



100% Committed to Hot & Abrasive

General Presentation /
Kopar Cooling Drum

Kopar Oy, Eero Lehtilä
Sepänkatu 2, FI-39700 Parkano, Finland
Telephone: +358 41 543 9786 – Web: www.kopar.fi

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).
- 10



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

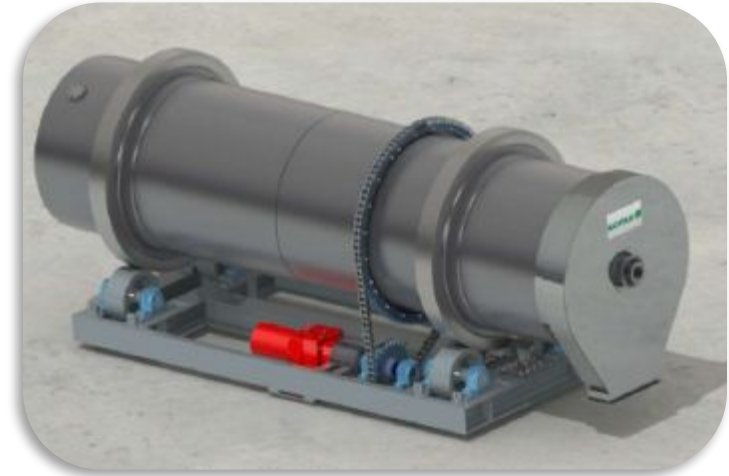
- Various design for internal lifters in the product chambers to ensure proper mixing and conveying of the product
- Drive through chain or girth gear depending the size of the unit
- Counter flow design to maximise the cooling power and efficiency
- Unpressurized non PED regulated system ensures cost 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.

