

COOLmax®

The new Aluminium Dross
and Salt-Slag Cooler



Maschinenfabriken
Kärntner Maschinenfabriken Egger GmbH

Don't BURN it - COOL it !

Present cooling WITHOUT COOLmax



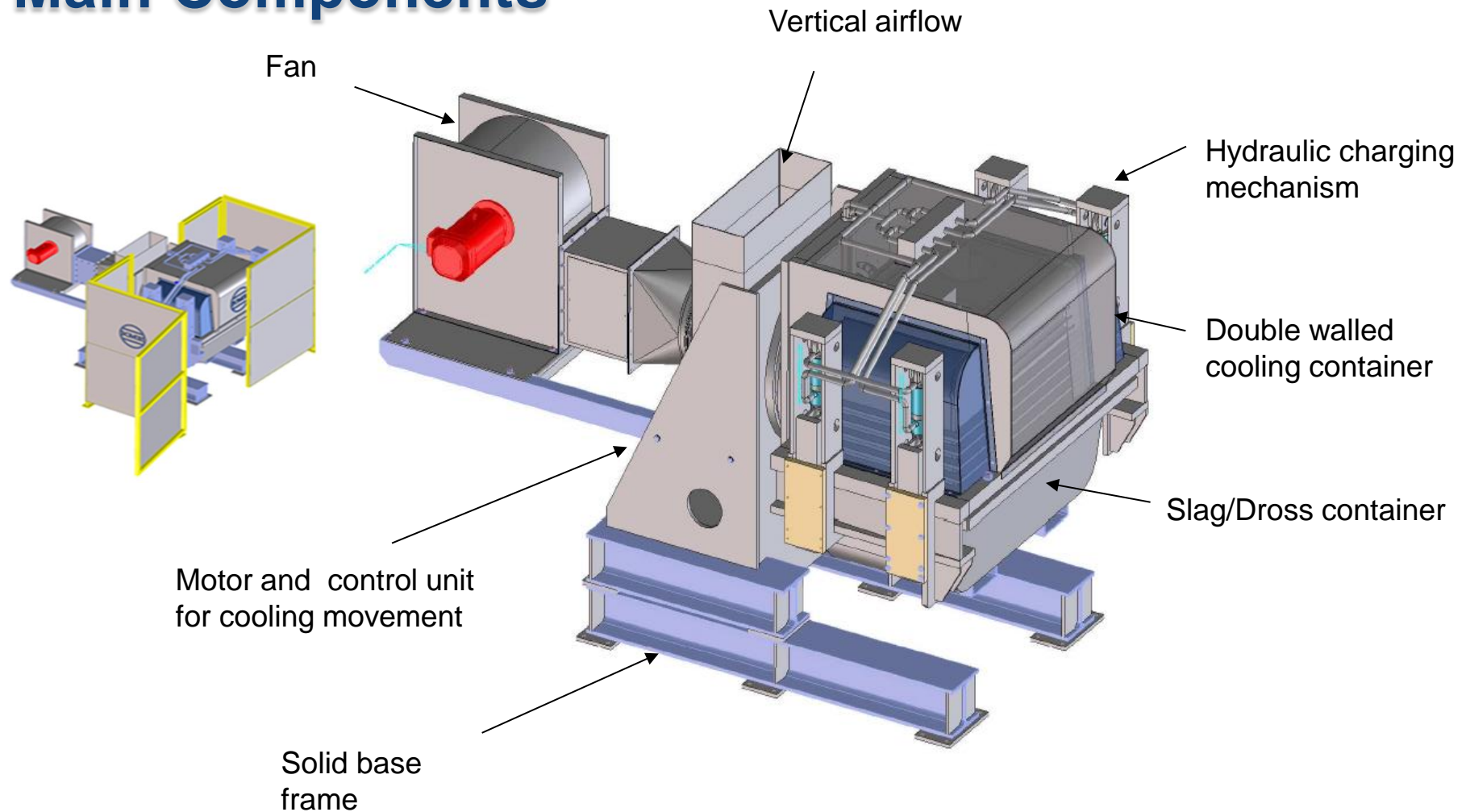
Dust, fumes, waste of energy and storage problems

