



HOSOKAWA BEPEX GmbH

Technologies for compaction, briquetting, extrusion and spheronization



Compaction without Contamination

Press Agglomeration of Corrosive and Abrasive Materials

Fine dispersed bulk materials are processed with roller compactors to hard flakes and briquettes.

Extremely abrasive and corrosive products cannot be processed with usual materials of construction.

Wear and corrosion create metal removal at the press rolls and other contact parts and result in high process cost and contamination of the products to be processed.

In order to improve the service life of the equipment but also to work with low or totally without contamination, new materials of construction have been developed and are now successfully used in production plants.

Conventional protections against wear can bring the cost to a reasonable level, but contamination in the range of ppm is still a problem. The efficiency of semiconductors and refractories can be considerably reduced.

A matrix for the selection of the most adequate materials of construction is now available. Some examples are hydrocarbon coatings, plasma surface coatings and ceramic materials.

These results are further improving the advantages of roller compaction:

- Dry process
- Low energy consumption
- Low product heating
- Dust free processing
- Consistent result
- Automatic control

The new technologies offer many options for semiconductors, glass batches, ceramics, pigments and pharmaceutical applications.