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 : Cincinnati Milacron 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.

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

Before HYrobotics Robot Installation
CINCINATTI MILACRON 500 TONS WITH OLD GENERATION ROBOT

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

HYROBOTICS CORP
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WWW.HYROBOTS.COM , Email : Sales@hyrobots.com
RAISING AUTOMATIC MOTIVATION! HYROBOTICS!

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

Nexia Installation
NEXIA-600S 3 Axis Servo Robot

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

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