Seamless Integration

Custom Yamaha Function Blocks for Omron NJ/NX PLCs

YRG ROBOTICS

YAMAHA

EASY!

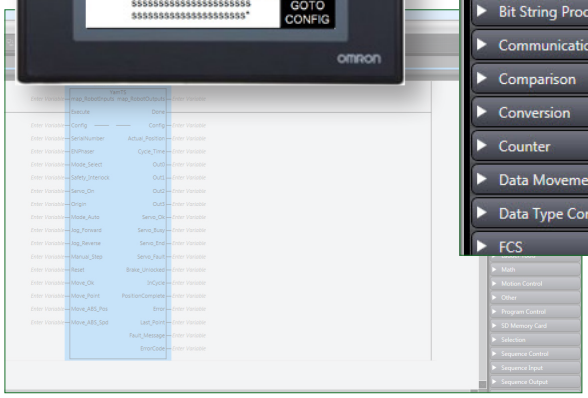
- *Simple Single FB for TS Controllers*
- *Seamless integration using custom Yamaha FB*
- *Simple drag and drop ladder programming with Sysmac Studio*
- *Teach and replay points in a Yamaha robot using an Omron HMI*
- *For more information, visit www.yrginc.com*

FBOMRON

Seamless Integration

Custom Yamaha Function Blocks for Omron NJ/NX PLCs

Omron NJ/NX

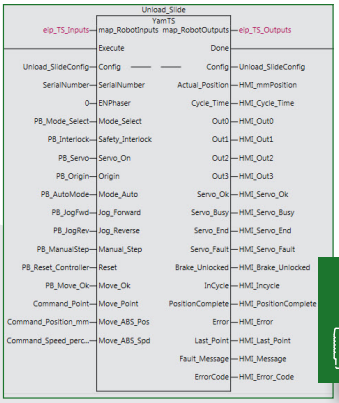


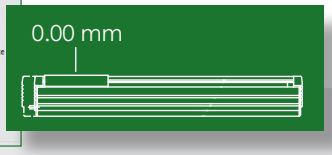
EtherNet/IP™

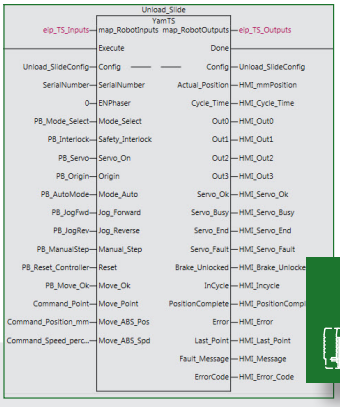
Ladder Logic Integration

- Simple Single FB for TS Controllers
- Seamless integration using custom Yamaha FB
- Simple drag and drop ladder programming with Sysmac Studio
- Teach and replay points in a Yamaha robot using an Omron HMI
- Control Yamaha robots with Omron Sysmac - no new training necessary
- Yamaha FBs are exclusive to Omron NJ/NX series PLCs
- Tag-based FB instructions directly move Yamaha linear slides

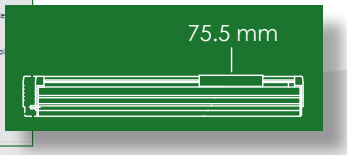
NEW!
Single FB
for TS Controllers



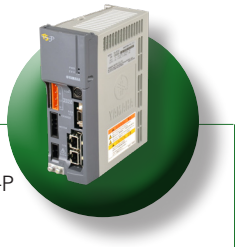




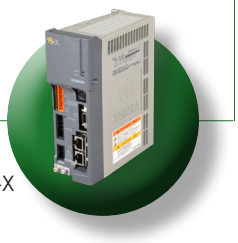
Move robots with direct millimeter commands



Controllers and Robots



TS-P

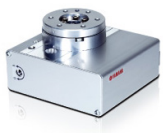
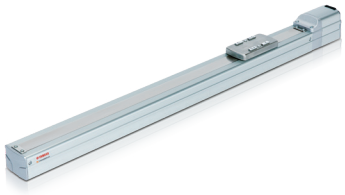


TS-X

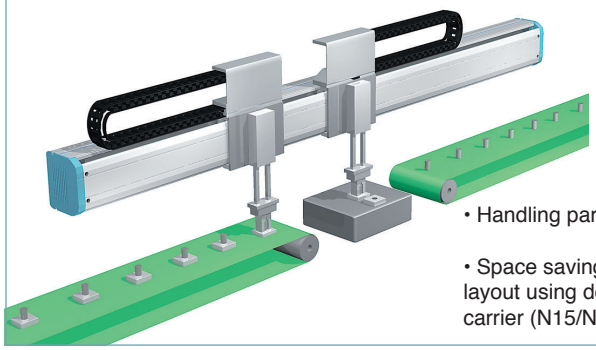
Phaser Linear Motor		Flip-X Ball Screw	
Robonity with Yamaha Servo Motors			

