MELTING FURNACES

Rotary Melting Furnace

Rotating drum furnace for melting aluminium scrap and dross with stirring, about 1 tonne per batch.



TEMPERATURE
Up to about 1,000°C

HEATING
Gas (LPG/PNG/CNG); electric on retort models

INDUSTRIES
Aluminium recycling, secondary aluminium, foundries

Specifications

Capacity	about 1,000 kg per charge (1 tonne batch)
Maximum temperature	about 1,000°C
Heating	automatic LPG/PNG/CNG burner with flame safety
Drum	refractory-lined, rotating on rollers with geared drive
Exhaust	hood at door for fume-treatment connection
Rotary retort option	4 mm SS-304 retort, 100–150 kg, 300–500°C, 18 kW electric
Controls	burner management and temperature control; PLC on retort models
Insulation (retort model)	200 mm ceramic blanket + rock wool

Typical reference builds

Build	Load	Working size (W x D x H)	Temperature	Heating
Compact	500 kg charge	drum Ø1,200 × 1,800 mm	750–850°C metal	LPG/PNG
Standard	1,000 kg charge	drum Ø1,500 × 2,400 mm	750–850°C metal	PNG/LPG
Heavy-Duty	2,000 kg charge	drum Ø1,800 × 3,000 mm	750–850°C metal	PNG/CNG

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

Features

- Rotation mixes and exposes the charge
- Handles scrap, turnings and dross
- Automatic gas burner with flame safety
- Variable drum speed
- Fume hood for treatment connection
- Electric rotary retort version for roasting

Applications

- Melting mixed aluminium scrap
- Melting turnings and swarf
- Recovering metal from aluminium dross
- Melting low-grade feed for secondary aluminium
- Roasting and treating powders in the retort version