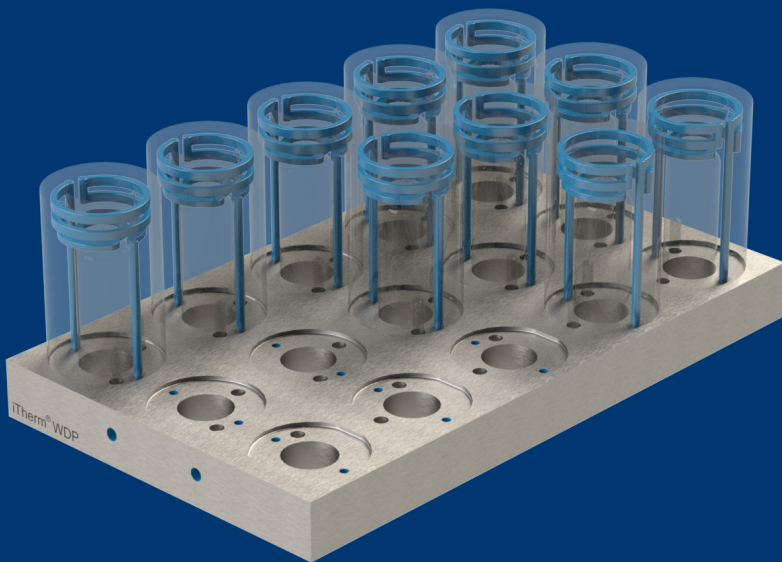




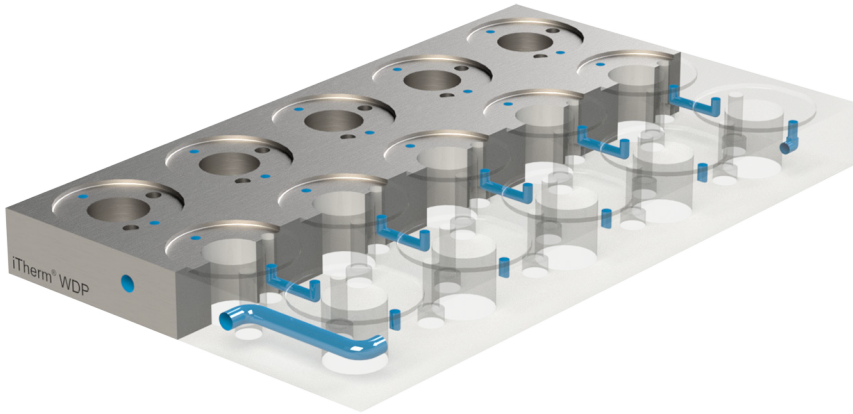
Products & Services > Injection  
moulding > iTherm® Water  
distribution plate

# DATA SHEET

## iTherm® Water distribution plate



## iTherm® Water distribution plate



### DESCRIPTION

iTherm® Water distribution plate is an effective way to supply a series of Individual Gate Inserts with cooling media.

### GENERAL PARAMETERS - PLATE GEOMETRY DEFINITION

iTherm® Water Distribution plate general parameters can be defined in 2 different ways:

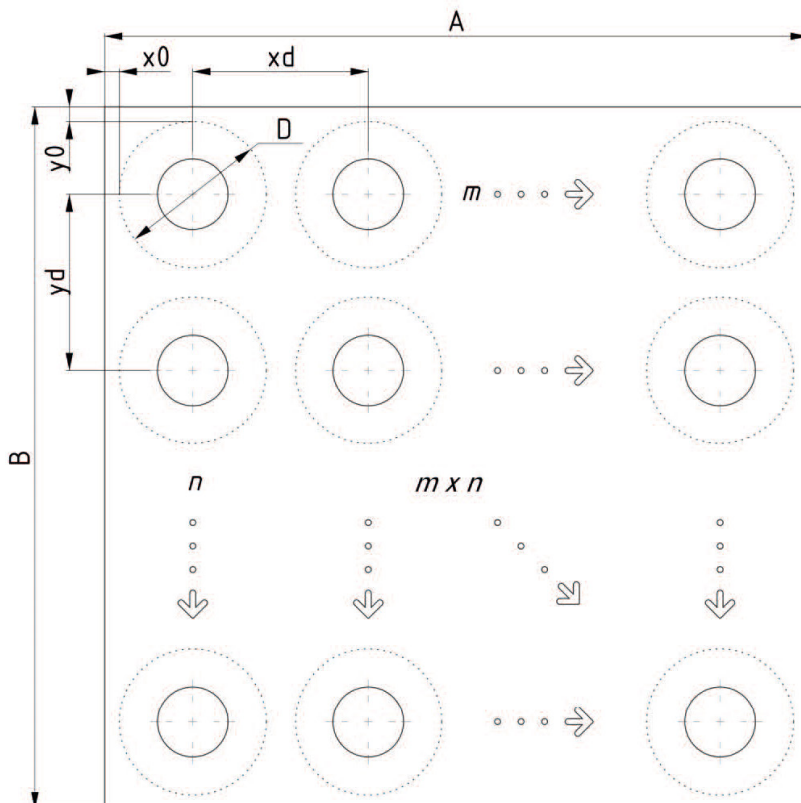
- **Geometry defined by equal spacing**
- **Geometry defined by coordinates**

