



# THE BENCHMARK IN HOT RUNNER PERFORMANCE AND RELIABILITY.

Proven to deliver consistent high performance processing capabilities for exceptional part quality. Compatible with a wide range of resins, Master-Series is the ideal choice for almost any application across any industry.

## KEY FEATURES

### MASTER-SERIES NOZZLES

- Industries broadest nozzle range.
- Excellent thermal profile (10% Max Variation\*)
- Enhanced process repeatability.
- Scrap reduction.

### BRAZED HEATER TECHNOLOGY

- Superior thermal balance and reliability.
- Eliminate spare heater costs and minimize downtime.

### IFLOW MANIFOLD TECHNOLOGY

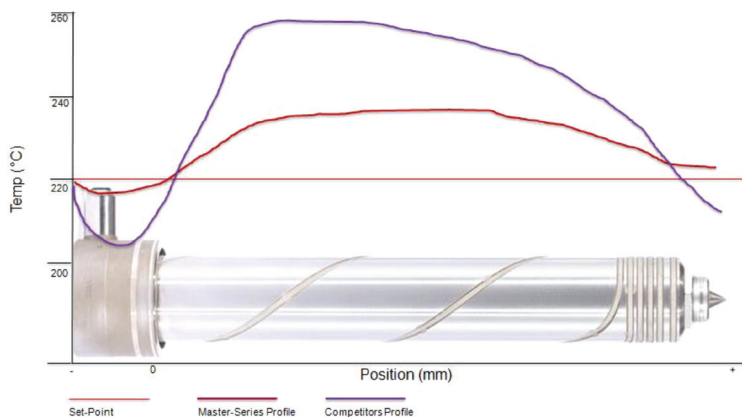
- 2pc brazed manifold design.
- Runners are carefully milled and polished.
- Eliminates sharp corners and dead spots.
- Industry leading mold balance.
- Rapid color change performance.

### ENERGY EFFICIENT

- Up to 27% (avg.) lower power consumption than competitive systems.

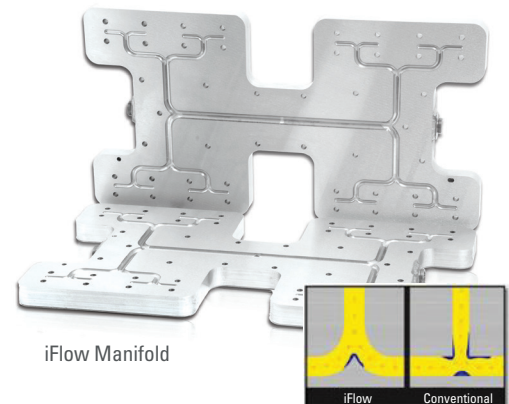
### QUICK AND EASY MAINTENANCE

- In-press service capabilities.



Master-Series excellent thermal profile.\*

\*Based on internal bench test results. Actual results may vary.



iFlow Manifold

iFlow Conventional

## SPECIFICATIONS

| NOZZLE RANGE      |                 | FEMTO-LITE | FEMTO     | PICO      | CENTI     | DECI      | HECTO       |
|-------------------|-----------------|------------|-----------|-----------|-----------|-----------|-------------|
| Shot Size* (g)    |                 | <1 – 5     | 5 – 10    | 10 – 20   | 15 – 50   | 50 – 500  | 500 – 3,500 |
| Runner<br>∅       | Non-Valved (mm) | 3.5        | 5         | 5         | 6         | 8         | 12          |
|                   | Valved (mm)     | 4          | 6         | 7         | 8         | 11        | 16          |
| Gate Sizes (mm)   |                 | 0.6 – 1.5  | 0.6 – 1.5 | 0.6 – 2.5 | 0.6 – 2.5 | 0.6 – 4.0 | 1.5 – 5.0   |
| Length Range (mm) |                 | 40 – 223   | 40 – 205  | 31 – 221  | 25 – 224  | 35 – 253  | 50 – 488    |

\*Application dependant

## AVAILABLE GATING STYLES

### VALVE GATING OPTIONS    THERMAL GATING OPTIONS

- Accu-Valve CX
- Accu-Valve MX
- Accu-Valve LX
- C-Valve
- Hot Valve
- E-Type Torpedo (+Extended)
- F-Type Torpedo
- C-Sprue
- Hot Sprue (+ Extended)

## ACTUATION OPTIONS

### STANDARD

- Hydraulic Cylinder
- Pneumatic Cylinder

### ADVANCED

- **SeVG+** (Sequential Electric Valve Gate)
- **Synchro Plate** (Electric/HY/PN)
- **SVG** (Sequential Valve Gate – HY/PN)



## ADVANCED MOLDING CAPABILITIES

Master-Series has the ability to do it all.

- High cavitation
- Tight pitch
- Inside gating
- Side gating
- Multi-tip
- Stack molds
- Multi-material



## TempMaster™ series

To ensure your mold operates at peak performance and delivers ultimate process control, Mold-Masters recommends using TempMaster controllers with all Master-Series Hot Runner systems. Unlock your operations full potential with TempMaster.