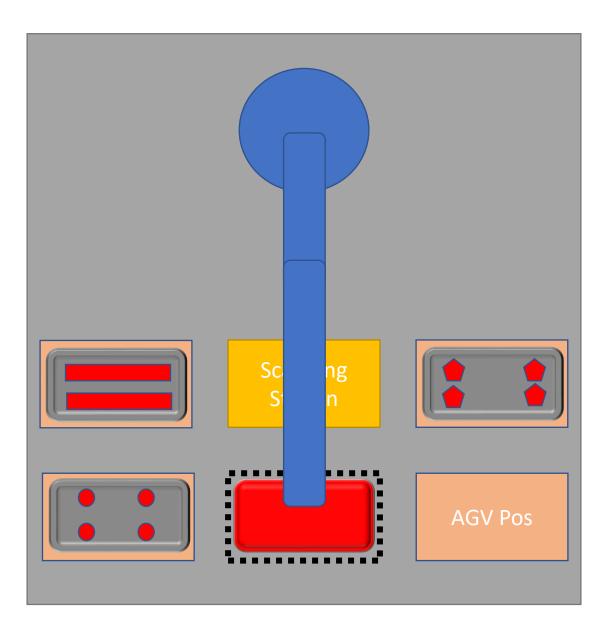


- Now all the buffers are filled.
- Robot Scans for already assembly on the container.
- Example:

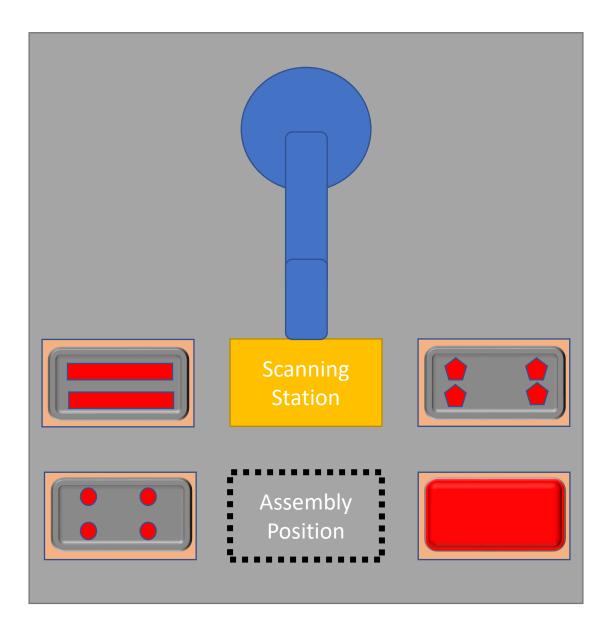
PLATE: missing

OCTAGON: missing

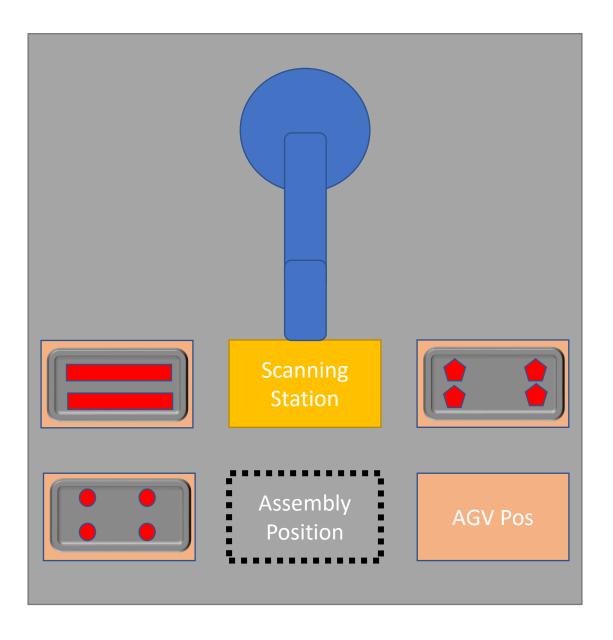
• CYLINDER: missing



• Performs the possible assembly



 Sent assembled container back to the AGV.



• Waits for another container from AGV

Instructions

- Station should be able to handle different if the AGV bring a different color container.
- Station should be able to handle partially filled containers. Only do the assembly that is possible by you.
- It should be possible to request for a new buffers.
 - In this case the robot should take one buffer at a time to the AGV.
 - When the all the buffers are given to the AGV, new container will arrive, and S1 to S11 will continue.