



Type GKLTS

Al - T_{max.} 1100°C
Cu - T_{max.} 1300°C

Tilting crucible furnaces, gas fired, for melting and holding of Al Cu alloys.

easy operation
quality & reliability

high performance
energy efficient

- robust, durable construction of the furnace for heavy duty foundry plants
- stepless hydraulic tilting, joystick controller, adjustable speed
- manual tilting mode (in case of power cut)
- non-flammable hydraulic fluid Shell Ultra-Safe
- furnace chamber made of heavy-duty cast concrete radiant panels
- emergency drain hole, cast concrete sloped bottom
- manually operated chamber lid - fibre material insulation
- powerful and efficient burner and high quality optimized insulation provide high melting rate
- automatic temperature controll - quality controller JUMO
- efficient and reliable WEISHAUPPT burners with two-stage power controll and low energy consumption
- low NOx emissions
- top quality electrical components, engineering and workmanship
- overheating protection by standalone limit unit and thermocouple
- backup temperature controll (in case of main thermocouple failure) using standalone limit unit and thermocouple
- on wall mounted switchgear, standard cabling 5m

TECHNICAL SPECIFICATIONS

Max. temperature	1100/1300°C
Gas consumption	cca. 1 m ³ / 10 kg Al
Connecting voltage	3x400V, 50Hz, TN-C-S
Lining / insulation	cast concrete radiating panels fibre materials
Crucible	custom type
Construction	frame & covers CSN EN: 11373 steel heat exposed parts CSN EN: 17255 steel double layer paint
Temperature controller	JUMO dTron304
Temp. measuring	1x thermocouple, type "K"
Overheating protection	JUMO iTron32 unit 1x safety thermocouple, type "S"
Switchgear	RITTAL, IP54 dim. WxHxD: 500x700x250 mm cabling 5m

OPTIONAL EQUIPMENT

1. Working platform - tilted with furnace, event. including the access platform (not tilted).
2. Safety precautions - complete safety solution of the furnace workplace.
3. Flue gas exhaust - side exhaust gas discharge.
4. Temperature control by sheated thermocouple directly in the molten alloy. High grade EKatherm(R) sheating.
5. Drain detection - acoustic/visual alarm for draining alloy from the crucible.
6. Pneumatic furnace lid opening.
7. Modulating burner with precise temperature control for optimum quality of the melt in holding mode.
8. Exhaust gas discharge over the crucible edge.

Type	GKL200TS	GKL300TS	GKL350TS	GKL600TS	GKL800TS	GKL1000TS
Weight Al [kg]	200	300	350	600	800	1000
Melting rate [kg Al/h]*	180	220	240	340	420	On demand

Type GKLT

Al - T_{max.} 1100°C
Cu - T_{max.} 1300°C

Stationary crucible furnaces, gas heated for holding of AlCu alloys.

Type	GKL200T	GKL300T	GKL350T	GKL500T	GKL800T	GKL1000T
Weight Al [kg]	185	280	330	470	770	970
Melting rate [kg Al/h]*	180	220	240	340	420	On demand

Note: Illustrative photographs, subject to alternations. Technical parameters are subject to alternations.

For detailed info, please visit www.elsklo.cz.

*) Theoretical melting rate - hot furnace, new crucible, 20 % of molten alloy in the crucible.

