



# ZERO

MOTORCYCLES®

# MACGYVER

SOLUTIONS, INC

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The Zero MMX is perfectly suited to military applications where silence, low heat signature, lack of exhaust, ease of operation and responsiveness are essential. 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.



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.



## STANDARD FEATURES

- Keyed ignition
- Modular and quick swappable power packs
- Ability to operate in wet conditions with a one meter submersion capability
- Hand Guards
- Tie Down and Tow Cable
- Aggressive Foot Pegs
- Chain-drive
- Off-board charger
- Off-road tires



**ZERO MMX ZF7.2 SPECIFICATIONS**

| <b>RANGE</b>                         |  |
|--------------------------------------|--|
| City                                 | 79 miles (127 km)  |
| Recon riding                         | 65-175 minutes   |
| Aggressive tactical riding           | 45-155 minutes   |
| <b>MOTOR</b>                         |  |
| Peak torque                          | 78 ft-lb (106 Nm)  |
| Peak power                           | 46 hp (34 kW) @ 4,300 rpm  |
| Top speed (max)                      | 85 mph (137 km/h)  |
| Top speed (sustained)                | 70 mph (113 km/h)  |
| Type                                 | Z-Force® 75-5 passively air-cooled, high efficiency, radial flux, interior permanent magnet, brushless motor   |
| Controller                           | High efficiency, 550 amp, 3-phase brushless controller with regenerative deceleration                          |
| <b>POWER SYSTEM</b>                  |  |
| Power pack                           | Z-Force® Li-Ion intelligent modular  |
| Max capacity                         | 7.2 kWh  |
| Nominal capacity                     | 6.3 kWh  |
| Charger type                         | 1 kW, standalone   |
| Charge time (standard)               | 6.0 hours (100% charged) / 6.5 hours (95% charged)   |
| └ With one accessory charger         | 3.5 hours (100% charged) / 3.0 hours (95% charged)   |
| └ With max accessory chargers        | 2.0 hours (100% charged) / 1.5 hours (95% charged)   |
| Input                                | Standard 110 V or 220 V  |
| <b>DRIVETRAIN</b>                    |  |
| Transmission                         | Clutchless direct drive  |
| Final drive                          | 65T / 12T, 520 chain   |
| <b>CHASSIS / SUSPENSION / BRAKES</b> |  |
| 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  |
| <b>DIMENSIONS</b>                    |  |
| Wheelbase                            | 56.6 in (1,438 mm)   |
| Seat height                          | 34.7 in (881 mm)   |
| Rake                                 | 25.4°  |
| Trail                                | 4.1 in (104 mm)  |
| <b>WEIGHT</b>                        |  |
| Curb weight                          | 275 lb (125 kg)  |
| Carrying capacity                    | 355 lb (161 kg)  |
| <b>ECONOMY</b>                       |  |
| Equivalent fuel economy (city)       | 420 MPGe (0.56 l/100 km)   |
| Typical cost to recharge             | \$0.81   |