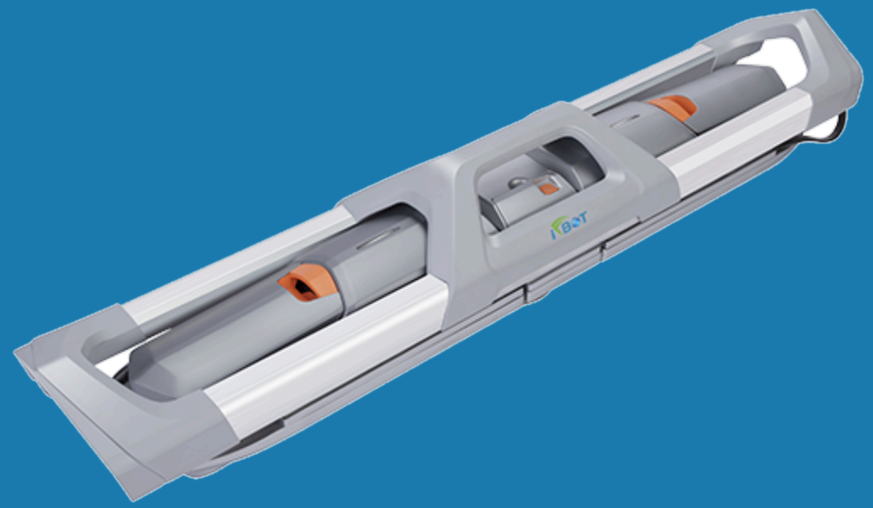
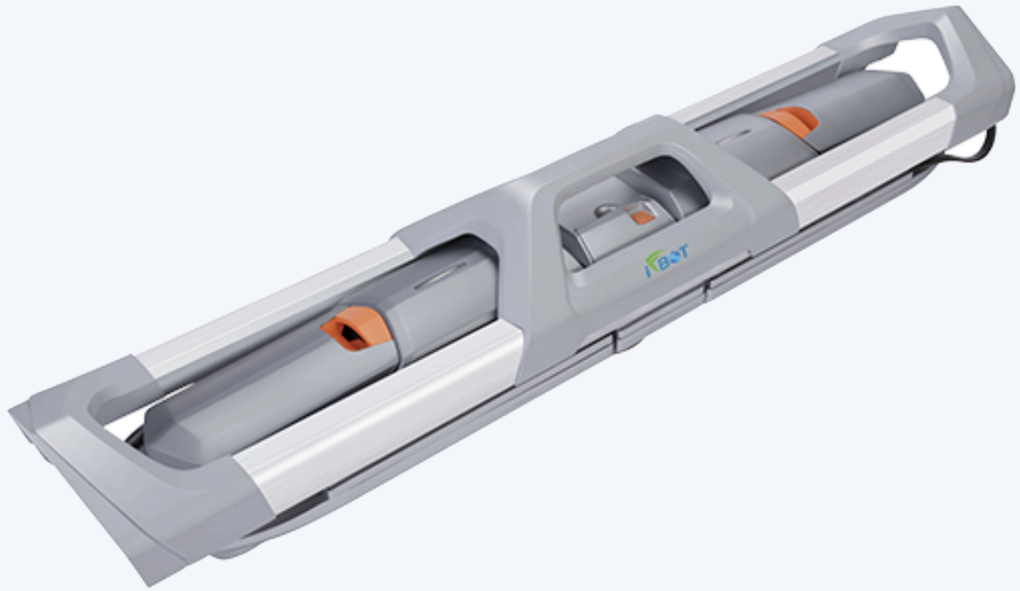
IFBOT X3 • DRY-CLEAN SOLAR PANEL ROBOT

Go where others can't.



