

RP 450H V / RP 450H V⁺

THE HYBRID SOLUTION



HIGH PERFORMANCE
LOW EMISSIONS

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



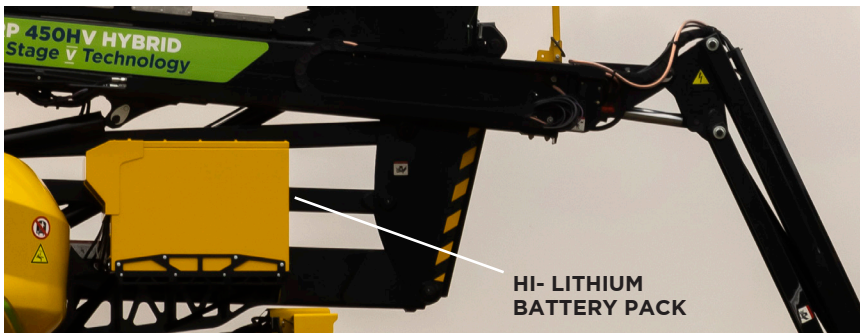
* In default conditions with battery pack 840Ah

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

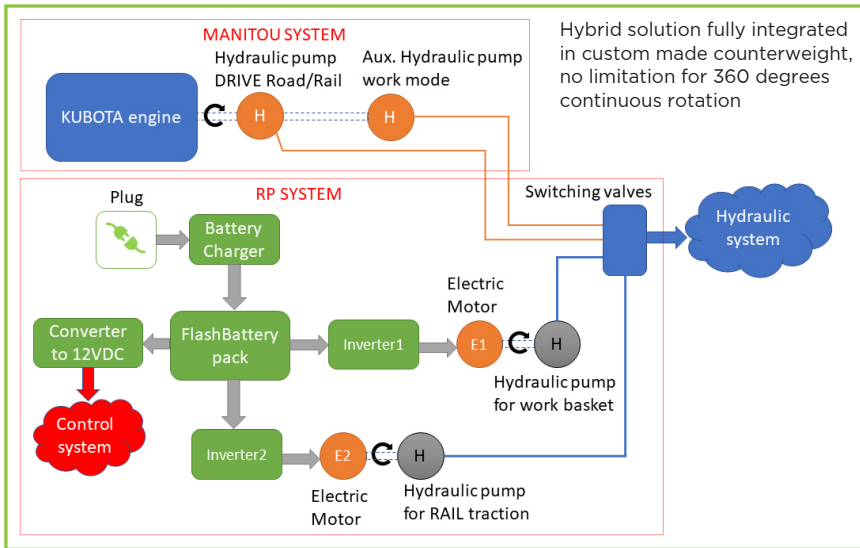
50 hours* of continuous work on a full 840Ah battery pack



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 450HV & RP 450HV+ on Rail

Working height	16.68m	Working and travel over the side	Over 360°, max. 7.60m
Platform floor height	14.68m	Hydraulic tank capacity	53L
Max. outreach	8.02m	Diesel tank capacity	51L
Up and over clearance	7.40m	Total weight	11,600kg
Jib movement	+70°/-70°	Width (overall width with basket)	2.45m
Basket rotation	+90°/-90°	Length	7.38m
Turret rotation	360°	Length (Travel / transport)	6.15m
Capacity	450kg	Height	2.47m
Maximum allowed wind speed	45km/h	Height (Travel / transport)	2.94m
Basket size	2.30 x 0.90m	Inside turning radius	1.32m
Lifting time	40s	Outside turning radius	3.68m
Engine Kubota type D1105-E4B, 3 cylinder Stage V, 18.7 kWMax	24.5hp	Outside turning radius with basket	6.39m
Maximum travel speed rail	10km/h	Ground clearance	42.5cm
Max. gradient	60%	Wheelbase	3.75m
Max. cant	180mm		

EQUIPMENT AND OPTIONS

Standard equipment

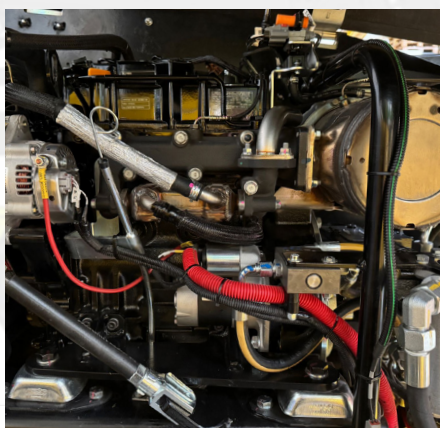
- Large basket
- 4 wheel drive
- Proportional controls
- 4 simultaneous movements
- Foam filled tyres
- Differential lock
- Limited-slip front axle
- Diagnostic-calibrator
- Hourmeter
- Low-fuel indicator
- Horn
- Flashing beacon
- Audible and visual tilt and overload alarms
- Slope over ride
- Lifting 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

- Generator (3.5 or 5 kW)
- Working light
- Sound signal for all movements
- Multi gauge chassis adjustable 1067-1435-1600 mm (MG1)
- Multi gauge chassis adjustable 1000-1435 mm (MG2)
- 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.



Engine specification for RP 450HV+

Yanmar -3TNV88C, 3 Cylinder Stage V,
34 Hp/25.50 kW
Maximum travel speed 17kmh

Smart diesel technology for clean power

- ✓ High Power Density
- ✓ No scheduled maintenance DPF for 6,000 hours
- ✓ Tough and reliable power
- ✓ Best in class fuel consumption
- ✓ Compliant to EU StageV/EPA-CARB Final Tier 4

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