

# Robots at center of China's strategy to leapfrog rivals

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In this Friday, Oct. 21, 2016 photo, a Chinese boy shouts into the Canbot, a companion robot, displayed during the World Robot Conference in Beijing, China. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." The Canbot can dance and respond to voice commands, while others can play badminton, sand cell phone cases and sort computer chips. (AP Photo/Ng Han Guan)

The Canbot can say its name, respond to voice commands, and "dance"

as it plays Michael Jackson's "Billie Jean." Other robots China is displaying at the World Robot Conference can play badminton, sand cell phone cases and sort computer chips.

China is showcasing its burgeoning robot industry at the five-day exhibition in Beijing, part of a national effort to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China."

Apart from the cool factor, China's sweeping plans to upgrade its factories and production lines depend on building and better using advanced robots. Automation is crucial for industries facing rising labor costs and slowing growth in the work force thanks to the "one-child" policy era and aging of the population.

China will have to make big strides to leap ahead of Germany, Japan and other nations whose robots are generations ahead.

Infinites International Group, based in eastern China's Shandong, advertises its Canbot U-Partner as a service robot that could be programmed to run in shopping malls, restaurants and banks. But it's modeled on the "Pepper" robot made by Japan's SoftBank.

Nearby, Peng Zhihui and Luo Binyi stood with "Ares," a human-sized robot they designed with exposed metal arms and hands and a wide range of uses in mind, from the military to performing basic tasks in a home.



In this Friday, Oct. 21, 2016 photo, the Ares, a humanoid bipedal robot designed by Chinese college students with fundings from a Shanghai investment company, is displayed during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." The Ares is a human-sized robot they designed with exposed metal arms and hands and a wide range of uses in mind, from the military to performing basic tasks in a home. (AP Photo/Ng Han Guan)

Peng and Luo, both 24, developed the mannequin-like Ares while attending college in southwestern China's Sichuan province. A Shanghai investment company pitched in some funding.

"Many robots aren't very useful right now, but will show their true value when they are used in homes in the future," Peng said.

Thousands of factories in southern China's industrial centers which long

were manned by low-cost migrant workers, are now turning to robots. China has become the world's top consumer of industrial robots and will soon have the most commercial robots in operation of any country. Foxconn, the Taiwanese firm that assembles Apple's iPhones in China, has installed 40,000 robots in its factories.



In this Friday, Oct. 21, 2016 photo, visitors crowd around Pepper, a companion robot from e-commerce giant Alibaba, during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." China will have to make big strides to leap ahead of Germany, Japan and other nations whose robots are generations ahead. (AP Photo/Ng Han Guan)

China made robotics a focal point of its recent "Made in China 2025" plan, and has set national goals of producing 100,000 industrial robots a



year and having 150 robots in operation for every 10,000 employees by 2020, a figure known as robot density. Currently, China ranks 28th in the world for robot density, behind Portugal and Indonesia. Chinese suppliers sold about 20,000 robots last year to local companies.

"There has never been such a dynamic rise in such a short period of time in any other market," the International Federation of Robotics said in an analysis of China's robot industry published earlier this year.

Steve Wyatt, head of sales and marketing for Switzerland-based ABB Robotics, said his company employs more than 1,600 people in China and has seen its sales in China grow by a factor of 50.



In this Friday, Oct. 21, 2016 photo, visitors look at industrial robots displayed beneath the words that read "Chinese Robots" during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." (AP

Photo/(Ng Han Guan)

But the country remains behind in terms of the complexity of tasks Chinese-made robots can handle, Wyatt said.

Chinese appliance maker Midea Group recently announced it was purchasing almost all of German industrial robot manufacturer Kuka.

Wing Chu, a senior economist at the Hong Kong Trade Development Council, said China will continue to seek foreign expertise to advance in robotics as part of a broader effort to transform its economy.

"In the longer term, China wants to upgrade all its industries," he said.



In this Friday, Oct. 21, 2016 photo, a Chinese woman demonstrates the ability of

Baxter, an industrial robot from U.S. company Rethink Robotics, to follow her hand movements during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." China will have to make big strides to leap ahead of Germany, Japan and other nations whose robots are generations ahead. (AP Photo/Ng Han Guan)



In this Friday, Oct. 21, 2016 photo, Chinese college students remove the cover from the Ares, a humanoid bipedal robot designed by them with fundings from a Shanghai investment company, displayed during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." The Ares is a human-sized robot they designed with exposed metal arms and hands and a wide range of uses in mind, from the military to performing basic tasks in a home. (AP Photo/Ng Han Guan)



In this Friday, Oct. 21, 2016 photo, a group of visitors stand near a giant robot standing behind a partition at the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." (AP Photo/Ng Han Guan)





In this Friday, Oct. 21, 2016 photo, Chinese students work on the Ares, a humanoid bipedal robot designed by them with fundings from a Shanghai investment company, displayed during the World Robot Conference in Beijing. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." The Ares is a human-sized robot they designed with exposed metal arms and hands and a wide range of uses in mind, from the military to performing basic tasks in a home. (AP Photo/Ng Han Guan)



In this photo taken Thursday, Oct. 20, 2016., Luo Binyi, right, and Peng Zhihui, second right, pose for photos with Ares, a humanoid bipedal robot they helped designed with fundings from a Shanghai investment company, displayed during the World Robot Conference in Beijing, China. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." Ares is a human-sized robot they designed with exposed metal arms and hands and a wide range of uses in mind, from the military to performing basic tasks in a home. (AP Photo/Nomaan Merchant)



In this Friday, Oct. 21, 2016 photo, visitors watch a robot play badminton during the World Robot Conference in Beijing, China. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." (AP Photo/Ng Han Guan)



In this Friday, Oct. 21, 2016 photo, a Chinese cleaner stands by a group of visitors examining the Canbot, a companion robot, displayed during the World Robot Conference in Beijing, China. China is showcasing its burgeoning robot industry as it seeks to promote use of more advanced technologies in Chinese factories and create high-end products that redefine the meaning of "Made in China." The Canbot can dance and respond to voice commands, while others can play badminton, sand cell phone cases and sort computer chips. (AP Photo/Ng Han Guan)

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