



HIGH MELT RATE ELECTRIC FURNACES FOR STRUCTURAL DIE CASTING

Model DC-1000 melts 1,000 lbs/hour
Model DC-1250S melts 1,250 lbs/hour
Both furnaces melt right at the die casting machine
to replace energy-wasting central melting!



WORLD'S LARGEST ELECTRIC RESISTANCE CRUCIBLE-TYPE ALUMINUM MELTING FURNACES WITH CAPACITY MORE THAN TWO TONS

- **HUGE ENERGY SAVINGS**

Melting at the machine eliminates energy-wasting central melters, harsh super-heating, molten metal delivery ladles, launder systems, and holding furnaces.

- **CLEAN METAL, STRONGER CASTINGS**

Electrically melted metal typically yields castings with 20% better mechanical properties due to the elimination of water vapor from the products of combustion in gas-fired furnaces. Water vapor contaminates aluminum by forming oxide (hard spots) and hydrogen porosity, both of which degrade casting mechanical properties

- **REDUCES MAGNESIUM AND STRONTIUM "FADE"**

Magnesium and strontium, so critical to structural die casting properties, are less affected when electrically melted and quickly formed into castings, but can "fade" to dangerously low levels when exposed to high superheating temperatures in central melters and long time delays as the alloy slowly moves from central melter, through hot metal delivery system and holding furnaces. Both elements adversely react with water vapor from products of combustion in gas-fired furnaces.

- **INHIBITS SLUDGE FORMATION**

Because sludge formation is time and temperature dependent, eliminating the superheating required by central melting and its associated hot metal delivery systems, and quickly turning freshly melted alloy into castings, sludge formation can be effectively minimized, reducing casting "hard spots" and weakened mechanical properties.

- **ALLOY FLEXIBILITY**

Each furnace in each casting cell can melt a different alloy.

- **PRECISE TEMPERATURE CONTROL**

Achieved with unique proportional controls, large two-ton bath, and non-contact molten metal level sensing for paced ingot addition.

- **TANDEM FURNACES**

Two furnaces with alternating automatic pouring ladles will double melting rates for heavier production (see drawing on reverse side).

- **SAVES FLOOR SPACE**

Each furnace measures only 81" square by 49" high.

RAYTEQ LLC

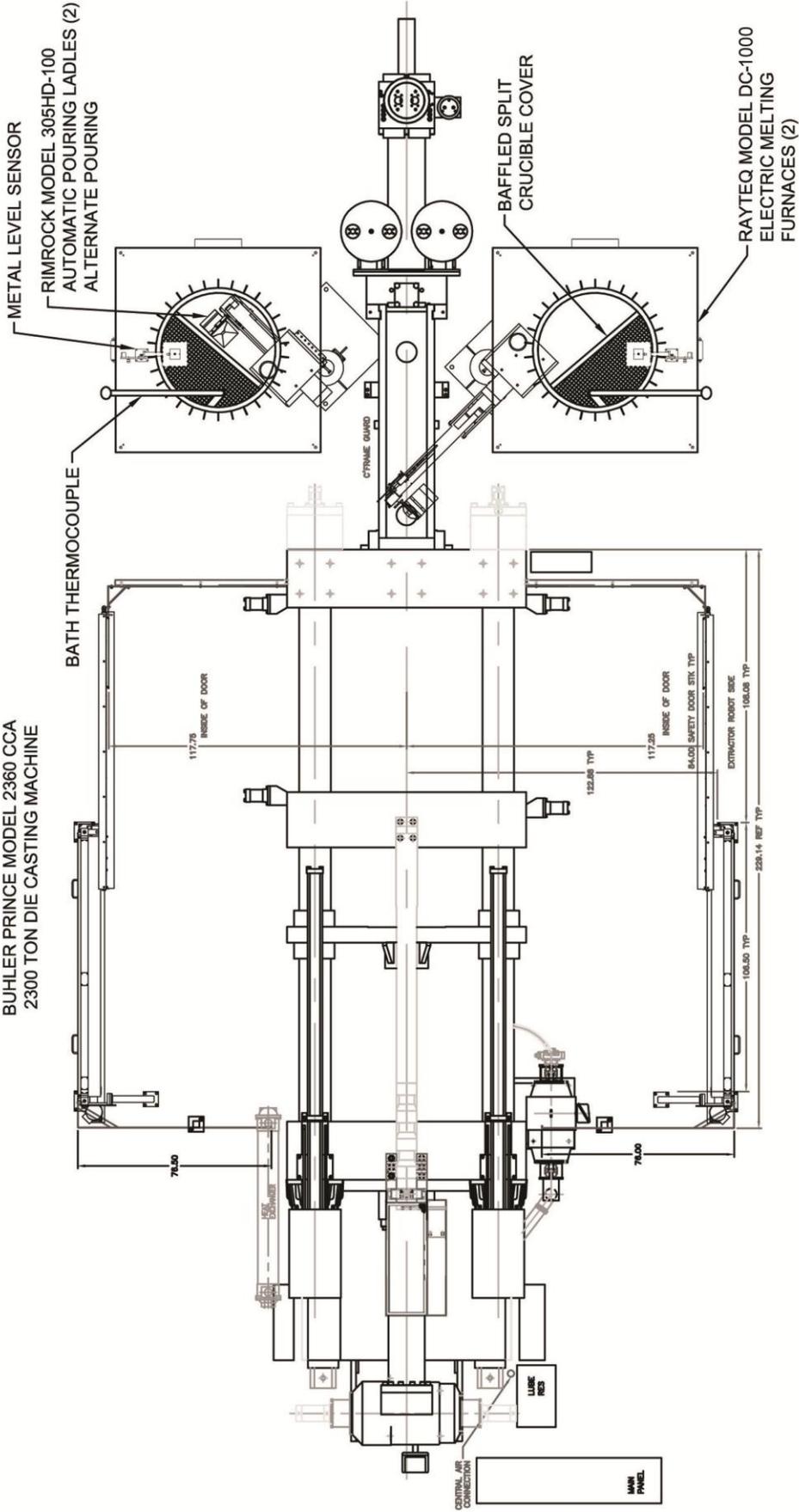
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**BUHLER PRINCE MODEL 2360 CCA
2300 TON DIE CASTING MACHINE**



REV	DATE	DESCRIPTION	DEFAULT TOLERANCES	Drawn By	Date
				Matt Smith	
				Material	Finish
				N/A	N/A
				Title	
				LAYOUT FOR TWO RAYTEQ MODEL DC-1000 ELECTRIC MELTERS WITH 2300 TON DIE CASTING MACHINE	
				Drawing No.	Rev
				D0000048	B
					SHEET 1 OF 1

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Unless Noted 32

Scale