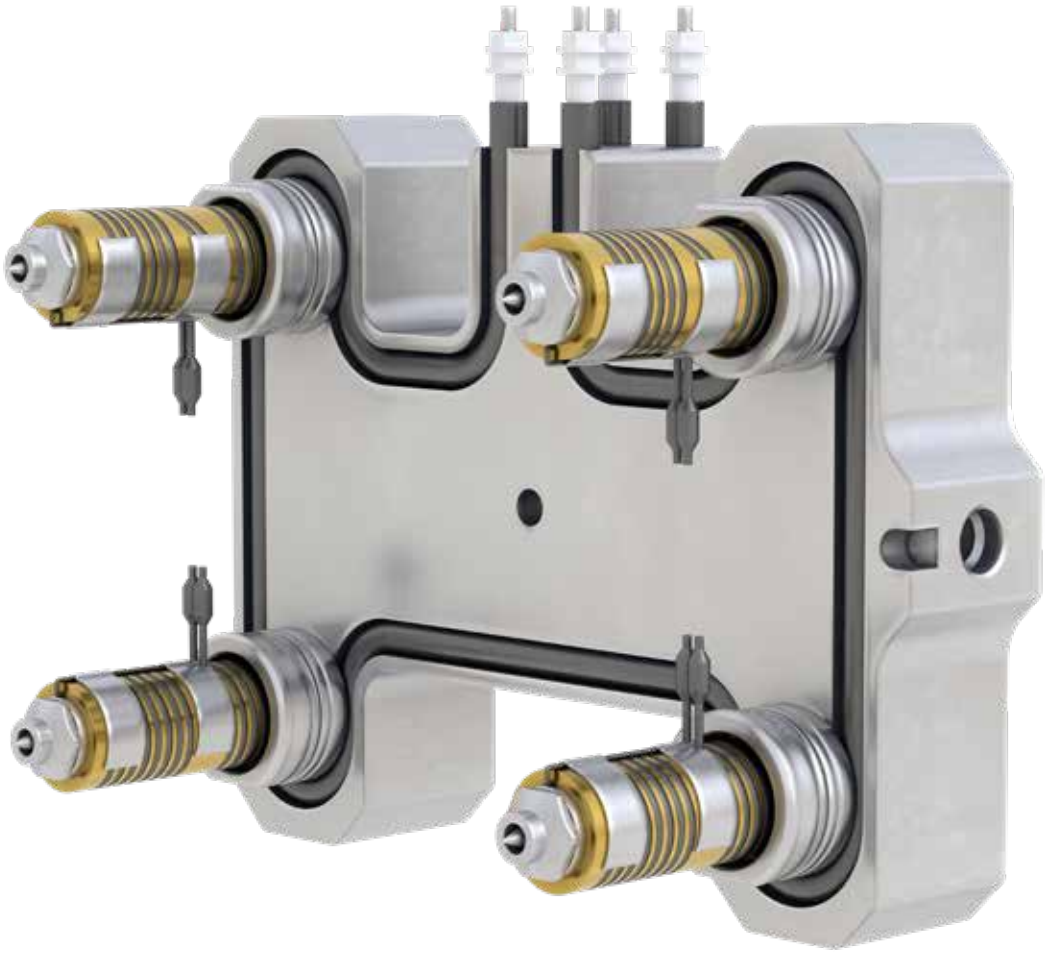


EcoONE series

CONFIGURATION GUIDE

A HIGHLY ECONOMICAL STANDARDIZED SYSTEM FOR SIMPLE COMMODITY APPLICATIONS

EcoONE series

DME

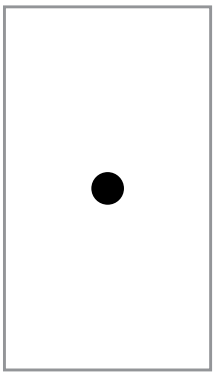
CONFIGURATION GUIDE

COMPATIBLE MATERIALS*		
ABS	PE	PP
PS	TPE	TPO

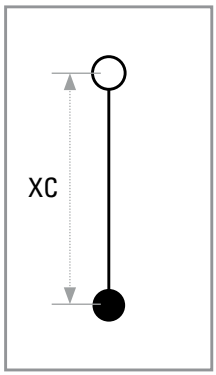
*Fillers/additives not permitted

STEP 1: CHOOSE YOUR MANIFOLD LAYOUT

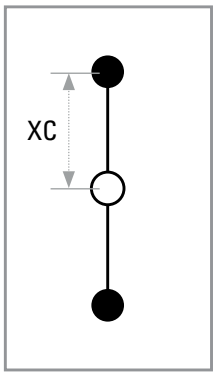
1-Drop



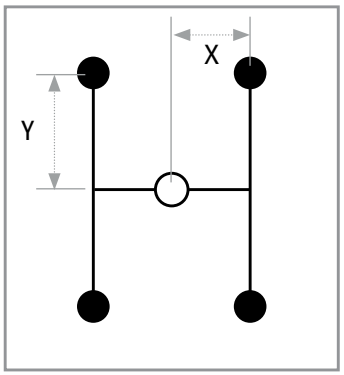
1-Drop Offset



2-Drop Inline



4-Drop H

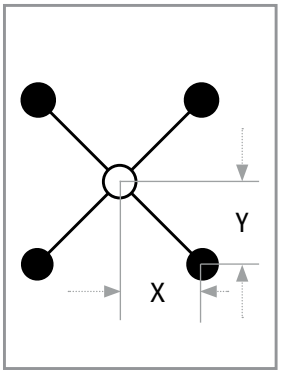


Single Level Only,
Gun-Drilled,
Pressed-in Heater

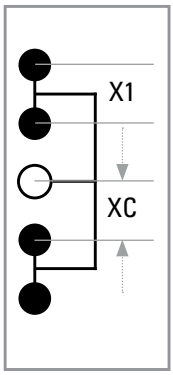
ManifoldThickness:
40-60mm

NOTE: Maximum manifold block size is 600mm x 600mm (24"x24").

