



Technoset**bee**hive



The Beehive Evolution



Technosetbee

Introducing the Beehive Evolution



The first over-engineered beehive for:

- Superior strength,
- Life-long durability,
- Thermal stability,
- Increased production,
- Top rated hygiene
- Ultimate safety from pests & predators
- Full compatibility with wooden Langstroth beehives
- Lowest environmental impact
- Made in Europe
- 10 Year Warranty



Technosetbee
Redefining the “Multi-Purpose-Hive”

We have designed our hive to host in the most efficient way 2X5-frame or 3X3-frame nucleus.
Combine, split, mate, feed and raise your bees like never before.
See page 9 for more information.



The Beehive Evolution

The Company

Established in 2004 Technoset Bee is the leading supplier of high quality and cost effective beekeeping products.

We design, manufacture and sell to beekeepers around the world.

Years of research and development have resulted in design patents being secured on our products.

We maintain our focus by working with beekeepers to ensure that all of our products provide practical solutions whilst improving the quality of life for both the bees and the beekeepers alike.

Our Philosophy

Driven by the love of bees and care for the beekeeper, we built the strongest and most versatile beehive fulfilling all beekeeping needs of the new era.

Technosetbee hives provide the safest structure against all possible predators.

Non-stop research, continuous field-testing in all environments and weather extremes, innovative solutions on every detail, using only the best raw materials available, are some of our commitments.

Setting the Standard

Twin-wall Polypropylene with 20mm EPS insulator fitted.

This triple-layer combination offers far better thermal insulation for the colony to work and thrive unobstructed in all weather extremes.

In our hives, worker bees are constantly foraging and accumulating food instead of consuming stored honey for cooling or warming up the hive.

This behaviour results in bigger yields of stored honey after every nectar flow, benefiting both beekeepers and bees.



Technosetbee

Evolution by Innovation and Technology

Built to meet the highest quality standards. Ours!

Best material money can buy

- Made of virgin food-grade Polypropylene
- Built-in UV sunscreen for stable colors
- BPA free
- Carbon footprint - PP produce significantly less CO₂ equivalents by weight than PET, PS and PVC
- 100% recyclable
- 10 Year Warranty

The innovative design

- Twin-Wall structure with 20mm EPS sheet, designed to withstand temperatures from -40°C to 100°C.
- Interlocking Pin System holds securely each component in place from sliding
- Patented Reinforced Hive Cover
- Single-piece molded Anti-Varroa Base Board
- Secure Entrances with locking mechanism
- Unique modular design allows to convert the brood box into 2X5-frame or 3X3-frame nuc hives





The Beehive Evolution

Why a Synthetic Beehive?

Polypropylene is the perfect material that meets our standards for top quality.

Polypropylene has been in existence for many years. As a beekeeping tool in Europe it has a service history of 30 years. It is chemically inert, will not corrode and is not affected by high or low pH or seaside (saltwater) environments. Polypropylene's physical and chemical properties have been extensively documented and will last for a period in excess of 25 years.

- Very durable with high impact resistance.
- Highly resistant to acids and alkaline.
- Non absorbent (hydrophobic) to vapour and water
- Zero maintenance: No paint, nails, glue or any kind of repairs ever needed.
- No invasive pests can live or hide on the surface of Polypropylene
- Any parts in contact with disease can be simply washed with a Hot Water Blaster and sterilised with a Chlorine solution
- Excellent thermal insulating characteristics
- Documented durability for two decades in all weather extremes
- Highly resistant to fungus/mildew
- Food safe
- Superior overwintering properties



Technosetbee

Evolution starts with Benefits

Over-engineered

Why over-engineer the Technosetbee™ hive?

- Simply, because we do care for the bees and all beekeepers around the world who need a flawless and maintenance-free working tool.
- We have “over-engineered” every detail on all of our products to be extremely precise in dimensions and compatibility.
- Our philosophy is based on strict criteria for accessing only the top-quality raw materials.
- No other synthetic or wooden hive can outperform Technosetbee’s robustness, performance, vast range of modularity and versatility.
- For us, there was only one possible approach to construct a truly heavy-duty, Multi-Functional hive. Only by over-engineering it!
- The roof has built-in air vents to allow the bees to control air-flow in the hive. The vented floor also allows good air flow as required. This prevents the build-up of condensation and damp conditions in the hive. Nosema and Varroa are much less likely to cause any problem in the dry and hygienic environment.

