

**FOR IMMEDIATE RELEASE**

## **Hitachi announces the Ultra-High-Speed Elevators Achieved the World's Highest Speed of 1,200 m/min**

To be in operation in a mixed-use skyscraper in Guangzhou, China, this fall

**Tokyo, May 27, 2016** ---Hitachi, Ltd., (“Hitachi” / TSE:6501) today announced that the ultra-high-speed elevators for Guangzhou CTF Finance Centre achieved the speed of 1,200 m/min (72km/h), which was verified in the running test on May 14. The rated speed of 1,200 m/min is the highest speed for elevators that currently exist in the world.

Hitachi had received an order<sup>\*1</sup> to manufacture ultra-high-speed elevators for Guangzhou CTF Finance Centre, a mixed-use skyscraper in Guangzhou, China, and has since been engaged in the installation, inspection, and adjustment of the elevators toward full operation in the fall of 2016.

### **Features of the World’s Fastest Elevator**

- (1) Drive and control technologies to attain the world’s fastest speed of 1,200 m/min
  - Developed a permanent magnet synchronous motor that achieves both a thin profile and the high output needed to attain the speed of 1,200 m/min.
  - Realized a compact traction machine by increasing the strength and reducing the weight of the main ropes.
  - Developed a space saving-type control panel with an inverter that possesses one of the world’s highest capacities for use in elevators.
  
- (2) Safety features supporting ultra-high-speed elevator operation
  - Developed brake equipment using braking materials with outstanding heat resistance.
  - Achieved both safety and space saving by using a single governor that can control different rated speeds during elevator ascent and descent<sup>\*2</sup>.
  
- (3) Elevators can be used comfortably with safety even over long travel
  - Installed active guide rollers to reduce vibration occurred by minute warping in the guide rails, in the four corners (top and bottom, left and right corners) of the elevator.
  - Reduced the sensation of ear blockage by developing Hitachi’s proprietary air pressure adjustment technology, which reduces the changes in air pressure inside the elevator car.

- more-

The aforementioned technologies, which have contributed to the realization of the speed of 1,200 m/min, received the Best Technical Paper Award at the Elevcon 2016 held in Spain in May.

\*1: Hitachi plans to deliver a total of 95 elevators, including two elevators with a speed of 1,200 m/min.

\*2: The rated speed during descent is 600 m/min.

**Special website for the world's fastest elevators:**

[http://www.hitachi.com/businesses/elevator/sp/fast\\_elv.html](http://www.hitachi.com/businesses/elevator/sp/fast_elv.html)



Image of Guangzhou CTF Finance Centre

**Outline of Guangzhou CTF Finance Centre**

Guangzhou CTF Finance Centre is an upscale mixed-use skyscraper comprising offices, a hotel, and residential spaces (530 meters tall with 111 aboveground floors and 5 below-ground floors). It will be the tallest building in Guangzhou, China. Construction of the building is now under way toward its opening in the fall of 2016.

**About Hitachi, Ltd.**

Hitachi, Ltd. (TSE: 6501), headquartered in Tokyo, Japan, delivers innovations that answer society's challenges. The company's consolidated revenues for fiscal 2015 (ended March 31, 2016) totaled 10,034.3 billion yen (\$88.8 billion). The Hitachi Group is a global leader in the Social Innovation Business, and it has approximately 335,000 employees worldwide. Through collaborative creation, Hitachi is providing solutions to customers in a broad range of sectors, including Power / Energy, Industry / Distribution / Water, Urban Development, and Finance / Government & Public / Healthcare. For more information on Hitachi, please visit the company's website at <http://www.hitachi.com>.

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