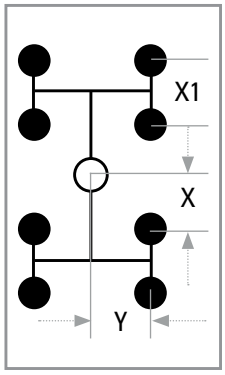
4-Drop X



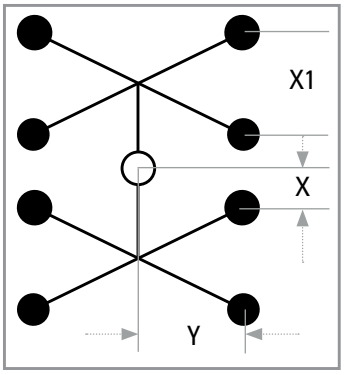
4-Drop Inline



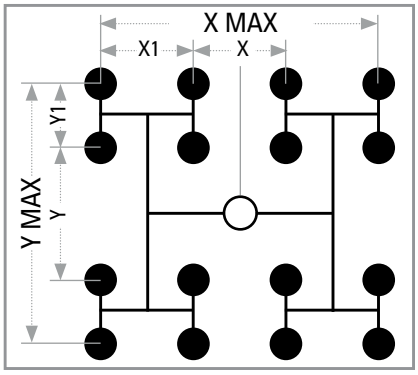
8-Drop HH



8-Drop XX



16-Drop HH



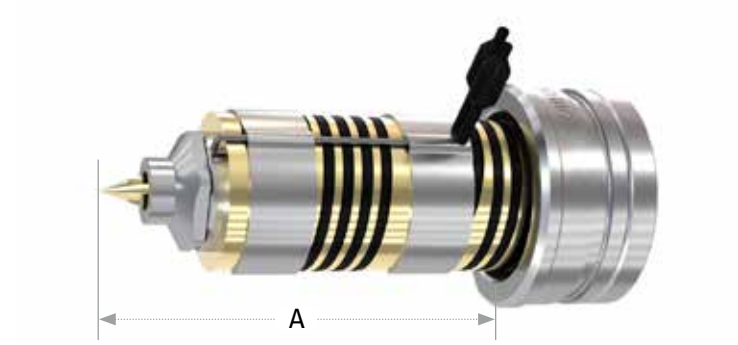
Manifold Layout Dimensions

NOZZLE SERIES	THERMAL GATE (mm)								VALVE GATE (mm)							
	XC MIN*	X MIN	X MAX	X1 MIN	Y MIN	Y MAX	Y1 MIN	ØD MIN	XC MIN*	X MIN	X MAX	X1 MIN	Y MIN	Y MAX	Y1 MIN	ØD MIN
04	30	20	538	28	20	538	28	56.6	-	-	-	-	-	-	-	-
06	35	24	538	38	24	538	38	67.9	65	45	538	54	45	538	72	127.3
08	35	25	538	42	25	538	42	70.7	75	45	538	61	50	538	82	134.5
10	40	26	534	44	26	534	44	73.5	80	50	534	70	56	534	94	150.1
12	40	26	516	44	26	516	44	73.5	88	54	516	86	66	516	112	170.6
16	45	28	500	50	28	500	50	79.2	98	64	500	104	73	500	130	194.2

