

The Hydrators Models

Many of the end uses of quicklime require mixing it with water, that is why it is important to be able to do that under strictly controlled conditions.

Cimprogetti has developed a 3-stages Cim-Hydrax series, the latest achievement in lime hydration technology:

- **Cim-Hydrax-4G**
- **Cim-Hydrax-4G MAX** for special applications
- **Cim-Pilot hydrator**

Each stage contains horizontal rotating shafts with specially designed hi-efficiency paddles to mix continuously the reacting lime and the water. Paddles have different design in the various hydrator stages for the optimum matching of their specific operational performances.

We apply our proven hydration technology to a wide range of environmental applications, including power plants, steel mills, waste to energy plant and glass industry, designing modern and compact units easily integrable like:

- **Cim-Hydrax-FGD**
- **Cim-Hydrax Compact®**

The basic principles which first led to the design of our Cim-Hydrax hydrators series are mainly the following:

- a compact machine capable of converting a given raw material into high quality finished products with continuous operation;
- sturdy construction, easy to operate with minimum maintenance required;
- high flexibility in terms of turn-down ratio;
- wide range of acceptable raw material qualities;
- wide range of feasible finished products;
- possibility of an automated, unmanned control;
- bespoke design.

