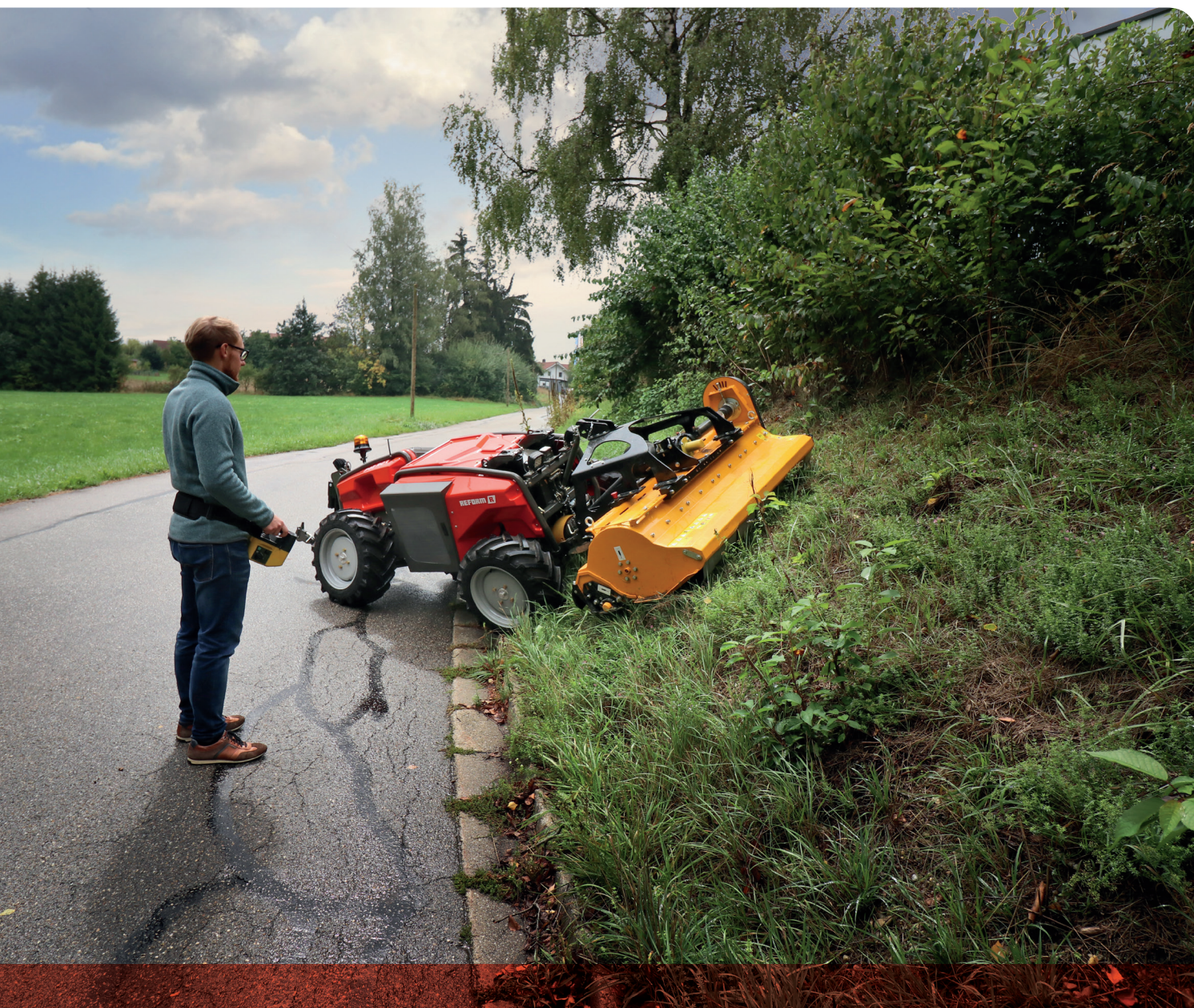


**Metron P48 RC**  
*Hybrid. Driverless. Revolutionary.*

**REFORM** 



## **Metron P48 RC**

The revolutionary tool carrier

Metron P48 RC

REFORM. Teamwork Technology.



## Technical Highlights

- Remote controlled
- Hybrid drive
- Four-wheel drive via 4 electric wheel motors
- Hydraulic components
- CAN bus control
- 3 full attachment areas
- 5 steering modes
- 100% electric work
- 48 volts
- 48 hp
- Emission level 5



# Metron P48 RC

The Metron P48 RC is the first remote-controlled tool carrier with a true hybrid drive. The vehicle concept is based on a 48 HP Kubota petrol engine, a generator flanged directly to the flywheel, 4 electric wheel motors and a battery pack. The Metron P48 RC has a front linkage with PTO and an optional rear linkage. There is also a mounting frame on the vehicle.

