

TEST PROJECT ROBOT SYSTEM INTEGRATION

EXTENSION TASK

WSC2019_TPFS08_Extension

Submitted by:
FANUC Europe Corporation
Nigel Ramsden / Julie Debock

Contents

EXTENSION TASKS.....	2
-----------------------------	----------



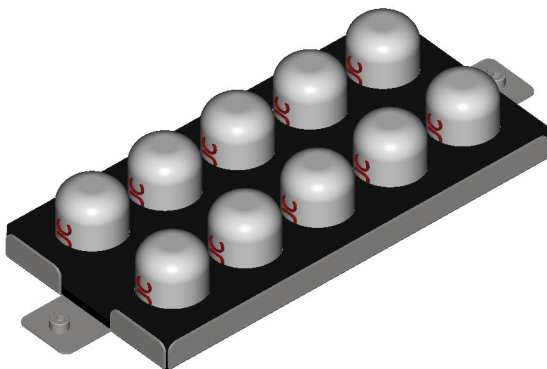


EXTENSION TASKS

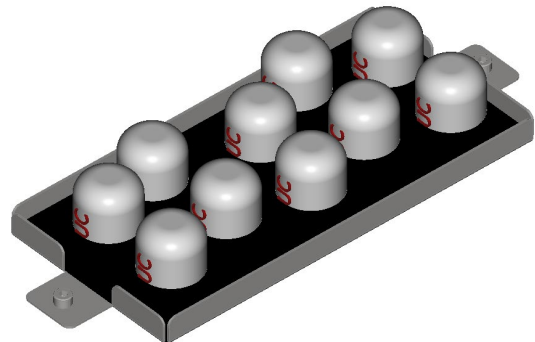
TASK	DESCRIPTION
1	Use iRVision to Pick the Top of the Doll from the Input Tray
2	Use iRVision to check for correct Assembly of the Doll (instead of the Microswitch)
3	Use iRVision to line up the Top and Bottom of the Doll

Extension Task 1:

With location tray – no Vision required

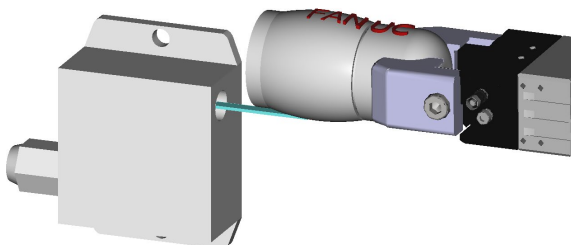


Without location – iRVision required

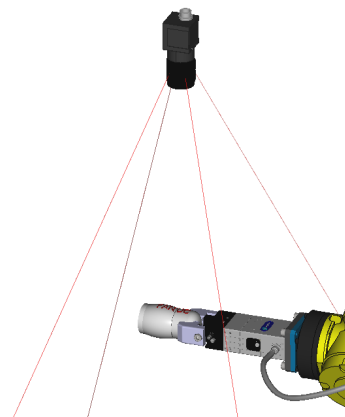


Extension Task 2:

Basic task – use Microswitch
to check Assembly



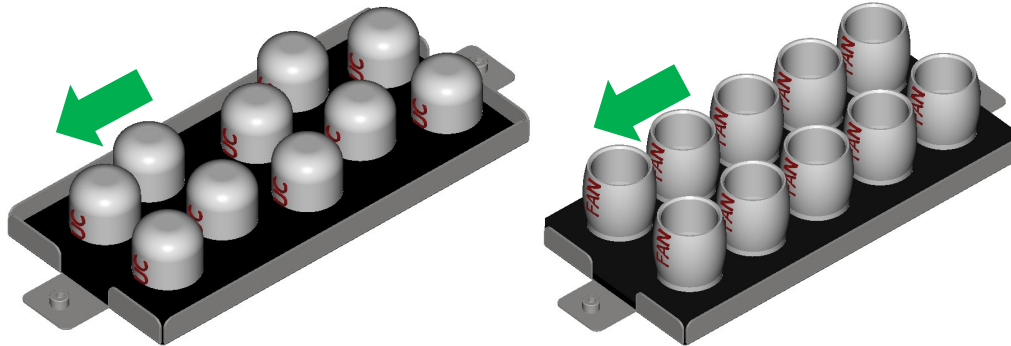
Extension Task – use iRVision
to check Assembly



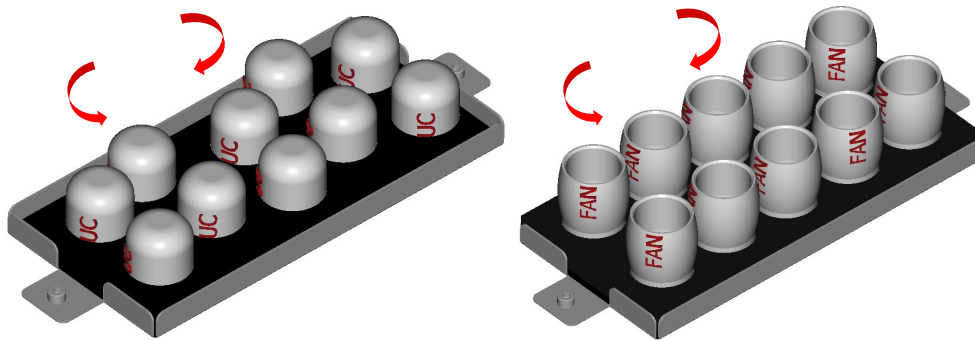


Extension Task 3:

Normal situation – all Logos lined up in Input Trays

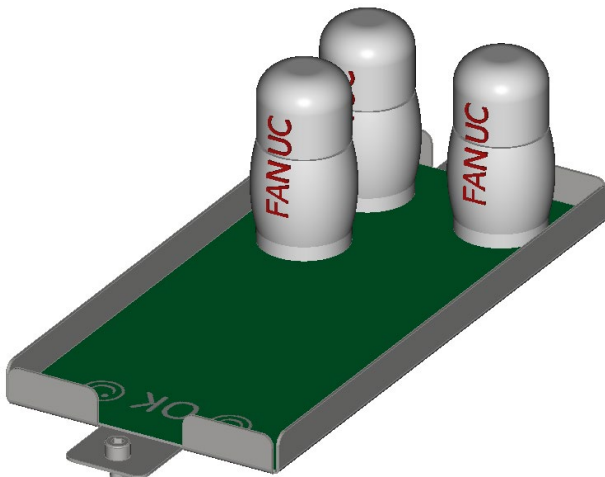


Extension Task 3 Situation : Logos not lined up – each logo can be +/- 22 degrees mis-aligned

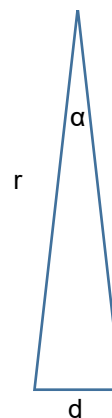


ExtensionTask :

Using iRVision, Align the Top and Bottom of the Doll, and place in the Output Tray all Aligned as shown below:



TIP:



In general

$$\alpha = \text{ATAN} (d/r)$$

But when α is small,

$$\alpha = (d/r) \text{ in Radians}$$

1 radian = 57.3 degrees