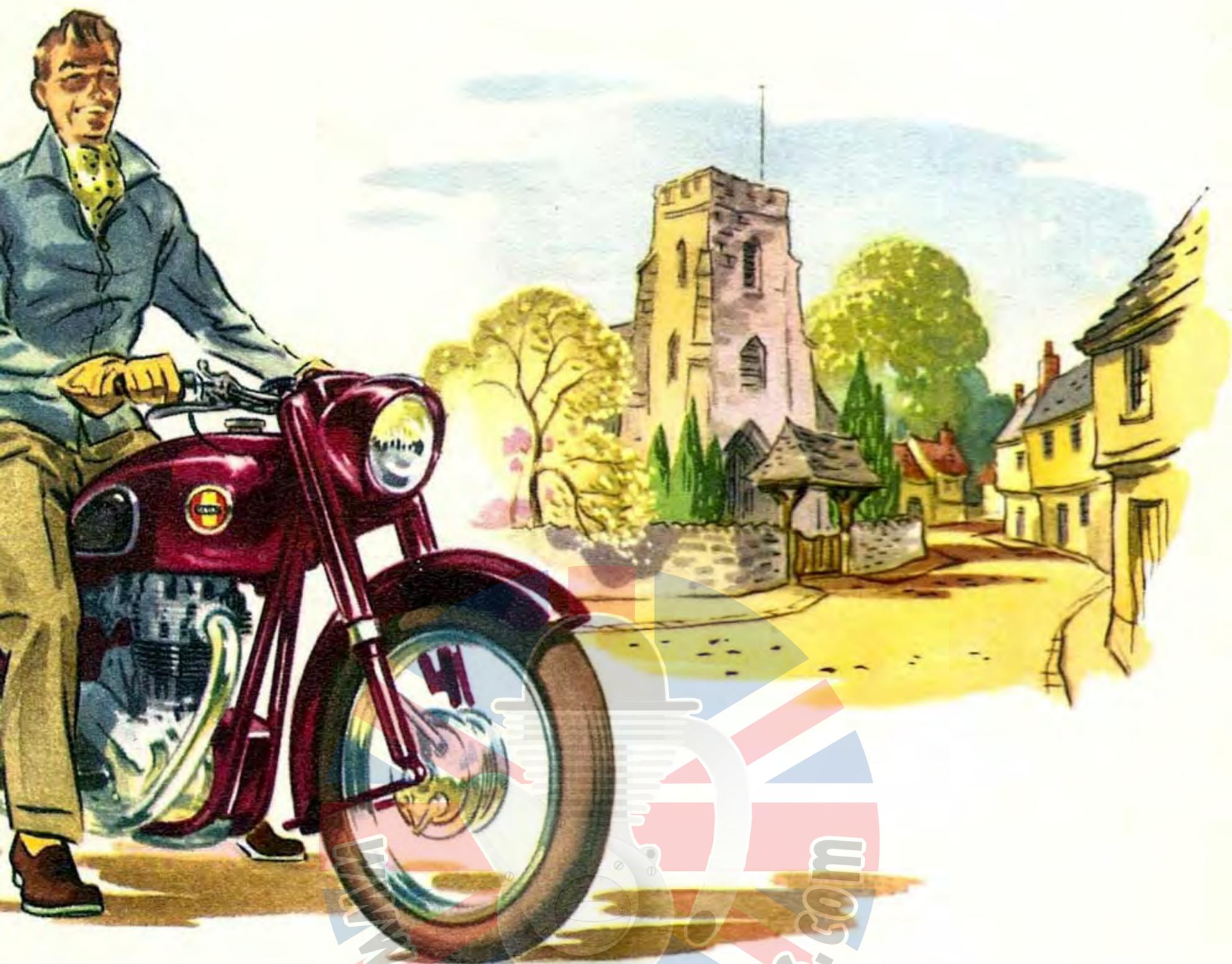


ARIEL

THE MODERN
MOTORCYCLE





FORWARD

The four models illustrated and described in this Folder, together with the 650 c.c. Huntmaster and the revolutionary Leader (see separate lists) constitute the Ariel programme for 1959. Headed by the most wonderful motor cycle of all time, the 1,000 c.c. Square Four, unchallenged for over 30 years, supported by the World renowned Red Hunters and the fascinating Colt, prospective buyers are assured of the highest possible standard of workmanship and reliability.

