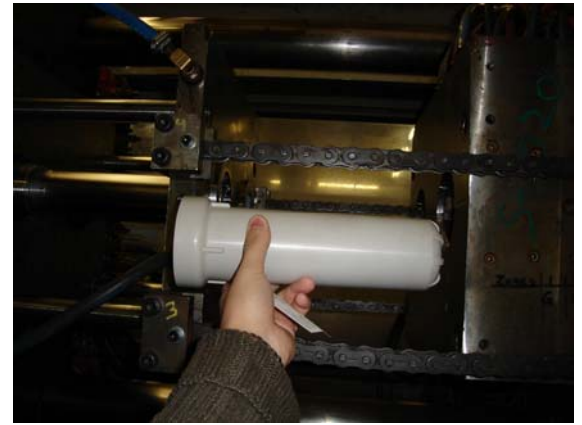


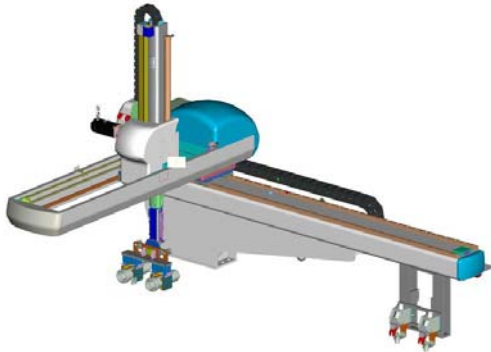
RAISING AUTOMATIC MOTIVATION ! HYROBOTICS !

In May, 2007 Custom Molder located in Roger, Arkansas installed HYRobotics Nexia series 3 Axis servo robot on their Milacron 500 Tons Molding Machine with Custom EOAT with Gate cutting units (Body Attached)

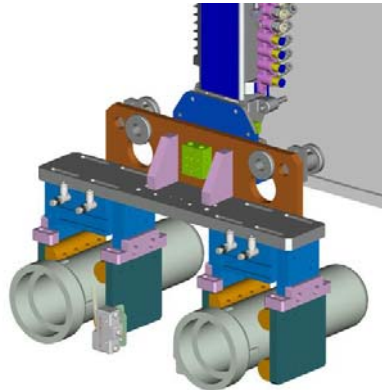


Parts Samples with Chain Installed Mold for push parts out side of core. (Robot but No Automation)

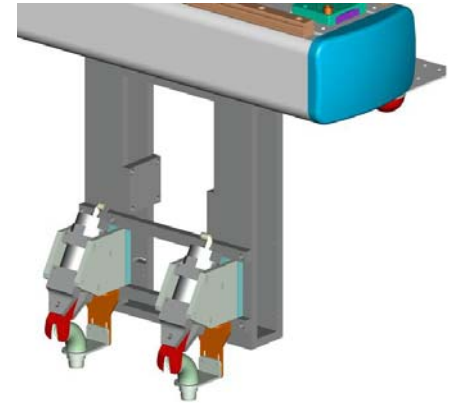
- Project Goal: Unloading Parts from Mold, gate cutting and place on conveyor.
- PARTS HANDLING : Molded part has 2 cavities, It has deep hole and gate attached on parts.
- IMM : Cincinatti Milracon 500 Tons with SPI Plug (Old generation robot removed by customer)
- ROBOT : HYROBOTICS NEXIA-600S(3 Axis Servo with pneumatic for Chuck Rotation)
- EOAT : Specially designed End of arm tooling, 2 Chuck Units with Verification sensor (Urethane chucking surface for parts protection) : Chuck stroke and location is adjustable for other mold
- Gate cutting : 2 Pneumatic Gate cutters for Gate cutting, Adjustable position.



Robot Layout : Solid modeling



EOAT with Parts Samples



Gate cutting Units on Robot

How Robot runs.

(Need handling inside and Outside of mold : Benefit of 3 Axis servo robot)

1. Mold Open. 2 Robot Down and Reach to Parts and Ejector Forward, 4 Robot approach to parts and chuck and return back to up position 5 Robot traverse and approach to gate cutting position. 6.Wait for 30 Seconds until cool 7. Gate cutting and Robot move back and drop parts to release position. 8. Robot arm go up. 10. Next Cycle Start.

INSTALLATION

- 1 Robot mounting Preparation : 1 Hour
- 1 Robot Mount with Fork Lift : 6 Hours (Limited Ceiling with No Crain)
- IMM Interface Wiring / Test : 1 Hours
- Next Day , EOAT Set up in the field (2 Hours)
- Robot Programming with Gate cutting (2 Hours)
- Run in Full Auto (2 Hours)
- Training Service : 2 Hours



After Robot Installation



HYROBOTICS CORP

5988 MID RIVERS MALL DR. ST.LOUIS MO 63304

TEL : 1-636-578-6059, Fax : 1-866-232-5594

WWW.HYROBOTS.COM , Email : Sales@hyrobots.com

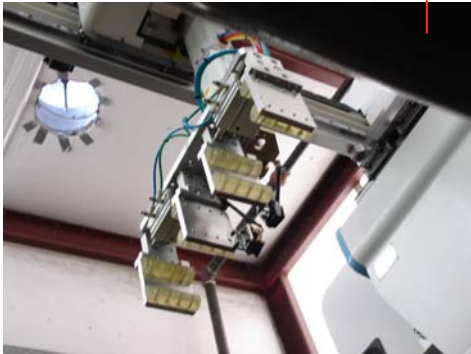
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RAISING AUTOMATIC MOTIVATION ! HYROBOTICS !

CONVEYOR WILL BE INSTALLED LATER BY CUSTOMER AND QUALITY PROBLEM SOLVED, BETTER MOLDING CONSISTENCY IN PRODUCTION with AUTOMATC GATE CUTTING.



Nexia Installation NEXIA-600S 3 Axis Servo Robot



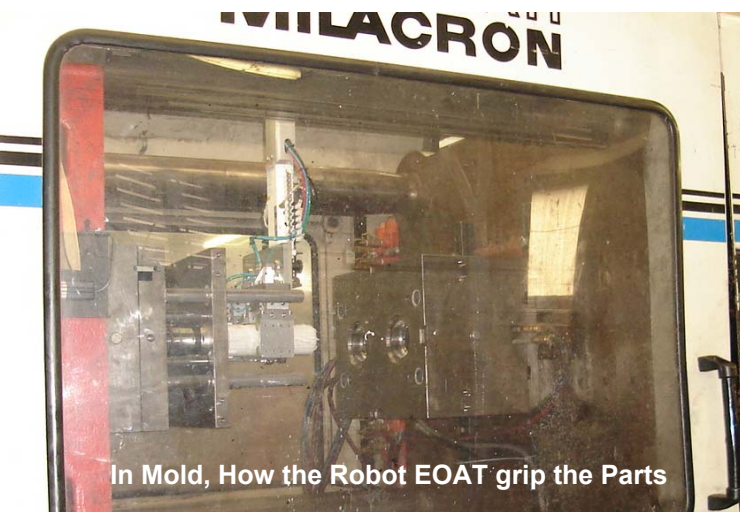
Custom End of Arm Tooling for Mold



NEXIA Touch Screen Control



Gate Cutting Station



In Mold, How the Robot EOAT grip the Parts



ROBOT EOAT with Parts
And Gate Cutting

RESULTS : CONSISTENCY, QUALITY PARTS PRODUCTION, MINIMIZED LABOR WORK, LESS CYCLE TIME AND MORE



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