For the beekeeper

Designed by beekeepers for beekeepers

- Zero initial preparation (No more gluing, nailing, painting, caulking).
- Zero maintenance. Easy cleaning with a hot water pressure washer. If further sanitation is required, can be done with a thin dilution of chlorine and water).
- Superior efficiency in production process.
- In our hives the queen will often lay eggs on the outside frames. This is in contrast to wooden hives where the outer frames become too cold or too hot for the brood to develop properly.
- Most durable structure on the market. Molded without any corner joints. Safely twist and pry the frames without the risk of damage to the walls of the Super.
- All parts are 100% compatible and interchangeable with the existing Langstroth full-depth wooden hives.
- Impenetrable structure. Will last for many, many years against assaults from insects and rodents. Even a bear can not open (if hinges are properly locked) or damage the integrity of our hive.
- Solid State structure without any moving parts. Nothing will break or bend from normal usage.



The Beehive Evolution

For the bees

Driven by the love for the bee

- 30% more honey stored annually. This surplus occurs naturally and is due to the fact that the colony consumes less energy (honey) throughout the year to accurately sustain their core temperature.
- 25% increased brood development starting in early Spring.
- Pest free. Polypropylene surface has no cracks like wood. Nothing can hide in it.
- Hygienic. Polypropylene repels water and vapor, therefore it won't develop any conditions to harbour mildew or any sort of fungi.
- Superior overwintering conditions for the colony. Zero losses from cold/harsh weather
- Very little propolis or burr wax is built by the bees on the inner surfaces.
- Very little fanning and water transportation required during the hot summer days.
- Entrance doors are designed for the ultimate protection against all predators. Incorporated locking mechanism secures the colony for transportation. Excellent for wasp control in the Autumn.





Technosetbee

Queen Rearing

Q8 - Queen Mating Nucleus

A marvel of engineering!

The queen breeding “machine” is here to boost your productivity. Removable dividers allow you to expand or shrink internal space. Overwinter mated queens and supply your nucs in early spring.

Weight: 15.4 Kg
Product Code: 950-0051



8 Independent chambers ready to receive mature queen cells on a Tri-fold frame.



8 independent top feeders for solid and liquid feed supplements. Fit neatly inside the roof.



Technosetbee Tri-fold frame

This unique full depth frame, unfolds to a standard size Langstroth allowing the beekeeper to transfer the entire population, brood and supplies into a new hive. Provision is made for 2 wires to secure the comb foundation in each section.

Product Code: 950-0051.1

Colored entrances with landing boards are used to avoid drifting. Queen excluders are included, and can be fitted to the entry, to prevent accidental contact with other mated queens.

Flip-up the landing boards (locking position) for safe transportation.

The Q8 is priced as a complete kit and is fully assembled with a floor and roof.

Outer dimensions (excluding the latch): 560mm x 435mm x 415mm high.





The Beehive Evolution

Convert the brood box in the most efficient way to start nucleus hives.
 Nucs of that size require a lot less care and attention than smaller ones.
 During winter, the hives can share the warmth generated within the full depth brood box.
 In the case of a lost queen we can peacefully merge the colonies by eliminating the divider.
 There are separate entrances and dual feeders for each colony.
 Middle top feeder of 3X3 KIT incorporates the third entrance oriented to the opposite end.

2X5-frame nucleus



Technosetbee 2X5 KIT Contains

- 2 Top inner feeders (solid/liquid)
- 1 Divider
- 2 Front Reduced entrances with sliding door

Weight: 1.9 Kg

Product Code: 950-0026

3X3-frame nucleus



Technosetbee 3X3 KIT Contains

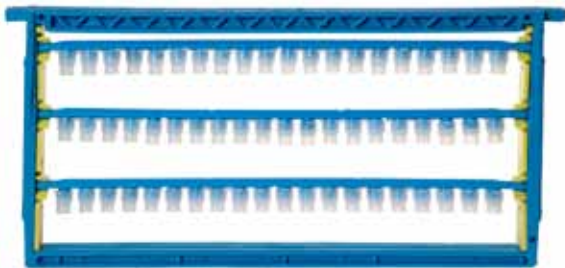
- 3 Top inner feeders (solid/liquid)
- 2 Dividers
- 2 Front reduced entrances with sliding doors

Weight: 2.7 Kg

Product Code: 950-0025

Frame with Rotating Cell Bars

The perfect tool for easier larvae grafting and Royal Jelly production.



