


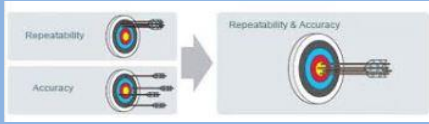


# SCARA Application Check list

## Background Information

	Gripper or tool weight (kg)	Additional tooling weight such as adapter plates, tubing and cabling. (kg)	Part weight (kg)	Total Payload (kg)
	Payload (expressed in kg) 			
Reach (expressed in mm) 	Horizontal stroke	Verical -Z stroke	Are the required moves within the SCARA's circular work envelope? Yes or No	
Repeatability (not accuracy) 	Smallest tolerance of parts	Required Robot Repeatability		
Mounting (check)	Standard-Table Top	Ceiling	Wall	Multi-Mount
Cabling (check)	3M (Standard)	5M	10M	

## Robot -

	G Series	LS Series	RS Series
Robot Series- Enter size			

## Environment

	Standard	Clean	ESD	IP 54	IP65	RoboSuit
ENVIRONMENTAL OPERATING CONDITIONS (check)						

ISO 3: Complies with ISO Class 3 (ISO14644-1) (less than 1000 particles greater than or equal to 0.1µm in size in 1 cubic meter)

ISO 4: Complies with ISO Class 3 (ISO14644-1) (less than 10000 particles greater than or equal to 0.1µm in size in 1 cubic meter) cleanroom standards (LS robots are Clean are ONLY ISO 4)

IP54 (Dust) - Dust shall not ingress in a quantity to interfere with satisfactory operation of the robot  
 IP54 (Water) - Water splashing against the enclosure from any direction shall have no harmful effect

IP65 (Dust) - No ingress of dust  
 IP65 (Water) - Water projected by a nozzle against enclosure from any direction shall have no harmful effects

ESD compliant.\*1 This makes them ideal for ESD sensitive applications where electro-static discharge can create defective parts such as the hard drive industry.

Additional Suggestion: Robot Bellows or bagging- If you are in an environment where you need protection from heat, cold, solvents, vapor, aseptic and etc. Consider [www.roboworld.com](http://www.roboworld.com). They manufacture Robosuits to protect robots from the environment as well as protect the environment from the robot

## Approvals

	Standard- CE,KC	Optional:UL Approval
Approvals (check)		

## Studies -

	Feasibility	Cycle test	Vision	Mock-up	Live Demo
Studies requested (check)					

## CAD Documentation \*Required prior to Application Department submittal

	Yes (DXF OR STEP)- Please place file name in box.	No (If no, please resubmit once CAD files have been generated)
Is the study request supported by CAD documentation?		
Is the end of Arm tooling supported by CAD documentation?(including tooling offset)		
Are the pick and place points supported by CAD?		
	Yes (if yes, please specify samples or drawings	No (If no, please resubmit once parts have been identified)
Are all parts identified?		

## Part Presentation / Handling/Vision

	Yes	No
Are parts fixtured?		
Are parts moving?		
	Speed	Belt Material
If part are moving, what is the belt speed ?		
	Yes	No
Is conveyor tracking going to be used?		
Is Vision going to be used?		
Is Vision tracking going to be used?		
Are the parts all the same color?		
Are the parts clean?		
Are good and bad parts available?		
Will the parts be presented in a radom pattern?		

## Motion Profile- Define process/ order of operation/ moves

Description:

	Yes	No, If No Please redefine in Motion Profile
Is the cycle time defined?	<input type="checkbox"/>	<input type="checkbox"/>
Are moves and distances defined?	<input type="checkbox"/>	<input type="checkbox"/>
Are all dwell times for gripper, vacuum or process defined?	<input type="checkbox"/>	<input type="checkbox"/>

### Options:

	Yes
<b>Software Options Available for RC700-A ( check Yes -if required)</b>	
Vision Guide 7.0	<input type="checkbox"/>
RC+API 7.0	<input type="checkbox"/>
ECP	<input type="checkbox"/>
GUI BUILDER 7.0	<input type="checkbox"/>
SECURITY	<input type="checkbox"/>
Force sensing	<input type="checkbox"/>
OCR	<input type="checkbox"/>
<b>Controller Option for RC700-A (check Yes- if required)</b>	
TP1	<input type="checkbox"/>
TP2	<input type="checkbox"/>
TP3	<input type="checkbox"/>
Conveyor Tracking	<input type="checkbox"/>
PG Card (Pulse generation)	<input type="checkbox"/>
RS-232C card	<input type="checkbox"/>
I/O expansion card	<input type="checkbox"/>
Fieldbus I/O (slave)	<input type="checkbox"/>
Fieldbus I/O (master)	<input type="checkbox"/>
I/O Premade Cable kit	<input type="checkbox"/>
RC700 DU-A (drive unit)	<input type="checkbox"/>

	Yes
<b>Software Options Available for RC90 ( check Yes -if required)</b>	
Vision Guide 7.0	<input type="checkbox"/>
RC+API 7.0	<input type="checkbox"/>
ECP	<input type="checkbox"/>
GUI BUILDER 7.0	<input type="checkbox"/>
SECURITY	<input type="checkbox"/>
Force sensing	<input type="checkbox"/>
OCR	<input type="checkbox"/>
<b>Controller Option for RC90 (check Yes- if required)</b>	
TP1	<input type="checkbox"/>
TP2	<input type="checkbox"/>
Conveyor Tracking	<input type="checkbox"/>
PG Card (Pulse generation)	<input type="checkbox"/>
RS-232C card	<input type="checkbox"/>
I/O expansion card	<input type="checkbox"/>
Fieldbus I/O (slave)	<input type="checkbox"/>
Fieldbus I/O (master)	<input type="checkbox"/>
I/O Premade Cable kit	<input type="checkbox"/>

	Yes
<b>Software Options Available for RC180 ( check Yes -if required)</b>	
Vision Guide 5.0	<input type="checkbox"/>

VB Guide 5.0	
ECP	
GUI BUILDER 5.0	
<b>Controller Option for RC180 (check Yes- if required)</b>	
TP1	
TP2	
Operator panel	
RS-232C card	
I/O expansion card	
Fieldbus I/O (slave)	
I/O Premade Cable kit	

## Integration

	End User	Integrator		
Who is doing the Integration?				
	Programming	Mechanical	Electrical	Automation
If an End User is doing the integration, do they have the following engineering resources? (Check all that apply)				
	Yes, (If yes-please specify)	No		
Does the End User Currently have robots?				

## Customer Information

Please provide Customer Name, address and Contact Info (email and telephone number):

## Air-Oil Systems Contact:

--

Air-Oil Systems  
 1-800-333-5520  
 www.airoil.com