TS-SH

TS-S2

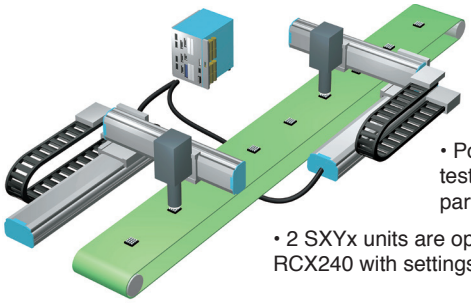
SR-SRD Rod Type		RF Rotary	
SS Slide Type		BD Miniature Belt Drive	
STH Miniature Slide Type		SG07 Slide Type	
Robonity with Yamaha Stepper Motors			

CARRY AND TRANSFER EQUIPMENT



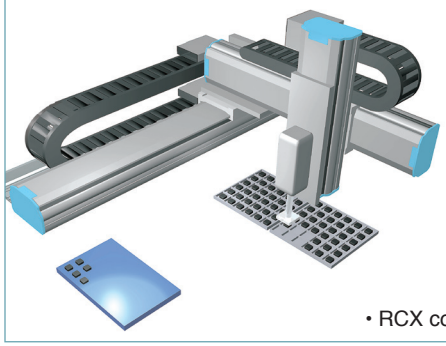
- Handling parts
- Space saving layout using double carrier (N15/N18)

TESTER (2 cartesian robots controlled simultaneously)



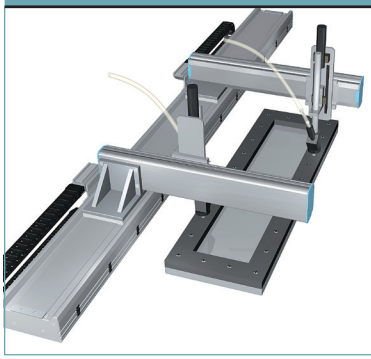
- Post-process testing of electronic parts
- 2 SXYx units are operated using 1 RCX240 with settings for 2 robots.
- High vertical traveling accuracy

IC PALLETIZING WITHIN THE UNIT



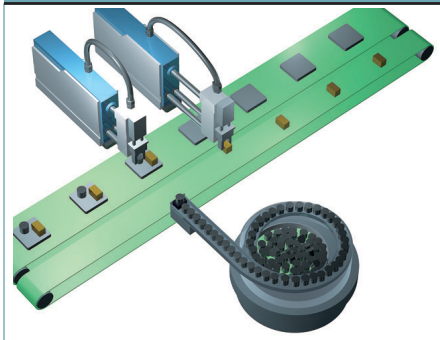
- ICs are taken out of the pallet and parts are transferred to the specified place by the robot.
- A die is attached to the circuit board during semi-conductor manufacturing
- RCX controller programming

HIGH SPEED SCREW TIGHTENING



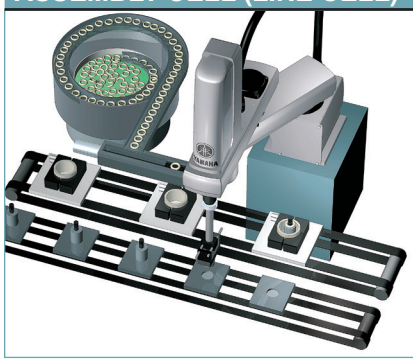
- Positioning 2 nut runners at the same time for a large work piece.
- 2 screws at opposite locations tightened at the same time.
- High speed, high accuracy

PRECISION PART ASSEMBLER



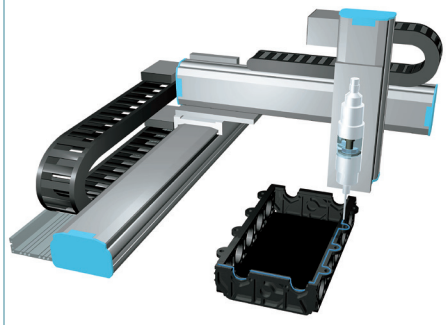
- Assembly of small size precision parts.
- High speed assembly
- Narrow machine width, and settable with a tiny pitch.

ASSEMBLY CELL (LINE CELL)



- Base machine of line type assembly cell.
- SCARA advantages with a wide operation range.
- Form a line to any length by coupling cells together.

SEALING



- Spreading sealant to mating faces of the cases
- Three dimensional application using 3 axes Cartesian robot. Cartesian robot incorporated with special purpose machine.

YAMAHA

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