



TRIVANTA EDGE

Parking, Perfected

Revolutionizing Urban Parking with Smart, Space-Efficient, and Sustainable Solutions

ADVANCED TECHNOLOGY | MAXIMUM EFFICIENCY | PREMIUM QUALITY

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About Trivanta Edge

Leading Innovation in Automated Parking Solutions

Welcome to the Future of Parking

Trivanta Edge is at the forefront of revolutionizing urban parking infrastructure with cutting-edge automated parking systems. With years of expertise in mechanical engineering and automation technology, we deliver world-class solutions that maximize space utilization while minimizing environmental impact.

Our Mission

To transform urban landscapes by providing intelligent, space-efficient, and eco-friendly automated parking solutions that enhance property value and improve quality of life.

Why Choose Trivanta Edge?

- ✓ Industry-leading technology and engineering excellence
- ✓ Customized solutions tailored to your specific requirements
- ✓ Comprehensive after-sales support and maintenance services

Key Features & Benefits

Advanced Technology for Modern Parking Needs



Space Optimization

Maximize parking capacity by 60-80% compared to conventional parking. Perfect for high-density urban areas where space is at a premium.



Enhanced Security

Fully automated system with no human access to parking areas. Advanced security features protect vehicles from theft, vandalism, and damage.



Rapid Operation

Quick retrieval times averaging 60-90 seconds. High-speed motors and optimized algorithms ensure minimal waiting time for users.



Eco-Friendly

Zero emissions in parking area, reduced carbon footprint with no vehicle circulation. Energy-efficient motors with regenerative systems.

Technical Specifications

Precision Engineering for Optimal Performance

System Specifications

Specification	Details
System Type	Fully Automated Puzzle/Tower/Shuttle Based
Vehicle Weight Capacity	2000 - 2500 kg per platform
Platform Dimensions	5500mm (L) x 2000mm (W) x 1800mm (H)
Retrieval Time	60-90 seconds (average)
Operating Speed	Vertical: 15-25 m/min Horizontal: 30-40 m/min
Power Supply	415V, 3 Phase, 50 Hz
Drive System	AC/DC Variable Frequency Drive with regenerative capability
Safety Systems	Multiple sensors, emergency brakes, UPS backup
Control System	PLC-based with HMI touchscreen interface
Material	Hot-dip galvanized steel structure
Noise Level	< 70 dB during operation
Operating Temperature	-10°C to +45°C
Standards Compliance	IS, CE, ISO 9001:2015 certified

Warranty

1 year comprehensive, extendable AMC
available

Puzzle Parking System

Vertical & Horizontal Movement for Maximum Density

Multi-Level Puzzle Parking

The Puzzle Parking System is an innovative solution that combines vertical and horizontal movements to achieve maximum parking density. Ideal for medium to large-scale parking requirements in residential complexes, commercial buildings, and mixed-use developments.

- ✓ 2 to 8 levels parking capacity
- ✓ Modular design for easy expansion
- ✓ Space efficiency up to 2.5x conventional
- ✓ Minimal pit and overhead requirements
- ✓ Semi-automatic to fully automatic operation
- ✓ Simultaneous multi-car retrieval
- ✓ Independent platform movement
- ✓ Quick installation and commissioning

Ideal Applications:

- ✓ Residential apartments and condominiums
- ✓ Commercial office buildings
- ✓ Shopping malls and retail centers
- ✓ Hotels and hospitality projects

Technical Highlights

Capacity: 20-100 cars per system

Parking Height: 1800mm per level

Operation: Card/RFID based access control

Structure: Hot-dip galvanized steel frame

Installation Time: 4-8 weeks depending on capacity

Tower Parking System

Vertical High-Rise Parking Solution

Vertical Tower Parking

The Tower Parking System is a fully automated, high-capacity vertical parking solution designed for premium properties with limited ground space. This system can accommodate 20-80 vehicles in a compact footprint, making it the ultimate space-saving solution.

