

Systems Center

Athena's Systems Center is taking shape as we prepare to increase our system integration and testing capacity. The foundations and the building's steel structure are finished – roof trusses, decking, and skylight frames are being erected. Next:

- Geothermal system bore holes
- In-floor heating preparations
- Power and telecom service connections

The project is on schedule for a late-fall enclosing of the building, that will allow us to continue the inside work during the winter months.



Systems Center in early September 2014; existing building in foreground

Rotary Table

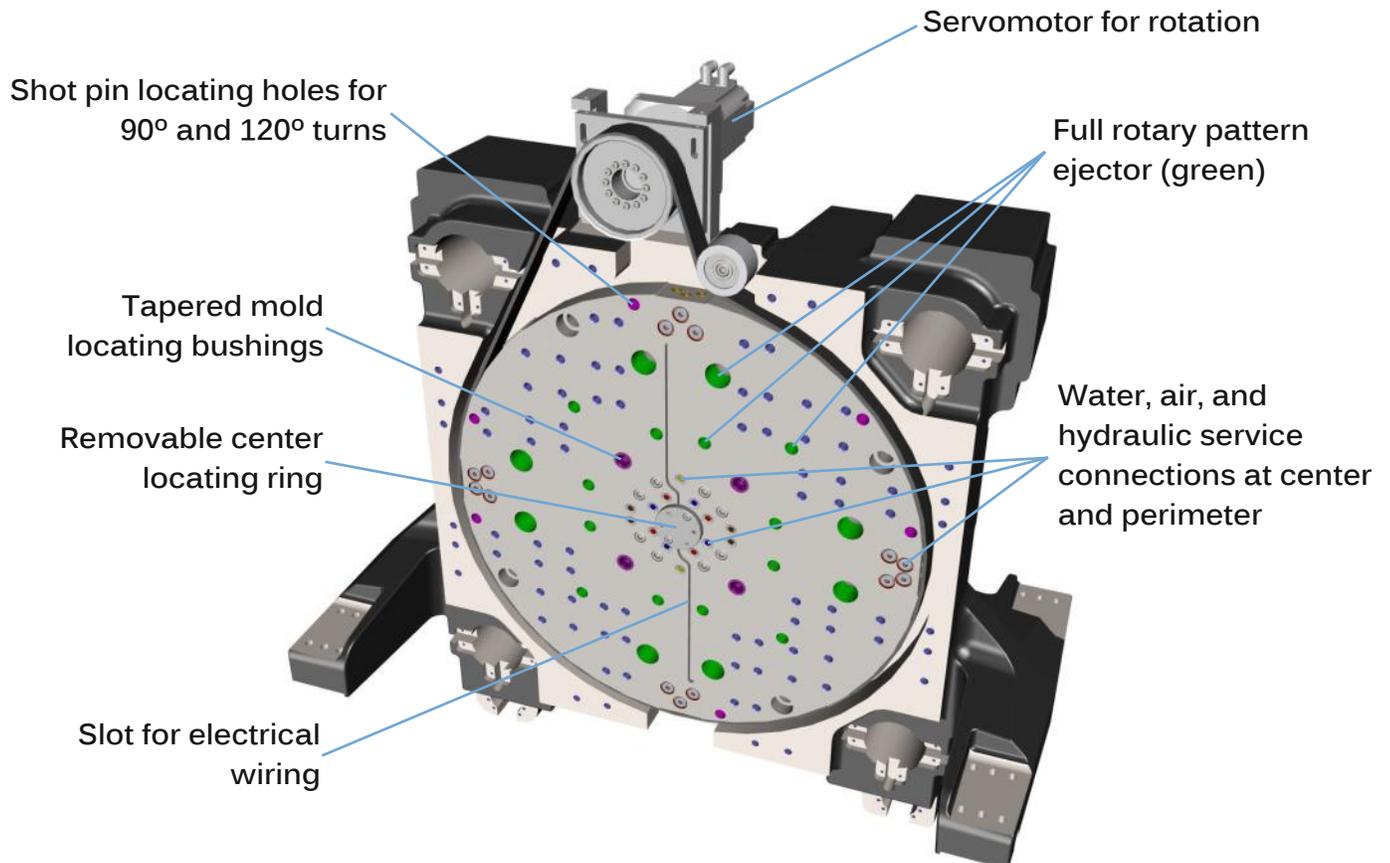
One of the options for customization of Athena's hybrid platform is the integrated rotary table. A prototype is being built and will be shown at the NPE 2015.