## Electric/petrol hybrid

The perfect interplay between electric motor and petrol engine makes for a highly efficient and particularly **eco-friendly power concept**. The hybrid drive concept, which consists of a **four-cylinder Kubota petrol engine** and a **power generator**, not only provides the traction drive, but also operates the PTO shaft.

## Operation

Professional work on steep terrain or along busy roads – always from a safe distance with the **intuitive remote control**. The vehicle is equipped with two **aerials** (transmitter and receiver) for reliable transmission over a distance of **400 m**. All functions are controlled from the remote control via joysticks, switches and potentiometers.



## Dimensions and weights

Power	35 kW/48 HP
Dead weight	1,150 kg
Length	from 2,200 mm
Width	1,400 mm
Height	1,150 mm
Wheelbase	1,450 mm
Wheel outer width*	from 1,420 mm

\*depending on the tyres

## Drive concept

The travel drive is fully **electric**. Four wheel motors drive the Metron forward. The whole vehicle concept is based on an operating voltage of **48 volts**. This means that everything, from the linkages

through the servomotors to the lighting, is supplied with 48 volts. The complete **elimination of hydraulic components** is unique in the tool carrier segment.

## Attachment areas

With **three** full-featured attachment areas, the Metron can be configured as a compact all-rounder. The Metron is equipped with a **front linkage** and **hybrid PTO** as standard. A rear linkage is optionally available. There is a third attachment area on **top of the vehicle**.

## Chassis

The Reform Metron has a **chassis connected** by a **pivot joint** that **adapts to the specific ground contour**. The wide range of different tyres means that the vehicle can be adapted to very different terrain and soil conditions.

## Service

The Metron has been designed to be low-maintenance. The **electric components** in particular, such as the wheel motors and servomotors for steering and the linkages, have a robust design, long service life, and are maintenance-free. **Eliminating the hydraulic oil** and the associated oil change intervals is a major advantage when it comes to maintenance.



### Engine

Kubota WG1605 petrol engine  
35 kW/48 HP  
Torque 120 Nm  
2,800 rpm nominal speed  
Emission level 5



### Chassis

**5 steering modes**  
Front, rear, four-wheel, crab, and device-centred steering  
Wheelbase 1,420 mm



### Drive

**Electric motor**  
V&P TDS 150  
4 x 4.8 kW/48 V  
Speed 5,400 rpm  
Integrated freewheel



### Linkages

Linkages with electric servomotors  
**Front linkage**  
Cat. 1 Lifting force 650 kg  
**Rear linkage**  
Cat. 1 Lifting force 400 kg  
**Front PTO**  
540 and 1,000 rpm

Technical data		Metron P48 RC
Combustion engine		
Type	Kubota WG1605	
Fuel	Petrol	
Power hp	48	
Power kW	35	
Displacement cc	1590	
Cylinders	4	
Torque Nm	120	
at engine speed	2,400	
Nominal speed rpm	2,800	
Emission level	5	
Fuel tank, litres	45	
Power generator		
Type	InMotion GSM306	
Voltage supply V	48	
Max. power kW	32	
Torque Nm	115	
Direct through-shaft	✓	
Brushless, maintenance-free	✓	
Electronic control	✓	
Battery pack		
Dry pure lead batteries	4	
Capacity kwh	8.5	
Charge via current generator	✓	
External charger	o	
Recuperation-capable	✓	
Intelligent battery management system	✓	
Drive/chassis		
Synchronous electric wheel motors with 4.8 kW each, recuperation-capable	4	
Speed rpm	5,400	
Integrated freewheel	✓	
Electronically controlled differential lock	✓	
Electronically controlled traction control	✓	
Permanent four-wheel drive	✓	
Pivot joint with up to 25° oscillation	✓	
Different steering modes	5	
Front PTO 540/1,000 rpm	✓	
Rear linkage	o	
Tyres		
Tractor tyres	27 x 10 x 15.3	
Terra tyres	320/55-15	
Operation		
Intuitive remote control with 4.3" colour display	✓	
Camera with image transfer to display	o	
Integrated battery charger for remote control battery	o	
Standard	✓	
Optional	o	

Illustrations may show special equipment. Typographical errors and technological changes excepted.

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