STEP 2: CHOOSE YOUR NOZZLE SIZE & LENGTH

NOZZLE RANGE		04	06	08	10	12	16
Shot size* (g)		<10	<50	<150	<400	<1,000	<1,500
Runner ø	Non-Valved (mm)	4	6	8	10	12	16
	Valved (mm)	-	6	8	10	12	16
Pitch (Min)	Non-Valved (mm)	28	38	42	44	44	50
	Valved (mm)	-	54	61	70	86	104
Nozzle Bore ø (mm)		18	28	30	34	36	42
Length Range[1] (mm)		50 – 140	60 – 160	60 – 180	50 – 160	50 – 200	70 – 300

*Application dependent.



NOZZLE SERIES	LENGTH (A DIMENSION)	NOZZLE BODY #	HEATER #	WATTAGE @ 230V
04	50	SONB4050	SONH10047	200
	70	SONB4070	SONH10067	200
	80	SONB4080	SONH10077	240
	100	SONB4100	SONH10097	240
	120	SONB4120	SONH10117	240
	140	SONB4140	SONH10137	300
06	60	SONB6060	SONH18055	350
	70	SONB6070	SONH18065	400
	80	SONB6080	SONH18075	400
	90	SONB6090	SONH18085	400
	100	SONB6100	SONH18095	400
	140	SONB6140	SONH18135	600
	160	SONB6160	SONH18155	600
08	60	SONB8060	SONH20055	350
	80	SONB8080	SONH20075	400
	100	SONB8100	SONH20095	500
	120	SONB8120	SONH20115	500
	180	SONB8180	SONH20175	700

NOZZLE SERIES	LENGTH (A DIMENSION)	NOZZLE BODY #	HEATER #	WATTAGE @ 230V
10	50	SONB10050	SONH22045	350
	70	SONB10070	SONH22065	400
	90	SONB10090	SONH22085	500
	100	SONB10100	SONH22095	500
	120	SONB10120	SONH22115	600
	160	SONB10160	SONH22155	700
12	50	SONB12050	SONH24043	280
	70	SONB12070	SONH24063	450
	90	SONB12090	SONH24083	525
	110	SONB12110	SONH24103	600
	140	SONB12140	SONH24133	660
	160	SONB12160	SONH24153	660
	200	SONB12200	SONH24193	800
16	70	SONB16070	SONH28062	450
	100	SONB16100	SONH28092	600
	120	SONB16120	SONH28112	660
	140	SONB16140	SONH28132	660
	200	SONB16200	SONH28192	900
	260	SONB16260	SONH28252	1000
	300	SONB16300	SONH28292	1000

STEP 3: CHOOSE YOUR GATE SEAL

Non-Valved

	POINT GATE BODILESS	POINT GATE FULL BODY	POINT GATE FULL BODY EXT.	SPRUE GATE	SPRUE GATE EXT.
04	SOPGA04 SOPGA04-WR	SOFBOP04 SOFBOP04-WR	SOFBOP04EX SOFBOP04EX-WR	SOSRT0401	SOSRT0402
06	SOPGA06 SOPGA06-WR	SOFBOP06 SOFBOP06-WR	SOFBOP06EX SOFBOP06EX-WR	SOSRT0601	SOSRT0602
08	SOPGA08 SOPGA08-WR	SOFBOP08 SOFBOP08-WR	SOFBOP08EX SOFBOP08EX-WR	SOSRT0801	SOSRT0802
10	SOPGA10 SOPGA10-WR	SOFBOP10 SOFBOP10-WR	SOFBOP10EX SOFBOP10EX-WR	SOSRT1001	SOSRT1002
12	SOPGA12 SOPGA12-WR	SOFBOP12 SOFBOP12-WR	SOFBOP12EX SOFBOP12EX-WR	SOSRT1201	SOSRT1202
16	SOPGA16 SOPGA16-WR	SOFBOP16 SOFBOP16-WR	SOFBOP16EX SOFBOP16EX-WR	SOSRT1601	SOSRT1602

