

SPECIFICATION SHEET: MCW Metrobus (Mk1)

GENERAL INFORMATION

Chassis and Body Manufacturer	Metro-Cammell Weymann Ltd., Birmingham	
Vehicle designation (semi-integral)	MCW DR101 / DR 102	
Body construction	Riveted aluminium alloy plus steel	
Seating capacity (typical examples)	73 (43/30) (Single-door) 71 (43/28) (Two-door)	
Standing capacity	18-21 depending on individual features	
Overall dimensions (length / width / height)	9550 / 2500 / 4375 mm	31' 4" / 8' 1 ⁷ / ₈ " / 14' 4 ¹ / ₄ "
Front overhang / wheelbase / rear overhang	2240 / 4950 / 2360 mm	7' 4 ¹ / ₂ " / 16' 3" / 7' 9"
Track (centreline of wheels) Front/rear	2092 / 1890 mm	6' 10 ³ / ₈ " / 6' 2 ³ / ₈ "
Unladen weight (axle) (front / rear / total)	3201 / 5944 / 9145 kg	7056 / 13104 / 20160 lb
Laden weight (maximum rated)	6604.3 / 10160.5 / 16256 kg	14560 / 22400 / 35838 lb
Fuel tank capacity (right side fill)	204.5litre	45 gallon
Turning Circle - Swept	19500 mm	64' 0"
Turning Circle - Between Kerbs	16700 mm	54' 9 ¹ / ₂ "
Turning Circle - Inner Rear Wheel	8477 mm	27' 10"
Geared maximum speed	44 mile/h (70 km/h) typical (With Voith 3-speed gearbox)	

BODY DETAILS

First entrance step	317 mm	1' 0 ¹ / ₂ "
Second entrance step	219 mm	0' 8.1 ¹ / ₂ "
Headroom Lower/upper	1854 / 1830 mm	6' 1" / 6' 0"
Saloon Heating	Blown air heating units mounted under stair, thermostatic control	
Cab Heating	Heater/demister, air mixing, with 2 speed fan	

ENGINE

Make and Type	Gardner 6LXB 10.45- litre (Rolls-Royce Eagle alternative)
Power rating	127 kW (170 bhp) @ 1850 rev/min (or up to 135kW/180 bhp)
Torque Output	762 Nm (562 lbf ft) @ 1000 rev/min

TRANSMISSION

Make and Type (standard)	Voith D851 three speed automatic, with integral retarder
Alternative	Voith D854 four speed automatic, with integral retarder

AXLES

Rear	GKN Kirkstall hub reduction D65 (10 ton capacity) Typical (bus) Ratio 5.10:1 overall (including hub reduction)
Front	GKN Kirkstall D65 (6.5 ton capacity)

BRAKING SYSTEM

Service Brakes	Front/rear split air (standard) or power hydraulic (London) system S-cam drum brakes with SAB adjusters
Handbrake	Spring brakes acting on rear axle

STEERING, SUSPENSION & WHEELS

Steering Type	ZF Integral ram type
Suspension Type	Full air
Suspension Layout	Front beam axle 2 air bellows, single levelling valve Rear sub-frame 4 air bellows, twin levelling valves
Wheels / Tyre size and rating	7.5x22.5" steel wheel discs / Tyres 275/70R22.5 (11/70R22.5)

ELECTRICAL SYSTEM

System	24 volt
Interior Lighting	Fluorescent
Rear Lights	BMAC