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# **MICRO ELEVATORS**

## Automated Parking Systems

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

ADVANCED TECHNOLOGY | MAXIMUM EFFICIENCY | PREMIUM QUALITY

[www.microelevators.com](http://www.microelevators.com) | [info@microelevators.com](mailto:info@microelevators.com)

# 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

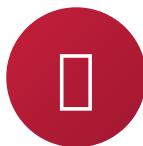
# Key Features & Benefits

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.



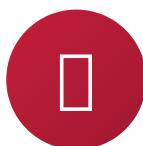
## Enhanced Security

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.



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# 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

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

### Ideal Applications:

- ✓ Premium residential towers
- ✓ Corporate headquarters
- ✓ High-end commercial complexes

## 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

## 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

## Training

User training and operations manual for facility management teams

## Commissioning

Final commissioning and handover with warranty documentation

## 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
- ✓ Structural stability certification

# 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**

**PROJECT IMAGE 4**

## **Shopping Mall**

### **Installation**

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

## **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

PROJECT IMAGE 8

## **Smart City Project**

300-car shuttle parking as part of  
smart infrastructure initiative

## **Residential Township**

Multiple 40-car puzzle systems across  
gated community



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# Our Valued Clients

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



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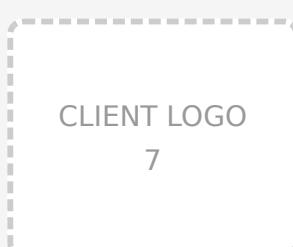
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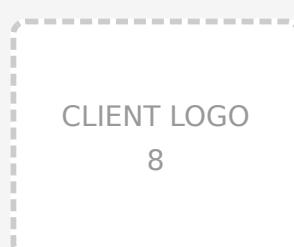
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## What Our Clients Say

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

*"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

## Head Office

### **Micro Elevators Pvt. Ltd.**

[Address Line 1]

[Address Line 2]

[City, State - PIN Code]

## Contact Numbers

Phone: +91-XXXX-XXXXXX

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Toll Free: 1800-XXX-XXXX

Fax: +91-XXXX-XXXXXX

## Email & Web

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Support:

[support@microelevators.com](mailto:support@microelevators.com)

Info:

[info@microelevators.com](mailto:info@microelevators.com)

Web:

[www.microelevators.com](http://www.microelevators.com)

## 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-XXXXX-XXXXX**

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