WR = Wear Resistant

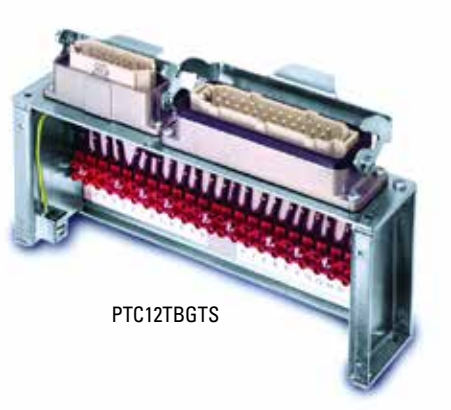
Valved

	BODILESS TIP	FULL BODY TIP	FULL BODY TIP EXT.	SPRUE TIP	SPRUE TIP EXT.
06	SOVGBA06 SOVGBA06-WR	SOVGFBA06 SOVGFBA06-WR	SOVGFBA06EX SOVGFBA06EX-WR	SOSRT0603	SOSRT0604
08	SOVGBA08 SOVGBA08-WR	SOVGFBA08 SOVGFBA08-WR	SOVGFBA08EX SOVGFBA08EX-WR	SOSRT0803	SOSRT0804
10	SOVGBA10 SOVGBA10-WR	SOVGFBA10 SOVGFBA10-WR	SOVGFBA10EX SOVGFBA10EX-WR	SOSRT1003	SOSRT1004
12	SOVGBA12 SOVGBA12-WR	SOVGFBA12 SOVGFBA12-WR	SOVGFBA12EX SOVGFBA12EX-WR	SOSRT1203	SOSRT1204
16	SOVGBA16 SOVGBA16-WR	SOVGFBA16 SOVGFBA16-WR	SOVGFBA16EX SOVGFBA16EX-WR	SOSRT1603	SOSRT1604

WR = Wear Resistant

STEP 4: CHOOSE YOUR ELECTRICAL PLUGS

DEFAULT
DME Standard Connectors
- PTC12TBGTS
- Includes complete E-Box assembly



PTC12TBGTS

OPTIONAL
24-Pin Male Connector HBE-24 (TC/Power)
- Part No: PIC012
- Double Latch
- Compatible with E-Box MTC12TBG (single) or PTC012TB (double)
- Mounting hardware not included

24-Pin Female Connector HBE-24 (TC Only)
- Part No: MTC012
- Double Latch
- Compatible with E-Box MTC12TBG (single) or PTC012TB (double)
- Mounting hardware not included

STEP 5: CHOOSE YOUR OPTIONAL COMPONENTS & SERVICES (NOT MANDATORY)

- Locating ring
- Drool ring
- Application review
- Installation support

STEP 6: CHOOSE YOUR CONTROLLER

SMART SERIES® Me

OUR SIMPLEST AND MOST ECONOMICAL HOT RUNNER TEMPERATURE CONTROLLER

Our Smart Series Me controller platform combines essential features with advanced APS Technology for precision hot runner temperature control. Powerful performance from a compact unit that helps improve part quality and minimize scrap.

- Intuitive Color Touch Screen Display
- Integrated 15-Amp Control Cards
- Compact, Stackable Cabinet Design
- Available in 6 or 12 zone configurations.
- 2-Year Comprehensive Warranty

Polymer Viscosity Key
L=Low
M=Medium
H=High

The values expressed in grams are for reference only and are determined by using a nominal wall thickness of 1.8mm (.070") and unfilled polypropylene. Part dimension, wall thickness, length of fill within part, mold conditions and molding parameters must also be considered.