## iTherm® Water distribution plate

### GEOMETRY DEFINED BY EQUAL SPACING

**Selection of Water Distribution plate/  
Equal spacing parameters is the following:**

- A, B and wt are general dimensions of plate. A and B are limited within D and 500mm. Plate thickness (wt) is available between 20 mm and 60 mm.
- nx, ny parameters define number of Individual Gate insert in direction X and Y. Number of Individual Gate inserts is limited on plate dimension, diameter of Individual Gate Insert and spacing
- xd and yd parameters are distance between next Individual Gate Inserts. Spacing must always be at least  $D + 2\text{mm}$ . Maximum available spacing is defined by number of Gate inserts in each direction and plate dimensions.
- x0 and y0 are distance from plate edge to edge of Individual Gate Insert. x0 and y0 are calculated based on plate dimension, D and spacing.



This figure explains above defined parameters

## iTherm® Water distribution plate

### GEOMETRY DEFINED BY COORDINATES

When option define geometry by defined coordinates is selected, customer first selects desired plate geometry. Then number of Individual Gate Inserts is selected (limited to 20) and definition of coordinates of each Individual Gate Insert is inserted. Along with selection of parameters an animation runs, to show exact location of each Individual Gate Insert.

### MATERIAL AND MATERIAL HARDNESS

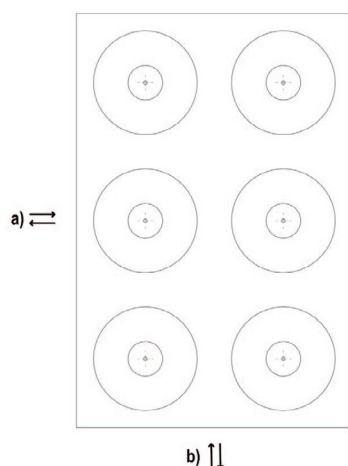
Selection of plate material and material hardness is possible.

Customer can choose between materials:  
Material hardness is available from 42 - 52 HRC.

### POSITION OF CONNECTORS

**Option a)** is placement of connectors on side that is defined by dimension B (definition of plate general parameters),

**Option b)** is placement of connectors on side that is defined by dimension A (definition of plate general parameters).

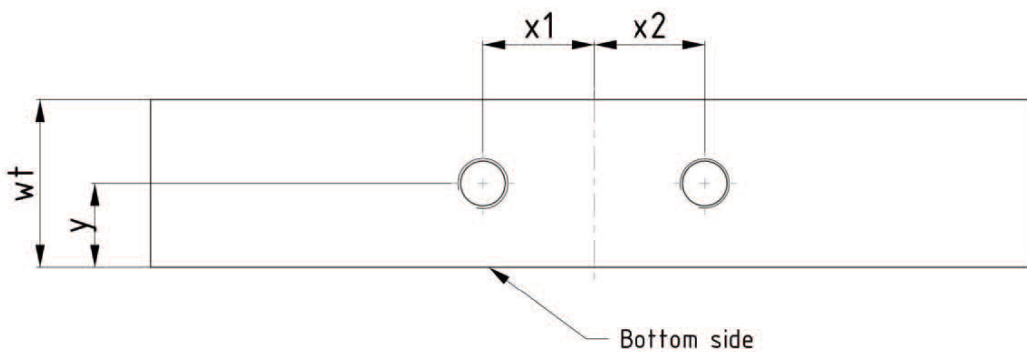


## iTherm® Water distribution plate

### POSITION OF CONNECTORS

Connector position is defined by three parameters, which varies from dimension of plate. Parameters are  $x_1$ ,  $x_2$  and  $y$ .  
Figure below shows how mentioned parameters are defined:

- $x_1$ ,  $x_2$  are limited by min 10 and max  $(A/2 - 10)$  or  $(B/2 - 10)$ , depending on chosen side of connectors
- $y$  is limited by  $wt$ . Its limits are min 10 and max  $(wt - 10)$ .



**iTherm® Water  
distribution plate**

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