ABSTRACT

The present invention provides an automated vertical rack system for cultivating circular economy biological organisms. The system comprises an automated vertical rack with multiple conveyor belts. The first conveyor belt intermittently transports biological organisms and material from a first starting point to a first endpoint. A second conveyor belt is positioned below the first endpoint, with its second starting point receiving the biological organisms and material, intermittently transporting them to a second endpoint. This system employs a drop mechanism to automatically overturn organisms and material, breaking up clumps and promoting even mixing, thereby improving cultivation efficiency while reducing equipment costs and wear. It is suitable for sustainable cultivation management of circular economy biological organisms.

(Fig. 1)