EcoONE-Series Gate Selection Guide

JULY 2024

NOZZLES	TIP	Recommended Gate Diameter Range				Flow Capacity (Grams) Viscosity			GENERIC PLOYMER NAME (TRADE NAME) [A=AMORPHOUS or C=CRYSTALLINE] COMMODITY RESINS					
									TPE (Elastomer) [A]	PE (Polyethylene) [C] Includes LDPE, HDPE, LLDPE & MDPE	PS (Polystyrene) [A]	TPO [C]	PP (Polypropylene) [C]	ABS [A]
		Min (mm)	Max (mm)	Min (inch)	Max (inch)	Low	Medium	High	L	L	M	L	M	M
EcoONE-04 Thermal Gate	Sprue Tip	1.5	2.0	0.061	0.079	20	15	10						
	Point Gate Bodiless	0.8	1.5	0.033	0.059	10	10	7						
	Point Gate Full Body	1.0	1.5	0.041	0.059	10	10	7						
EcoONE-06 Thermal Gate	Sprue Tip	1.5	3.0	0.061	0.118	500	400	225						
	Point Gate Bodiless	0.8	2.0	0.033	0.079	175	125	80						
	Point Gate Full Body	1.0	2.0	0.041	0.079	175	125	80						
EcoONE-08 Thermal Gate	Sprue Tip	2.5	3.0	0.102	0.118	625	575	325						
	Point Gate Bodiless	0.8	2.5	0.033	0.098	250	175	125						
	Point Gate Full Body	1.5	2.5	0.061	0.098	250	175	125						
EcoONE-10 Thermal Gate	Sprue Tip	2.5	3.5	0.102	0.138	850	700	425						
	Point Gate Bodiless	1.0	3.0	0.041	0.118	310	200	150						
	Point Gate Full Body	1.5	3.0	0.061	0.118	310	200	150						
EcoONE-12 Thermal Gate	Sprue Tip	3.0	4.0	0.122	0.157	1000	775	475						
	Point Gate Bodiless	1.0	3.2	0.041	0.126	500	375	275						
	Point Gate Full Body	2.0	3.2	0.082	0.126	500	375	275						
EcoONE-16 Thermal Gate	Sprue Tip	3.0	4.5	0.122	0.177	1500	1100	750						
	Point Gate Bodiless	1.5	3.5	0.061	0.138	800	550	400						
	Point Gate Full Body	2.5	3.5	0.102	0.138	800	550	400						
EcoONE-06 Valve Gate	Sprue Tip	1.5	2.5	0.061	0.098	400	300	150						
	Point Tip Bodiless	1.0	2.5	0.041	0.098	225	150	90						
	Point Tip Full Body	1.5	2.5	0.061	0.098	225	150	90						
EcoONE-08 Valve Gate	Sprue Tip	2.5	2.5	0.102	0.098	500	450	250						
	Point Tip Bodiless	1.0	2.5	0.041	0.098	450	300	220						
	Point Tip Full Body	2.5	2.5	0.102	0.098	450	300	220						
EcoONE-10 Valve Gate	Sprue Tip	2.5	2.5	0.102	0.098	775	625	375						
	Point Tip Bodiless	1.0	2.5	0.041	0.098	610	460	280						
	Point Tip Full Body	2.5	2.5	0.102	0.098	610	460	280						
EcoONE-12 Valve Gate	Sprue Tip	4.0	4.5	0.163	0.177	900	725	425						
	Point Tip Bodiless	1.5	4.5	0.061	0.177	725	525	315						
	Point Tip Full Body	4.0	4.5	0.163	0.177	725	525	315						
EcoONE-16 Valve Gate	Sprue Tip	5.0	6.0	0.204	0.236	1200	950	600						
	Point Tip Bodiless	2.0	6.0	0.082	0.236	940	640	475						
	Point Tip Full Body	5.0	6.0	0.204	0.236	940	640	475						

Email completed form to:
EcoONEQuote@DME.net

EcoONE series

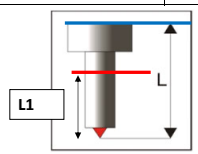
REV-10.10.24

CUSTOMER DETAILS :

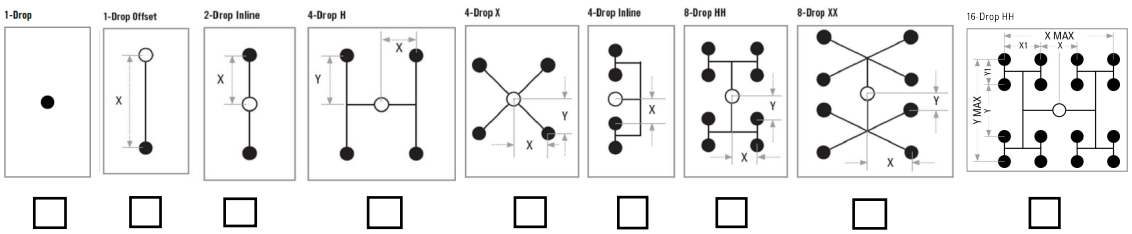
Customer Name:		System Delivery Time :	
Customer ID:		End User :	
Contact person Name :		Molder :	
Contact mail ID :		Drawings Email ID :	
Telephone :		Sales Engineer :	

