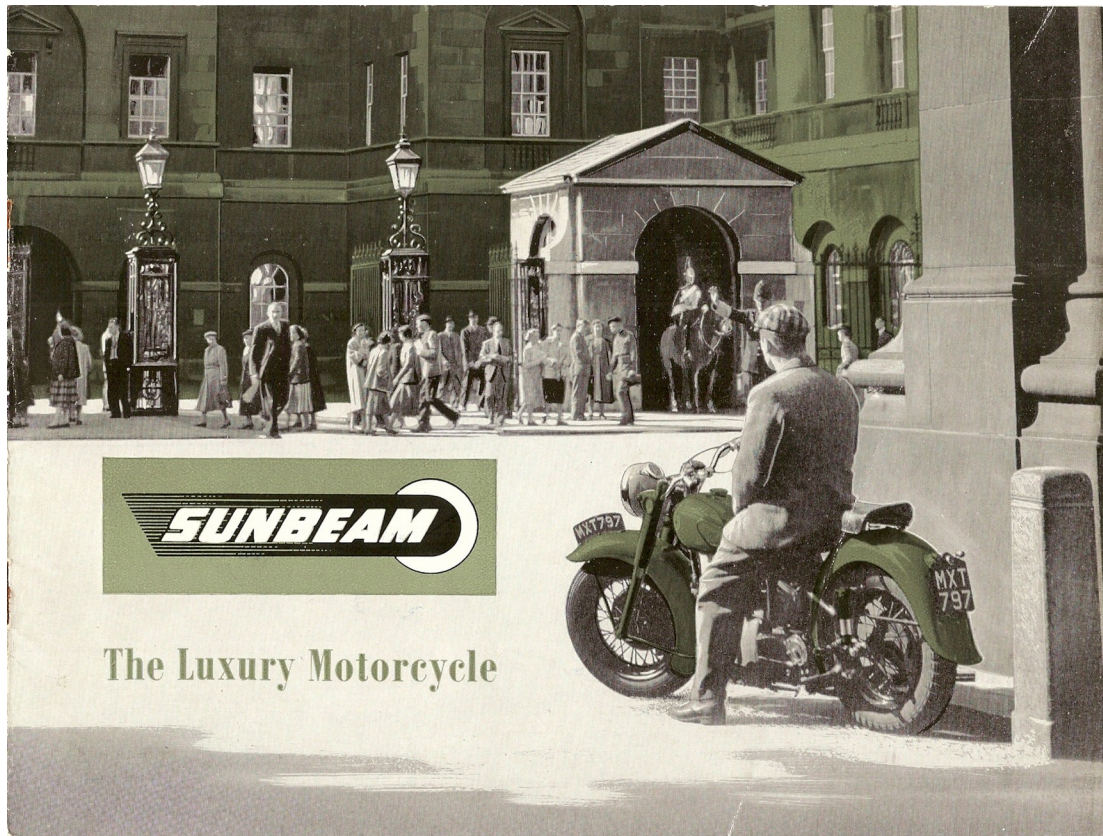


Catalogue Ariel 1956



Power . . . Performance . . . Personality



The Sunbeam combines elegance with smooth surging power, advanced design with reliability, sturdy construction with luxurious riding comfort.

Solo or sidecar, it's the obvious choice if you want the best there is in motor cycling



SUNBEAM 500c.c. OVERHEAD CAMSHAFT TWIN

GENERAL SPECIFICATION

POWER UNIT: Fully-floating power unit, mounted on rubber, with high-frequency vibration damper.

ENGINE: Unit construction vertical twin, 2 1/2 in. bore x 2 1/2 in. stroke; crankcase and cylinders in one-piece aluminium alloy casting and detachable 'Brivadium' cylinder liners; one-piece aluminium alloy cylinder head; overhead camshaft drive by chain with automatic tensioner; totally-enclosed and specially lubricated cam and rocker gear; light alloy connecting rods with special 'Vandervell' plain shell big-end bearings; crankshaft main bearings—front, roller journal; rear, 'Glacier' plain shell white metal; Amal carburettor; Vokes (oil dip) air cleaner.

LUBRICATION: Car type engine lubrication; separate oil supply for gearbox and rear drive; other parts by grease gun.

TRANSMISSION: Direct drive from engine through single plate car-type dry clutch to gearbox; four speeds with positive-stop foot gear change; shaft drive to rear wheel from gearbox layshaft through one shock absorber and one needle bearing universal joint; final drive from shaft to rear wheel by totally enclosed worm gear; gear ratios: solo 5.3, 6.5, 9.0 and 14.5 to 1; sidecar 6.13, 7.4, 10.3, 16.6 to 1.

MODEL S7

SILENCER: Absorption type, chromium plated.
WHEELS: Instantly detachable and interchangeable.
TYRES: Front: 4.50—16 ribbed. Rear: 4.75—16 studded.
BRAKES: 8 in. diameter.
SADDLE: Spring cradle mounting, adjustable for rider's weight.
FINISH: Mist green with black frame and chromium-plated handlebar, exhaust system, etc.

