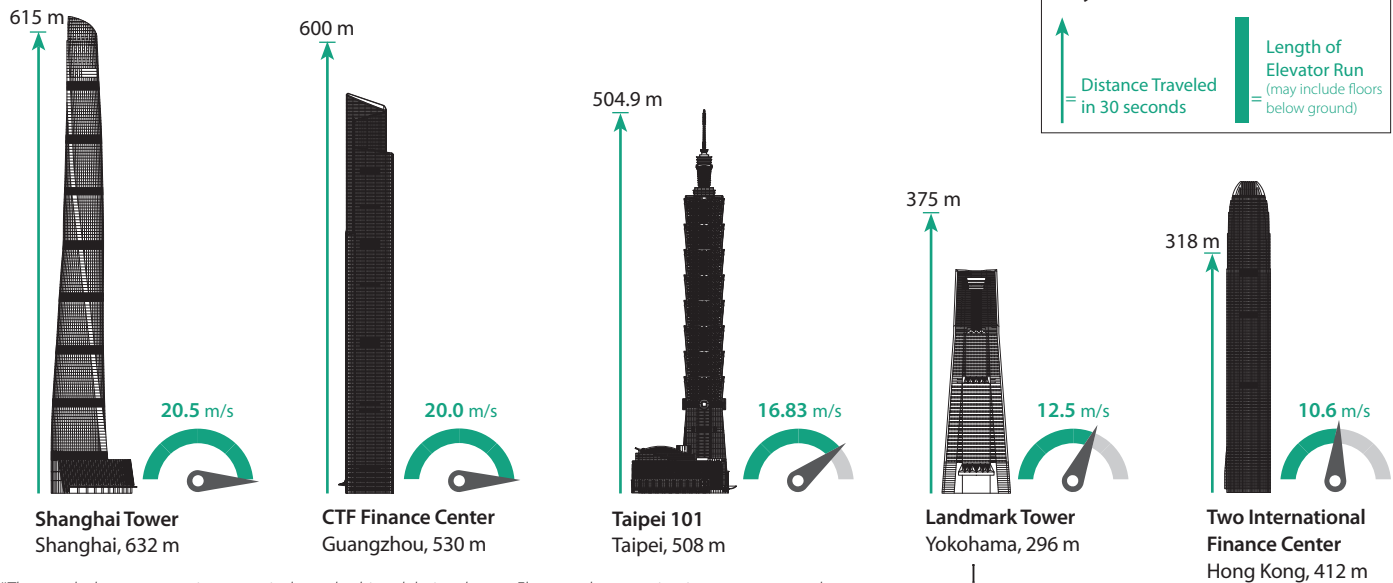


Vertical Transportation: Ascent & Acceleration

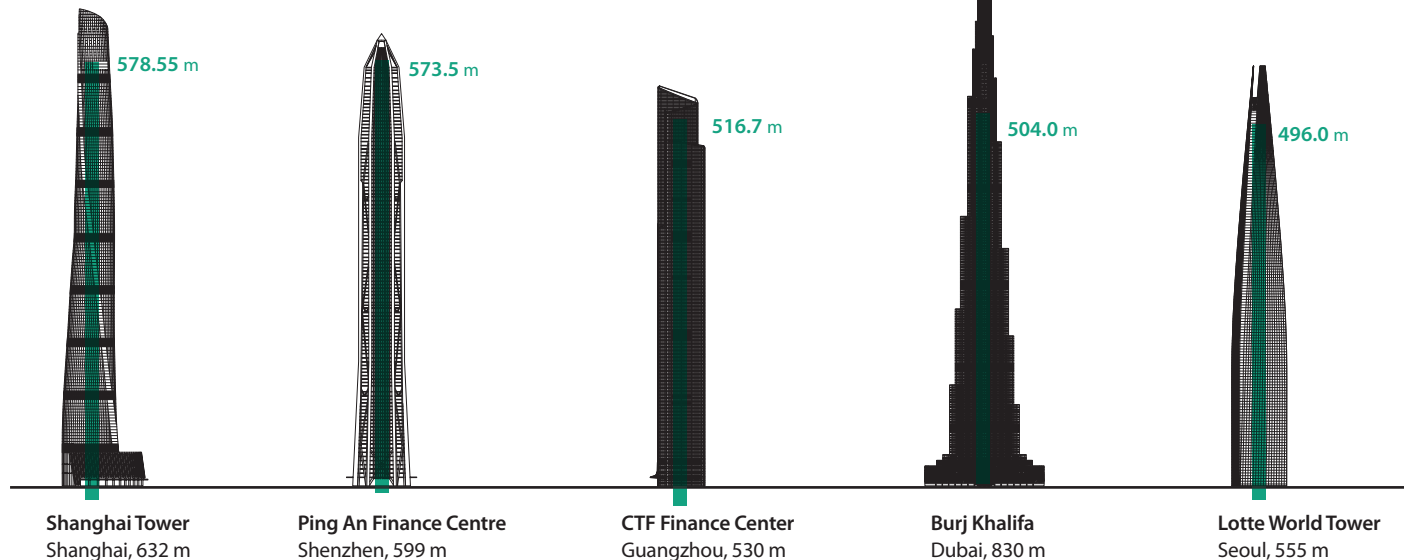
As part of a recent collaboration with the Guinness Book of World Records, CTBUH certified that Shanghai Tower has the fastest elevator and the longest elevator run of all commercial buildings in the world. Expanding upon this study, CTBUH sought to determine the records for speed and length of run among the world's tall buildings. The findings and related data are displayed here.

