



# Type RKLTS

*Tmax. 1100°C*

Tilting crucible electrical furnaces for melting and holding of Al 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 heating panels
- emergency drain hole, cast concrete sloped bottom
- manually operated chamber lid - fibre material insulation
- uniform heat field and optimized high quality insulation provide high melting rate
- preformed fibre insulations modules compensate thermal contraction effect
- automatic temperature controll - quality controller JUMO
- temperature measured in the TC pocket of the crucible
- quality, high power and reliable Elsklo heating panels with long lifetime - easy to replace without removing the crucible.
- top quality electrical components, engineering and workmanship
- multi-step switching of the furnace heating system when higher heating power installed (over 65kW)
- 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°C
Connecting voltage	3x400V, 50Hz, TN-C-S
Lining / insulation	cast concrete heating 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"
Power controll	contactor / thyristor
Switchgear	RITTAL, IP54 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. Higher power installed.
4. Temperature controll by sheated thermocouple directly in the molten alloy. High grade EKatherm(R) sheating.
5. Drain detection - acustic/visual alarm for draining alloy from the crucible.
6. Pneumatic furnace lid opening.
7. Energy meter for elecetric energy consumption metering.
8. Multi-step switching of the furnace heating.
9. Custom temperature controller.
10. Thyristor power controll - phase controll.
11. Ampere-meters for phase currents vizualization.



Type	RKL200TS	RKL300TS	RKL350TS	RKL600TS	RKL800TS	RKL1000TS
Weight Al [kg]	200	300	350	600	800	1000
Melting rate [kg Al/h]*	90	135	145	185	250	290

Note: Illustrative photographs, subject to alternations. Technical parameters are subject to alternations. For detailed info, please visit [www.elsklo.cz](http://www.elsklo.cz).  
\*) Theoretical melting rate - hot furnace (T730°C), new crucible, 20 % of molten alloy in the crucible.