

Piyapong Sriwongras 2009: Design and Development of a Pull Type Compost Turner.
Master of Engineering (Mechanical Engineering), Major Field: Mechanical Engineering,
Department of Mechanical Engineering. Thesis Advisor: Associate Professor
Thanya Kiatiwat, Ph.D. 200 pages.

Compost turner process is one of the most important process of the commercial bio-compost production. Due to its costly and labor intensive task, a pull type compost turner attached to a 70-90 hp tractor is needed and imported to be employed in Thailand. However, the machine was found to be quite expensive.

Based upon the testing and evaluations of the imported pull type compost turner attached to a 70-90 hp tractor in the local field conditions, the major deficiencies can be summarized into 2 main categories. First, the local field conditions were not quite compatible with the utilization of the machine. Secondly, the hood structures and their associated parts were found to be damaged. Therefore, the design and development of this pull type compost turner were done in order to obtain the better machine effectiveness and efficiency.

The design and development of the pull type compost turner were done basically using the local machine components and materials. After the design and development of the pull type compost turner were done, the mechanical drawings, readily for fabrication have been developed.

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