The World's Five Fastest Elevator Installations*



*The speeds shown are maximum vertical speed achieved during the run. Elevators do not maintain a constant speed during the ascent, as they accelerate and brake at the beginning and end of each trip, respectively.

The World's Five Tallest Continuous Elevator Runs



The glass-sided **Bailong Elevator** in China is the world's tallest outdoor elevator at 326 meters. It takes visitors to the top of a quartzite cliff in Zhangjiajie National Park.

The 601-meter **Makkah Royal Clock Tower** in Mecca, Saudi Arabia, the world's current third-tallest building, is the world's tallest building that uses single-deck elevators exclusively.

Aufzugstestturm in Rottweil, Germany tests elevators for thyssenkrupp and features the nation's highest observation platform in a test tower at 232 meters above grade.

Fastest Elevators in the World

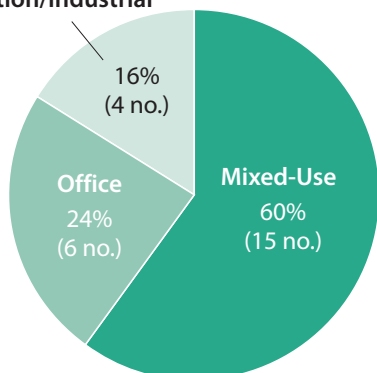
The table below includes all buildings that are completed (COM) or under construction (UC) (or currently on hold (OH) during construction), with elevators that run 10 m/s or higher. The current buildings with the top 5 fastest elevators are highlighted in green, while buildings containing the top 5 longest elevator runs are in bold.

Elevator speeds for buildings under construction are anticipated and subject to verification upon completion.

Rank	Building	City	Country	Height (m)	Status	Completion Date	Elevator Speed (m/s)
1	Shanghai Tower	Shanghai	China	632	COM	2015	20.5
2	Guangzhou CTF Finance Centre	Guangzhou	China	530	COM	2016	20
3	Suzhou Zhongnan Center	Suzhou	China	729	OH	0	18
4	TAIPEI 101	Taipei	Taiwan, China	508	COM	2004	16.83
=5	Wuhan Greenland Center	Wuhan	China	636	UC	2018	12.5
=5	Landmark Tower	Yokohama	Japan	296.33	COM	1993	12.5
6	Two International Finance Centre	Hong Kong	China	412	COM	2003	10.6
7	One World Trade Center	New York City	United States	541.3	COM	2014	10.16
=8	Jeddah Tower	Jeddah	Saudi Arabia	1000+	UC	2020	10
=8	Burj Khalifa	Dubai	United Arab Emirates	828	COM	2010	10
=8	Tokyo Sky Tree	Tokyo	Japan	634	COM	2012	10
=8	Merdeka PNB118	Kuala Lumpur	Malaysia	630	UC	2021	10
=8	Canton Tower	Guangzhou	China	604	COM	2010	10
=8	Ping An Finance Center	Shenzhen	China	599.05	COM	2017	10
=8	Lotte World Tower	Seoul	South Korea	554.53	COM	2017	10
=8	Busan Lotte Town Tower	Busan	South Korea	510.1	OH	2020	10
=8	Shanghai World Financial Center	Shanghai	China	492	COM	2008	10
=8	Al Hamra Tower	Kuwait City	Kuwait	412.6	COM	2011	10
=8	LCT Landmark Tower	Busan	South Korea	411.6	UC	2020	10
=8	T & C Tower	Kaohsiung	Taiwan, China	347.5	COM	1997	10
=8	China World Tower	Beijing	China	330	COM	2010	10
=8	Longxi International Hotel	Jiangyin	China	328	COM	2011	10
=8	Sunshine 60 Tower	Tokyo	Japan	240	COM	1978	10

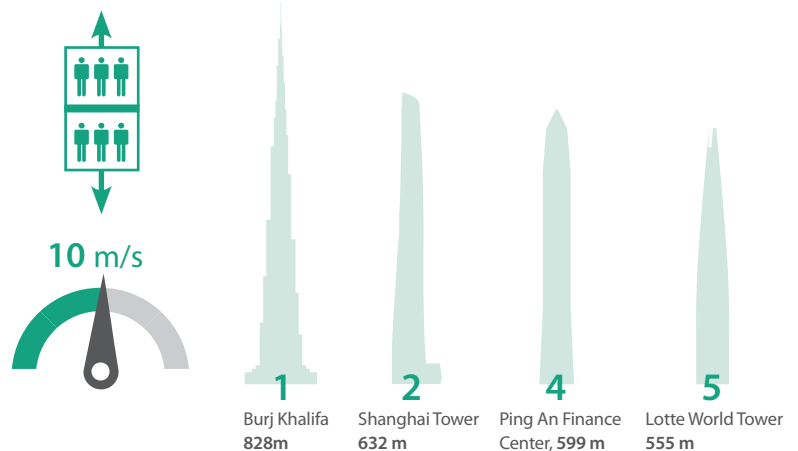
Primary Function in Structures with 10+ m/s Elevators

Telecommunications/
Observation/Industrial
Tower



Tied for Fastest Double-Decker Elevators

Four of the five tallest buildings in the world are tied for the fastest double-decker elevator speed at 10 m/s.



The Gateway Arch in St. Louis, USA, features two "trains" of 8 capsules each, which ascend the curving 192-meter structure, turning through 155 degrees while remaining upright for the 4-minute journey.

One World Trade Center, New York, has an elevator run of 408.7 meters, extending deep into its basement. This is longer than its highest occupied floor – 386.5 meters.

Not all elevator test facilities rise into above-ground structures. The KONE test shaft in Tytyri, Finland, is the world's deepest elevator descent, at 350 meters.