COOLmax stopps Aluminium burning fast and sustainable

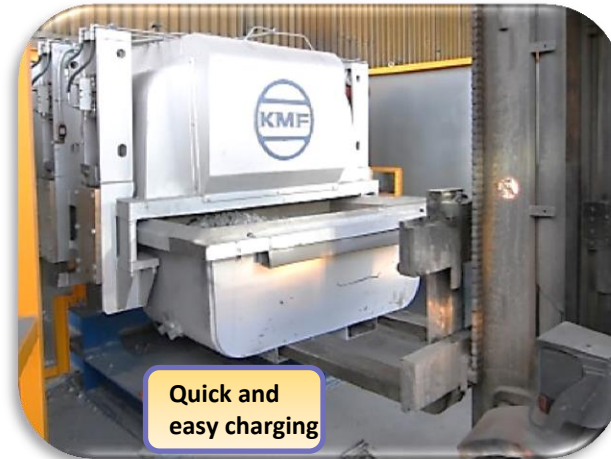


No dust, low fumes, safe and quick processing and no further burning of dross

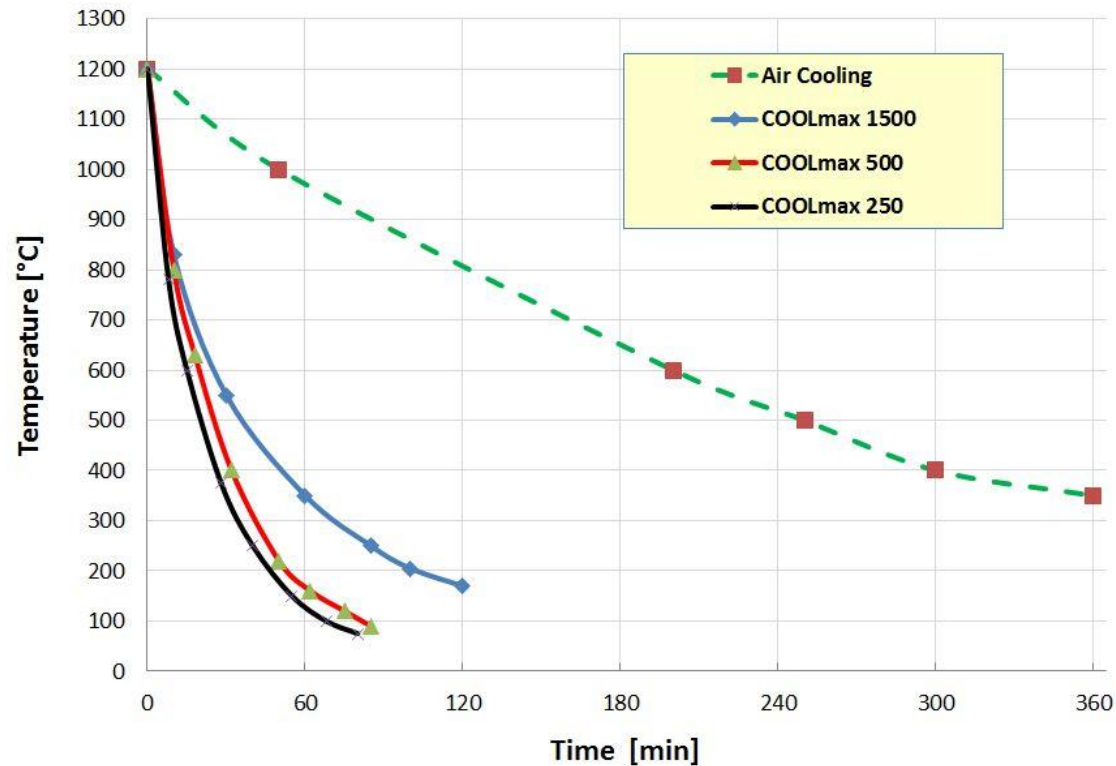
Main Components



