RANGER MINI 2.0

CHIRONIX

AGILEX

- Four Wheel Independent Steering
- Multiple Moving Modes
- Hot Swap Modular Battery System
- Four Wheel Independent Suspension
- IP54 Dust-proof and Waterproof
- Secondary Development Supported

MOTION CONTROL OF 4WD OMNIDIR ECTIONAL ROBOT

The RANGER mini 2.0 is an upgraded version of the original RANGER mini. It provides an innovative design for a mobile robot that would operate within the context of an industrial application. It has flexible steering, strong manoeuvrability, a 0 turning radius, and can achieve 360° steering in situ by using 4*100W harmonic drives and 4*350W drive motor control systems.

INDEPENDENT SUSPENSIONS OFF ER MORE FLEXIBILITY

RANGER mini 2.0 adopts a four-wheel independent suspension system with a load capacity of 80 kg, which can effectively improve the robot's manoeuvrability, pass-ability, and safety. It has the ability to adapt to difficult fields of various industry scenes, with an over 15° slope and 80 m over ridge.

MODULE DE VELOPMENT, FAST CHARGING AND B ATTERY SWAPPING

RANGER mini 2.0 has a small size, high compatibility, long battery life, and is simple to maintain. It is outfitted with a variety of software and hardware interfaces and supports a wide range of top component applications.

It also supports fast charging and hot swapping functions to ensure that the robot always has power.

SPECIFICATIONS

DIMENSIONS (MM) (LXWXH)	**738 x 500 x 338**	OPERATING TIME	**8hrs**	GROUND CLEARANCE	**107mm**
WEIGHT	**63 kg**	MAX TRAVEL	**30km**	MOTOR	**4 x 100 W steering and 4 x 350 W driving**
MAX. PAYLOAD	**80 kg**	TURNING RADIUS	**0mm**	OPERATING TEMPERATURE	**-10–40°C**
MAX. SPEED	**6km/h**	BATTERY	**48V 24Ah**	COMMUNICATION	**Standard CAN**
MAX. INCLINE	**15° (with load)**	CHARGER	**54.75V 20A**	DRIVE TYPE	**In-wheel Motor**
STEERING	**Four wheel Independent**	CHARGING TIME	**1.5hrs**	PROTECTION LEVEL	**IP54**