



## 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, temperature controllers 1-128 zones, 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 'D' and 'F' series.



The "D" 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 "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.

The "D" 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:

Contact Person: \_\_\_\_\_ Tel: \_\_\_\_\_

Email: \_\_\_\_\_ Fax: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

### Part details

Part description: \_\_\_\_\_ Material: \_\_\_\_\_ Producer: \_\_\_\_\_

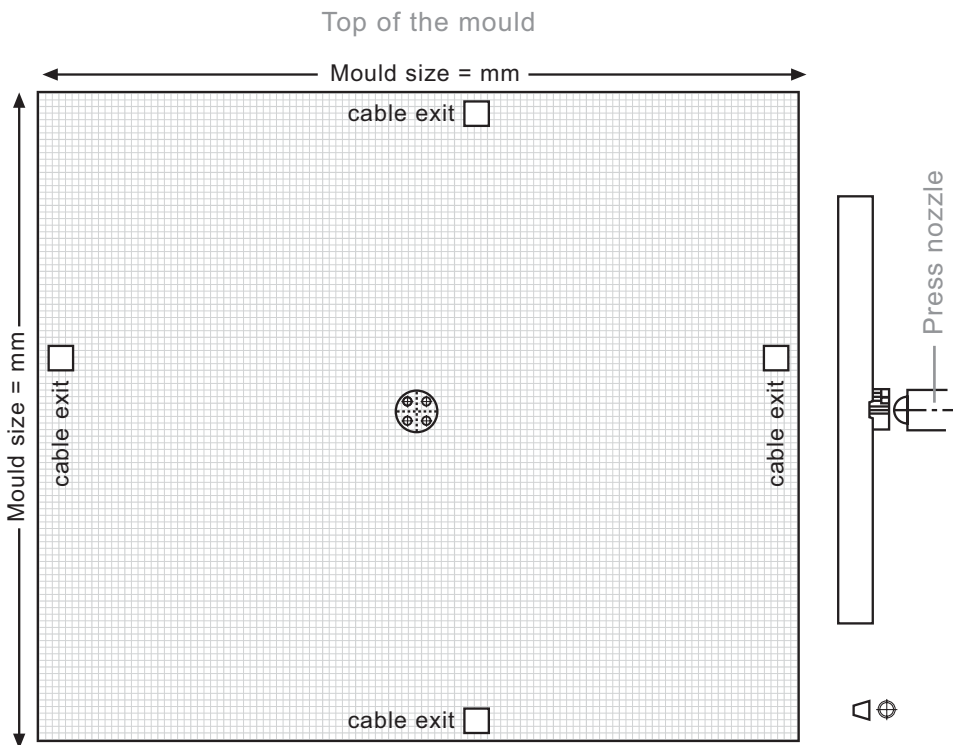
Melt Index: \_\_\_\_\_ Mould Temp C°: \_\_\_\_\_ Melt Temp C°: \_\_\_\_\_

No of cavities: \_\_\_\_\_ No of nozzles: \_\_\_\_\_

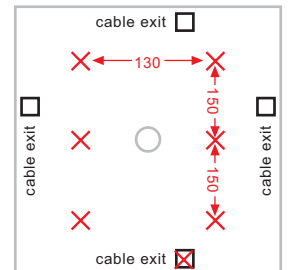
Injected weight for each nozzle (g): \_\_\_\_\_ Average wall thickness (mm): \_\_\_\_\_

Colour change  yes  no Injection  direct  with sprue

### Location of cavities



Example for 6 drop manifold:



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

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

unitemp reserves the right to make any kind of design or functional modification without prior notice.