Approved by Remelters, Refiners and Cast Houses



COOLmax Cooling Performance

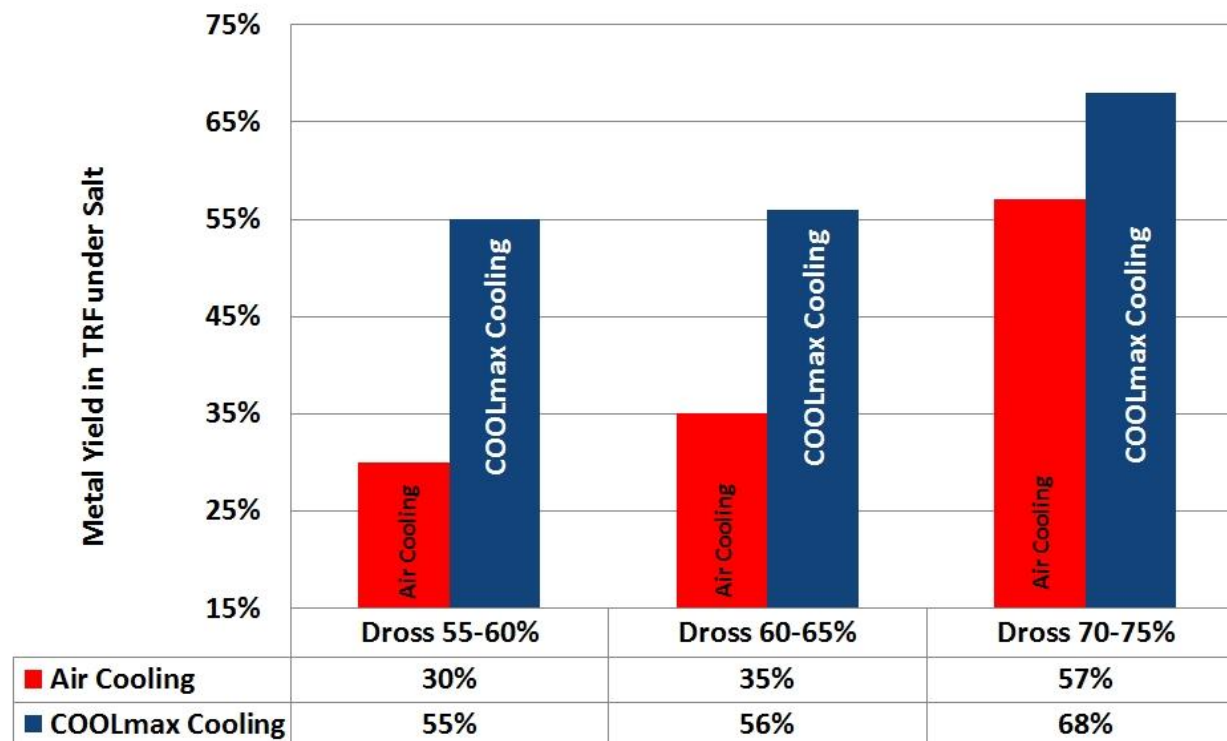


Cooling curves and yield may vary depending on dross or slag conditions

Results after cooling in COOLmax



COOLmax Recovery Rates (from TRF)

