

RP 450HM_V

THE MULTI-GAUGE HYBRID SOLUTION



ADJUSTABLE TRACK GAUGE ALLOWS THE MEWP TO OPERATE ON ALL MAJOR RAILWAYS

THE ONLY HYBRID MULTI-GAUGE MEWP TO OPERATE AUTONOMOUSLY ON A FULL BATTERY FOR UP TO 50 HOURS* WORK



* In default conditions with battery pack 840Ah



UNIQUE MULTI-GAUGE SYSTEM

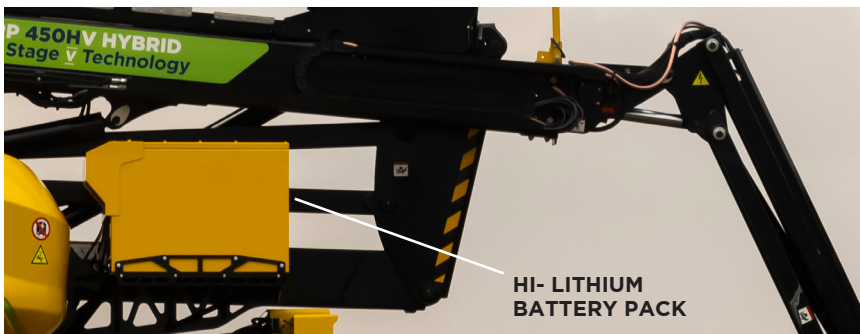


KEY FEATURES

- **HI- LITHIUM BATTERY PACK FOR UP TO 50* HOURS WORK**
- **TIER 5 ENGINE WITH STAGE V TECHNOLOGY**
- **DYNAMIC NEW SHAPE**
- **16.68m WORKING HEIGHT**
- **WORKING AND TRAVELLING OVER THE SIDE**
- **180-DEGREE BASKET OSCILLATION**
- **360-DEGREE TURRET ROTATION**
- **450kg BASKET**
- **AVAILABLE WITH NEW PA64 PANTOGRAPH (Range 4.2m to 6.4m)**

THE HYBRID SOLUTION

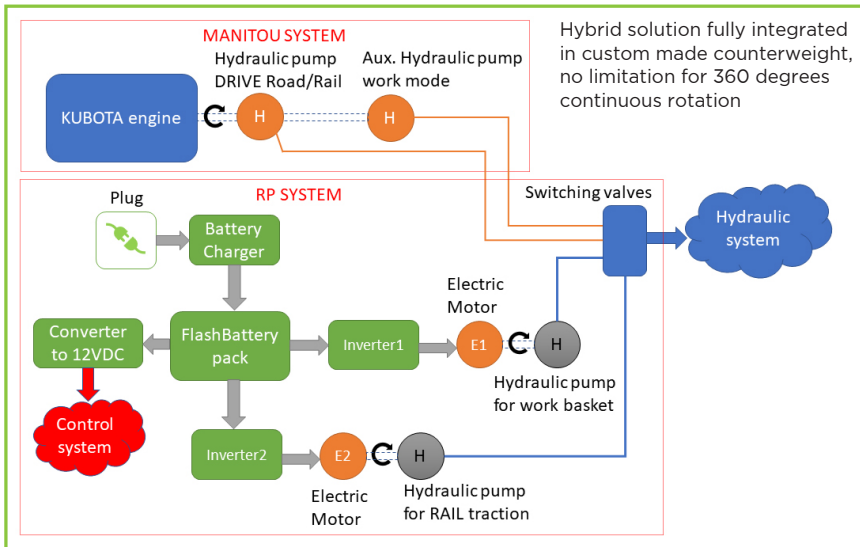
50 hours* of continuous work on a full 840Ah battery pack



HYBRID POWER PACK

- Hybrid solution – Tier 5 combustion engine + electric motors automatically managed by control system
- Flash Battery Lithium battery 840Ah (or 420Ah[†]) – 48VDC system, zero maintenance, remote control[†] and balancing system
- Fast charge with current up to 60amps (option: current up to 120amps), single phase 230V charger onboard
- Two independent electric motors (traction and work basket)
- 50 hours* autonomous work
- Electric power saving solution (hydraulic pumps work only when needed)
- Lightweight revolutionary synchronous motors
- Fast 100% recharge of battery within five and half hours in a single phase via 120-amp plug-in option.