Product Code: 950-0055



Features:

- Holds up to 60 cell cups
- 360° rotating bars



KIT includes:

- 3 cell bars
- 60 cell cups
- 1 modified full depth frame.



Extra cell cups are available in packets of 60. Product Code: 950-0057



Technosetbee

Automatic Water Feeder for Apiaries

The first water feeder designed for bees!

The importance of fresh and unpolluted water near the bees has been widely misunderstood among the beekeeping community today.

Under normal conditions a productive-size colony (around 60,000 bees) needs nearly 2 litres of water every day for cooling, feeding, diluting and maintaining the right level of humidity inside the hive for good larvae growth.

It takes around a thousand bees to participate and carry this load. By obtaining clean water nearby, the colonies use up less precious resources from the hive.

Secure your apiary's hygiene! Puddles in orchards usually contain spray residues and are frequented by bees if there are no alternatives!

Features:

- Food-Grade Polypropylene (PP) Twin-walled
- Adjustable water level
- Replaceable ball cock valve
- Floating PVC landing board that prevents bees from drowning
- Connects with any local fresh water supply system or water tank.
- 10 Litre capacity
- 5-year Warranty
- Dimensions: 495mm long x 390mm wide x 205mm high

Product Code: 950-0033



Top Feeders

Technosetbee's top feeders are praised by beekeepers all around the world for their superior design and robustness. Fit neatly inside the roof



Technosetbee Dual Top Feeder - 2 litre

Air vents along each side
Elevated cap to avoid leakage
Dry (pollen patties, fondant) and liquid (syrup)

Weight: 1.2 Kg Height: 65mm
Product Code: 950-0032



Technosetbee Top Feeder - 4 litre

Air vents along each side. Elevated cap to avoid leakage. Centre cap can be removed to allow bee access to the top chamber when feeding sugar crystals is required.

Weight: 1.1 Kg Height: 53mm
Product Code: 950-005

**Technosetbee recommend that the top feeders are left on the hives all year round for the best results and hive management.*



Technosetbee

Pollen Trap Systems

Collects and stores safely up to 70% of the incoming pollen



Technosetbee Internal Pollen Trap

Consisted by four interlocking parts.

The base, the active plate, the upper protective cover to prevent contamination from the frames above and two trays responsible for holding the collected pollen dry. Active plate and protective cover can be removed at any time by sliding them outwards freeing the entrance until the next scheduled collection. Incorporates a drone side entrance with a secure sliding door.

Two trays will hold up to 400 grams of pollen.

Weight: 2.2 Kg

Product Code: 950-0020



Mouse proof!



Technosetbee External Pollen Trap

Designed to fit onto most beehives.

Removable pollen collection tray holds up to 400 grams of pollen.

Active plate can be by-passed through a movable front door controlled by a side-lever until the next scheduled collection. Incorporates a drone side entrance with a secure sliding door.

Weight: 1.2 Kg

Product Code: 950-0058





Technosetbee

Bee Escape Boards



Technosetbee Bee Escape Board (Twin Valve)

This Bee Escape board is an excellent way to clear out the honey super before the harvest. Place the board between the brood chamber and honey super. Allow up to 24 hours for bees to clear out and then remove.

Features:

Two valves for increased performance and safety.

Weight: 1.390 Kg

Product Code: 950-0015



Technosetbee Bee Escape Cover (Lid) Type

The Bee Escape cover makes stray bee removal during the honey harvest very easy and fast. Designed to be used on top of stacked honey supers, after they are removed from the hive.

The featured semi-transparent valve on top allows the ambient light to pass through and attract the trapped bees. Takes no more than 15 minutes for any stray bees to exit before transporting the honey supers.

Weight: 1.350 Kg

Product Code: 950-0016

Floors



Technosetbee Anti-Varroa Floor

Very sturdy construction with a vented base. This allows better ventilation in the hive and for the bees to control humidity more efficiently. Allows excellent ventilation when shifting beehives. The plastic dowels locate the Technoset Supers. The dowels can be removed and the floor has 4 spigots built into the floor to locate standard wooden equipment.

Product code: 950-0006

Standard Entry Guards

As shown in the image above. These are locked in place by the Super. The purple piece clicks down to prevent bee movement while shifting.

Product Code: 950-0002.1 (For a left & right pair)



Reversible Entry Guards.