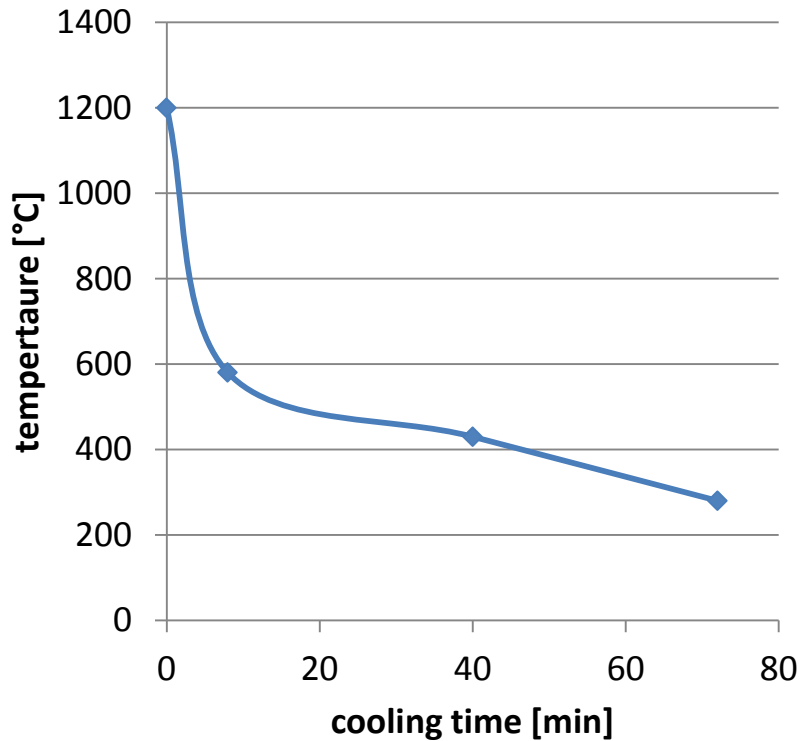


Suitable for dross from cast alloys and wrought alloys containing between app. 40%-75% aluminium

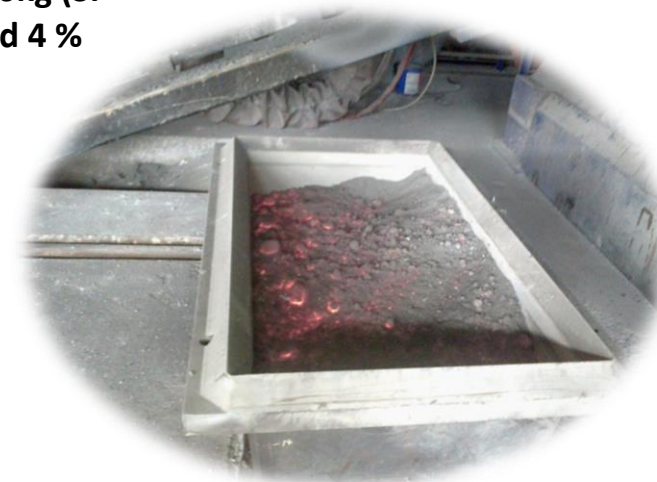
Recovery rates are dependant on time to charge, alloy composition, aluminium content of dross and remelting conditions

