



SMART
HIVE



DAESUNG SMARTHIVE

HIVE CONTROLLER

Experience innovated and automated beekeeping system



DAESUNG



VISION

“The Best Automated Equipments and System in Apiculture”



DAESUNG prepares the future that better life through Apiculture.

DAESUNG has been conducting beekeeping research and development under the brand SMARTHIVE.

DAESUNG has been concerned that how to work in a more convenient way with beekeeping.



DAESUNG aims for easy beekeeping.

DAESUNG's engineers have an experienced in beekeeping and they keep trying to make improvements on the product benefiting everyone.

We would like to showcase various beekeeping automation machine products, starting from the equipment "Hive Controller"



We are doing our best for the development of the automated beekeeping equipment and system.



HISTORY

2016~2021 ○

CES 2021 Innovation Awards Honoree in Robotics

Selected as 6 R&D by the Ministry of Science and Technology
Information and Communication by the Small and Medium Business
Technology Information Promotion Agency

Jeonju University, Jeonnam University family company /
Korea Institute of Industrial Technology partner company

Awarded 9 cases including the Minister of SMEs and Startups Award
at the National Invention Competition

2020 ○

Established SMARTHIVE INC, a branch office in the US

Selected as a promising export small business in Jeonbuk

Selected as KOTRA Global Jump 300 Company

Selected as a promising company to enter the overseas
procurement market (G-PASS company)

Ministry of Science and Technology Information and Communication
K-GLOBAL@Silicon Valley K-PITCH (English IR)

Selected as a priority purchase recommendation business
for excellent inventions by the Korea Invention Promotion Association

New technology (NET) certification by Ministry of Agriculture,
Food and Rural Affairs

2021 ○

Selected as a global IP star company

Green technology certification and green technology product verification

Selected as KOTRA's overseas public procurement leading company
fostering business

Excellent patent-based innovative product designation project-Selected
as a recommended product by the Korean Intellectual Property Office
(Public Procurement Service)

Selected as Korea representative at SXSW pitching competition in Texas, USA

Participated in the 4th AgriWeek in Osaka, Japan

Participated in the Korean Pavilion at the Hannover Industrial Fair
in Germany [HANNOVER MESSE 2021]

WORLD IT SHOW 2021 - CES PR Hall, Minister of Science and Technology,
visited the company's booth and demonstrated products

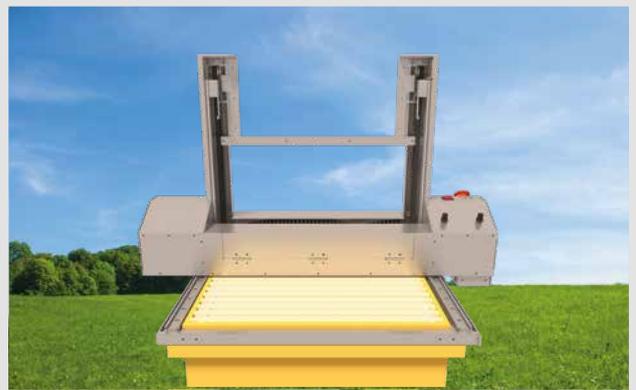
Participated in the "Innovative Product Experience Center"
at Lotte Hi-Mart CES (Seoul Lotte World Mall Jamsil Branch)

Hive Controller

HIVE CONTROLLER is easy to use for everyone (beginner to expert) in beekeeping.



That is automated and portable farm equipment for extracting the honeycomb from the beehive, brushing, and stacking. The traditional method is to extract the honeycomb from beehive manually, with at least two and up to five people for several days, 800 ~ 1000 honeycombs per 100 beehives. It is hard and inconvenience.



Even beginners in beekeeping can use extracting, brushing, stacking the honeycombs at the same time easily by press the button of HIVE CONTROLLER once.



HIVE CONTROLLER makes you to perform that **EXTRACT - BRUSH - STACK & STORE** easily in single process automatically with the **minimum number of labor**



