

A NEWS ! ROBOT INSTALLATION (AUG, 2006, JUAREZ IN MEXICO)

USA Customer who has a molding factory in Juarez, Mexico (Elpaso, TX) installed HYRobotics Take Out Robot TS-a-850S on their used 950 Tons Molding Machine in Aug, 2006.

**FOR PUBLIC
RELEASE**



Robot for 950Ton IMM

- Hybrid : 1 Axis Servo only, Kick Position Controlled DC Motor with Ball screw.
- Telescopic for low ceiling, Air Reservoir Tank. Steel Ladder for easy maintenance.
- Installation in 2 Days, Training , 2 Set of EOAT
- Total Project Cost, : **Under \$ 34,000.00**

- Customer is an automotive molders who's HQ in USA and one of their factory is in Juarez Mexico (Elpaso TX).
- Customer is in the process of setup a molding plant in Mexico due to customer's logistic requirement.
- Customer decided to install a robot due to Products quality , consistent and compete with other country's Molding Factory especially in China.
- HYRobotics got the project and finish the installation of the Robot for 950 Tons Injection Molding Machine.

- Customer chose non-operator side Take out robot for Molding Machine Operator's safety and decided to build their own safety guard by themselves after finish robot installation.
- Customer want to have a practical robot with less initial investment, not required to have full servo robot.
- HYRobotics chose TS-a-Series. Simple parts take out robot with practical function and Total Axis is 4
- TS-a-850S has Hybrid Mechanism , Servo for 1 Axis and Pneumatic for Kick and Descent and Chuck Rotation.



See next page to see practical function

Non Operator Side parts release for better operator's safety. All safety interlock installed correctly and trained with HYRobotics preventive accident program.



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HYROBOTICS HYBRID ROBOT PRACTICAL FEATURES

Molding Machine Setup Supervisor said “ It is a practical robot ”



Descent Waiting, and Kick Position Remote Control

- TS-alpha series has Waiting adjustment control for kick stroke.
- Robot Ascending complete position is not required to change.
- After change the mold, customer only need to adjust EOAT and Kick position and stroke.
- Kick Position and Stroke can be controlled by handy controller with Pressing Jog button with Ball screw and DC Motor
- Customer said “ It’s a practical robot , No complicate servo Program required for our non-experienced machine set up and don’t need to go up to adjust kick (reach) stroke and position. That means better safety and easy new mold set up”



Robot Handy Control

- HYRobotics TS-alpha Series Handy Palm pendant Controller installed with Robot.
- Customer said “ Program is easy and can be done in 10 minutes if EOAT is ready, All the Input / output can be checked with LCD screen. Almost like operating a sprue picker with more functions.
- HYRobotics TS-alpha Controller has Horizontal Stacking, Multi-Releasing with additional Vacuum circuit. Easy to setup and variety of programming.



IMM Robot Interface Control : Double Safety Interlock

- Robot and Injection Molding Machine Interface Box installed on IMM control box with Bright LED on Relay
- HYRobotics installed robot interface on the molding machine which don’t have SPI Interface interlock.
- 4 More additional relays installed in the IMM control box to get the signal from Molding machine for robot interface.
- All safety interlock installed correctly and tested with machine operators while training.
- In Training, HYRobotics mention about preventive accident program with past operator’s mistake from other company and step by step for recovery.

Customer said “ We hired some new people who don’t have experience in molding, due to the cost and some problem with training. I think this robot is good for us because of easy operation/new mold set up, safety, maintenance and less cost compare to full servo Robot ”