[†] Option * In default conditions with battery pack 840Ah



FULLY INTEGRATED CONTROL PANEL WITH FULL CRUSH PROTECTION



All key controls and rail functions are now instantly to hand for the operator, supported by a dynamic visual display demonstrating all aspects of the machine's functionality, including speedometer, basket position, diagnostics, alarms, pantograph[†], rear view camera[†] and much more.

TECHNICAL SPECIFICATION

Specifications RP 450H MV on Rail

Multi gauge frames will be made in the following configurations:

- dual gauge, mechanically adjustable from 1000-1435mm

- tri gauge, mechanically adjustable from 1067-1435-1600mm

Working height	16.68m
Platform floor height	14.68m
Max. outreach	8.02m
Up and over clearance	7.40m
Jib movement	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	360°
Capacity	450kg
Maximum allowed wind speed	45km/h
Basket size	2.30 x 0.90m
Lifting time	40s
Engine Kubota type D1105-E4B, 3 cylinder Stage V, 18.7 kWMax	24.5hp
Working speed on rail	1.0km/h

Maximum travel speed rail	10km/h
Max. gradient	60%
Max. cant	180mm
Dual gauge, travel over the side	over 360° till 105 mm cant
Hydraulic tank capacity	53L
Diesel tank capacity	51L
Total weight	11,600kg
Width (overall width with basket)	2.45m
Length	7.38m
Length (Travel / transport)	6.15m
Height	2.47m
Height (Travel / transport)	2.94m
Inside turning radius	1.32m
Outside turning radius	3.68m
Outside turning radius with basket	6.39m
Ground clearance	42.5cm
Wheelbase	3.75m

EQUIPMENT AND OPTIONS

Standard equipment

- Large basket
- 4 wheel drive
- Proportional controls
- 4 simultaneous movements
- Foam filled tyres
- Differential lock
- Limited-slip front axle
- Diagnostic-calibrator
- Hourmeter
- Low-fuel indicator
- Horn
- Flashing beacon
- Audible and visual tilt and overload alarms
- Slope over ride
- Lifting eyes
- Electric emergency pump
- Prefitted for 230 V
- Dead man's pedal
- Tool tray
- Protective cover (lockable)
- Oscillating axle for road
- Pendeling axle for rail
- Continuous rotation
- 4 lights in basket, 1 at the counterweight

Options

- 230v connection with circuit breaker on the arm head
- Access control keypad for easy link
- Generator (3.5 or 5 kW)
- Working light
- Safety valve
- Spark arresting muffler
- Highly capacity battery
- Sound signal for all movements
- Insulated wheels
- Different rail wheel profiles
S 1002 profile, diam. 470 mm. (std.)
C profile, diam. 450 - 470 mm
E profile, diam. 450 - 470 mm
ANZR G 1 profile, diam. 450 - 470 mm;
Mixed profile, diam. 470 mm.
(for local track)

- PA 64 hydraulically adjustable pantograph, which is adjustable in height from 4.200 till 6.420 mm. The height can be recorded, and the readout can be taken by USB (type preferably 2.0), readout will show an excel file with all recordings, (height, stagger etc.) as well as a graphic drawing. With the pantograph build on the machine, the floor height will be 12.880 mm.
- 360° adjustable ALO, electronically adjustable in parameters screen
- RP 500 Carry Platform.
Max load 500kg, own weight 70kg
- ATR 450 Aluminium Trailer, capacity 450 kg, own weight 70.9 kg.

Compliant to the following standards

- EN-15746-1 :2020 - Road Rail machines and associated equipment
- EN 15746-2 :2020 - Road Rail machines and associated equipment
- EN 280 A 1:2011 + A2:2015 Mobile elevating platforms
- EN 15955 1 & 2:2013 - Railway applications demountable machines
- 2006:42/EG Machine Guideline

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