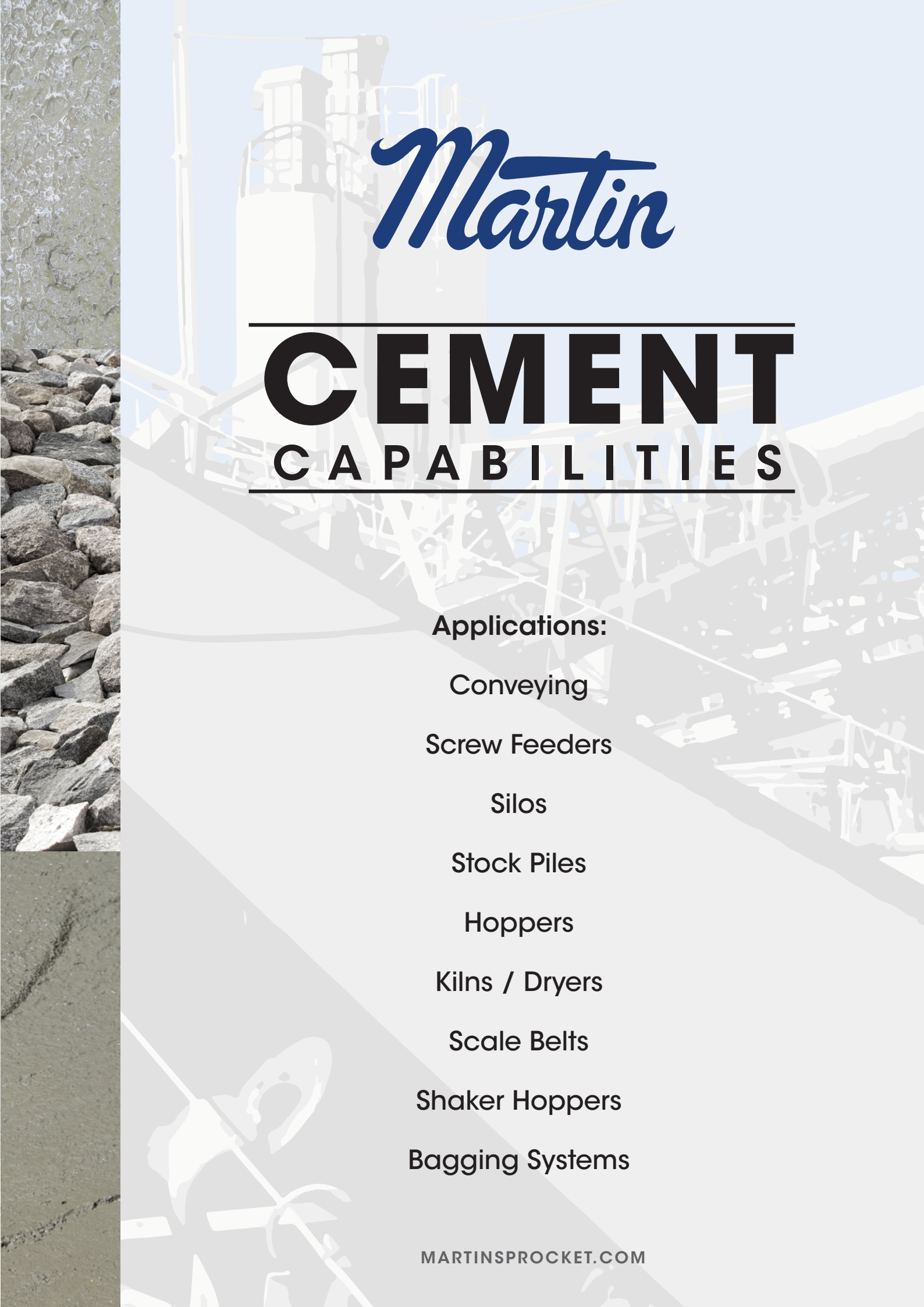




Martin

CEMENT

CAPABILITIES

Applications:

Conveying

Screw Feeders

Silos

Stock Piles

Hoppers

Kilns / Dryers

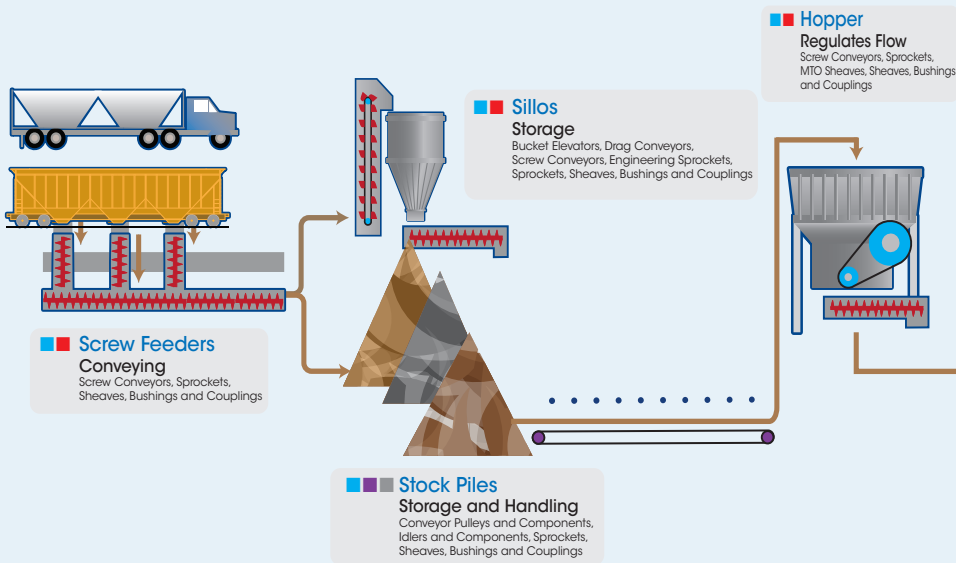
Scale Belts

Shaker Hoppers

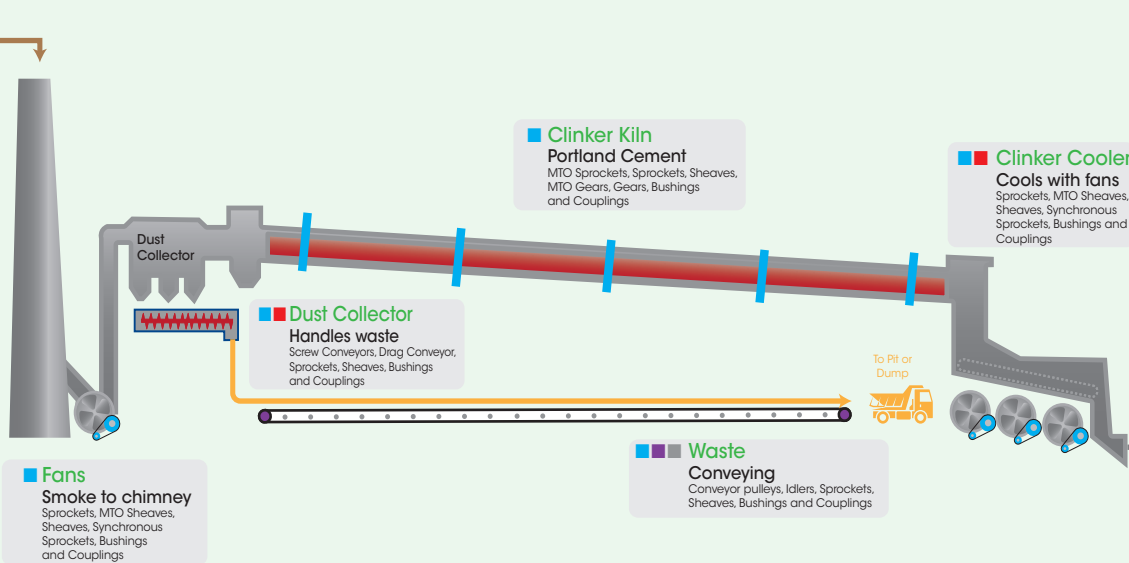
Bagging Systems

MARTIN CEMENT PLANT FLOW DIAGRAM

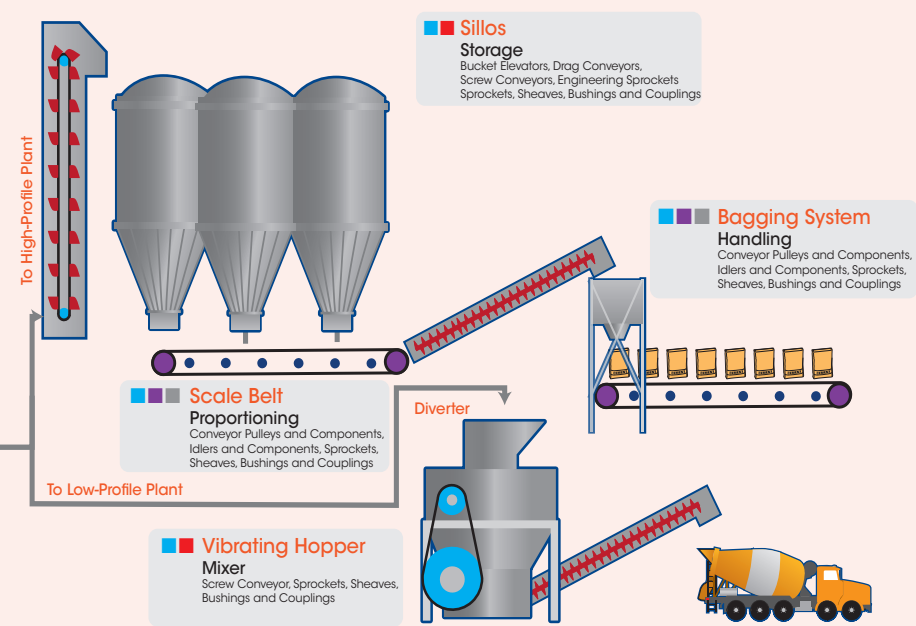
1. RAW MATERIAL STAGING AND STORAGE



2. PYROPROCESSING



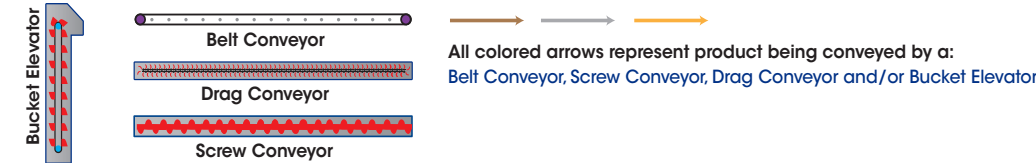
3. MIXING, STORAGE AND PACKAGING



TYPE OF PRODUCTS USED IN PROCESS:

- Power Transmission Components
- Conveyor Pulleys and Components
- Material Handling Conveyors
- Idlers and Components

MATERIAL HANDLING SYSTEMS:



CONVEYING

Cement plants use a variety of conveyors for wet and dry product, typically you would see Belt Conveyors, Screw Conveyors, Drag Conveyors and Bucket Elevators depending on the plant's needs and layout.

Martin products used: Conveyor Pulleys and Components, Idlers and Components, Screw Conveyors, Drag Conveyors, Bucket Elevators, Engineering Class Sprockets, Sprockets, Sheaves, Bushings and Couplings

1. RAW MATERIAL STAGING AND STORAGE

Screw Feeders

Materials are brought in by truck or rail and the material is unloaded and transported by Screw Feeders.

Martin products used: Screw Conveyors, Sprockets, Sheaves, Bushings and Couplings

Silos

The material is stored in silos, which are loaded from the top, typically requiring Bucket Elevators or Drag Conveyors.

