

# Does your 3 axis servo robot have limitations in additional positions and motions? **HYROBOTICS ! RAISING AUTOMATIC MOTIVATION !**

THE BEST OF THE BEST

**NEXIA** SERIES

## Robot Information !

- MODEL NAME : NEXIA-100S ~ NEXIA-3000S
  - MOLDING MACHINE : 50 ~ 4,000 Tons
  - ARM : SINGLE ARM or DOUBLE ARM
- # Specification / Features
- TRAVERSE : 1,300 ~ 4,500 mm ( 51 ~ 177 inch )
  - KICK / REACH : 650 ~ 2,100 mm ( 26 ~ 81.4 inch )
  - DESCENT : 700 ~ 3,000 mm ( 27.5 ~ 118 inch )
  - CHUCK ROTATION : 90 / 180 Deg or Servo
  - HANDLING CAPACITY : 5 ~ 40 kg ( 10 ~ 90 lbs )
  - 3 ~ 5 Yaskawa Servo Motors for Each Axis  
(\* Industry Best ) : Smooth Acc/Deceleration
  - NSK Linear Motion Guide : Extremely Low noise
  - Timing Belt and Pulley : No backlash, low noise
  - Festo Actuator for Chuck Rotation
  - Double Arm Support : More rigidity
  - Telescopic Arm ( Rigidity with Low ceiling )
  - Steel Body Frame and Kick Aluminum Frame.
  - List Price : \$ 27,500.00 ~ \$ 85,500.00  
Delivered, Installed and Fully Trained.



NEXIA-400D WITH SERVO WRIST

### **NEXIA Series Control Features ( More flexibility with simple operation )**

- EASY TO ADD POSITION, MOTIONS IN & OUT SIDE OF MOLDING MACHINE
- INSERT MOLDING IS READY ( FROM STACKING OR FEEDER SYSTEMS )
- VERTICAL OR HORIZONTAL STACKING IS READY ( with Simple Data input )
- USER OUTPUT / INPUTS FOR SECONDARY AUTOMATION ARE READY
- INPUT/OUTPUT SIGNAL VIEW FROM MANUAL AND AUTO. STEP BY STEP TO CREAT NEW MOTION.

HYRobotics has supplied many 3 axis servo robots for use in intricate molding automation, including insert molding, palletizing, de-gating, and other secondary automation. If you have experienced limitations in motions with your current automation that require special factory programming, HYRobotics has the solution for you.

HYRobotics NEXIA Series robots have won the approval of North American molders with high quality components and 3 axis servo featured controls that offer flexibility and ease of operation.

Enjoy the benefit of full servo featured NEXIA series Robot !



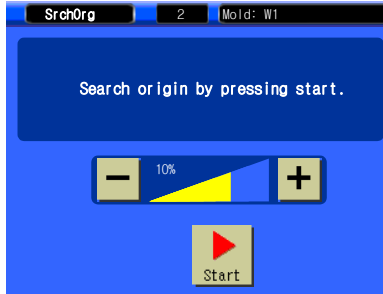
**HYROBOTICS CORP, 5988 MID RIVERS MALL DR. ST.LOUIS MO 63304**  
Website : [www.hyrobots.com](http://www.hyrobots.com), Email : [Sales@hyrobots.com](mailto:Sales@hyrobots.com)

All information is subject to change without any notice , some function required to have additional options.

# HYNC-700 TOUCH SCREEN FEATURES AND FUNCTIONS

## ENJOY THE BENEFIT OF FULL SERVO FEATURED CONTROL!

If you have experienced limitations in motions with your current automation that require special factory programming, HYRobotics has the solution for you. HYRobotics NEXIA Series robots have won the approval of North American molders with high quality components and 3 axis servo featured controls that offer flexibility and ease of operation.



### SERVO ORIGIN

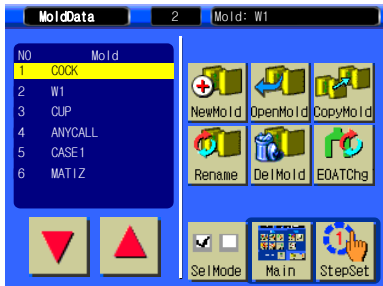
INITIAL SCREEN FOR FINDING ORIGIN POINT OF SERVO POSITIONS.

WITH POWER ON, ROBOT WILL SEARCH ORIGIN POINT TO LOCATE SERVO MOTOR'S HOMING POSITION WITH THE ORDER OF SAFETY.



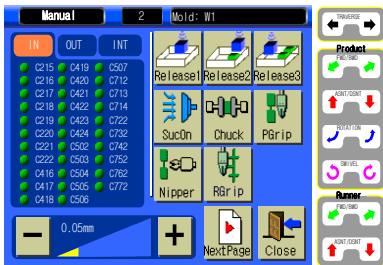
### MAIN SCREEN

THIS IS MAIN SCREEN HAS MANUAL, MOLD MANAGER ( STEP CREATION ), AUTO SCREEN. EASY ROBOT MANAGEMENT SCREEN HAS ALL FUCTION INCLUDING SETTING REJECT POSITION, THIS WILL ALLOW ROBOT SEPARATE THE REJECTED PARTS AND ALSO J MOTION SETTING OR ALARM, SYSTEM TIMES.