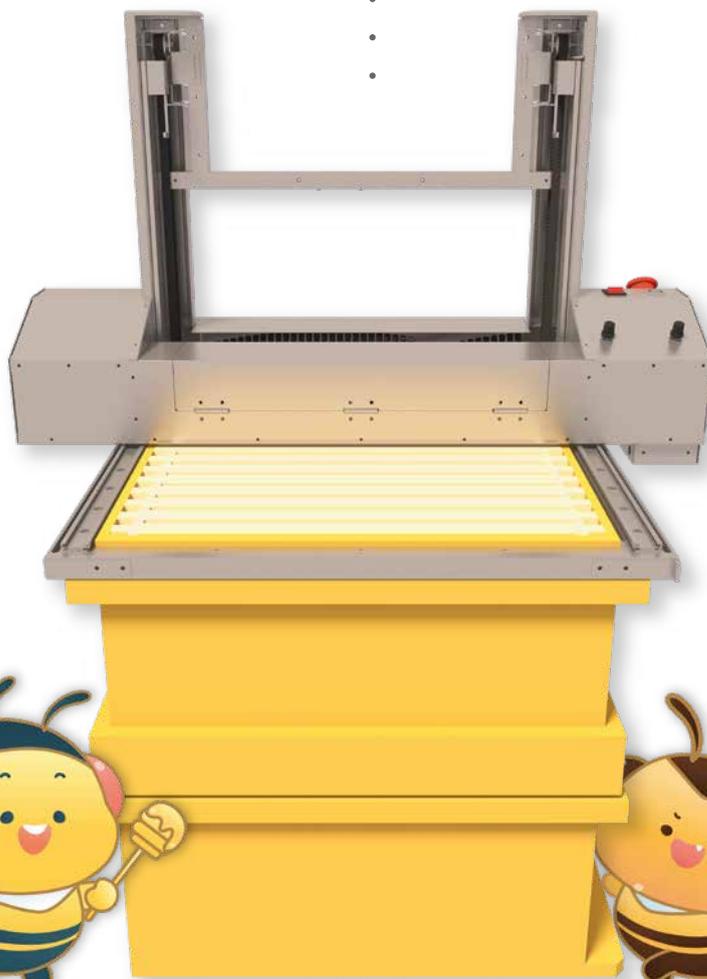
Automated and Portable Equipment for Beehive

“

Your wrists and arms **don't hurt and hard work** is greatly reduced If you work the same amount of time, you can work with **at least 30%** more beehives than before.

”

•
•
•



Hive Controller

Hive Controller makes Beekeeping easy.

Product Features

- Easy to Use - Even beginners can use with simple process.
- Simple Process - Install on the hive and press the button.
- 3 in 1 - Extracting, Brushing and Stacking in single process.

01. Extracting

Detecting the honeycomb inside the hive and extracts automatically. The sensor detects the wrong placed honeycomb.



02. Brushing

Using two insider stick brushes rotating at the same time, remove the bees from the honeycomb safely.



03. Stacking (optional)

The honeycomb pulled out from the hive controller is stacked to hanger in sequence.





