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Seven entries from Singapore have clinched the Red Dot Award: Design Concept accolade, with one making it to the Best of the Best finalist line-up



Chantal Sajan

Seven novel design concepts from Singapore have won the Red Dot Award: Design Con-cept accolade, which saw 4,080 entrants from 47 countries participating in the annual competition. They are part of a total of 326 international awar-

326 international awar-dees announced on Tuesday in two categories -288 Red Dot winners and 38 Best of the Best semi-finalists.

nalists. The Best sellininalists. Five finalists from the Best of the Best category from Singapore, South Korea, Taiwan and two entrants from China went on to compete for the highest recognition, the Red Dot: Luminary award, at a gala presentation ceremony at the Red Dot Design Museum in Marian Bay on Tuesday.

The top prize went to South Korea's Hyundai Global Design Center for its Trailer Drone design concept, a driverless platform for the future which combines fuel cells, trucks, trailers and robots in a sintrucks, trailers and robots in a sin gle platform.

Singapore was represented by designers from local studios and industrial design students from the National University of Singapore who won six Red Dot awards. Only one firm, Schaeffler Singapore, made it to the Best of the Best finalist lineau.

one firm, Schaeffler Singapore, made it to the Best of the Best finalist line-up.

The Red Dot Award: Design Concept is organised by a Singapore team led by Mr Ken Koo, Asia president of Red Dot and creative director of the Red Dot Design Museum.

The awards can be traced back to 1955 in Germany, when it began as an annual national design competition to help make the country's consumer goods fit for export.

The Red Dot award is segmented into three design disciplines - Product Design and Brands & Community in Europe; and Design Concept, organised annually in Singapore.

Only about 7 per cent of the entires submitted by companies, design studios, research institutions and designers were selected for their design merit by 2022's Red Dot Jury, comprising an international team of design experts who are mainly academics, design studio heads and editors of design publications.

The Red Dot Award: Design Con-

publications. The Red Dot Award: Design Con-The Red Dot Award: Design Concept is one of the toughest design prizes one can win in the world today, says Mr Koo, who was appointed Asia president in 2005.

He says that a clever solution is not enough to win the Red Dot

award. Sophisticated and well-executed industrial design projects that also evoke an emotional response from the user stand a better chance, especially if their efficacy can be extended via the Internet or

can be extended via the Internet or through artificial intelligence.
"Instead of focusing on the present woes, our winners... inpressed the jury with their imagnation of a bright future that is fabricated with objects and services that range from simple pleasures to advanced technologies."

 View the winning designs and more than 300 exhibits from previous years at the Red Dot Design Museum at 11 Marina Boulevard, or check out online updates at str.sg/wrzW and red-dot.sg

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# **BEST OF THE BEST**



## **Dex by Schaeffler Singapore**

One of the standout features of the

One of the standout features of the Dual Extendable autonomous mobile robots, simply called Dex, is its ability to understand not only verbal but also non-verbal cues.

A user simply needs to stand in its path, and it will know that it has to be ready to receive instructions. It can also be controlled using hand gestures, further reducing the complexity of interacting with a robot. Its maker, Schaeffler Singapore, is the winner of the Red Dot: Best of the Best award, the highest accolade in the Red Dot Award: Concept Design category. Singapore is the regional headquarters of the company, which is part of the Schaeffler Group, a German supplier in the fields of motion and mobility.

Mr Han Boon Siew, leader of the design team which comprised eight members, says a multidisciplinary approach is needed to plan for the

world's future in a post-pandemic

world's future in a post-pandemic world.

"We need roles to come together to tackle the complexity of recovery and generate continuous knowledge," says the 44-year-old, who the director of the Schaeffler Hub for Advanced Research at Nanyang Technological University and head of advanced research and innovation for Asia-Pacific.

"This design concept is the result of breaking down the silos be-

"This design concept is the result of breaking down the silos between two disciplines – design and engineering – and showing that we can build on one another's expertise to deliver innovative products. We also hope to show the versatility of design, demonstrating that when you put a designer in a field that traditionally had none, we can conceive new ways of thinking." At its core, Dex was developed with human-robot interaction at

heart, he says.

Firstly, in its mechanical design,
Dex aims to support workers' safety
and ergonomics using its ability to
raise its platform to reduce lifting
distances. Secondly, in its software
design, Dex's programmed navigation focuses on transport, mission
completion, and safe interaction
with humans and other vehicles
throughout its desired path.

Finally, on the industrial design
front, the design reimagines the relationship between a shop floor employee and Dex, as if it were a bond
between a rider and horse.

Mr Han says: "Its concept direction conveys a feeling of agility and
robustness that uses visual cues
from automotive design to create a
sense of wonder and excitement for
the user."