Ariel motor cycles are giving loyal service to their owners in almost every country in the World and we hope it will be our good fortune to make many more friends during 1959.

In preparing this Folder we have endeavoured to give as much detail as possible but if there are points on which the reader is not quite clear please do not hesitate to let us know.



The **SQUARE FOUR**

MODEL 4G

Engine: Four cylinder O.H.V. 65×75 mm. = 997 c.c. ($2.56 \times 2.95 = 60.8$ cubic inches). Aluminium alloy cylinders with wear resisting sleeves. Aluminium alloy cylinder heads with valve seat inserts. Vachrome top piston rings. Twin crankshafts mounted on heavy duty roller and white metal lined bearings, coupled by hardened and ground gears. Light alloy connecting rods with white metal liners. Lubrication: double gear pump. S.U. variable choke carburetter with air cleaner. Lucas coil ignition, incorporating 70 watt voltage controlled dynamo. Distributor and automatic advance. 20 amp. battery.

Frame: Full cradle type. Lugs for sidecar attachment either side. Ariel patented plunger rear suspension. Thief-proof steering lock. Stands: forged steel girder spring-up rear and strong tubular front, also foot-operated prop stand.

Front Forks: Telescopic with hydraulic damping. Attractive headlamp hood and fork cover with built-in illuminated instrument panel, containing speedometer, ammeter and lighting switch.

Hubs: Full width polished light alloy front with central brake and powerful 8 in. diameter rear brake, with non-fade linings. Car type fulcrum adjustment. Heavy duty ball bearings throughout. Quickly detachable rear wheel.

Transmission: Four-speed gearbox, foot control. Three-plate dry clutch. Engine shaft shock absorber. Polished aluminium oil bath primary chain case.

Petrol Tank: Rubber mounted, enamelled and lined, with chromium plated motifs. Quick action filler cap.

Mudguards: Rear: wide D section: back end detachable for easy wheel removal. Front: deep valanced.

Equipment: Basic price includes air cleaner; prop stand; thief-proof steering lock; quickly detachable rear wheel; Ariel design dual seat and pillion footrests; trip speedometer, 120 m.p.h. (180 km.p.h.); $7\frac{1}{2}$ in. headlamp; stop and tail lamp incorporating reflector; electric horn; tool box and tools; tyre inflator.

Finish: Superbly finished in Deep Claret, Glamour Red and Black, or all Black.



The **RED HUNTER 350cc MODEL NH**

Engine: Vertical O.H.V. 72 × 85 mm. = 347 c.c. (2.83 × 3.34 = 21.2 cubic inches). Aluminium alloy cylinder head with valve seat inserts. Cast iron cylinder. Vachrome top piston ring. Crankshaft mounted on three heavy duty ball bearings. Double row roller big end. Gear driven camshaft. Push rod operated overhead valves. Lubrication: double plunger pump. Chain driven magdyno. Manual ignition control. Amal 'Monobloc' carburetter with air cleaner.

Frame: Duplex cradle type, fully triangulated, ensuring great rigidity. Swinging arm rear suspension. Hydraulic damping. Rubber bushed pivots. Lugs for sidecar attachment either side. Thief-proof steering lock. Stands: easy-lift spring-up central and strong tubular front, also foot operated prop stand.

Front Forks: Telescopic with hydraulic damping. Attractive headlamp hood and fork cover, with built-in illuminated instrument panel containing speedometer, ammeter and lighting switch.

Hubs: Full width polished light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with non-fade linings. Car type fulcrum adjustment. Quickly detachable rear wheel.

Transmission: Four-speed gearbox, foot control. Three-plate dry clutch. Engine shaft shock absorber. Polished aluminium oil bath primary chain case.

Petrol Tank: Single bolt fixing. Enamelled and lined. Decorative chrome top panel. Quick action filler cap.

Equipment: Basic price includes air cleaner; prop stand; thief-proof steering lock; quickly detachable rear wheel; Ariel design dual seat and pillion footrests; trip speedometer, 120 m.p.h. (180 km.p.h.); 7½ in. headlamp; 56 watt dynamo; 12 amp. battery; stop and tail lamp incorporating reflector; electric horn; tool box and tools; tyre inflator.