Martin products used: Bucket Elevators, Drag Conveyors, Screw Conveyors, Engineering Sprockets, Sprockets, Sheaves, Bushings and Couplings

Stock Piles

In some plants the material is stored in Stock Piles. These piles are typically loaded and unloaded by Belt Conveyor.

Martin products used: Conveyor Pulleys and Components, Idlers and Components, Sprockets, Sheaves, Bushings and Couplings

Hopper

Raw materials enter the loading hopper and through a Screw Feeder are loaded onto the conveyor leading to the Kiln.

Martin products used: Screw Conveyors, Sprockets, MTO Sheaves, Sheaves, Bushings and Couplings

2. PYROPROCESSING

Clinker Kiln

The clinker is made by heating a homogeneous mixture of raw materials in a rotary kiln at high temperature. For Portland cement clinker a little gypsum is added after.

Martin products used: MTO Gears, MTO Sprockets, Gears, Sprockets, Sheaves, Bushings & Couplings

Dust Collection

Dust particles are recollected in the dust collection chambers and later disposed back to the mine pit or dump.

Martin products used: Screw Conveyors, Drag Conveyor, Sprockets, Sheaves, Bushings and Couplings

Fans

Fans extract the smoke from the Kiln to the chimney.

Martin products used: Sprockets, MTO Sheaves, Sheaves, Synchronous Sprockets, Bushings and Couplings

Clinker Cooler

After the kiln the material is cooled on a special conveyor with large industrial fans.

Martin products used: Sprockets, MTO Sheaves, Sheaves, Synchronous Sprockets, Bushings and Couplings

Waste

The waste is returned to the mining pit or taken to a dump site/tailing.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings and Couplings

3. MIXING, STORAGE AND PACKAGING

Silos

The material is stored in silos, which is loaded from the top, typically requiring Bucket Elevators or Drag Conveyors.

Martin products used: Bucket Elevators, Drag Conveyors, Screw Conveyors, Engineering Sprockets, Sprockets, Sheaves, Bushings & Couplings

Scale Belt

Special Belt Conveyors with a scaling system proportion the materials.

Martin products used: MTO Conveyor Pulleys, Conveyor Pulleys & Components, Idlers & Components, Sprockets, Sheaves, Bushings & Couplings

Vibrating Hopper

Here the material is mixed before the product is sent to a truck.

Martin products used: Screw Conveyors, Sprockets, MTO Sheaves, Sheaves, Bushings & Couplings

Bagging Belt System

Special Belt Conveyor system where the bags are filled with material and transported to their storage or shipping.

Martin products used: MTO Conveyor Pulleys, Conveyor Pulleys & Components, Idlers & Components, Sprockets, Sheaves, Bushings & Couplings

Martin Products at Work in the Cement Industry



Roller Chain Sprockets



Engineering Class
Sprockets



Gears



MTO Gears



Bushings



Sheaves



MTO Sheaves



Couplings



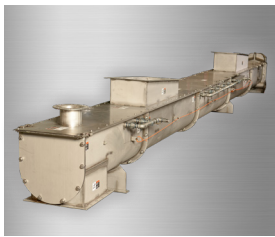
Bucket Elevators



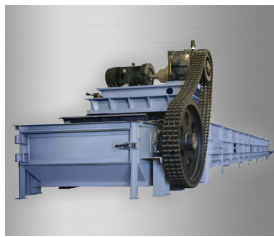
Clean Flight® Wing
Pulleys



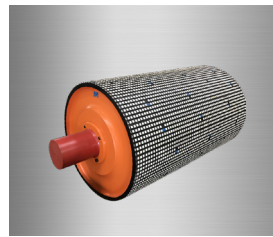
Screw Conveyors



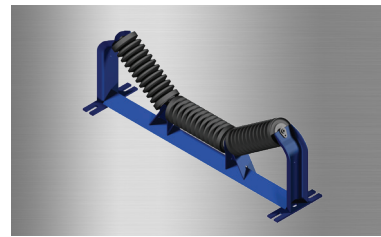
Shaftless Screw Conveyors



Drag Conveyors



Conveyor Pulleys



Idlers



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