

## Matchless G80S 1956

### Technical Specifications:

Capacity	500cc
Bore & Stroke	82,5 x 91mm
Valve gear	Fully enclosed, positive lubrication
Overhead valves	pushrod operated (dur-aluminium)
Twin camshafts	road & competition profiles
Crankcase	light-alloy, cast-in oil channels
Crankshaft/flywheel assembly	built-up, two-disc, two-piece crankpin, supported drive side by 2 ball bearings, timing side by 1 plain bronze bushing
Connecting Rod	forged high-tensile steel, caged triple-row roller big-end bearing, bronze/alu little-end bushing
Piston	Wire wound, low tolerance, 3-ring (incl. oil scraper ring)
Lubrication	Dry sump, gravity feed from oil tank to pump
Oil pump	2-way plunger type, feed and scavenge action, force feed to big-end bearings and valve gear, gravity return to sump for scavenge and return to tank
Carburettor	Amal Monoblock 389, optional air filter
Ignition	Lucas rotating magneto w. auto-advance/retard mechanism (manual advance on comp. models)
Transmission	Primary chain from crankshaft to clutch, running in oil bath pressed steel chain case. Final drive chain, protected by extended chain guard
Gearbox	Burman (B52) 4-speed
Frame	Single down tube, swinging arm, malleable lugs and brazed joints. Vertical seat tube.
Suspension	Rear: swinging arm with oil damped sprung units, "Jampots" Front: telescopic oil damped sprung units, "Teledraulics"
Mudguards	Centrally ribbed, valanced, sheet metal, front: w. one front stay and central support-bridge, rear: combined rear stays/grab handles and detachable end piece.
Wheels	Full width alloy hubs w. chromed steel rims, straight spokes, rear quickly detachable, w. tommy bar spindle, rear drum cum chain wheel remains attached to swinging arm by washer&nut
Brakes	Full width, 3 inch internally expanding, leading shoe, bowden cable operated.
Tyres	Front: 3.25 x 19 inch ribbed, rear: 3,50 x 19 inch studded, special patterns for off-road applications
Tanks	Petrol: saddle type, pressed steel, 3,75 imp. gal., oil: pannier type, pressed steel, 5/8 imp. gal.
Handlebars	7/8" Fully adjustable wide grip touring bars
Seat	Vinyl covered, Dunlopillo, Dual seat
Electrical System	Lucas DC dynamo, 40W, Lucas CVC regulator, +-ground, head, stop and sidelights, Lucas horn