Finish: Superbly finished in Deep Claret, Glamour Red and Black, or all Black. All enclosed rear chain case as illustrated available at extra charge.



The **RED HUNTER 500cc MODEL VH**

Engine: Vertical O.H.V. 81.8 × 95 mm. = 497 c.c. (3.22 × 3.74 = 30.4 cubic inches). Aluminium alloy cylinder head with valve seat inserts. Cast iron cylinder. Vachrome top piston ring. Crankshaft mounted on two heavy duty roller bearings and one ball bearing. Double row roller big end. Gear driven camshaft. Push rod operated overhead valves. Lubrication: double plunger pump. Chain driven magdyno. Manual ignition control. Amal 'Monobloc' carburetter with air cleaner.

Frame: Duplex cradle type, fully triangulated ensuring great rigidity. Swinging arm rear suspension. Hydraulic damping. Rubber bushed pivots. Lugs for sidecar attachment either side. Thief-proof steering lock. Stands: easy-lift spring-up central and strong tubular front, also foot operated prop stand.

Front Forks: Telescopic with hydraulic damping. Attractive headlamp hood and fork cover, with built-in illuminated instrument panel containing speedometer, ammeter and lighting switch.

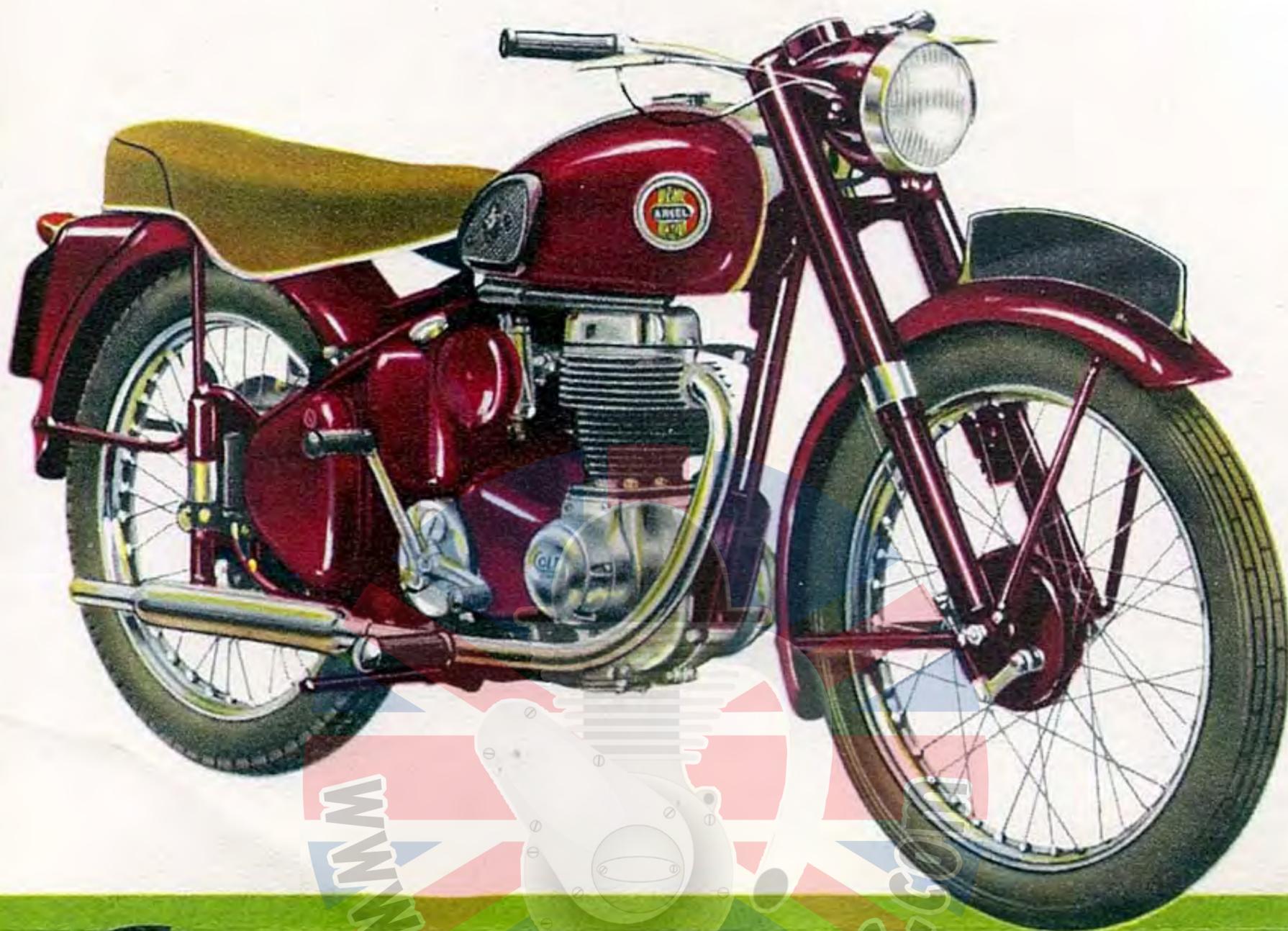
Hubs: Full width polished light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with non-fade linings. Car type fulcrum adjustment. Quickly detachable rear wheel.

