



# Furnace Engineering

*Leaders in Heat Processing Solutions*

## Barrel Melting



### Applications:

Barrel Melting Furnaces for aluminium melting and holding

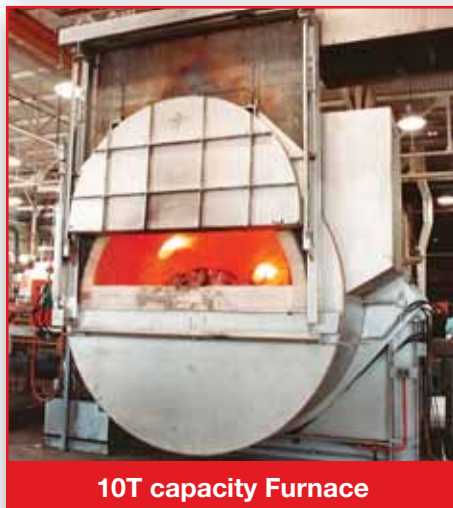
Furnace Engineering's Tilting Barrel Furnace is the most cost effective mid-range aluminium bulk melting/holding furnace for die casters, foundries and remelters.

Key features are:

- Practical, robust and reliable
- High thermal efficiency & low running costs
- Low oxide losses yielding clean metal
- Easy to operate, charge and pour
- Easy to clean and maintain
- Wide range of sizes for many applications



Barrel Furnaces installed at Automotive High Pressure Diecasting Facility



10T capacity Furnace



M1250 Barrel Melting Furnace



### Melbourne

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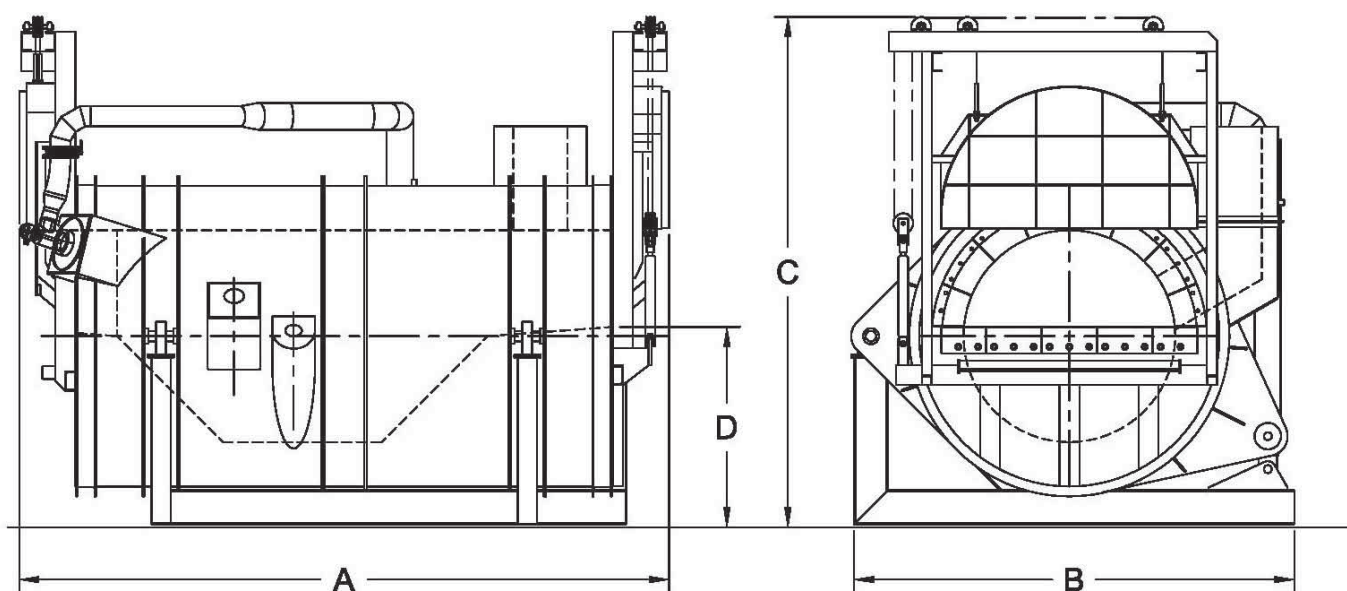
Designs are based on sound engineering principles and on the many years of experience in the aluminium melting industry by the company and its customers. The barrel form of brickwork with its inherent strength and clear internal lines is ideal for performance, maintenance and durability. The fore-hearth design facilitates waste heat recovery and contributes to improved metallurgical conditions. Pouring by hydraulic tilting provides clean metal from the heart of the melt and enables precise pouring control.

Each furnace is fully assembled and is pre-tested prior to delivery. Installation requires only a clear level floorspace and connection to services. No special foundations. Furnaces can easily be repositioned to suit layout changes or factory moves.

Standard equipment includes full electrics with automatic temperature controls; hydraulic power pack for tilting and door operation; combustion system designed for high heat-transfer efficiency natural gas, LPG, or oil; heavy duty refractory lining including 85% alumina hard burned brick in the molten metal zone, together with back-up and insulating refractories.

Optional extras include: dry hearth melting; automated charging systems; bale-out wells, etc.

Note: Other sizes or configurations available on request.



Model No.	Continuous Melt Rate kg/hr	Furnace Capacity kg	Well Capacity kg	Dimensions			
				A mm	B mm	C mm	D mm
M300	300	750	400	2700	2000	2100	1000
M500	500	1700	750	3200	2300	2200	1050
M750	750	3200	1250	3350	2400	2600	1200
M1000	1000	5500	2000	5000	3000	2900	1500
M1250	1250	7500	3000	5000	3200	3300	1700
M1500	1500	10000	3500	5200	3300	3300	1700

Note: Dimensions are approximate and may vary due to design improvement or to changes in configuration to suit customer requirements.

