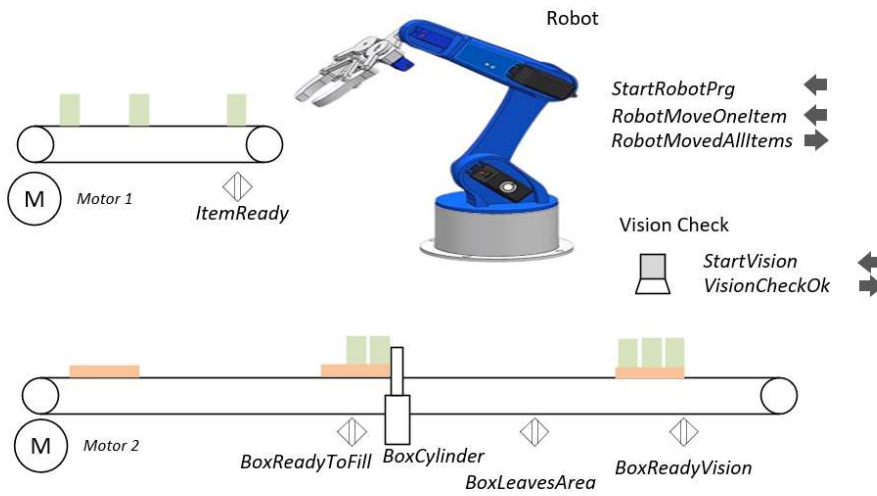


Packing Item Robot Control

Robots packs three items in a box. When the packing is finished, it is checked by a vision camera.

When the robot has finished moving the items to the box, the PLC gets a confirmation (RobotMovedAllItems) from the robot controller. Finally, the box is checked by a vision camera.



```

MAIN
1  PROGRAM MAIN
2  VAR
3  END_VAR
4
1  FillBox();
2  Vision();
3  StartStop();

```

```

1  PROGRAM FillBox
2  VAR
3      BoxCylinder          : BOOL;    // cylinder to stop box to be filled
4      ItemReady            : BOOL;    // item ready to be moved to the box by the robot
5      StartRobotPrg        : BOOL;    // start robot program
6      RobotMoveOneItem     : BOOL;    // signal to robot: move one item
7      BoxReadyToFill       : BOOL;    // a box is ready to be filled
8      RobotMovedAllItems   : BOOL;    // signal from robot. Robot has moved all items
9  END_VAR

```

1 Start robot

```

GVL.RunBit  BoxReadyToFill  StartRobotPrg  (s)

```

2 Fill box

```

GVL.RunBit  BoxReadyToFill  ItemReady  StartRobotPrg  RobotMoveOneItem  ( )

```

3 Check status for cylinder

```

GVL.K3Flag  BoxCylinder  (s)

```

4 Box filled

```

GVL.RunBit  BoxReadyToFill  RobotMovedAllItems  StartRobotPrg  (s)
BoxCylinder  (s)

```

5 stop robot if not in run mode

```

GVL.RunBit  StartRobotPrg  (s)

```

