

ZERO
MOTORCYCLES®



TAKE CHARGE™

2016
MILITARY

MILITARY MOTORCYCLE



2016 ZERO MMX PROGRAM OVERVIEW

In almost every way, an electric motorcycle is well-suited for military applications. They are quiet, have low heat profiles, emit no exhaust, are simple to operate and incredibly fast. With this in mind, Zero Motorcycles developed a program that is specifically designed to meet the needs of military applications. Working alongside military personnel, Zero Motorcycles is able to deliver a motorcycle that includes the options and accessories required for a successful deployment and mission.

Using Zero Motorcycles' industry leading Z-Force® powertrain, the Zero MMX features quick swappable power packs, direct drive gearing and an air-cooled motor. With no transmission, powertrain fluids or gas, the Zero MMX is also easy to transport and maintain.

CONFIGURATION	
APPLICATION	MILITARY
MODEL	MMX
COLOR	██████████
CAPACITY	ZF6.5

PRODUCT FEATURES

The Zero MMX is designed and built to meet the needs of a wide variety of military applications. It can be customized with a selection of accessories for specific types of use and various duty cycles.

With no exhaust and being exceptionally stealthy, the Zero MMX holds unique tactical advantages over traditional internal combustion alternatives. The 100% electric powertrain offers personnel the ability to rapidly move over technical terrain while making virtually no noise and emitting no smell. Perhaps the most covert form of two-wheeled transportation, the motorcycle is completely silent when stopped and can accelerate instantly from 0 rpm.

SUMMARY OF WHAT'S NEW

New cell chemistry within the patented modular and removable Z-Force® power pack allows 14% more energy to be stored in the same amount of space and operate more efficiently, resulting in a system that boasts the highest energy density in the electric vehicle industry. This allows missions to be extended further and provides the rider with greater confidence.

The 2016 Zero MMX features improved ergonomics. A taller rise handlebar provides a more assertive riding position and improved leverage, and a new rear brake pedal yields better modulation and increased comfort.

STANDARD FEATURES

- » Keyed ignition
- » Modular and quick swappable power packs
- » Ability to operate in wet or rainy conditions with a one meter submersion capability
- » Chain-drive
- » Off-board charger
- » Off-road dash with indicators
- » Off-road tires
- » Kickstand

AVAILABLE OPTIONS

- » Military switchgear kit: includes military switches (keyless ignition, headlight, safety override, reserve, and infrared front & rear), headlight, fly screen, IR pigtailed.
- » Aggressive foot pegs
- » Tie down eyelets with integrated tow cable and rear seat strap
- » Onboard charger
- » Belt drive
- » Dual-sport tires
- » Hand guards
- » Passenger foot pegs
- » Road/street dash instrumentation



Military switchgear set



Tow strap



Hand guards



Aggressive foot pegs



Removable power packs



Chain drive



CRAFTED IN CALIFORNIA

TAKE CHARGE™
100% ELECTRIC

ZERO MMX » SPECIFICATIONS

ZERO MMX ZF6.5	
RANGE	
City	71 miles (114 km)
Recon riding	60-160 minutes
Aggressive tactical riding	40-140 minutes
MOTOR	
Max torque	68 ft-lb (92 Nm)
Max power	54 hp (40 kW) @ 4,300 rpm
Top speed (max)	85 mph (137 km/h)
Top speed (sustained)	70 mph (113 km/h)
Acceleration, 0-60 mph (0-100 km/h)	4.4 seconds
Type	Z-Force® 75-7 passively air-cooled, high efficiency, radial flux, permanent magnet, brushless motor
Controller	High efficiency, 420 amp, 3-phase brushless controller with regenerative deceleration
POWER SYSTEM	
Est. pack life to 80% (off-road)	4,130 hours
Power pack	Z-Force® Li-Ion intelligent modular
Max capacity	6.5 kWh
Nominal capacity	5.7 kWh
Charger type	1 kW, standalone
Charge time (standard)	5.9 hours (100% charged) / 5.4 hours (95% charged)
» With one accessory charger	3.2 hours (100% charged) / 2.7 hours (95% charged)
» With max accessory chargers	1.9 hours (100% charged) / 1.4 hours (95% charged)
Input	Standard 110 V or 220 V
DRIVETRAIN	
Transmission	Clutchless direct drive
Final drive	65T / 12T, 520 chain
CHASSIS / SUSPENSION / BRAKES	
Front suspension	Showa 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping
Rear suspension	Showa 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping
Front suspension travel	8.60 in (218 mm)
Rear suspension travel	8.94 in (227 mm)
Front brakes	J-Juan dual piston floating caliper, 240 x 4.5 mm disc
Rear brakes	J-Juan single piston floating caliper, 240 x 4.5 mm disc
Front tire	Pirelli MT-21 Rallycross 90/90-21
Rear tire	Pirelli MT-21 Rallycross 120/80-18
Front wheel	1.85 x 21
Rear wheel	2.50 x 18
DIMENSIONS	
Wheelbase	56.6 in (1,438 mm)
Seat height	34.7 in (881 mm)
Rake	25.4°
Trail	4.1 in (104 mm)
WEIGHT	
Frame	20 lb (9.1 kg)
Curb weight	280 lb (127 kg)
Carrying capacity	350 lb (159 kg)
ECONOMY	
Equivalent fuel economy (city)	417 MPGe (0.56 l/100 km)
Typical cost to recharge	\$0.73

ZERO MOTORCYCLES

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