These can be slid out and rotated 180 degrees without moving the Super.

Product code: 950-0002 (Pair)

Standard Solid Base Floor also available.

Product Code: 950-0001

Autumn Wasp Control

A pair of Entry Guards are included with each floor base. You choose which style you want.

They prevent wasp entry and can be switched to prevent bees escaping while shifting a hive. Will also keep Mice out. They can be removed during the honey flow.



Technosetbee

Queen Excluders

Precisely molded and user-friendly for the worker bees.

Technosetbee's famous queen excluders are precisely molded to be very friendly for the worker bees. Every opening is identical in size and rounded without any sharp edges.



Technosetbee Single Queen Excluder

Innovative entrance with landing board and detachable gate/reducer allowing the worker bees to have direct access to the honey supers.

Weight: 0.4 Kg Thickness: 10mm
Product Code: 950-0028



Technosetbee Double Queen Excluder

For running two-queen hives. Eliminates any risk of the queens contacting. Safely combine the foraging powers of two colonies.

Weight: 0.6 Kg Thickness: 10mm
Product Codes: 950-0028 and 950-0028.1



Technosetbee Top Entrance for Honey Production

The hives with top entrances outperform the other hives in two ways:
There is less brood chamber congestion from honey and more surplus honey stored in the honey supers.

Weight: 0.3 Kg Thickness: 10mm
Product Code: 950-0049



Technosetbee Merging Board

This insulated PP board allows two colonies to be safely united.

Thickness: 10mm
Product Code: 950-0006.1
Product Codes: 950-0028 and 950-0018.1

Standard queen excluder without landing board also available. Product code 950-0004 Thickness: 3mm



Technosetbee

Vertical Queen Excluder



Technosetbee 3-Frame Vertical Queen Excluder
Reduce the queen's laying area to 3 full depth frames.
For increased honey production and brood control.

Weight: 0.35 Kg
Product Code: 950-0052

Propolis Collection System



Technosetbee Propolis Collection System
The semi-transparent cover is designed to let the light in which stimulates the bees to quickly fill the specially designed mat with fresh propolis.
The semi-transparent cover should not be used in hot weather.

Weight: 0.35 Kg (Propolis mat only)
Product Codes:
Propolis mat: 950-0017
Propolis mat semi-transparent cover: 950-0005

Overwintering Board



Technosetbee Overwintering board
A unique inner board with two circular air vents. The perfect tool to help overwinter a weak colony on top of a strong colony and utilize the additional heat that is generated. An upper entrance (950-0049) should be fitted on the top colony and oriented to the opposite (rear) side.

Weight: 1.2 Kg
Product Code: 950-0059



Technosetbee

Frames



Technosetbee Langstroth Full Depth #1

Constructed to withstand temperatures of +100°C. Very sturdy construction for long life. The end bars have 4 holes and are perfectly aligned to allow ease of wiring. Can be used for brood or honey production.

Weight: 0.33 Kg

Product Code: 950-0008



Technosetbee Langstroth Full Depth #2

This revolutionary frame is designed for honey comb production. The beekeeper simply cuts a sheet of wax foundation in half and inserts each piece through an opening in the top of the frame. A plastic capping locks it into place. When honey is capped, simply slice with an electric knife. End bars are 36mm wide.

Weight: 0.35 Kg

Product Code: 950-0023



Technosetbee 3/4 Depth Frame

For the medium brood box. 4-piece frame quickly locks together enabling beekeepers to assemble faster than ever. Light, strong and long-lasting. Can be used for brood or honey production.

Weight: 0.26 Kg

Product Code: 950-0036



Technosetbee Shallow Frame

For the shallow brood box. 4-piece frame quickly locks together enabling beekeepers to assemble faster than ever. Light, strong and long-lasting. Can be used for brood or honey production.

Weight: 0.25 Kg

Product Code: 950-0038

See page 19 for frame dimensions.



Technosetbee Accessories



Technosetbee Metal Carry Handles

Moving a hive full of bees and honey on uneven ground or difficult terrain can turn into a nightmare for anyone. They are designed to attach and lock securely under our base boards. Move big heavy hives with ease without damaging your back. Tough zinc plated steel construction.