FRAME: Tubular duplex cradle; telescopic front forks with automatic hydraulic damping; rear suspension by totally enclosed plunger springs; rubber mounted petrol tank (capacity three gallons with half-gallon reserve); easy action central stand; integral frame lugs for L.H. or R.H. sidecar attachment. Domed and valanced mudguards, rear hinged.

CONTROLS: Twist grip throttle, front brake and horn button on right bar; clutch and dip switch on left bar. Handlebar and footrests adjustable to suit rider.

EQUIPMENT: Dunlop tyres; Lucas 6 volt 60 watt dynamo lighting set with compensated voltage control; 8 in. headlamp with built-in speedometer, ignition and oil warning lights; new style rear number plate with combined stop and tail lights; coil ignition with automatic advance. Coil, cut-out, switch, ammeter and spare bulb holder in offside box protected from weather; battery in rubber buffers in nearside box. Electric horn; spring seat saddle; metal toolbox, complete with tool kit; tyre inflator; licence holder; folding prop stand. Saddle type pillion seat and folding pillion footrests extra.

MODEL S8

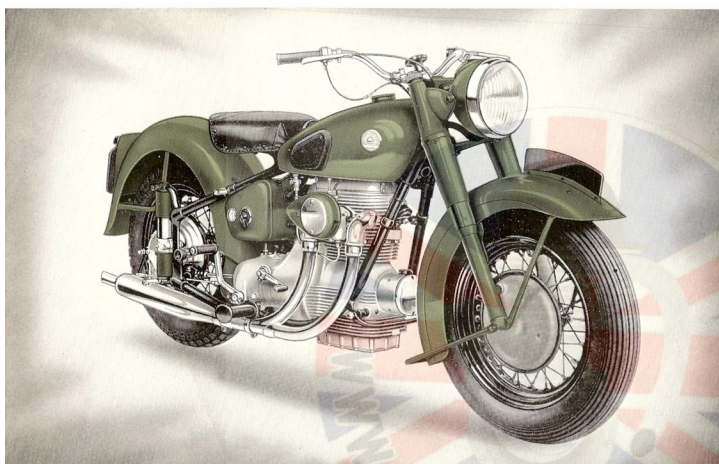
Baffle type, cast aluminium.
 Instantly detachable.
 Front: 3.25—19 studded. Rear: 4.00—18 studded.
 Front: 7 in. diameter. Rear: 8 in. diameter.
 Three-point attachment.
 Black lustre with chromium-plated handlebar, exhaust pipes, etc.. Alternative colour, silver grey, £3 extra plus 14/5 tax.

SUNBEAM DIVISION OF B.S.A. MOTOR CYCLES LTD., BIRMINGHAM, 11

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SM 109-10

Printed in England, November 1955



SUNBEAM 500 O.H.C. TWIN Model S7

£230 plus £55 4s. tax

The admiration accorded to the Sunbeam S7 is due to the unique qualities that set it entirely apart from all other motorcycles, and contribute to its identity as the ideal luxury touring machine. Its engine and transmission are so liquid-smooth that the rider is scarcely aware of their existence—the machine moves so effortlessly and silently, requiring throughout its long life the minimum of maintenance.

