INDUSTRIAL TRAY FOR INSECT FARMING

LARVBOX

The BSF tray designed by people who produce BSF.



17.2 L
usable volume per tray

+12%
more substrate and larvae than the standard 145 mm tray

17 high
on a pallet, no racks; up to 24 in automated plants

−78%
stack height when empty: turned 180°, it nests into the tray below

01 · SPECIFICATIONS

External dimensions	**600 × 400 × 170 MM**
Usable volume	**17.2 L**
Weight	**≈ 1.0 KG**
Material	**Polypropylene (PP)**
Colour	**Pine green**
Washing	**Pressure water, up to 100 °C**
Species	**Black soldier fly · suitable for mealworm**

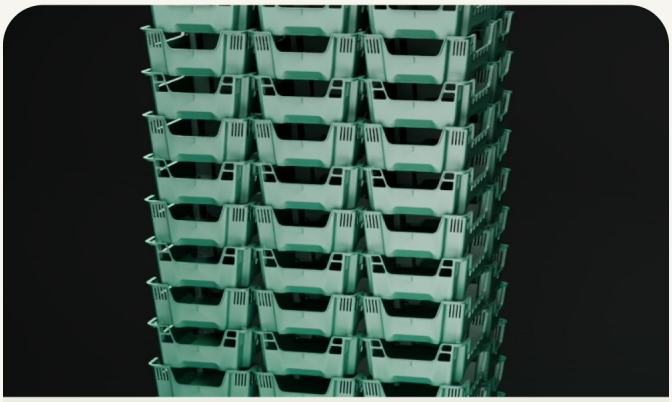
02 · ENGINEERED FROM THE INSIDE

We designed it in our own black soldier fly plant in Cañaveras (Cuenca, Spain). Every tray goes through **416 handling operations a year**: 8 per 7-day cycle, 52 cycles. Every detail answers one of them.

- **Four seating points.** A full stack moves on the pallet truck as a single block.
- **Smooth walls, a continuous floor and wide radii.** The substrate comes out in one piece and water reaches every surface.
- **Openings in the short ends** for the operator's hand and for a robot gripper.
- **One single part:** it stacks full and nests empty with a 180° turn.

03 · STACK FULL, NEST EMPTY

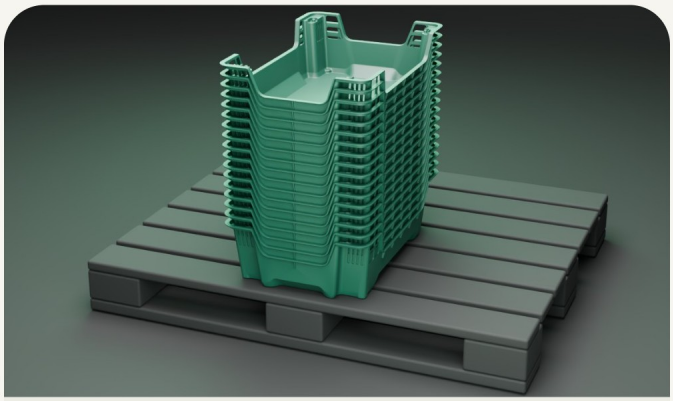
the same part, turned 180°



FULL · STACKED

NO RACKS

17	2.65 m	24
high, manual	stack without pallet	high, automated



EMPTY · NESTED

−78% HEIGHT

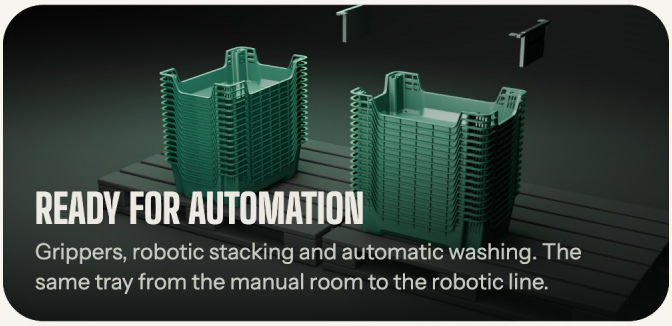
17	0.59 m	≈ 26.5
empty trays	total height	mm pitch

04 · LOGISTICS ON A GMA (US) PALLET · 1,219 × 1,016 MM

5	85	≈ 395	52
stacks per pallet	full trays per pallet	empty trays nested on a 2.40 m pallet	cycles a year, 416 handling operations per tray

05 · AGAINST THE STANDARD TRAY

FEATURE	LARVBOX	STANDARD 600 × 400 × 145
External height	**170 mm**	145 mm
Usable volume	**17.2 L · +12%**	15.35 L
Weight	**1.0 kg**	1.18 kg
Nests when empty	**Yes**	No
Seating points for stacks	**Yes, four**	No
Designed from a working BSF plant	**Yes**	No



READY FOR AUTOMATION

Grippers, robotic stacking and automatic washing. The same tray from the manual room to the robotic line.

Try it in your plant

REQUEST YOUR SAMPLE

Free tray, so you can see its quality and test it in production. Shipping paid by the customer.
hola@insecteat.es

Standard tray: Beekenkamp 6205, figures published by the manufacturer (beekenkamp-insect.nl, accessed 30/09/2026). Images: product renders.