COOLmax Results with TRF Salt Slag

COOLmax Cooling Curve of TRF salt slag with SF 0,4



—◆ salt slag 520kg (SF 0,4), Al yield 4 %



Technical Specification

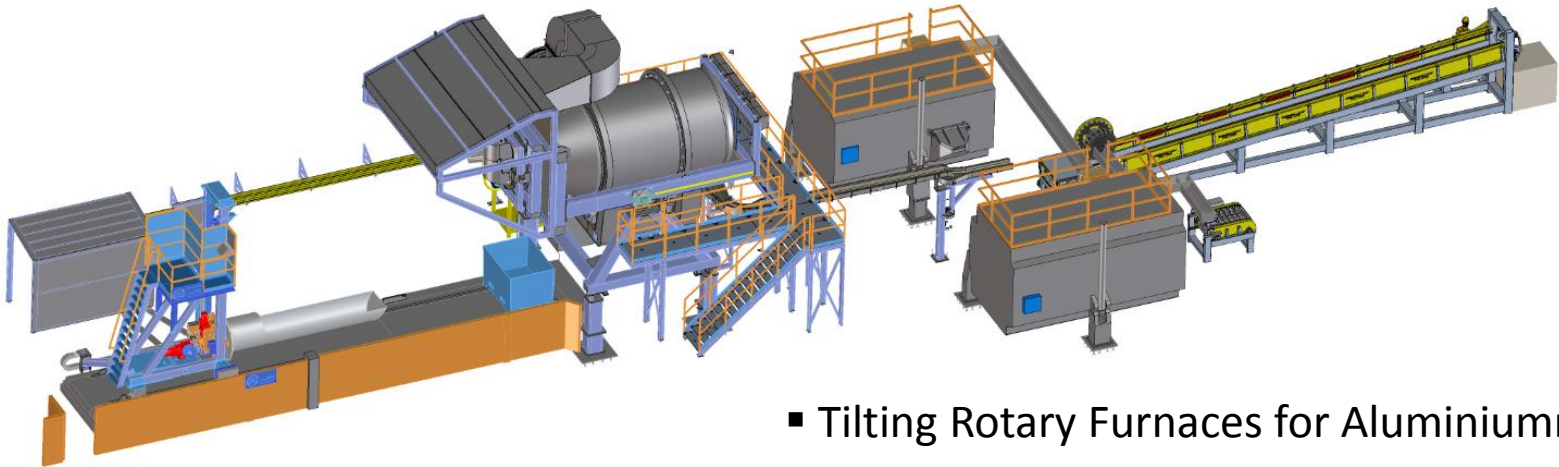
Description	COOLmax 250	COOLmax 500	COOLmax 1500
Capacity	max 0,25 t	max 0,5 t	max 1,5 t
Weight of cooling container	app. 0,5 t	app. 1 t	app. 3 t
Dimensions Dross/slag container (LxWxH)	1000 x 700 x 700 mm	1660 x 1080 x 700 mm	2660 x 1600 x 700 mm
Air flow (vertical exhaust direction)	max. 5m ³ /sec	max. 5m ³ /sec	max. 13 m ³ /sec
Electrical power	18 kW (400V, 50A)	18 kW (400V, 50A)	30 kW (400V, 60A)
Dimensions including fence (LxWxH)			
Manual safety door when doors are open with 180°	app. 4,0 x 6 x 3 m	app. 4,3 x 6,7 x 3 m	app. 6 x 8,0 x 4 m
Vertical electrical door with open door	app. 4,0 x 3,2 x 4,0 m	app. 4,3 x 3,4 x 4,0 m	app. 6 x 4 x 5,0 m
Total weight with manual safety door	app. 5.5 t	app. 7.5 t	app. 21,5 t
Total weight with E-vertical lift gate	app. 5.8 t	app. 7.8 t	app. 22,0 t

COOLmax – The Ultimate Dross Processing Machine

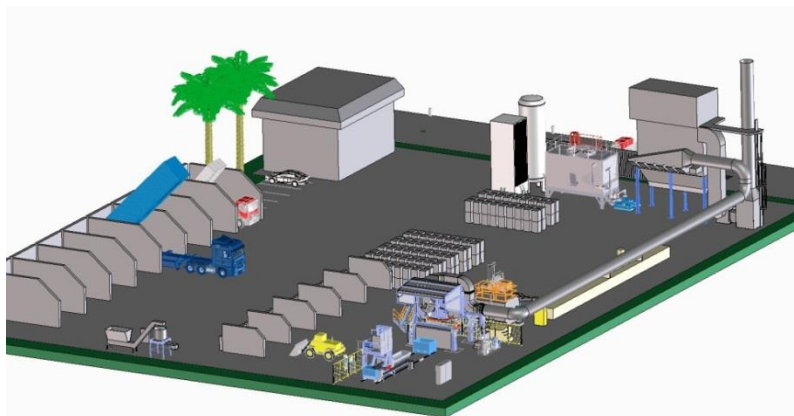


- **Minimized Cooling Time (30-60min)**
- **Maximized Aluminium Recovery**
- **Yields up to 25% more Aluminium compared to direct air cooling**
- **No filter needed**
- **No water cooling**
- **Fast Amortization**
- **Safe and easy Handling**
- **CE-certified**

Other Aluminium-related Products of KMF



- Tilting Rotary Furnaces for Aluminium recycling
- Design and Construction of Recycling Lines
- Turnkey Remelting Plants



KMF Facts and Figures



- Established 1874
- 5th generation family run company
- Legal status: GmbH (Ltd.)
- Markets: 90% international, 10% national
- 85 employees
- Production area 12.000m²
- Storage area 27.000m²
- 60 t crane and lifting capacity
- ISO 9001 and ISO 14001 certified



Contact



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