Manufacturing Insights of Vermigold Organic Digester® – A World Class Award Winning Organic Waste Composter

Outstanding Products start with Great Designs!

FORM ✓
FUNCTION ✓
SAFETY ✓
SUSTAINABILITY ✓
QUALITY ✓
COMMERCIALITY ✓
INNOVATION ✓
GOOD DESIGN Selection

Winner of Australian Good design Award – Celebrating Design Engineering Excellence

The Organic Digester® has received the prestigious Australian Good design award by an International panel of Design Engineers.

Judges evaluate products against criteria including standard of manufacturing and attention to detail and finish, suitability of materials used, durability, value for money, construction, comfort of use, safety factors and overall appearance. Products meeting the rigorous criteria are awarded the Australian Design Mark.

World Class Manufacturing

The Organic Digester® has been designed and developed by Tat-G Corp Pty Ltd, Australia and manufactured in India by Vermigold Ecotech Pvt Ltd. The Organic Digester® is manufactured at a world class factory in India using **lean manufacturing** techniques that involve high levels of automation to maximize productivity and minimize wastage. Steel thickness ranging from 1.6mm to 10mm are utilised in the construction of this highly engineered unit. **All raw materials used can be 100% recycled at the end of their life ensuring peak sustainability across its entire life cycle**.

The CNC Edge

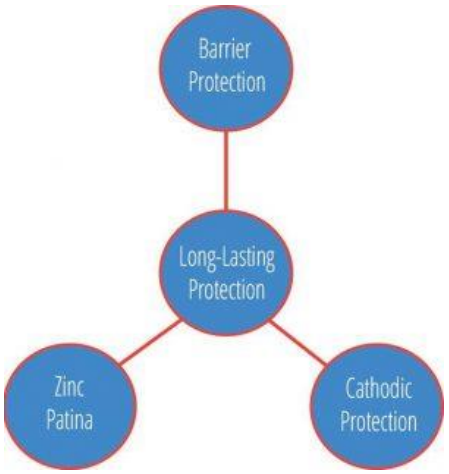
At the heart of the manufacturing process are the Computer numerical control **(CNC) laser cutting and bending machines from Germany/Japan**. These machines are highly accurate and manufacture the components to a very high level of accuracy consistently.

The CNC edge ensures consistent product quality at scale across all models repeatedly. Since CNC technology is very accurate, it reduces errors from the manufacturing process and eliminates unnecessary waste.

Hot Dip Galvanizing – For Superior Component Protection

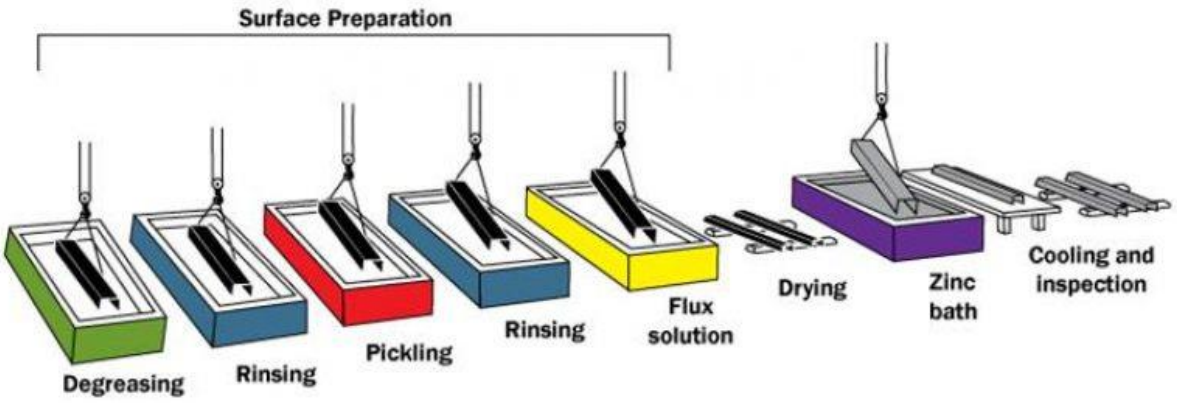
The Vermigold Organic Digester uses Hot Dip Galvanised steel for its construction. Internal components coming in touch with moisture are Stainless steel SS304. **Hot dip galvanised steel provides long service life at competitive costs**.

Hot Dip Galvanizing is formed by dipping steel in molten zinc, **all parts of the surface of the steel are coated – inside, outside, awkward corners, and narrow gaps which would be impossible to protect in any other way**. The coating actually tends to build up at vital corners and edges – rather than thinning out as do brushed, sprayed and other dipped coatings.



Zinc coating corrodes preferentially to provide cathodic (sacrificial) protection to any small areas of steel exposed through drilling, cutting or accidental damage; scratches are sealed by weathering products from the zinc.

The coating weathers at a very slow rate giving a long and predictable life.



Exceptional components for long lasting performance

All Organic Waste Digester® models from 2 cell upwards carry Bluescope Australia Colorbond® colour coated roofing as standard components.

This hard-wearing material is **lightweight, extremely long lasting and has high tensile strength**. The roof sheets are designed to wick away rainwater; there is less chance of leaks inside.

Colorbond® sheets incorporate Thermatech® technology that optimises the solar reflectance properties of the roofing material. With better insulation, this reduces the temperature inside the Organic Digester®.

CKD (Completely Knocked down) form of delivery

The Organic Digester® comprises of 200+ different parts that are packed in a wooden crate for delivery to customer locations. The system is then assembled and erected at preferred customer location by company authorized technicians. **Advantages of CKD delivery are savings in transportation cost** and flexibility to install the system at any location and **overcomes the drawbacks of traditional fully built shipments**. The wooden crate also ensures safety of the components during transit.

Fully Built Vermigold Organic Digester® at Infosys Mysore after installation.