



**100% Committed to Hot & Abrasive**

General Presentation /  
Kopar Cooling Drum

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# KOPAR IN SHORT

- 100% Committed to Hot and Abrasive Process Systems
- Globally more than 10 000 operating equipment In Heavy Industries
- Complete Systems with Engineering, Supply and Construction.
- European Manufacturing in Parkano, Lehtimäki and Rakvere.
- Works in according ISO9001, ISO14001, ISO18001, ISO3834, EN1090 (certified up to EXC4).
- 100%

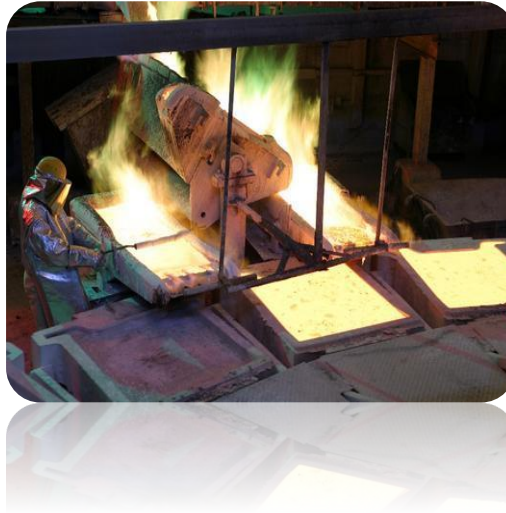


# KOPAR SOLUTIONS

## Energy



## Metallurgy



## Chemical



# KOPAR TECHNOLOGY

## ROBUST & PURPOSE BUILT SYSTEMS

- **Lowest Cost / Transported Ton**
  - Purpose Built, Optimized Equipment
  - Longer Lifetime of the Equipment
  - Lower operating and service labor cost
  - Lowest Energy Cost/Transported ton
- **Ease of Operation and Maintenance**
  - Simple robust designs
  - Little Moving Part
  - Easy Maintenance
- **Environmentally Sustainable Solutions**
  - Longer Service Interval
  - Lower Energy Consumption
  - Longer System Lifetime





# KOPAR TECHNOLOGIES

**MECHANICAL**



**PNEUMATIC**



**STORAGE**



**COOLERS & DRYERS**



# COOLING AND DRYING

## KOPAR COOLING DRUM

- Calculated and dimensioned always individually for each project
- Cooling for free-flowing bulk materials
- Material inlet temperatures up to over **900** degrees C
- Material outlet temperatures even below **100** degrees C depending on the application
- Capacity more than **50** tons/h depending on the application



# COOLING AND DRYING

## KOPAR COOLING DRUM

- Various design for internal lifters in the product chambers to ensure proper mixing and conveying of the product
- Drive through chain or girth gear depending the size of the unit
- Counter flow design to maximise the cooling power and efficiency
- Unpressurized non PED regulated system ensures cost efficient operation and maintenance
- Components designed to fit into the standard sea container for transportation





# Kopar reference case – KGHM, Glogow HMG I

## Cooling drum for metallurgical dust

- Complete delivery and design calculations for the indirect type rotary cooler
- Capacity: 20 t/h
- Inlet temperature: 460 C
- Outlet max. : 130 C
- Completely FAT tested before delivery including drive equipment
- To be commissioned 2017





# Kopar reference case – Boliden Odda

## Calcine cooling drum

- Complete delivery, design and assembly for the indirect type rotary cooler
- Capacity: 22 t/h
- Inlet temperature: 900 C
- Outlet max. : 200 C
- Commissioned 2013



# Kopar deliveries worldwide



# REFERENCES





**Experience. Reliability.**

