

# A Review on the Technology of Size Reduction Equipment

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**Abstract:** *Size reduction, also known as comminution, diminution, or pulverization, is the act of breaking down big solid units into small, coarse, or fine particles. There are numerous kinds of size reduction equipment that are frequently used in different contexts after being empirically created to handle particular materials. Since nearly all size reduction strategies involve developing new surface area, which necessitates adding energy proportional to the bonds holding the feed particles together, hardness is likely the most significant property determining size reduction. In addition to the milling process's usual changes. The benefits and drawbacks, mechanisms, theories, methods, developments, and therapeutic uses of size reduction technologies are highlighted in this systematic review*

**Keywords:** milling solid particles, absorption, impact, attrition, size reduction