Dimensions: 340mm x 325mm x 85mm.
Weight: 1.1 kg
Product Code: 950-0024 (Pair)



Technosetbee Hive Stand

Hive stands are designed to protect the colonies from humidity, floods, predators and pests. The elevated height also assists the worker bees for an easier landing especially in places where dense weeds grow. Standard height is 150mm.

Weight: 3.3 kg
Product Code: 950-0021



Technosetbee Electric Branding

Mark your hives and frames with your personal number or brand. They are custom built at the factory with your unique identifier code, and can be used on plastic or wooden components. 230 volt.

Weight: 3.3 kg
Product Code: 950-0029



Technosetbee Zinc plated hive connector

We offer the most efficient hive connectors, simple to use and ensure no unwanted surprises when moving hives regardless of the distances involved. They are an optional item and hives can be ordered with or without them.

Weight: 0.1 kg
Product Code: 950-0012



Technosetbee Feeder Valve

Feeding your bees has never been easier with our range of top feeders.

This valve allows you to quickly and efficiently fill the underlying feeder without moving the Hive cover. Simply open the cap and pour the syrup in. The syrup level is clearly visible so that you don't overfill.

Hive cover can be ordered from the factory with valve fitted (950-0007.1).

Compatible also with conventional hive covers up to a thickness of 13mm.

Thread Diameter: 41mm

Weight: 0.05 kg

Product Code: 950-0039



Technosetbee Q3 - Queen Cage

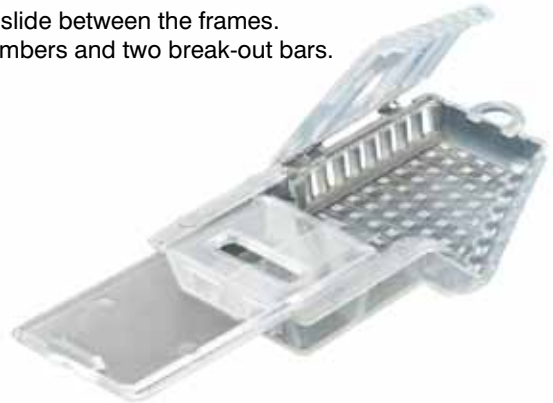
1. Capture: The perfect clamp (with soft rounded edges) to safely catch the queen and/or her attendants directly from the frame.

2. Transport: Spacious and well ventilated, our cages can be latched together to form blocks for mailing.

3. Introduce: Thin enough to slide between the frames. Equipped with two candy chambers and two break-out bars.

Weight: 0.02 kg

Product Code: 950-0053



Technosetbee Bee Brush

Our bee brush has very soft bristles so as not to harm your bees and will last for years.

Weight: 0.08 Kg

Product Code: 950-0048



Technosetbee Wasp Trap (Stainless Steel)

Wasps are significant pests for bees. Our answer to this problem is to remove the pest without the use of harmful chemicals and without endangering bees and environment. To bait, simply place a small piece of fish in the trap. Wasps enter the internal cone and are unable to escape, and die from the sun's accumulated heat.

Dimensions: 340mm diameter, 350mm high.

Weight: 1 kg

Product Code: 950-0014



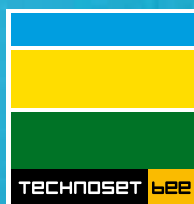
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Beehive Specs





	Component	Weight (grams)	Outer Length (mm)	Inner Length (mm)	Outer Width (mm)	Inner Width (mm)	Depth (mm)	Frame Length Top Bar (mm)	Frame height (mm)
①	Outer Cover Product Code: 950-0007	2850	517	466	420	375	80 (Height)		
②	Full Depth Brood Box Product Code: 950-0009	4190	512	465	412	370	242		
③	3/4 Depth Super Product Code: 950-0035	3460	512	465	412	370	193		
④	Shallow Super Product Code: 950-0009	2760	512	465	412	370	144		
⑤	Full Depth Frame Product Code: 950-0008	330			36 (End Bar)			481	230
⑥	3/4 Depth Frame Product Code: 950-0036	255			35 (End Bar)			481	177
⑦	Shallow Frame Product Code: 950-0038	250			35 (End Bar)			481	129
⑧	Anti-Varroa Floor with mesh base. Product Code: 950-0006	1870	543		418		90 (Height)		
Plate to block air vents in floor with mesh base. Product code: 950-0018									
⑧ _a	Solid Floor Base. Product code: 950-0001	1870	543		418		90 (Height)		





Techosetbee around the world



The Beehive Evolution

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