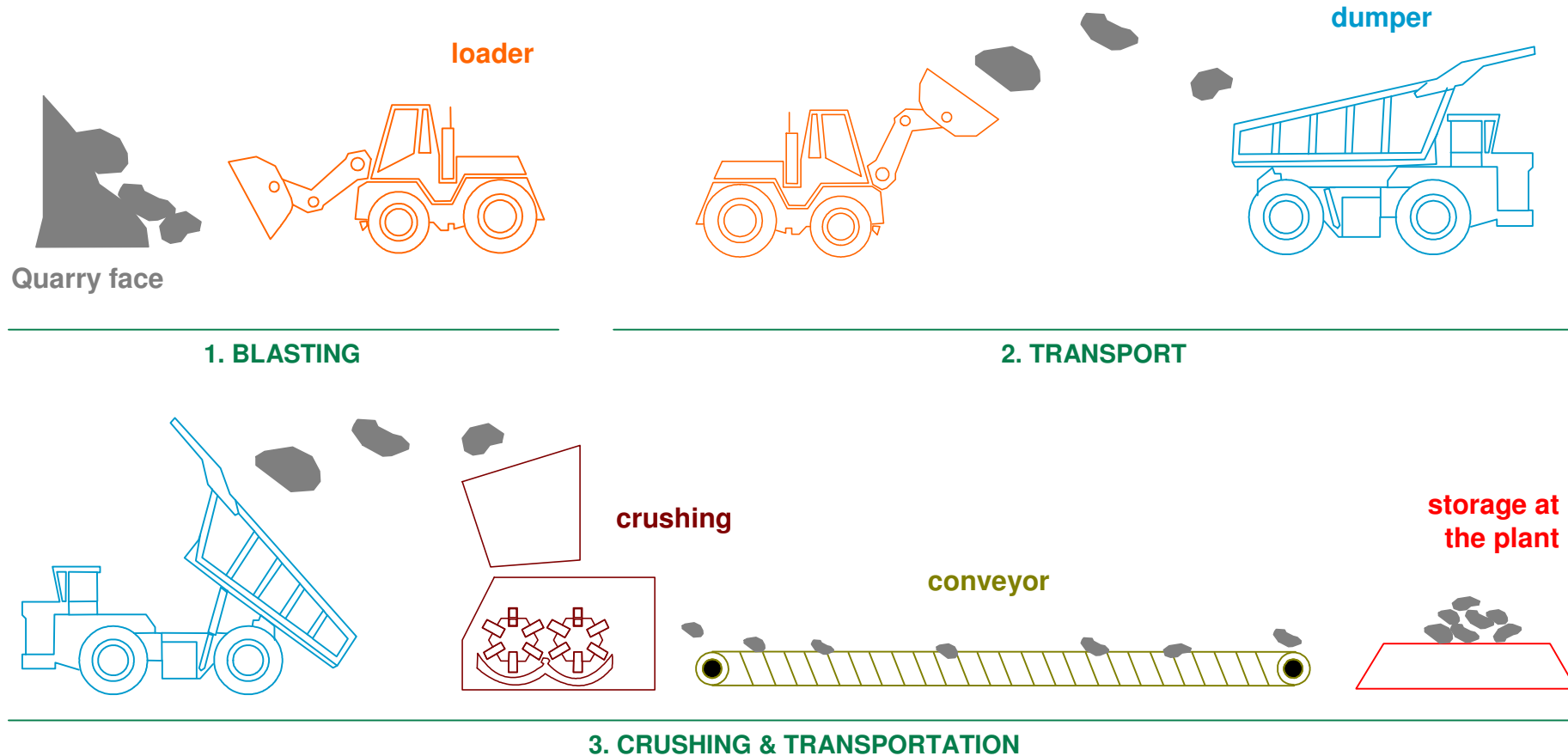


# THE CEMENT MANUFACTURING PROCESS

quarry



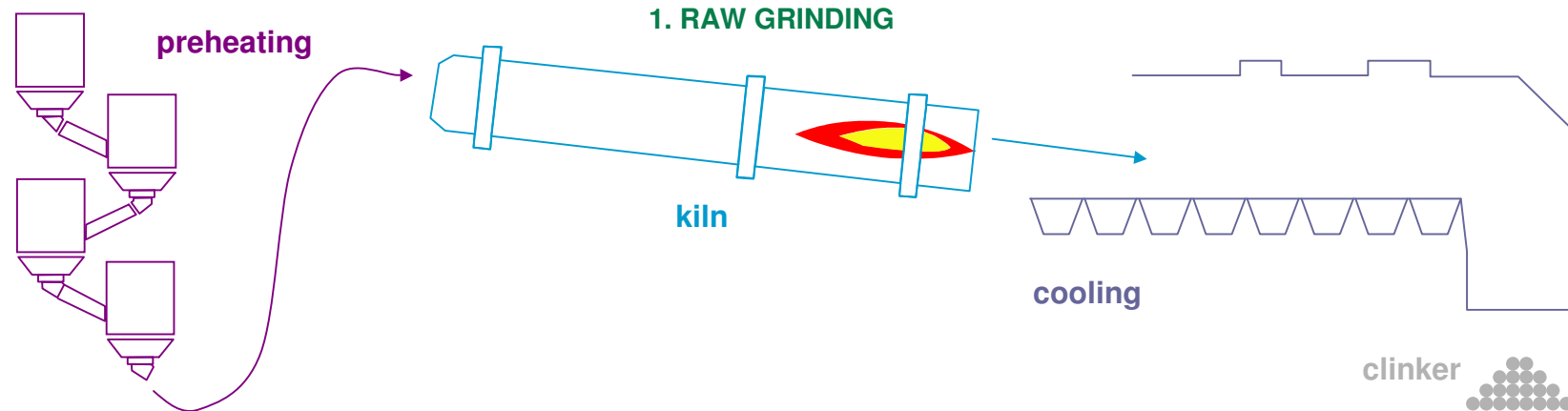
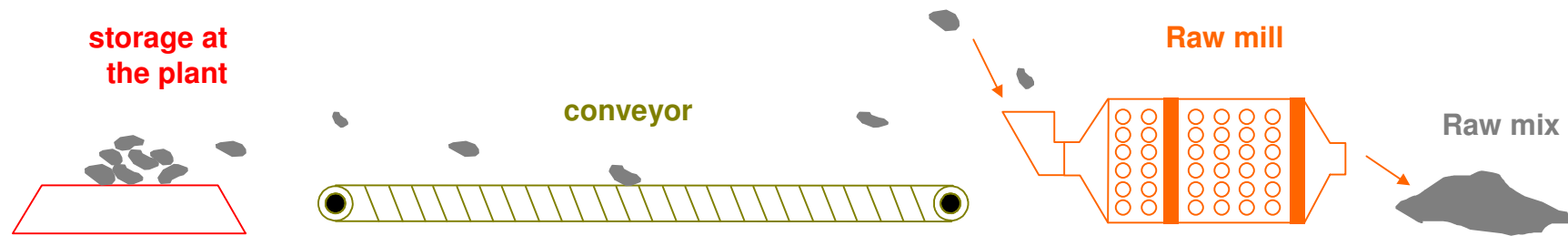
**1. BLASTING :** The raw materials that are used to manufacture cement (mainly **limestone** and **clay**) are blasted from the quarry.

**2. TRANSPORT :** The raw materials are loaded into a **dumper**.

**3. CRUSHING AND TRANSPORTATION :** The raw materials, after **crushing**, are transported to the plant by conveyor. The plant stores the materials before they are homogenized.

# THE CEMENT MANUFACTURING PROCESS

## Raw grinding and burning



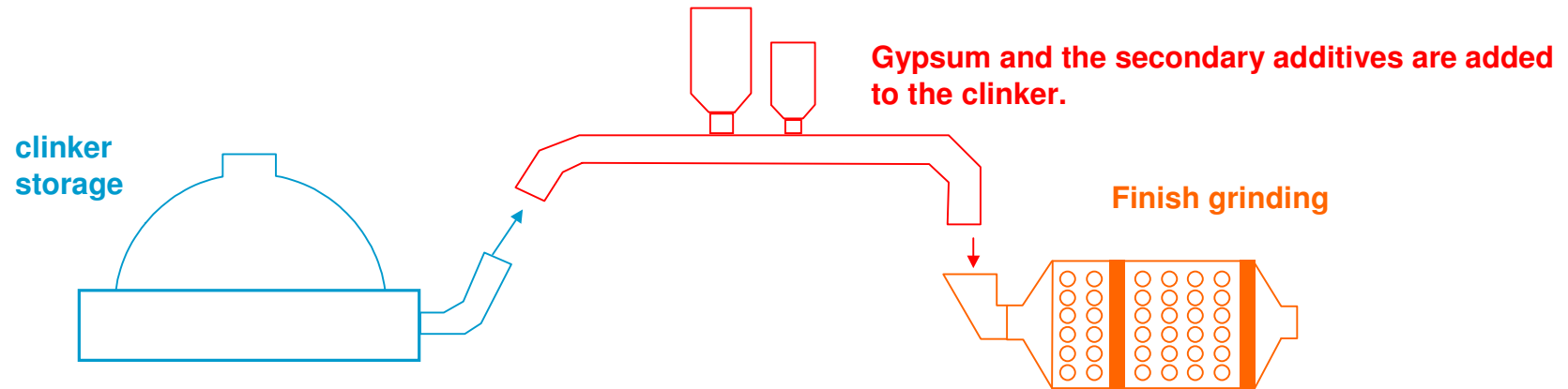
## 2. BURNING

**1. RAW GRINDING :** The raw materials are very finely ground in order to produce the **raw mix**.

**2. BURNING :** The raw mix is preheated before it goes into the kiln, which is heated by a flame that can be as hot as 2000 °C. The raw mix burns at 1500 °C producing **clinker** which, when it leaves the kiln, is rapidly cooled with air fans. So, the raw mix is burnt to produce clinker : the basic material needed to make cement.

# THE CEMENT MANUFACTURING PROCESS

Grinding, storage, packing, dispatch



## 1. GRINDING



## 2. STORAGE, PACKING, DISPATCH

**1. GRINDING** : The clinker and the gypsum are very finely ground giving a “pure cement”. Other secondary additives and cementitious materials can also be added to make a blended cement.

**2. STORAGE, PACKING, DISPATCH** : The cement is stored in silos before being dispatched either in bulk or in bags to its final destination.