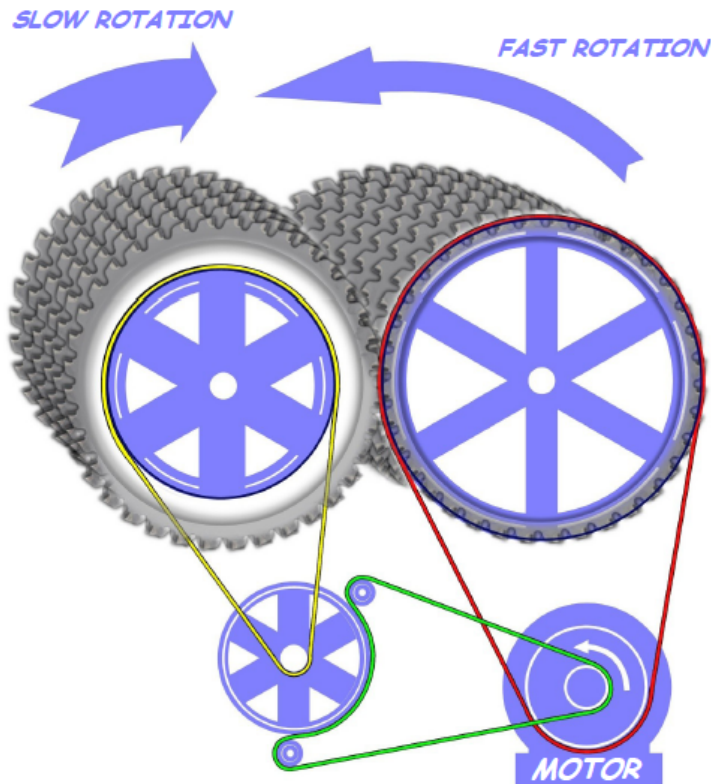
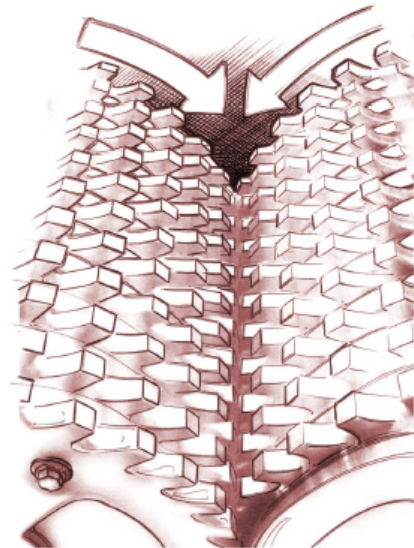


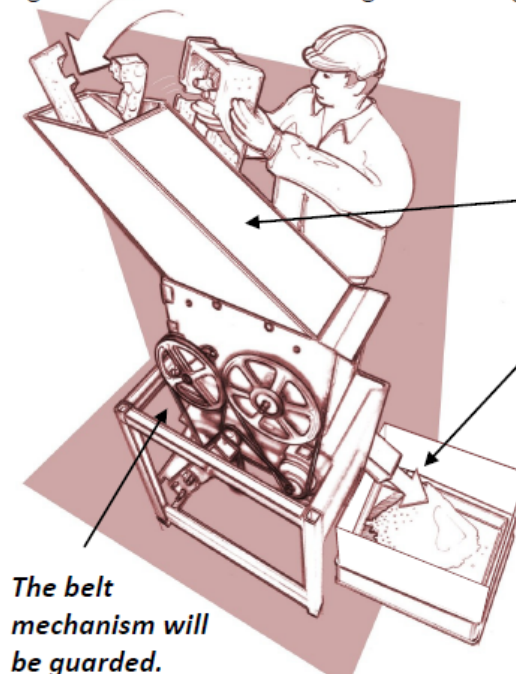
SHREDDING MACHINE FOR EXPANDED POLYSTYRENE WASTE



A shredding machine designed to convert blocks of waste Styrofoam into graded particles similar in size to fine sand and clay-like dust. The special shredding rollers are built up from a stack of laser cut toothed discs with plain discs sandwiched in between. Although the toothed rollers appear to engage, they actually rotate at very different speeds, creating a shearing action. It is powered by a small single phase (domestic sized) electric motor.



For simplicity and economy the differentially rotating rollers are powered from a single electric motor which drives the slower roller in the opposite direction, pinching the material after drawing it into the gap.



The use of a lengthened feed hopper is a safety measure preventing the operator from getting hands or fingers too close to the rollers.

The output is a mixture of several sizes of particle from equivalent of medium gravel to dust which are separated by sieving.

STATUS OF DEVELOPMENT:
Primarily made from laser-cut steel sections, machined metal parts and standard bearings and drive belts the shredder is sufficiently developed to be sold to order.

CURRENT OUTPUT CAPACITY:
Output capacity of graded expanded polystyrene particles is approximately 1.5 Cubic metres per hour. With a more powerful electric motor (up to 5KW) capacity will increase four fold.

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