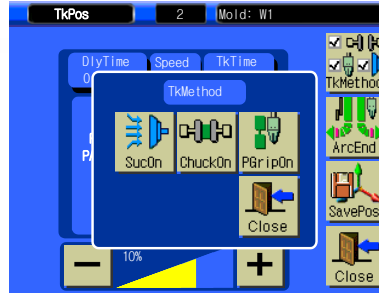
### MOLD MANAGEMENT

MOLD PROGRAMS CAN BE MADE , OPENED, SAVED, RESTORED, COPIED, EDITED EASILY. UP TO 99 MOLD NAME CAN BE SAVED IN THE SYSTEM, EACH MOLD CAN HAVE UP TO 20 MOTION STEPS. POWERFUL STEP SETTING ALLOW TO CREATE STEP FOR POSITION AND MOTION.



### MANUAL MODE

VACUUM, CHUCKING, GRIP, NIPPER CAN BE MANUALLY OPERATED . IN / OUT / INTERLOCK SIGNAL CAN BE MONITORED WITH THIS SCREEN. DETAIL ON EACH I/O AVAILABLE ON SUB SCREENS. 3 AXIS SERVO OPERATION WITH JOG BUTTON WITH SPEED ADJUSTMENT FUNCTION.



### TAKE OUT METHOD

USING SIMPLE ICONS, THE TAKE OUT METHOD IS SELECTED DURING MOLD SETUP. SUCTION, CHUCKING OR OTHER ADDITIONAL OUTPUT CAN BE SELECTED. J MOTION SET UP NEED TO BE DONE IN THIS STEP.



### POSITION SETUP

POSITIONS ARE ENTERED BY TEACHING ROBOT, USING JOG BUTTONS. LOCATE ROBOT AND SAVE POSITION. THIS ALSO CAN CREATE ADDITIONAL STEP DURING ANY STEPS WITH ADD POSITION FUNCTION. SPEED AND DELAY TIME WILL BE SAVED SEPARATELY FOR THIS STEP. CURRENT AND MEMORIZED POSITION ARE SHOWN IN THE SCREEN.



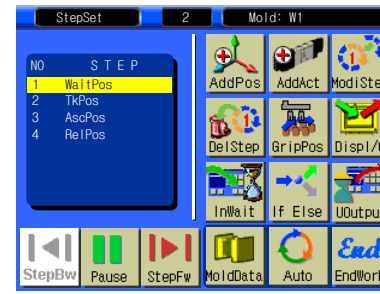
### PALLETIZING

SETUP SCREEN FOR PALLETIZING AND STACKING OF PRODUCT. NEXIA ROBOT CAN STACK HORIZONTALLY, VERTICALLY ALSO SEPARATE CAVITY WITH ADDITIONAL VACUUM OR CHUCKING CIRCUIT. OUTPUT AND INPUT COMMUNICATION REQUIRED FOR OPERATION.



### INSERT GRIP

SETUP SCREEN FOR PALLETIZED INSERT LOADING. NEXIA ROBOT GRIPS INSERT FROM FEEDER OR STACKED INSERT WITH THE INPUT OF NUMBER OF EACH AXIS. COMMUNICATION OF I.O WITH SECONDARY AUTOMATION REQUIREDC.



### STEP SCREEN

POWERFUL STEP SCREEN CAN ALLOW ADD POSITION, MOTION OR DELETE STEP AND COMMUNICATING WITH SECONDARY AUTOMATION. THIS STEP SCREEN WILL BE USED TO EDIT OR ADD STEPS TO THE CURRENT OR NEW MOLD FILE. USER INPUT OR OUTPUT CAN BE ADDED IN THIS STEP EDIT SCREEN.



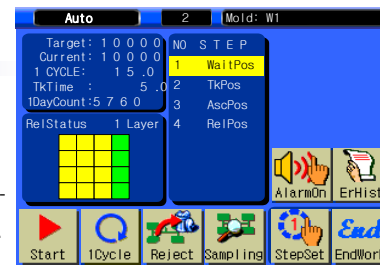
### NUMERIC INPUT

NUMERIC DATA IS ENTERED VIA TOUCH SCREEN FOR DELAY TIMER AND SPEED, POSITION CONTROL DURING AUTO MODE.



### DATA INPUT

ALPHA NUMERIC DATA IS ENTERED VIA TOUCH SCREEN FOR MOLD NAME OR STEP INFORMATION.



### AUTO SCREEN

TARGET COUNT, CURRENT COUNT, CYCLE TIME, TAKE OUT TIME, UNLOAD PALLETIZING, INSERT LOAD DE-PALLETIZING, MOTION SPEED, DELAY TIME, POSITION ADJUSTMENT OF EACH STEP. IT HAS PAUSE , RE-START FUNCTION.