- ✓ Up to 20 levels of vertical parking
- ✓ Smallest footprint requirement
- ✓ 360-degree vehicle rotation capability
- ✓ Energy-efficient LED lighting
- ✓ Fully automated robotic operation
- ✓ High-speed vertical lifts
- ✓ Weather-proof enclosure options
- ✓ Seismic-resistant structure design

Ideal Applications:

- ✓ Premium residential towers
- ✓ Corporate headquarters
- ✓ High-end commercial complexes
- ✓ Smart city projects

Technical Highlights

Capacity: 20-80 cars per tower

Tower Height: Up to 30 meters

Ground Space: As low as 40 sq.m

Operation: Fully automated with touchscreen

Special Features: Car wash integration available

Shuttle Parking System

High-Capacity Automated Parking Solution

Advanced Shuttle Parking

The Shuttle Parking System represents the pinnacle of automated parking technology, combining vertical lifts with horizontal shuttles for maximum efficiency. Perfect for large-scale projects requiring parking for 100+ vehicles with optimized retrieval times.

- ✓ Multi-shuttle multi-lift configuration
- ✓ Up to 12 levels of parking
- ✓ Modular and scalable design
- ✓ Remote monitoring and diagnostics
- ✓ Parallel parking and retrieval operations
- ✓ Fastest retrieval times (45-60 seconds)
- ✓ Intelligent traffic management system
- ✓ Integration with building management systems

Ideal Applications:

- ✓ Large residential complexes (200+ units)
- ✓ Major commercial developments
- ✓ Airport and metro station parking
- ✓ Hospitals and healthcare facilities

Technical Highlights

Capacity: 100-500+ cars per system

Configuration: Multiple shuttles per level

Throughput: 40-60 cars per hour

Control: Advanced PLC with AI optimization

Customization: Fully adaptable to site conditions

Benefits & Advantages

Why Automated Parking Makes Business Sense

1

Maximum Space Utilization

Increase parking capacity by 60-80% compared to conventional parking. No need for driving lanes, ramps, or circulation space means more cars in less area.

2

Enhanced Property Value

Premium parking solutions significantly increase property appeal and market value. Attract high-end buyers and tenants with modern amenities.

3

Reduced Construction Costs

Eliminate need for expensive ventilation systems, extensive lighting, and fire safety measures. Lower excavation and structural requirements reduce building costs.

4

Zero Vehicle Emissions Inside

Cars are turned off before entering the system, eliminating exhaust fumes and carbon monoxide in parking areas. Healthier and cleaner environment.

5

Complete Vehicle Security

No human access to parking area eliminates risk of theft, vandalism, or damage. Vehicles are protected in secure, climate-controlled environments.

6

Minimal Operational Costs

Automated systems require minimal staff and maintenance. Energy-efficient motors and regenerative systems reduce electricity consumption significantly.

Installation Process

Seamless Implementation from Concept to Completion

1

Site Assessment

Detailed evaluation of site conditions, space availability, and technical requirements

2

Custom Design

Tailored system design based on capacity needs, building architecture, and budget

3

Installation

On-site installation by certified technicians with minimal disruption

4

Support

24/7 technical support and preventive maintenance services

Safety & Security Features

Multiple Layers of Protection

Safety Systems

- **Emergency Stop Buttons:** Strategically placed at all entry/exit points
- **Overload Sensors:** Prevent operation if weight limits are exceeded
- **Position Sensors:** Ensure accurate platform alignment
- **Safety Interlocks:** Prevent movement when doors are open
- **Anti-Fall Devices:** Multiple redundant catching mechanisms
- **Fire Detection:** Integrated smoke and heat sensors
- **Emergency Lowering:** Manual emergency descent system
- **UPS Backup:** Uninterrupted power for emergency operations

