Hotrunner Systems

for plastics injection moulding

Thermoplay is a global manufacturer in hotrunner technology. The range consists of more than 400 types of nozzles, over 80 standard manifolds, flow analysis, special custom designed projects, bi-injection, multi-materials and sequential injection using pneumatic or hydraulic valves also for gas filled products. We believe we can satisfy every constructive need for hotrunner moulds.

Thermoplay's hotrunner nozzles consist of two ranges, namely the 'DN' and 'F' series.

DN

The 'DN' series has its sealing surface on the shaft of the nozzle. This acts as a double seal; first the plastic is stopped physically by the sealing surface pressing up against the mould and the second is due to the sealed area being situated away from the heat, causing the molten plastic to freeze. If the molten plastic should pass the seal there is another sealed area around the nozzle head, reducing the possibility of molten plastic flooding into the manifold cavity. The DN series has a detachable tip manufactured from sintered metal. Available nozzle diameters are 18,22, 30 & 44mm.

F

The 'F' series has its sealing surface on the tip of the nozzle. These tips are easily removable for maintenance purposes. This series also has a unique heating system. The heating element has been enclosed in a brass sleeve to give even heating throughout the nozzle and minimise radiating heat into the mould. With this brass element it is also possible to have the cable exit in the middle of the nozzle shaft, making it possible to replace the tip and the heater without taking the mould out the machine. Available nozzle diameters are 11, 16, 24, 30 & 46mm.

The 'DN' and 'F' series of hotrunner nozzles have many different lengths, diameters and tip configurations to suit all applications. For single nozzle applications both series are fitted with a robust head that absorbs the shock loads and continues pressure from the injection unit. Contact us to discuss your requirements

Hotrunner Quotation Sheet

Contact details

Company Name: _____ Date: D D M M Y Y

Contact Person: _____ Tel: _____

Email: _____ Fax: _____

Address: _____

Part details

Part description: _____ Material: _____ Producer: _____

Melt Index: _____ Mould Temp C°: _____ Melt Temp C°: _____

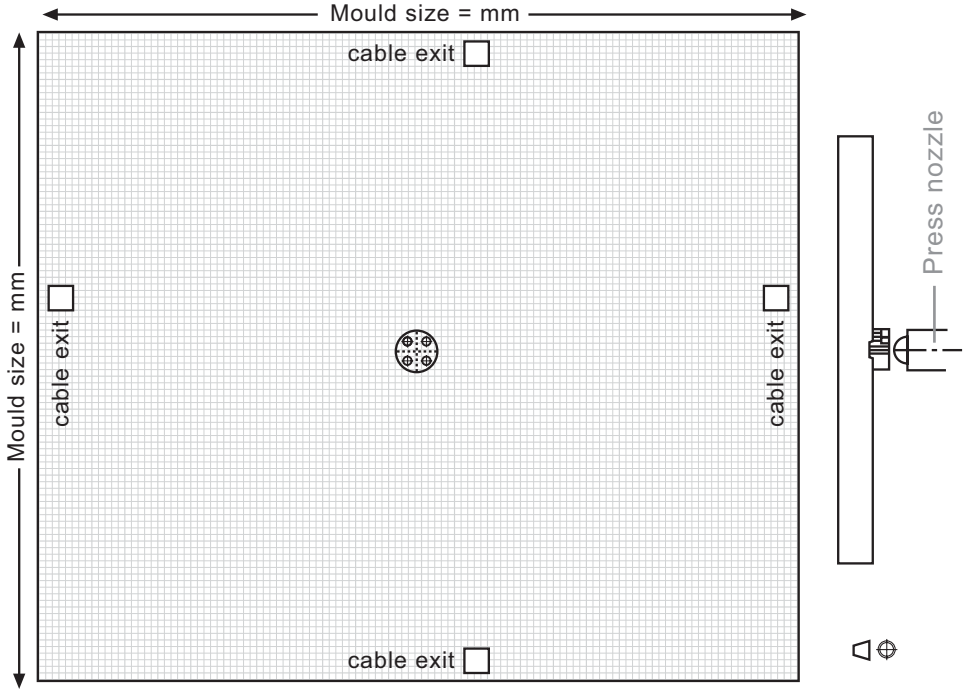
No of cavities: _____ No of nozzles: _____

Injected weight for each nozzle (g): _____ Average wall thickness (mm): _____

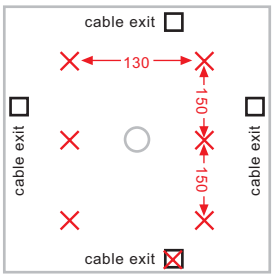
Colour change ☐ yes ☐ no Injection ☐ direct ☐ with sprue

Location of cavities

Top of the mould



Example for 6 drop manifold:



Note: the represented drawing is the view from injection bushing / nozzle press

Notes: _____

All these products are supplied by unitemp®

Contact us to request any additional information on these or any of our other product ranges, or to place an order.

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find more information here