iTherm®

Round Core Mould Insert

DATA SHEET

HTS

Round Core Mould Insert

01 Cooling Specification

DESIGN APPROACH

- Optimal cooling of overheated surfaces in the nozzle area.
- Homogeneous cooling of the working surface.
- Circular shape of cooling channels for maximum efficiency.

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THERMAL ANALYSIS AND SIMULATION

- Low standard deviation of the temperature field.
- Small pressure differences between the inlet and outlet of the cooling medium.
- High Reynolds number, high turbulence, optimal heat transfer.

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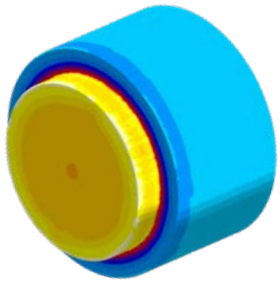
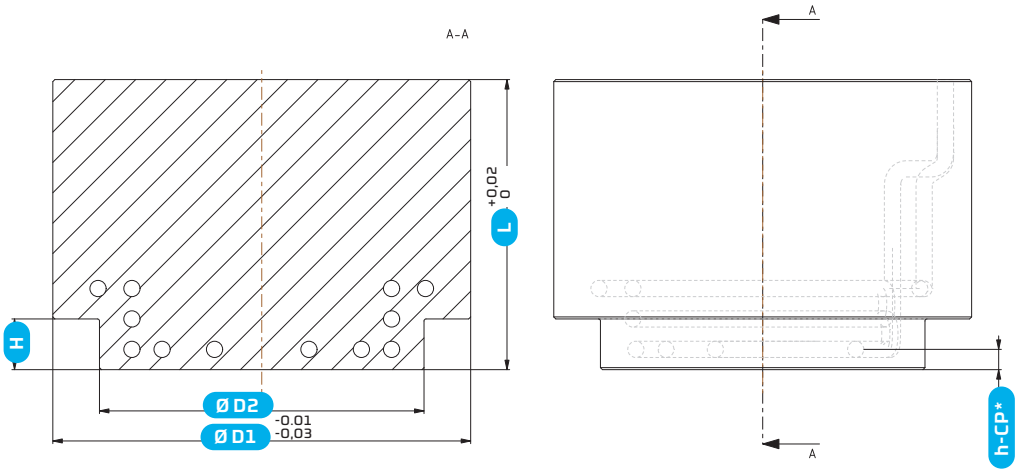
ROUND CORE MOULD INSERT



COOLING POWER OPTIONS

- 10 W/m²
- 15 W/m²
- 25 W/m²

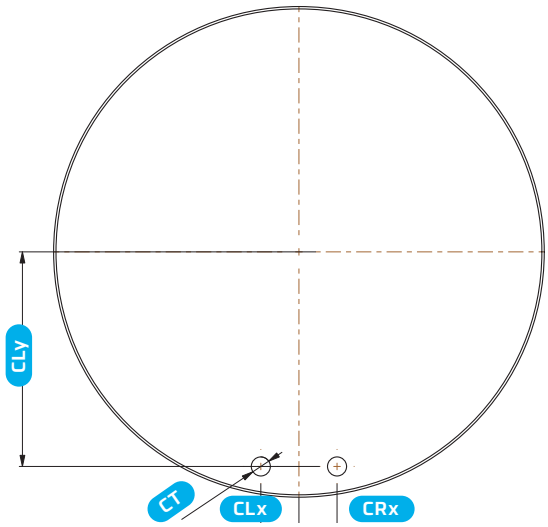
02 Dimensional parameters



*The dimension changes based on the cooling power input

Name	D1	D2	H	L range
20MIRC	55	48	5-45	50-100
22MIRC	58	52	5-45	50-120
26MIRC	65	56	5-45	50-120
32MIRC	70	62	5-45	60-120
38MIRC	79	68	5-45	60-120
44MIRC	84	74	5-45	60-120
50MIRC	92	80	5-45	60-120

03 Connection holes



Name	CLx	CRx	CLy	CT
20MIRC	0-24	0-24	0-24	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
22MIRC	0-26	0-26	0-26	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
26MIRC	0-29	0-29	0-29	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
32MIRC	0-32	0-32	0-32	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
38MIRC	0-36	0-36	0-36	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
44MIRC	0-39	0-39	0-39	1/16" NPT - 1/2"NPT or G1/16" - G1/2"
50MIRC	0-43	0-43	0-43	1/16" NPT - 1/2"NPT or G1/16" - G1/2"