Security Features

- **Access Control:** RFID card/mobile app authentication
- **CCTV Monitoring:** 24/7 video surveillance
- **User Identification:** Personal code/biometric options
- **Audit Trail:** Complete log of all transactions
- **Intrusion Alarms:** Unauthorized access detection
- **Remote Monitoring:** Cloud-based system status tracking
- **Vehicle Tracking:** Real-time location of each vehicle
- **Secure Enclosure:** Climate-controlled, locked environment

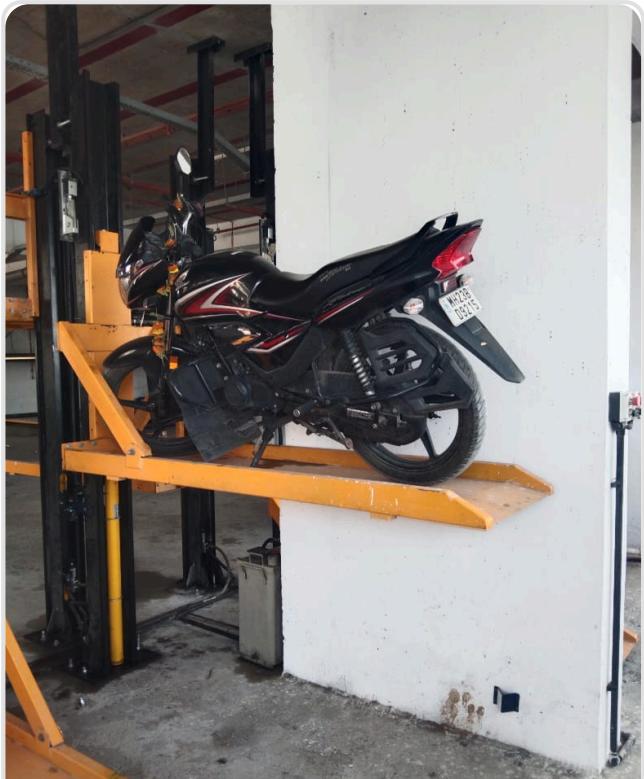
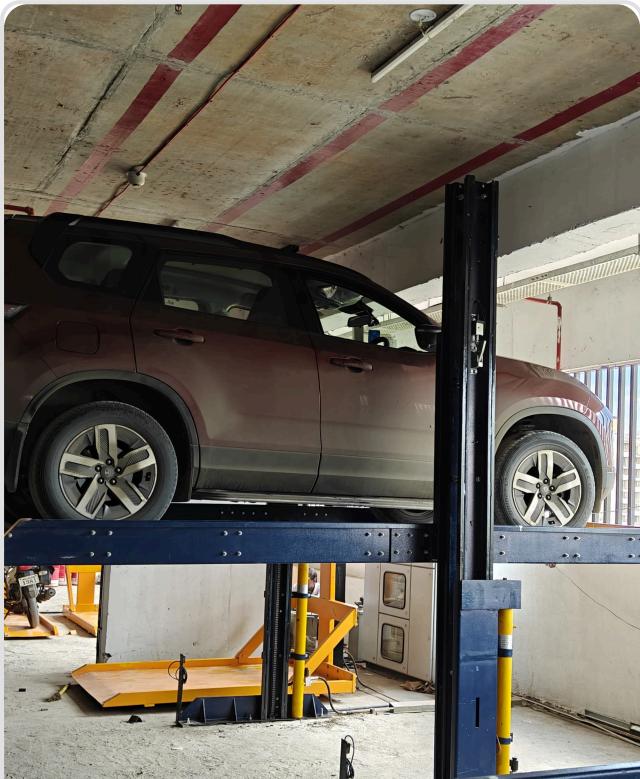
Compliance & Certifications

- ✓ IS Standards for mechanical parking systems
- ✓ CE Marking for European safety standards
- ✓ ISO 9001:2015 Quality Management Certification
- ✓ IGBC Green Building compliance ready
- ✓ Fire safety NOC from local authorities