Automated and Portable Equipment for Beehive

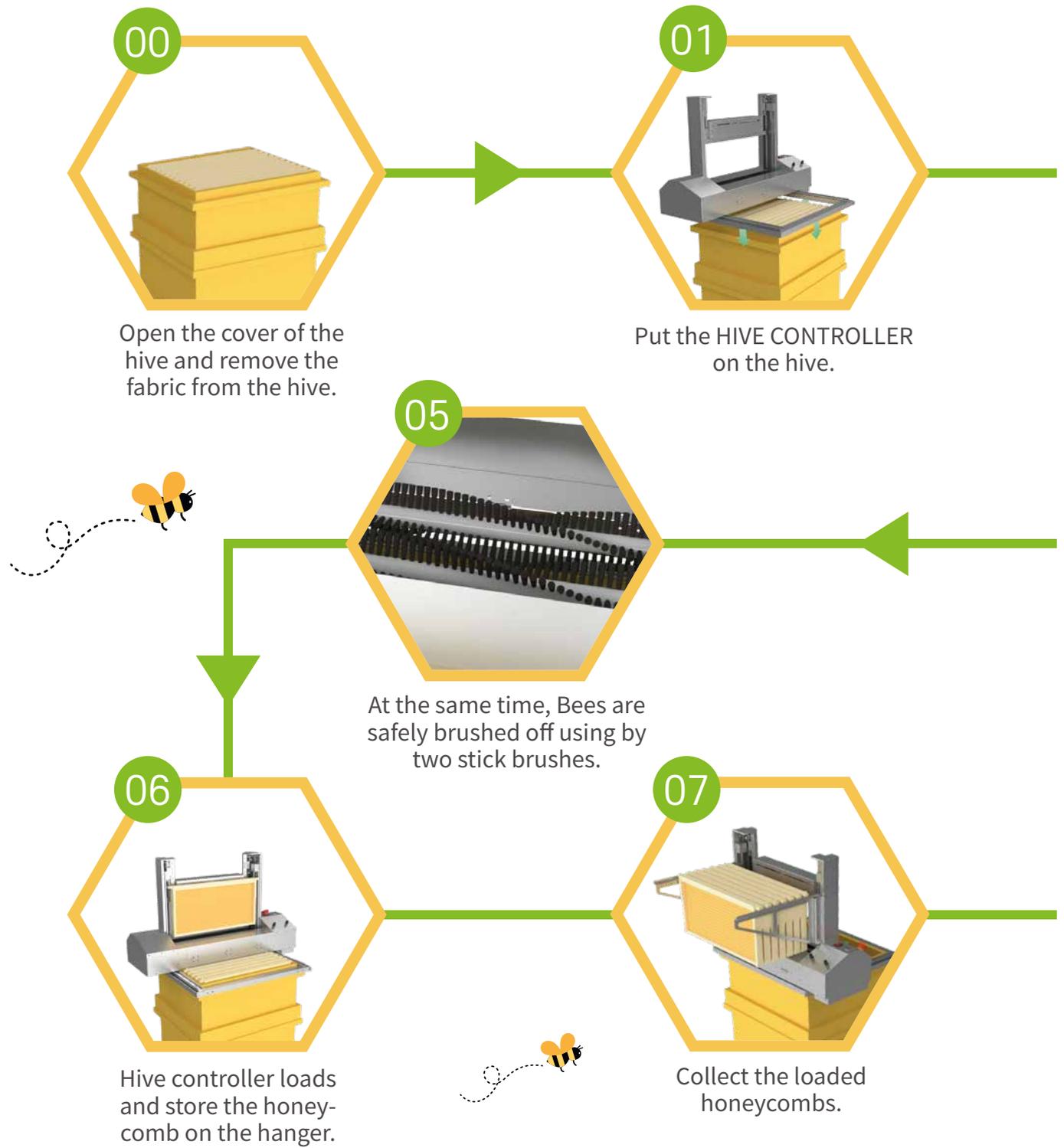
Product Features



- To perform the operation working time per beehive is about 1 minute.
- The operation processing is easy.
- HIVE CONTROLLER weight is as light as lifted with one hand.
- The brushes (bee brush) attached to the HIVE CONTROLLER is each to put on and take off and can be cleaned at any time.
- You can choose to use for connect that battery pack or adapter.
- The battery pack weights about 2kg. (optional)
- You can work in about 50 honeycombs with one battery pack.

Hive Controller

How it works





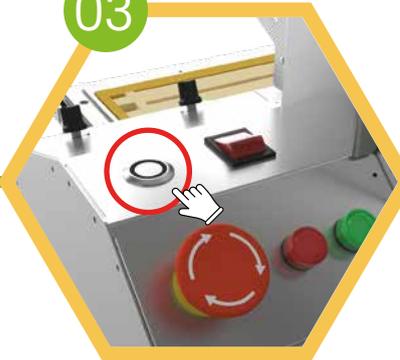
Automated and Portable Equipment for Beehive

02



Turn on the power switch of the HIVE CONTROLLER.

03



Press Start button.

04



HIVE CONTROLLER extracts the honeycombs from hive.

08



Collect the extracted honeycombs

Emergency



If an emergency occurs during operation, the product can be stopped by pressing the emergency button.



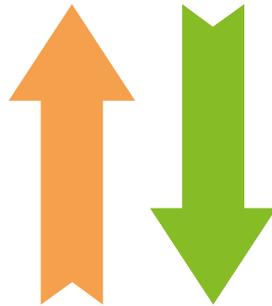
Pull up the emergency button and press the start button then the product works again.

Hive Controller



“ With Hive Controller ”

**Productivity
Efficiency Increase**



**Labor cost
Labor intensity decrease**



Work standard	Conventional way	Hive Controller
Required Manpower	2 people more 	1 person
Working Time	120 seconds 	60 seconds
Labor Intensity	High (manual) 	Low (automated)
Proficiency	Expert Required difficult manpower supply	Everyone Easy manpower supply



Automated and Portable Equipment for Beehive

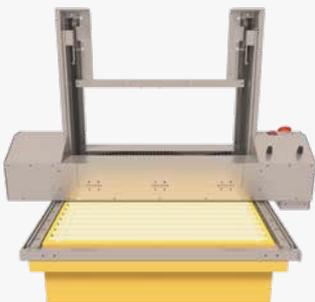


◆ Product specification

- Product Name | Hive Controller
- Product Company | DAESUNG
- Size | 820 x 560 x 510 (W x D x H mm)
- Weight | 9kg (Power Supply)
- Voltage | 24V DC Adaptor (Power Supply)
24V DC Battery (Optional)
- Material | Aluminum

