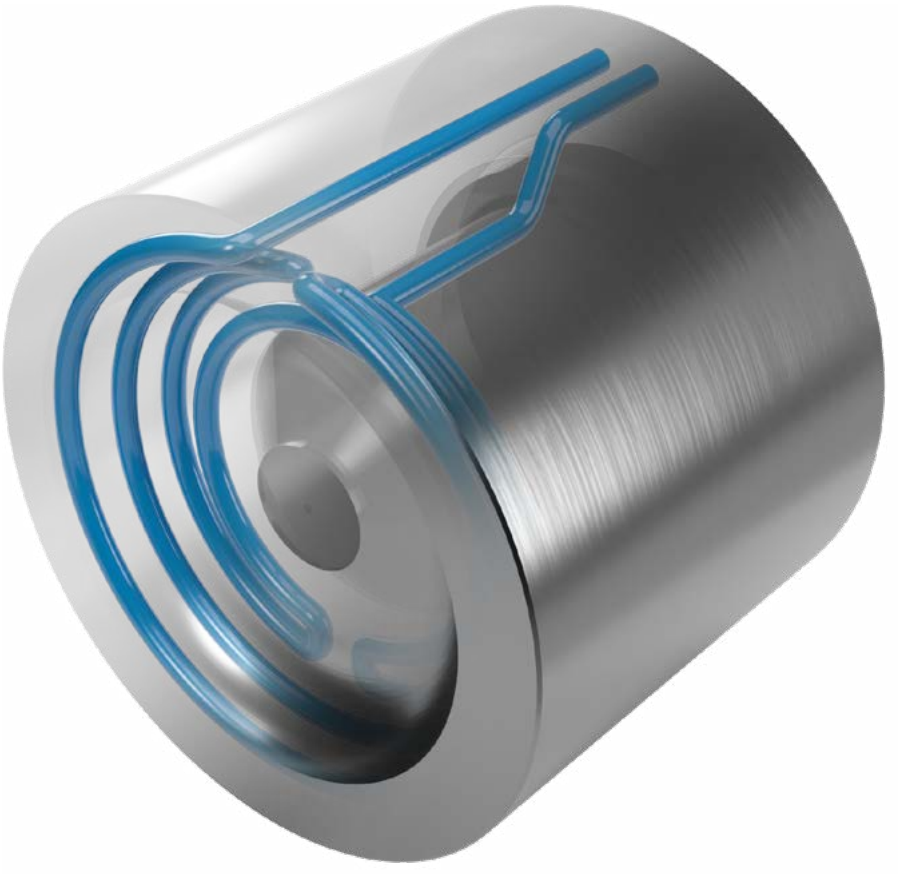
iTherm®

Cavity Mould Insert Individual



DATA SHEET

HTS

Cavity Mould Insert Individual

01 Cooling Power

DESIGN APPROACH

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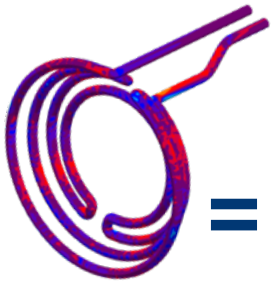
THERMAL ANALYSIS AND SIMULATION



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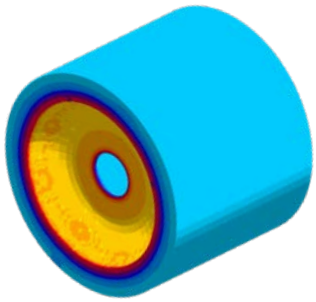
iTherm® CAVITY MOULD INSERT INDIVIDUAL



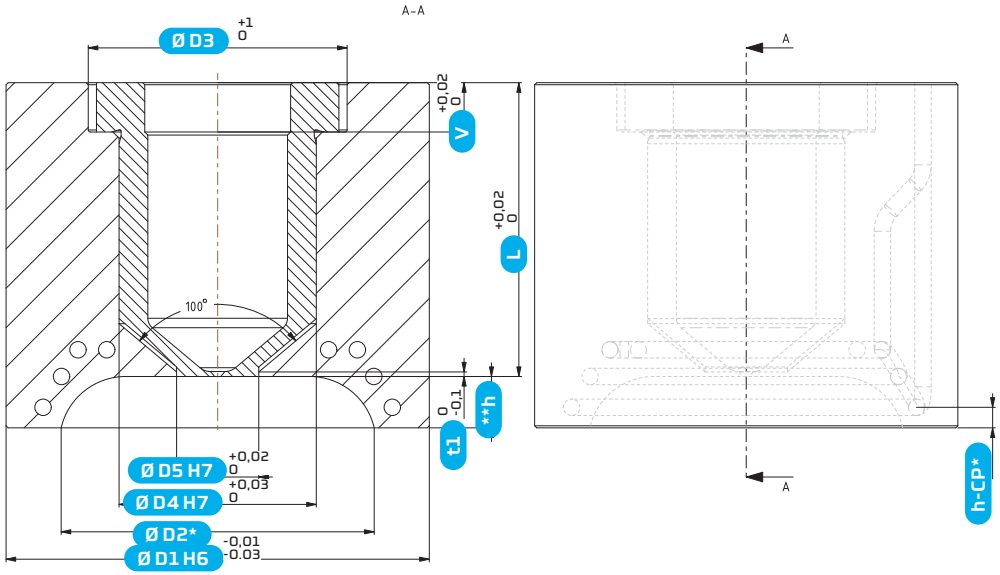
- Optimal cooling of overheated surfaces in the nozzle area.
- Homogeneous cooling of the working surface.
- Circular shape of cooling channels for maximum efficiency.

- 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.

COOLING POWER OPTIONS

- 10 W/m²
- 15 W/m²
- 25 W/m²

02 Dimensional parameters

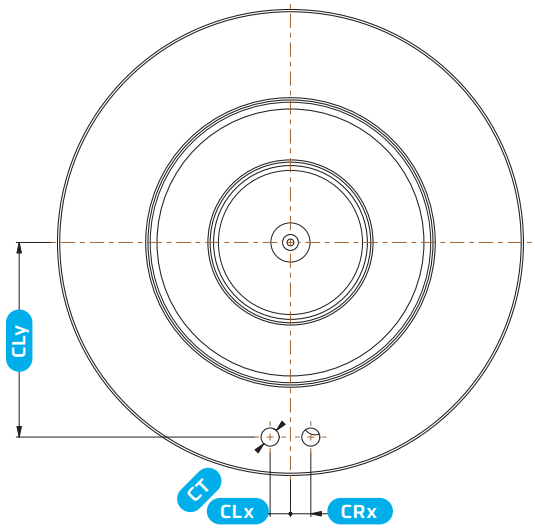


*The dimension changes based on the cooling power input

Name	D1	D3	D4	D5	v	t1	L range
20BI	55	35	28	16	5	2,3	50-100
22BI	58	38	32	16	5	2,3	50-120
26BI	65	45	36	16	5	2,3	50-120
32BI	70	50	42	20	9	3,3	60-120
38BI	79	59	48	26	12	4,3	60-120
44BI	84	64	54	32	12	5,3	60-120
50BI	92	72	60	38	12	6,3	60-120

*D2 up to customer preference
**h up to customer preferance

03 Connection holes



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