



The Equipment

The CRT 1250 compost row turner is designed and manufactured by G-force Consulting Engineers BV for use in the Composting Industry. This unit was custom designed by G-force for its sister company Environmental Remedies who provide bioremediation service for the Oilfield Industry, in particular to treat oily waste by-products from Drilling, Production and Refining operations.

Operating principle

Successful composting of oily solids waste is dependent mainly upon the induction of oxygen in the row matrix to insure optimum microbial growth and activity under strict aerobic conditions. An important secondary requirement involves proper row irrigation and moisture control through water/nutrient injected at the same time of row aeration. These two elements are paramount to maintaining the life of the micro-colonies responsible for maximum hydrocarbon decomposition in the shortest timeframe. To achieve complete oil solids waste declassification in the optimum timeframe of 90 days requires excellent control of air and water maintenance in the compost rows. The CRT 1250 meet

this requirement through its tunnel design enclosure with its adjustable speed aerator turner, due to its special flight tip design, and fixed nutrient spray injectors. The unit is capable of processing 1250 m³/hr of compost or a yearly yield of 90,000 m³ covering the oily solids waste volumes of most major oilfield operations.

Design criteria

The main design parameters of the CRT 1250 are its dual drive system, powered by two water cooled diesel engines, each mounted in soundproof enclosures. One engine is used to power the automotive drive and the second engine powers the adjustable speed aerator turner. All components are driven hydraulically and controlled from a centralized operator's position. The unit is constructed for rugged use in consideration of a 24-hour work day over a 365 day period if required. It includes all features for ease of maintenance and reliability under conditions typical of materials handled in these operations. Safety features are in accordance to Dutch Industrial Standards.