Transmission: Four-speed gearbox, foot control. Three-plate dry clutch. Engine shaft shock absorber. Polished aluminium oil bath primary chain case.

Petrol Tank: Single bolt fixing. Enamelled and lined. Decorative chrome top panel. Quick action filler cap.

Equipment: Basic price includes air cleaner; prop stand; thief-proof steering lock; quickly detachable rear wheel; Ariel design dual seat and pillion footrests; trip speedometer, 120 m.p.h. (180 km.p.h.); 7½ in. headlamp; 56 watt dynamo; 12 amp. battery; stop and tail lamp incorporating reflector; electric horn; tool box and tools; tyre inflator.

Finish: Superbly finished in Deep Claret, Glamour Red and Black, or all Black. All enclosed rear chain case as illustrated available at extra charge.



The **COLT 200cc** **MODEL LH**

Engine: Vertical O.H.V. 60 × 70 mm. = 197 c.c. (2.36 × 2.75 = 12.18 cubic inches). Polished aluminium alloy cylinder head with valve seat inserts. Cast iron cylinder. Crankshaft mounted on heavy duty ball bearing and plain bronze bearing. Roller big end bearing. Gear driven camshaft. Push rod operated overhead valves. Lubrication: double gear pump. 48 watt A.C. generator mounted on drive side. Contact breaker on timing side with automatic ignition control. Amal 'Monobloc' carburettor with air cleaner.

Frame: Robust tubular construction, fully triangulated, with all-welded joints. Plunger rear suspension. Easy-lift spring-up central stand.

Front Forks: Telescopic with hydraulic control.

Brakes: Powerful with non-fade linings.

Transmission: Four-speed gearbox, foot control. Two-plate clutch with built-in shock absorber. Primary chain enclosed in oil bath. Rear chain protected.

Handlebars and Controls: Adjustable, chromium plated, $\frac{7}{8}$ in. diameter.

Petrol Tank: Attractive polished top panel. Quick release filler cap.