Key features:

- Integrated into the moving platen
- For conventional and rotary molds
- Mold services via stainless steel rotary union
- Choice of mold mounting and full ejector patterns

Specifications:

- Tie bar spacing: 825 × 825 mm (32.48 × 32.48 inches)
- 1030 mm (40.5 inch) table diameter
- 5 metric ton ejector force
- Mold weight capacity of 4000 kg (8800 lbs)
- 6-micron platen deflection with a full-weight, 690 mm (27 inch) tall mold
- 1 second for a 180 degree turn with 3000 kg (6600 lbs) mold

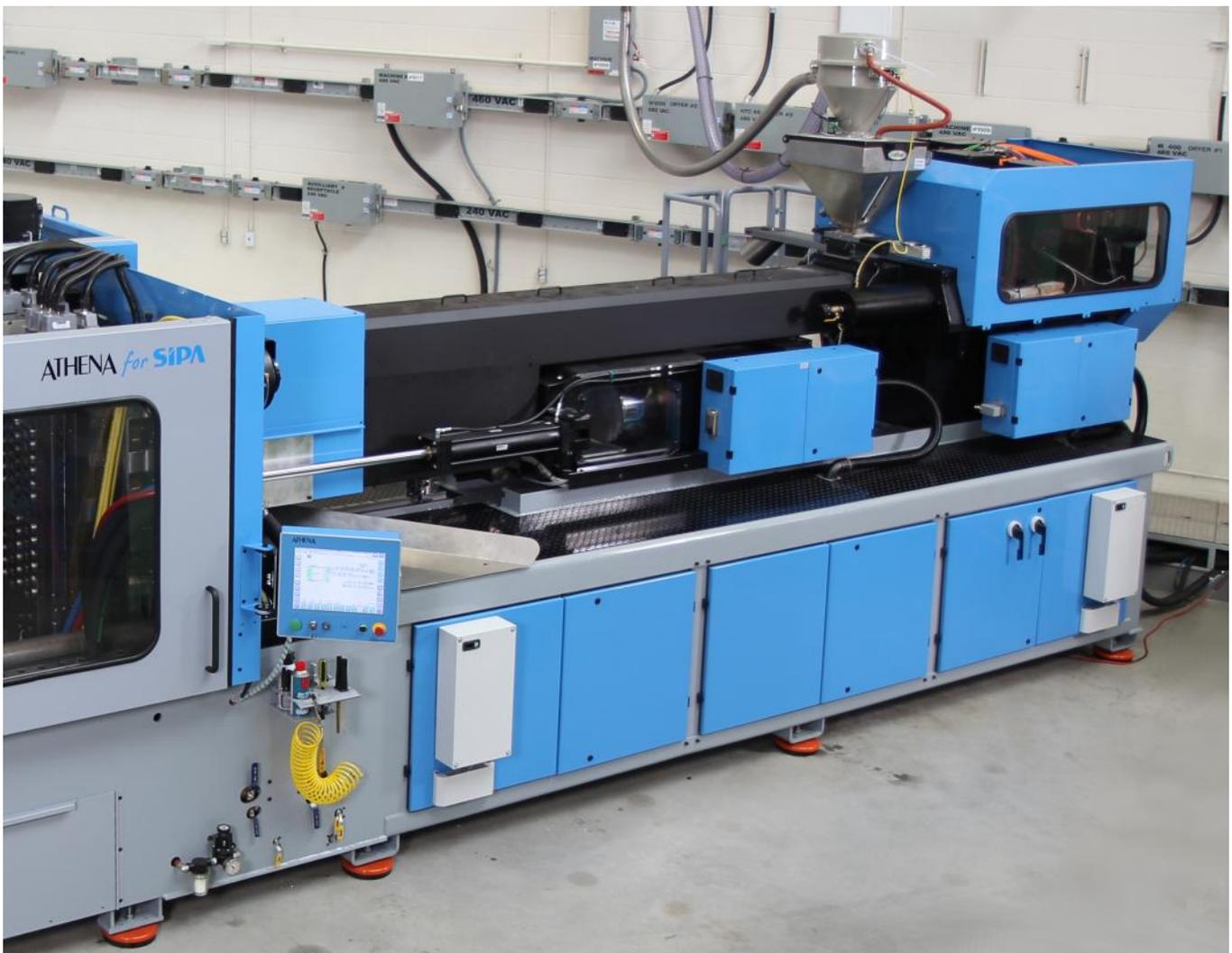


Two-Stage Injection Units

Earlier this year, Athena installed its first P120/E120 two-stage unit on an XFORM 300 preform machine. The plasticizing screw diameter may optionally be increased to 130 mm (E130).

Key features:

- Throughput of 1100 kg/h PET (E130) and 900 kg/h PET (E120)
- Optimized screw design for high-torque, low-shear plasticizing (lower AA values for PET)
- Twin servomotors for plasticizing screw
- No accumulators; no servo valves
- Quiet and efficient gearbox
- Patent-pending rotary transfer valve
- Injection heat and control cabinets mounted to injection unit
- Linear position sensor in shooting pot



E120/P120 injection on XFORM 300

Assembly and Shipping

In line with our vision of becoming a leader in customization, we are streamlining our current facility to reach a capacity of 4 to 6 machines per month in 2015. The new Systems Center (first page) will come on stream in early 2016 and significantly expand capacity.



Mold and machine testing



Machine assembly: Start-up area in foreground, sub-assembly areas in background

Contact

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