

COMPANY LOGO HERE

MICRO ELEVATORS

Automated Parking Systems

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

ADVANCED TECHNOLOGY | MAXIMUM EFFICIENCY | PREMIUM QUALITY

www.microelevators.com | [\[email protected\]](mailto:)

About Micro Elevators

Leading Innovation in Automated Parking Solutions

Welcome to the Future of Parking

Micro Elevators 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 automated parking systems represent the perfect fusion of innovation, efficiency, and sustainability. Designed to meet the growing demands of modern urban environments, our systems provide seamless parking experiences while optimizing valuable real estate.

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 Micro Elevators?

- ✓ Industry-leading technology and engineering excellence
- ✓ Customized solutions tailored to your specific requirements
- ✓ Proven track record with major developers and commercial projects
- ✓ Comprehensive after-sales support and maintenance services

✓ Sustainable and environmentally responsible systems

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.



Smart Technology

IoT-enabled systems with mobile app integration. Real-time monitoring, predictive maintenance, and remote diagnostics capabilities.

Cost Effective

Lower operational costs with minimal maintenance requirements. No need for ventilation, lighting, or ramps reduces building expenses significantly.



Flexible Design

Customizable configurations to suit any building layout. Can be installed in new constructions or retrofitted into existing structures.



Reliable Performance

German engineering standards with robust construction. 99.9% uptime guarantee with redundant safety systems and backup power options.

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
- ✓ Semi-automatic to fully automatic operation
- ✓ Modular design for easy expansion
- ✓ Simultaneous multi-car retrieval
- ✓ Space efficiency up to 2.5x conventional
- ✓ Independent platform movement
- ✓ Minimal pit and overhead requirements
- ✓ 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/Mobile App based

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

Engineering

Detailed engineering drawings, structural calculations, and technical documentation

4

Manufacturing

Precision manufacturing of components with stringent quality control measures

5

Installation

On-site installation by certified technicians with minimal disruption

6

Testing

Comprehensive testing of all systems, safety features, and performance parameters

7

Training

User training and operations manual for facility management teams

8

Commissioning

Final commissioning and handover with warranty documentation

9

Support

24/7 technical support and preventive maintenance services

Project Timeline

Design & Engineering: 2-4 weeks

Manufacturing: 6-10 weeks

Installation: 4-12 weeks (depending on system size)

Testing & Commissioning: 1-2 weeks

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

Project Gallery

Our Successful Installations

PROJECT IMAGE 1

Luxury Residential Complex

50-car puzzle parking system installed in premium apartment complex, Mumbai

PROJECT IMAGE 2

Commercial Office Tower

80-car tower parking system for corporate headquarters, Bangalore

PROJECT IMAGE 3

Shopping Mall Installation

200-car shuttle parking system at major retail destination, Delhi NCR

PROJECT IMAGE 4

Hospital Parking Facility

120-car automated parking for healthcare complex, Pune

Project Gallery

More Success Stories

PROJECT IMAGE 5

Hotel Parking Solution

60-car automated parking for 5-star hotel, Hyderabad

PROJECT IMAGE 6

Mixed-Use Development

150-car multi-level puzzle system for urban redevelopment project

PROJECT IMAGE 7

Smart City Project

300-car shuttle parking as part of smart infrastructure initiative

PROJECT IMAGE 8

Residential Township

Multiple 40-car puzzle systems across gated community



Our Valued Clients

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



What Our Clients Say

"The automated parking system from Micro Elevators 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

Maintenance & Support

Comprehensive After-Sales Service

Our Commitment to Service Excellence

At Micro Elevators, 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

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Get in Touch

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

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Business Hours

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 10:00 AM - 5:00 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-XXXXXX-XXXXXX**