◆ Packaging

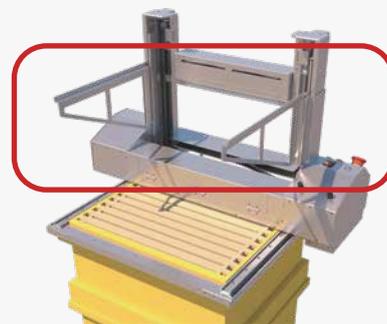
- Body



- Power Supply



- Auto Palletizer(optional)



- Warranty Card
- Manual

FAQ (frequently asked question)



Q1. What is HIVE CONTROLLER?

The HIVE CONTROLLER is automated and portable farm equipment for extracting the honeycomb and brushing the bees.

Q2. Why do we need the HIVE CONTROLLER?

The HIVE CONTROLLER is making your beekeeping comfortable and easy. Even the beginner in beekeeping can use then you can save your time and cost when you work with the HIVE CONTROLLER. Your wrist, and arm do not hurt. If you work the same time, about 30 ~ 100 percent more hives than ever before.

Q3. Is the HIVE CONTROLLER can lift the honeycomb with full of honey, lot of propolis and beeswax?

Yes, it can lift the honeycomb with full of honey and attached lot of propolis and beeswax.

Q4. Is the HIVE CONTROLLER does not hurt (smashed or killed) the bees?

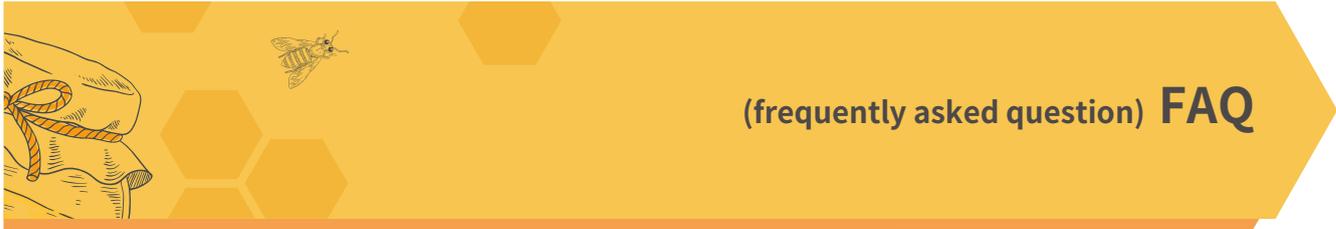
The brushes of HIVE CONTROLLER are soft and designed to unhurt and safe for the bees.

Q5. When can we use the HIVE CONTROLLER?

Extract and brush the honeycombs before extract honey. Check the honeycombs condition or not infected to see. ETC.

Q6. How many honeycombs can extract (work) with one battery pack?

One battery pack can work on about 50 hives. And It takes about 4 to 5 hours to fully charge.



(frequently asked question) **FAQ**

Q7. I used the different sizes frame of honeycombs that what you showed us. Is it possible to use?

The Hive Controller can be used to fit most of all types of beehives in Korea. Standard beehive (Langstroth beehive) standard, ± 5 mm or more, thickness of the hive 15~25mm can also be used for differences. However, if the size is significantly different from the standard beehive standard, it is not recommended to use. It may be limited, but custom-made according to the size is possible.

Q8. How much time will be taken for full charging for one battery pack?

About 2 hours will be taken.

Q9. When can we use the HIVE CONTROLLER?

Traditional beekeeping requires at least 2~5 professional beekeepers. It takes 4-8 hours to work on 150 beehives. However, with Hive Controller, you can finish the work in 5 hours with a minimum number of people. When using the Hive Controller, you only need a single operator and a battery pack. Tough beekeeping becomes much easier.

Q10. Can the Hive Controller be cleaned and used?

The stick brush attached inside the Hive Controller is easy to remove and attach, so you can clean it at any time.

 If you want more information or have any questions, please visit our Social Media and website.



SMARTHIVE Hive Controller

Experience the easy and convenience beekeeping system

with **DAESUNG | SMART HIVE**

The Best Automated System of Apiculture

DAESUNG

147, Daehwa-ro, Daedeok-gu, Daejeon, Republic of Korea

109, Ballyong-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea

TEL | +82 70 4354 4504

E-mail | ceo@smarthive.co.kr

WEBSITE | www.smarthive.co.kr

 <https://youtube.com/smarthive>

 www.facebook.com/hismarthive

 www.instagram.com/smarthive_kr

