

DIAMOND Nova HRS

The cutting-edge hot runner technology for premium optical modules



DIAMOND Nova HRS: Lighting the Road Ahead

DIAMOND Nova HRS is the tailor made hot runner solution, specifically designed for optic lenses. It delivers **outstanding performance** when processing challenging polymers or operating under demanding conditions.



Key Benefits

- **Ideal to process the most sensitive clear resins**, ensuring the highest grade of accuracy.
- **Engineered to meet modern automotive needs** and support challenging production methods.
- **Delivers top-tier optical performance**, achieving the highest transparency and photometric standards.
- **Ensures consistent and efficient production** from start-up throughout the entire production shift.

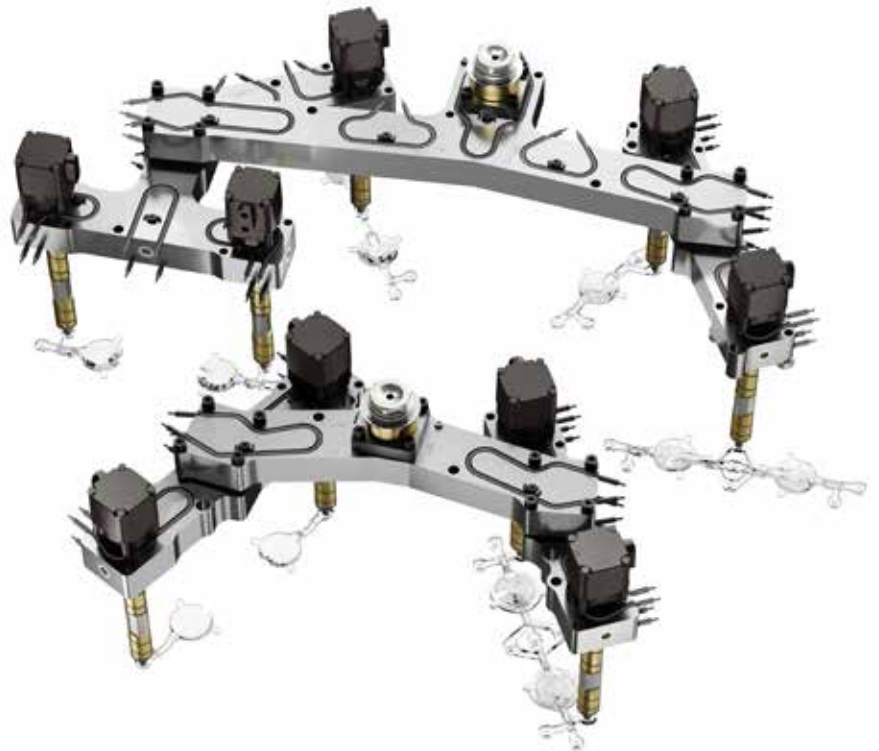


Fig.1 DIAMOND Nova HRS for optic lenses.

Hot Runner System – Technical Highlights

- **Specific design rules** tailored to accommodate unconventional process settings.
- **Dedicated flow bore geometries** to grant a superior resin management.
- **Wide configuration ranges** to support multiple application needs.
- **Fine-tuned thermal distribution** to enhance the polymer properties.

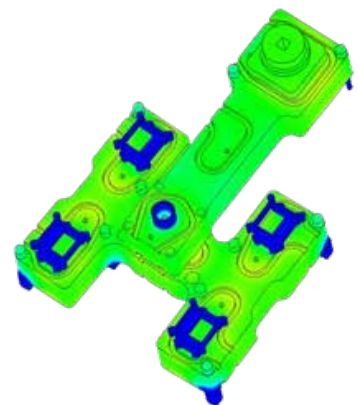


Fig. 2 Optimal thermal distribution ensures the right balance between polymer behavior and part quality.

>> Best Practice

Premium thick lens applications for next generation vehicles

HOT RUNNER SYSTEM FEATURES

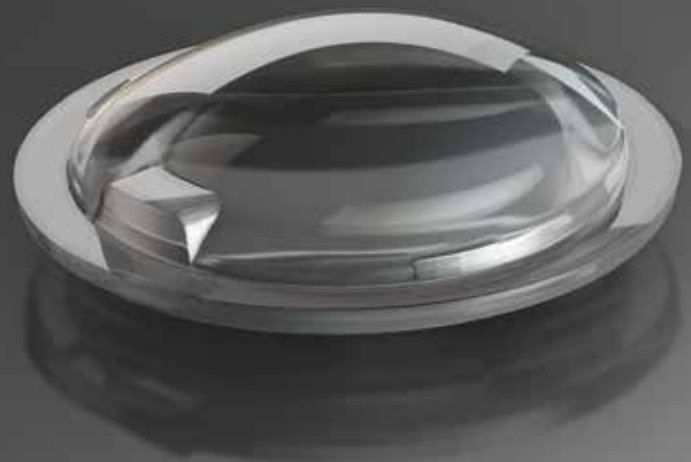
Polymer:	PMMA Plexiglas HT121
Hot runner system:	4 drops system Ma Series
Injection type:	Valve Gate
Cavity Qty:	4

PART DESCRIPTION

Part weight:	31 g
Part thickness:	19.6 mm

HIGHLIGHTS

- Multi-layer lens
- Perfectly balanced fill pattern
- Optimized material turnover
- Fine-tuned thermal management
- Dedicated geometries to fit polymer needs



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