DRY CLEAN • STEEP, TIGHT AND WATERLESS SITES

IFBOT X3



Nano-brush dry clean

Autonomous run

Bluetooth app remote

Returns to lowest position on low battery

Self-cleaning brushes, dust tank prevents re-soiling

Watch the X3 in action: youtu.be/ySQ0_MhP02Q

6.2 kg
Light enough to carry anywhere

30 m²/h
About 0.005 MW cleaned per hour

8 h
Continuous run, hot-swap dual battery, approx. 5 h recharge

0-45°
Panel tilt range

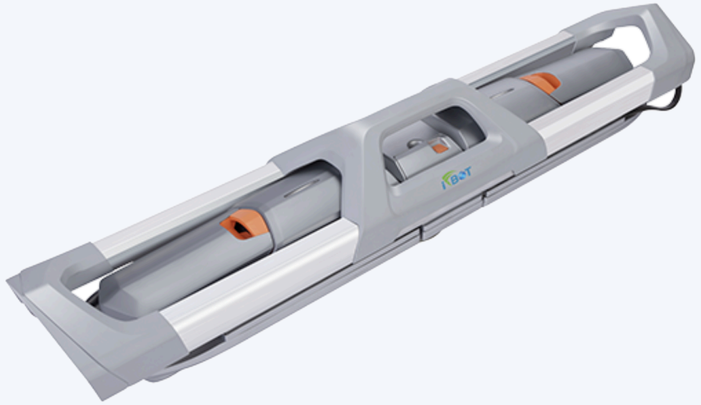
10 cm
Gap between panels it crosses

0 water
No water line, tank or truck

IFBOT X3 • TECHNICAL SPECIFICATIONS

X3 specifications

Spec	IFBOT X3
Cleaning	Dry, self-cleaning nano brushes. Dust tank prevents re-soiling.
Weight	6.2 kg
Throughput	30 m²/h (~0.005 MW)
Tilt range	0-45°
Gap crossing	Up to 10 cm
Runtime	8 h, hot-swap dual battery
Recharge time	Approx. 5 h
Water	None
Operation	Autonomous run, Bluetooth app remote
Low battery	Returns to the lowest position



IFBOT X3 • WHERE IT FITS

The X3 reaches the panels others can't



Steep arrays

Tilt range 0-45°, for panels too steep for safe manual access.

No-water sites

Nano-brush dry clean: no water line, tank or truck on site.

Residential PV

6.2 kg and a 10 cm panel gap: light and compact for tight installations.

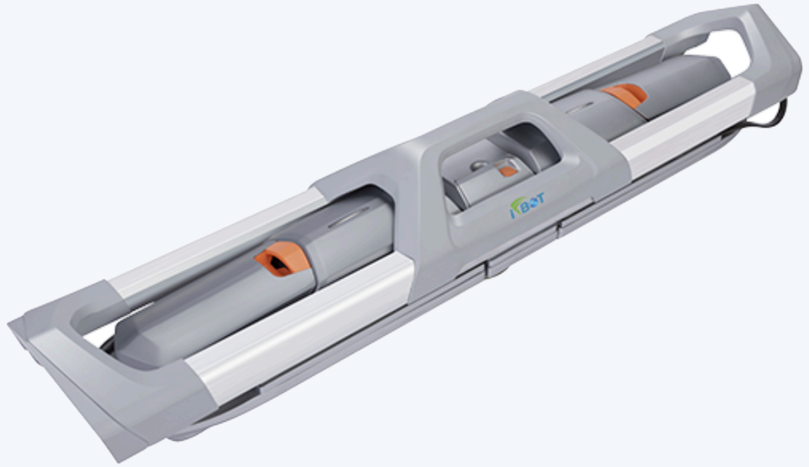
Large arrays

Run several X3s side by side and grow capacity one robot at a time.

IFBOT X3 • SCALE

One operator. Many X3s.

Each X3 cleans 30 m²/h by itself, so capacity grows one robot at a time. IFBOT designs for one operator to manage dozens of robots at once.