TECHNICAL DETAILS :

Part Name :		No of cavities:	
Plastic Material :		No of Drops :	
Material Grade :		Gate wall thickness :	
Part weight :		Cold runner weight :	

INDUSTRY	GATE DETAILS	LAYOUT	NOZZLE DETAILS	HOT RUNNER DETAILS
Auto : ☐	Sub Runner: ☐	1-INLINE ☐		Maximum shut height :
Technical : ☐	Tip Gate : ☐	2-INLINE ☐		Inlet radius :
Home : ☐	Sprue Gate : ☐	4-INLINE ☐		Power connectors :
Electrical : ☐	Valve gate : ☐	4-H ☐		Thermocouple connectors :
Packaging: ☐	Gate mark allowed : ☐	4-X ☐		Electrical box :
Medical : ☐	Gate cooling Good : ☐	8-HH ☐		Colour change required :
Teletronics: ☐		8-XX ☐		Controller required :
Others : ☐		16-HH ☐	Nozzle code :	Process temp :
VALVE ACTUATION			Nozzle length :	Mold temp :
Hydraulic : (700 psi Max)		☐	Nozzle L1-Molding elevation :	
Pneumatic :		☐		

DROP LOCATION :



☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

DATA REQUIRED FROM CUSTOMER :

Customer 3D	☐	
Customer 2D	☐	
Material Data sheet	☐	

LAYOUT :

X VALUE :
Y VALUE :

OPTIONS :

☐ ELECRICAL BOX ASSEMBLY P/N PTC12TBGTS	Included
☐ THERMAL GATE LOCATING RING P/N: GLLU-0102	$133.00
☐ THERMAL GATE DROOL RING P/N : GMENDR-076-15	$50.00
☐ VALVE GATE (06, 08, 10) LOCATING RING P/N : SOHMLR1001	$133.00
☐ VALVE GATE (12 & 16) LOCATING RING P/N : SOHMLR1002	$133.00
☐ APPLICATION REVIEW/CUST SELECTION VERIFY P/N: ECOONE-REVIEW	$300.00
☐ TEMPERATURE CONTROLLER P/N :	Me12-15ss / Me12EU-D
☐ MOLD POWER CABLE	MPC12C10G OR MPC12C20G
☐ MOLD THERMOCOUPLE CABLE	TC12C10G OR TC12C20G

SPECIAL NOTES :

DME HOT RUNNER SERVICE CENTER

DME CAN SERVICE AND MAINTAIN ANY HOT RUNNER SYSTEM

In the event of a catastrophe...

Time is money. When a critical tool is out of commission, productivity is lost and production quotas can't be met. DME takes your critical situation very seriously, and our dedicated team of hot runner technical specialists are always available to get you producing parts again. Our bake-out oven and all necessary equipment is in the service center. All flood repairs are expedited, turnaround time for repairs will vary depending on the availability of replacement parts.

Typical service includes:

- Complete bake-out cleaning (manifold and plates)
- Check and replace heaters and thermocouples
- Inspect and correct wiring & connectors, replace as necessary
- Replace seals, bushings and other wear items
- Clean or replace nozzle components
- Check and validate all dimensions through assembly
- Complete power test

A Dedicated Center for Hot Runner Systems

Located in Madison Heights, Michigan, exclusively dedicated to supporting most manufacturers' hot runner systems. Staffed by a team whose sole focus is hot runner, DME can quickly get your system back into production. Our team has over three decades of experience installing, assembling and repairing hot runner systems, and we will ensure your system will be back in your shop as quickly and cost effectively as possible.

DME's hot runner service center also offers non-emergency service, such as:

Preventative Maintenance

- Replace worn components before they fail
- Maximize system performance
- Ensures peak part quality
- Decrease system downtime
- Protects your investment (greater ROI)

Complete Refurbishment

- Cost reduced 40% compared to new
- Extend the life of the tool
- Maximize system uptime and performance
- Increase system ROI

Contact DME_Tech_Service@DME.net to discuss your repair and maintenance needs today!

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Madison Heights, MI 48071
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248-398-6000 *tel*
www.DME.net *web*
DME@DME.net e-mail

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