MELTING FURNACES

Tilting Furnace

Tilting melting furnace that pours molten aluminium cleanly by tilting, 500 kg and 1,000 kg charges.



TEMPERATURE
Up to about 800°C (aluminium)

HEATING
Gas (LPG/PNG/CNG)

INDUSTRIES
Aluminium circles and sheet, foundries, casting units

Specifications

Capacity	500 kg and 1,000 kg per charge (other sizes to order)
Working size	1,066 × 762 × 762 mm (500 kg); 1,677 × 1,066 × 915 mm (1,000 kg)
Aluminium working temperature	up to about 800°C
Tilt	geared hand-wheel, or hydraulic on larger furnaces
Lining	high-alumina/sillimanite fire brick + insulation brick
Heating	automatic LPG/PNG/CNG burners
Burner safety	flame failure cut-off, automatic ignition
Controls	automatic temperature control

Typical reference builds

Build	Load	Working size (W x D x H)	Temperature	Heating
Compact	300 kg charge	900 × 650 × 650 mm	up to 800°C	LPG/PNG
Standard	500 kg charge	1,066 × 762 × 762 mm	up to 800°C	LPG/PNG/CNG
Heavy-Duty	1,000 kg charge	1,677 × 1,066 × 915 mm	up to 800°C	PNG/CNG

Indicative only: chamber size and heating load (kW or burner rating) are engineered to your load, cycle and site supply.

Features

- Pour by tilting, with no hand ladling
- Less oxide pick-up during pouring
- Geared or hydraulic tilt
- Automatic gas burners with flame safety
- High-alumina lining for molten aluminium
- Conversion of old oil-fired furnaces to gas

Applications

- Melting and pouring aluminium for casting
- Feeding ladles for circle and sheet casting
- Melting scrap and ingots in larger charges
- Pouring for gravity die casting
- Transferring metal to holding furnaces