✓ Structural stability certification

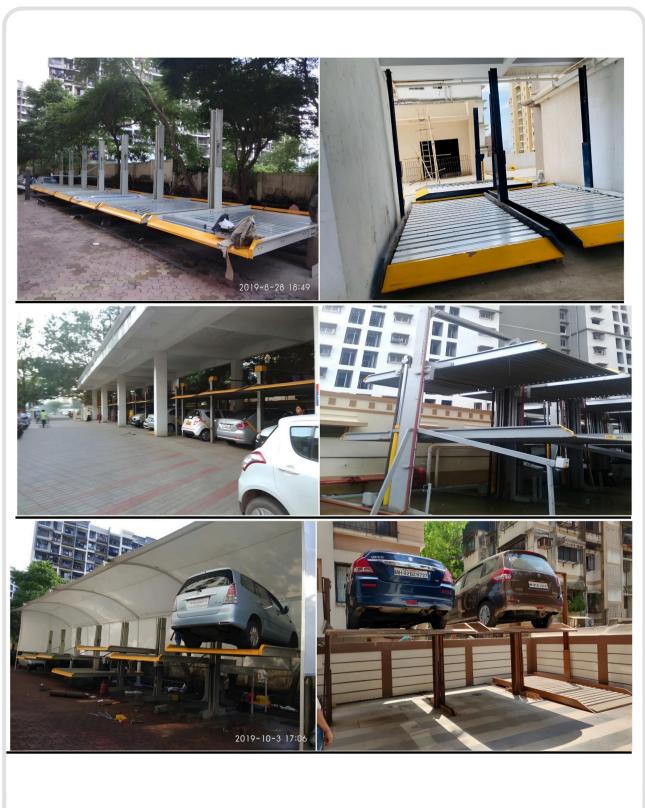
Project Gallery

Our Successful Installations



Project Gallery

More Success Stories





TRIVANTA EDGE
Automated Parking Systems
www.trivantaedge.com

Our Valued Clients

Trusted by leading developers, builders, and facility managers across India



What Our Clients Say

"The automated parking system from Trivanta Edge has transformed our property value. The space efficiency and modern technology appeal greatly to our premium buyers."

- Leading Real Estate Developer, Mumbai

"Excellent engineering quality and professional installation. The system has been running flawlessly for over 2 years with minimal maintenance."

- Facility Manager, Commercial Complex, Bangalore

"The best decision we made for our project. Saved significant construction costs and increased parking capacity by 70%. Highly recommended!"

- Project Head, Luxury Residences, Delhi NCR



TRIVANTA EDGE

Automated Parking Systems

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Maintenance & Support

Comprehensive After-Sales Service

Our Commitment to Service Excellence

At Trivanta Edge, our relationship with clients extends far beyond installation. We provide comprehensive maintenance and support services to ensure optimal system performance and longevity.

Preventive Maintenance

- Scheduled monthly inspections
- Lubrication and cleaning services
- Component wear monitoring
- Software updates and optimization
- Safety system verification
- Performance testing and calibration
- Detailed service reports

Support Services

- 24/7 technical helpline
- Remote diagnostic capabilities
- On-site emergency response
- Spare parts availability
- Annual maintenance contracts (AMC)
- System upgrades and modernization
- Operator training programs

AMC Packages

Silver Package: Bi-annual maintenance with emergency support

Gold Package: Quarterly maintenance with priority support

Platinum Package: Monthly maintenance with 24/7 dedicated support

Warranty Coverage

- ✓ 1 year comprehensive warranty on all equipment
- ✓ 3 years warranty on structural components
- ✓ Extended warranty options available
- ✓ Free replacement of defective parts during warranty period
- ✓ No-questions-asked service commitment

Get in Touch

Let's Transform Your Parking Infrastructure Together



Let's discuss how our automated parking solutions can transform your project

Head Office

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Maharashtra, India

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Business Hours

Monday - Saturday: 9:00 AM -

6:00 PM

Sunday: Closed

24/7 Emergency Support

Available

Request a Free Consultation

Our experts are ready to help you design the perfect automated parking solution for your project

□ Call Now: +91 9373015503

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