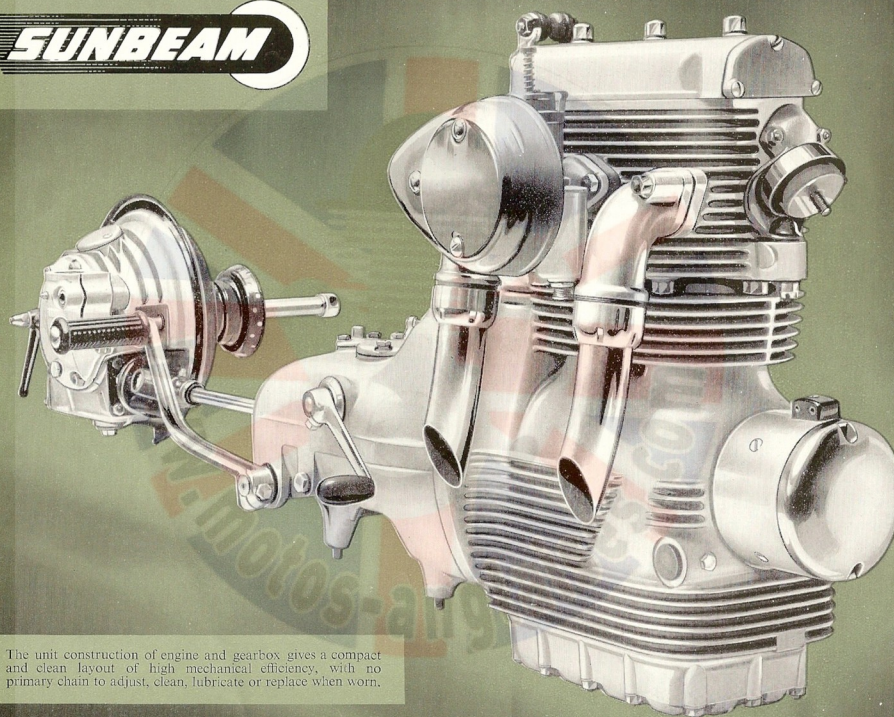




SUNBEAM 500 O.H.C. TWIN Model S8

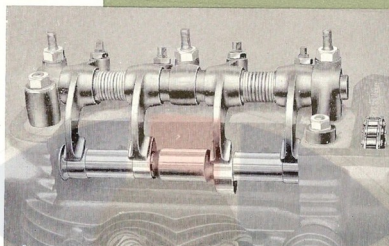
£210 plus £50 8s. tax

The Sunbeam S8 is planned for the motorcyclist who desires an appreciable gain in performance but in return is ready to sacrifice a fractional degree of comfort. This lighter Sunbeam appeals to the sporting rider because of its quicker, more eager response, whilst he still enjoys the smooth effortless power which the S7 introduced to the motorcycling world.

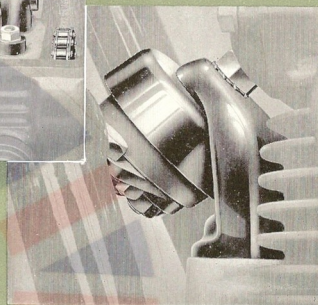


The unit construction of engine and gearbox gives a compact and clean layout of high mechanical efficiency, with no primary chain to adjust, clean, lubricate or replace when worn.

The all-aluminium alloy construction of the O.H.C. vertical twin engine, comprising cylinder block and crankcase in one piece, with separate cylinder head block, gives super cooling with correct heat distribution and a high power/weight ratio.

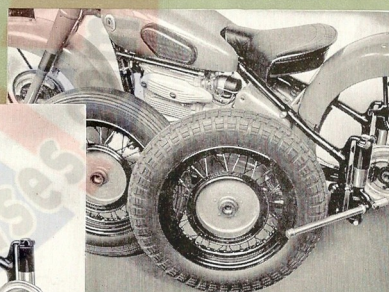


The engine-gearbox unit is freely suspended on all-rubber mountings, scientifically designed to absorb all torque and inertia vibrations. A high-frequency vibration damper is also incorporated and these features, coupled with the output characteristics of the engine, give an incomparable degree of smooth and silent performance.



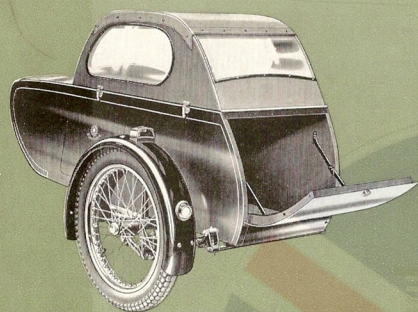
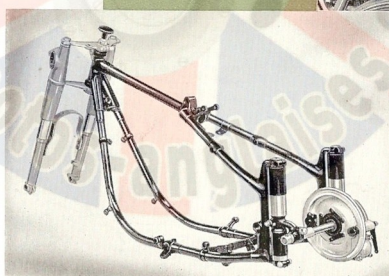
Features

Wheel removal is carried out in a matter of seconds only, thanks to the instantly detachable knockout spindle principle employed, which leaves the brakes and the rear drive unit undisturbed in position. Another valuable and unique feature is that the wheels are also interchangeable.



The great lateral rigidity of the duplex frame gives superb road-holding.

Steering response is immediate and positive. Duplex cradle frame and high performance go hand in hand.



Sidecars

DE LUXE TOURER Model S22-50. Finished in black, grey or mist green. The light weight of this handsome touring sidecar, its useful luggage accommodation and the superb comfort of its springing and seating make this sidecar very suitable for fast, long distance touring.

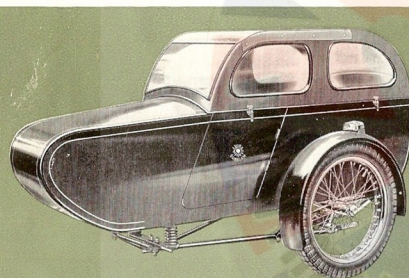
Leg room 51", seat width at elbows 21½". Height inside 30". Luggage compartment 25" x 17" x 12½".

£64 10s. plus £14 19 11 tax

SINGLE SEAT SALOON Model S22-54. Finished in black. The comfort, smart appearance and many practical features of this single seat saloon sidecar make it ideal for year round transport. The luggage compartment is fitted with a lock and the lid at the rear hinges down to form a platform.

Leg room 51", seat width at elbows 21½". Height inside 30". Luggage compartment 22" x 20" x 18".

£67 plus £15 11 7 tax



FAMILY SIDECAR Model S23-52. Finished in black. This is the sidecar for the family man. It provides saloon-car comfort for an adult and child. It is completely weatherproof. The top of the body hinges towards the machine for easy access.

Leg room 51", seat width at elbows 21". Height inside 32".

£70 10s. plus £16 7 10 tax

