

ATRONEX

Empowering Intelligent Autonomy

DriveKit Conversion Kit

Technical Specifications

The DriveKit is an autonomous conversion kit that retrofits existing commercial zero-turn mowers with AI-powered autonomous capabilities. Compatible with all major brands, it requires no structural modifications and can be installed in 4-8 hours.

General Specifications

Specification	Value
Available Sizes	48", 52", 54", 60", 72"
Installation Time	4-8 hours
Structural Modifications	None required
Manual Override	Preserved - switch anytime
Operating Speed	6-8 mph
Coverage Rate	2-3 acres/hour
Slope Capability	Up to 35°

Navigation & Positioning

Specification	Value
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RTK GPS Accuracy	±2 cm
Navigation Technology	VSLAM + RTK + IMU Fusion
Map Storage	Up to 1,000 land plots
Mapping	One-time setup, Google Maps integration
Starlink Compatible	Yes - for poor GPS areas

Perception & Safety Systems

Specification	Value
LiDAR	360° coverage, 100m range
Cameras	4x HD cameras, 360° coverage
Radar	MM-wave radar for all-weather detection
Object Detection	People, pets, wildlife, obstacles
Minimum Detection Size	4 inches tall
Emergency Stop	Instant blade stop on detection
Geofencing	Virtual boundary enforcement

AI & Computing

Specification	Value
AI Processor	NVIDIA Jetson Orin
Computing Power	100 TOPS
Object Recognition	YOLO World real-time detection
Path Planning	Energy-efficient coverage algorithms
Cloud Integration	Fleet management & analytics

Connectivity	4G LTE cellular module
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Compatible Brands

DriveKit is compatible with all major commercial zero-turn mower brands:

- Scag (Tiger Cat, Turf Tiger, V-Ride series)
- Exmark (Lazer Z, Navigator, Radius series)
- Toro (Z Master, Titan, TimeCutter series)
- Husqvarna (PZ, MZ, Z500 series)
- John Deere (Z900, Z700, ZTrak series)
- Bobcat (ProCat, FastCat, QuickCat series)
- Bad Boy (Outlaw, Rebel, Rogue series)
- Ferris (IS, ISX, 500S series)