

## Why dry roller compaction?

- 1 Eliminates the need for liquid binders or alcohol solvents. No label changes needed.
- 2 Micro problems are nearly non-existent.
- 3 Ideal for moisture- and heat-sensitive materials.
- 4 Granules are more durable, uniform, and highly flowable, for more even, efficient downstream processing.
- 5 Dust-free powders prevent cross-contamination downstream.
- 6 Irregular-shaped granules “interlock” and are consistently sized to meet your requirements and minimize segregation in handling and shipping.
- 7 Produces consistent granule size and bulk density for an intermediate tableting material or a final, flowable granular product.



## WelchDry: the roller compaction expert

We celebrated our 20th anniversary by changing our name to WelchDry, to better reflect our position as a global leader in high quality dry roller compaction.

WelchDry has the largest cGMP & FDA approved capacity in the tolling industry.

Visit [www.welchdry.com](http://www.welchdry.com) to learn more.



## Why outsource to **WelchDry?**

WelchDry leads the tolling industry as the roller compaction expert. Founded in 1989 as Welch Laboratories, WelchDry has a 20-year proven track record. **FDA and cGMP compliance assures proactivity in recordkeeping, personnel qualifications, sanitation, cleanliness, equipment qualification, and process validation.** Our state-of-the-art 60,000 sq. ft. facility features temperature-controlled HEPA suites and stainless steel Fitzpatrick roller compaction systems.

WelchDry can help you:

- focus on your core competencies of R&D, marketing, and sales
- reduce capital costs, releasing capital for other investments
- increase efficiency: our cost structure and economy of scale give you a competitive advantage
- leverage our roller compaction expertise to develop a more stable, higher quality product
- enhance ingredients for easier handling and processing
- reduce labor costs and risks

## Will dry roller compaction work for my product?

WelchDry's trial and scale-up capabilities often yield significant cost-savings and added value.

**Contact us early in your R&D process to arrange a free trial** (subject to certain conditions).

## WelchDry's products/ markets

We're selective about the type and source of materials we process, providing you an added degree of security, quality, and integrity. **We serve a growing number of Fortune 500 and middle-market consumer packaged goods (CPG) companies in these industries:**

- prescription and OTC pharmaceuticals
- animal health products
- food products
- nutraceuticals and supplements
- select chemical/technical grade products

## WelchDry's services

- R&D
- scale-up
- free trials (cGMP trials also available)
- cGMP roller compaction: milling, blending, pulverization, sieving, dry granulation, briquetting
- packaging, warehousing, and distribution

# WELCHDRY™

the roller compaction expert

WelchDry's roller compaction process offers the economy of continuous operation, greater throughput, and the highest FDA/cGMP capacity in the tolling industry.

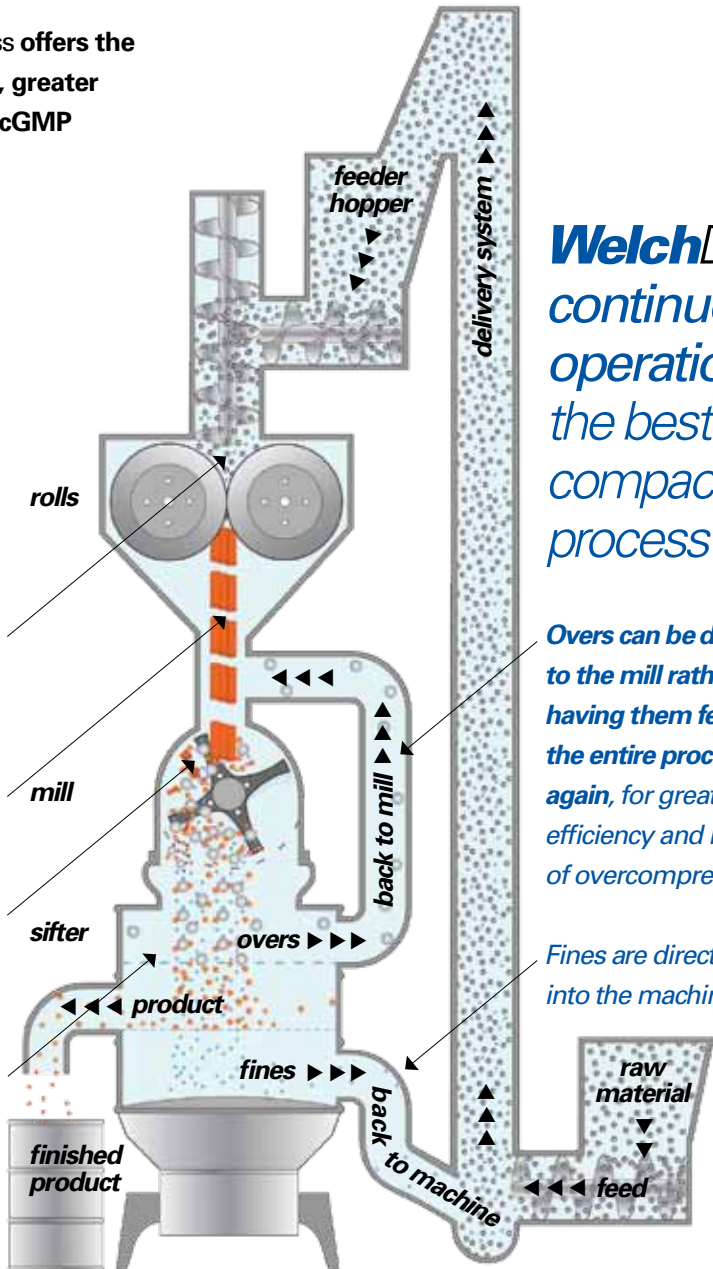
*Dry roller compaction is the better granulation process*

*Fine powders are forced between two counter-rotating rolls*

*Powders are compressed into dense sticks or sheets*

*Milling and screen systems grind the sticks and sheets into granules*

*The screener separates the granules into overs, finished product, and fines*



*WelchDry's continuous operation is the best roller compaction process*

*Overs can be directed back to the mill rather than having them fed through the entire process again, for greater efficiency and less risk of overcompression*

*Fines are directed back into the machine*

*Batch operations or continuous operation*

*Competing processors run batch operations with stop-and-go processing cycles.*

*WelchDry runs continuously for increased efficiency and cost-effectiveness.*