5 X3

150 m²/h

About 0.025 MW cleaned an hour

10 X3

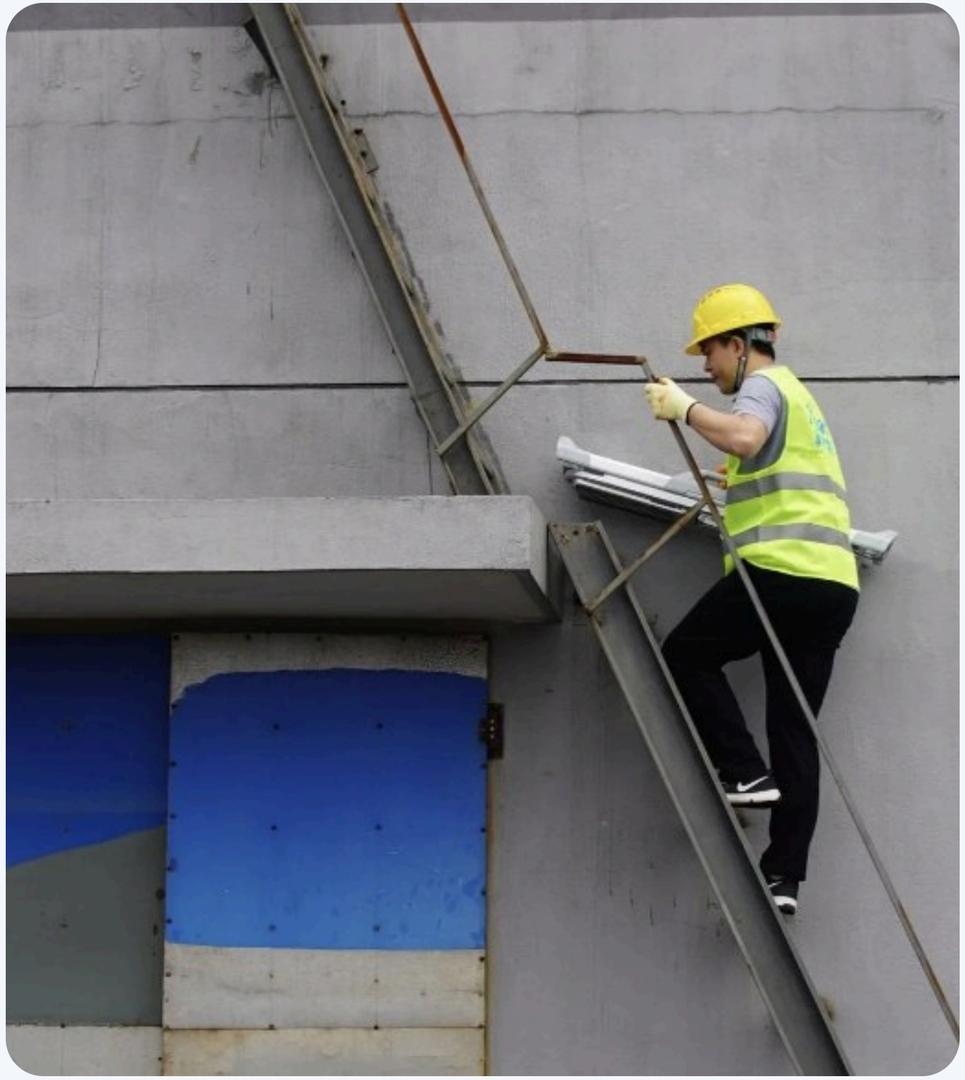
300 m²/h

About 0.05 MW cleaned an hour

20 X3

600 m²/h

About 0.1 MW cleaned an hour



Keep people out of harm's way

Steep arrays up to 45°

Reaches panels too steep for safe manual access.

Safe on low battery

Returns to the lowest position on the panel when power runs low.

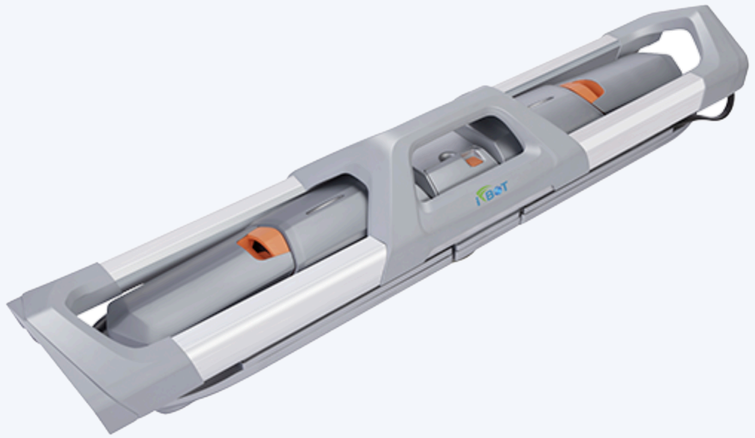
Less time at height

Light, nothing to assemble, and controlled from a Bluetooth app.

IFBOT X3 • PRICE

One X3 for US$1,300

A light, waterless robot that adds capacity one unit at a time. Prices are US$, ex-works, Fujian factory.



5 X3

US$6,500

150 m²/h of cleaning capacity

10 X3

US$13,000

300 m²/h of cleaning capacity

20 X3

US$26,000

600 m²/h of cleaning capacity

Unit price multiplied by quantity. Ask for a quotation delivered to your door.

ABOUT THE COMPANY

IFBOT builds robots that free people from dangerous cleaning work

IFBOT's mission: keep people safe, panels clean and solar plants producing.

Watch our introduction video: youtu.be/AXDA3lmNwv0

2018
Founded on one belief: robots, not people, should do the dangerous cleaning

SJTU
Research partner Shanghai Jiao Tong University; core technologies patented

Dozens
of robots managed by one operator, with no physical effort

Red Dot
Best of the Best, Product Design 2022, for the IFBOT X3

The team
Serial entrepreneurs, academics, robotic and software engineers

Safety first
Returns to the panel's lowest point when power runs low; cleans at night

Next: drones
Drones that launch and retrieve robots, working in China; pending regulatory approval outside China

Some of IFBOT's references

A base built in the Americas, now expanding in Australia, New Zealand and Southeast Asia.

Company	Country	Region
Empresas GTC	Chile	Americas
Rio Yaqui Solar	Mexico (Sonora)	Americas
Solarrow	United States (Fremont, CA)	Americas
Union Solar Pte Ltd	Singapore	Asia
AMSOLAR SDN BHD	Malaysia	Asia
Sustainergy Global Tech Co., Ltd. (SGT)	Thailand	Asia
Solar Electric Vietnam (SEV)	Vietnam	Asia

2,000 MW About 12 million m² of solar surface under cleaning by IFBOT robots: the equivalent of 20 large solar farms

IFBOT X3

Let's get in touch.

Tell us about your PV installation and we will match the right number of X3s.

CLICK BELOW TO START THE CONVERSATION

luca@foundcoo.com