RED DOT WINNERS on C2

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## **RED DOT WINNERS**

#### The Passerine Chair by Amos Goh

Chairs that are made the industrial way usually end up being discarded after years of use. But what if the chair is designed with fully replaceable and recyclable parts, and retailers can provide this as a value-added service for a profit?

profit?

This was what local industrial designer Amos Goh, 35, set out to do two years ago when he launched a sustainable home and lifestyle brand called Studio Bulbul with Sintand Called Studio Bulbul with Sin

brandt called Studio Bulbul with Sin-gapore-based Korean designer and co-founder Shin Hyang-elm, 34. In early 2022, he submitted one of Studio Bulbul's concepts called he Passerine Chair for the Red Dot Award: Concept Design accolade. The chair has since made it to pro-duction and retails on the brands webstore (bulbul-gy for \$330. Pas-serine refers to brid species that perch on branches and ledges, perchair backers which appears to be healr's backers which appears to be perched on metal branches. All its components are made without the

components are made without the use of harsh chemicals and are de-



signed to be replaceable to ensure the seat is ready for a lifetime of use.

"The reality of furniture today in Singapore is that once it is spoilt, it is most likely to be discarded because repairing it will probably cost more than buying a new one,"

### R3 Vac by LionsBot International

Lead designer Tan Wei Hua of Lonshto International, a home-grown maker of industrial cleaning to the company of the control of

superior cleaning performance."
He says the R3 is designed to be as easy to use as consumer electronics, with intuitive physical and digital touchpoints as well as controls that can be operated by users who have a basic level of technology literacy.

It is also driven by a "sparkling personality", displaying a range of expressions that endears it to its us-er and passers-by. "We wanted a cleaning robot that

brings smiles to everyone in the public spaces it cleans."

# Verdure urban farming by Chong Zi En and Ong Kah Min

Two design students from the National University of Singapore (NUS) have devised a way to recycle rainwater for a self-sustaining watering system that transforms concrete spaces into vertical farms and gardens.

The moduler concept called VerThe moduler Chong 2.1 En. 25, and Ms. Ong Kah Min. 23, from the NUS Division of Industrial Design the Red Dot Award: Design Concept accolade.

Award: Design Concept accolade.

Ms Ong, design lead at the division's Communication Design thus, says the side at the division's Communication to the side of the

The students were tasked to improve every-day lives by creating "pockets of engagement" with the community using greenery, designed to improve living conditions for both years of the y people and nature, we can improve our everyday lives."



#### **Rune Modular Smart** Table by Mok Zijie

Design student Mok Zijie found his eurela moment when he sterped back and saw the cluster on his table from both his work and leisure pursuits. Amid the chaso of design implements, serunched-up paper and assorted electronic devices, he found a sense of order.

"I wanted to design something that helps us manage our hybrid working environment at home, but without the mess," says the 25-year-old student at the National University of Singapore's Division of industrial Design.

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#### FastClic Baby Milk Warmer by Allen Lai

Hungry babies can be angry ba-

Hungry babies can be angry babies.

Parents have a lot on their hands when it comes to feeding babies - the milk must not be too hot, as it may affect the nutrients, or he too hot, as it may affect the nutrients, or he too hot, as it may affect the nutrients, or he too hot, as it may affect the nutrients of he comes to have a compared to he had not a compared to he had not a compared to he had not had n

an integrated temperature sensor to enable rapid heating. It is de-



signed to be operated with just one hand. The milk bottle's safety features include a tilt sensor that ensures the warmer does not heat up when it is tilted and a magnetic sensor

settings: "breast milk", which is quick but gentle in its heating function; "frozen", for rapid heating: and "maintain", to maintain milk temperature. The app also sends an alert when the bottle is ready for feeding.

milk temperature. The app also sends an alert when the bottle is ready for feeding. Mr Lal, 4.3, who is married to an Mr Lal, 4.3, who is married to an about 10 muns and dads before producing prototypes of the milk warmer. He also obtained testimonials from nursing mothers for the prototype before he finalised the design. He had not been appropriately the design and manufacture of milk bottles for warming to self the device are promotional price of \$200 on the firm's website (incutino.com) and in physical stores by year-end. "FASTClic is a breakthrough in the design and manufacture of milk bottles for warming purposes," he says.

"FastClic is a breakthrough in the design and manufacture of milk bottles for warming purposes," he says.

"We set out to design a soft-gel featible heater that takes just coint and single charge using four recharge sable batteries, it is also designed." Although my concept was initially for so other members of the family can easily help out with warming milk."

## **Tilt hairdryer** by Siew E lan

