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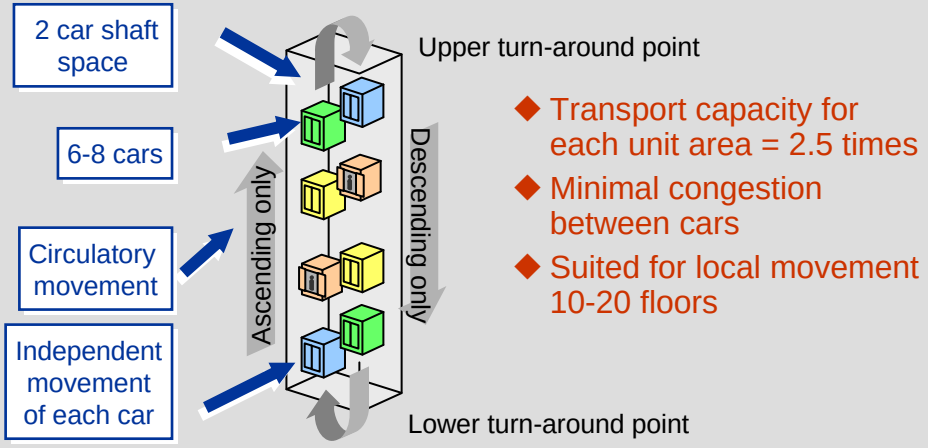
“Circulating multi-car elevator” for innovative increase in elevator transport capacity

Development of basic drive technology and principle verification with a 1/10 size prototype

1/10 size prototype



Basic principle of the circulating multi-car elevator

The Mechanical Engineering Research Laboratory (GM: Mr. Hideshi FUKUMOTO) has developed the basic drive technology for a “circulating multi-car elevator” which significantly improves the transport capacity of elevators, helping to ease congestion and reduce waiting time. This new technology enables multiple cars to be circulated within the space of 2 shafts. Drive technology for 6-8 cars were developed and basic operating principles were confirmed with a 1/10 size model prototype. By employing this technology, it will become possible to more than double the transport capacity of conventional elevators (in-house comparison) in high-rise building, contributing to increased floor space available for offices and residence by decreasing the space required for elevator shafts, without decreasing the comfort or ease of movement provided by elevators by decreasing elevator numbers.