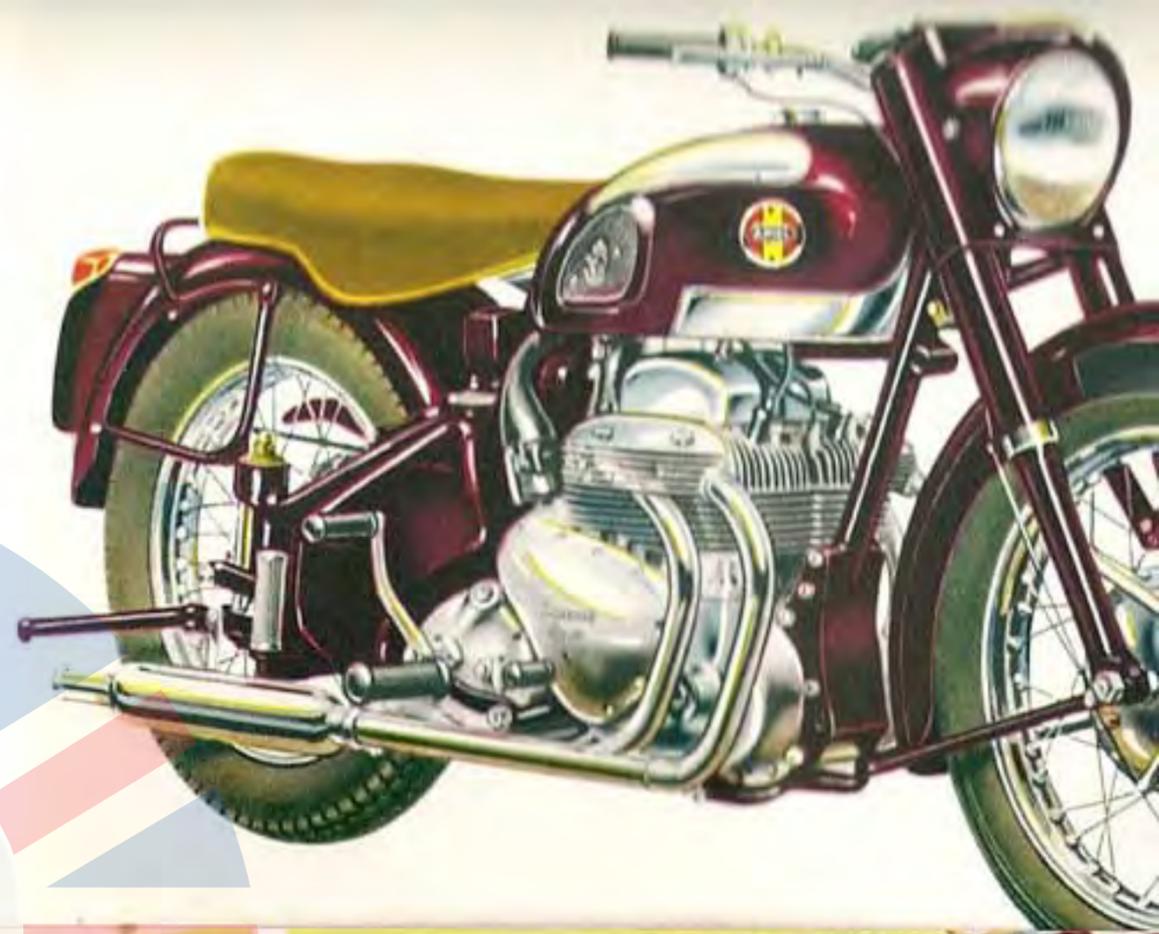
Mudguards: Deep half-round section. Rear stay quickly detachable for easy wheel removal.

Equipment: Basic price includes air cleaner; Ariel design dualseat and pillion footrests; speedometer, 70 m.p.h. (120 km.p.h.); rectifier, coil and emergency switch for direct starting; 6 in. headlamp; ammeter; 9 amp. battery; stop and tail lamp incorporating reflector; electric horn; tool box and tools; tyre inflator.

Finish: Superbly finished in Deep Claret, Glamour Red and Black, or all Black.

ARIEL

the modern
motorcycle



Built-in instrument panel containing lighting switch, illuminated speedometer and ammeter.

Headlamp hood and fork cover.

Single bolt fixing petrol tank for all swinging arm models.

The easy roll-on central stand and efficient prop stand.

**outstanding
features**

TECHNICAL INFORMATION

MODEL	...	...	...	...	...	...	...	4G	VH	NH	LH
TYPE	...	...	...	...	...	...	...	O.H.V.	O.H.V.	O.H.V.	O.H.V.
Number of Cylinders...	...	...	...	...	...	...	...	4	1	1	1
Bore and Stroke	...	...	...	...	...	...	...	65 × 75	81.8 × 95	72 × 85	60 × 70
Cylinder Capacity	...	...	...	...	...	...	...	997	497	347	197
Compression Ratio	...	...	...	...	...	...	...	7.2	7	7	7.5
Engine B.H.P.	...	...	...	...	...	...	...	42	26	19	10
Engine R.P.M.	...	...	...	...	...	...	...	5,800	6,000	5,600	5,600
Engine Sprocket: No. of Teeth	Solo		...	...	...	...	...	25	23	19	17
	Sidecar		...	...	...	...	...	22	19	17	—
Solo Gear Ratio—	Top	...	...	...	...	...	...	4.36	4.74	5.72	7.0
	Third	...	...	...	...	...	...	5.70	6.20	7.50	8.5
	Second	...	...	...	...	...	...	7.40	8.05	9.72	11.6
	First	...	...	...	...	...	...	11.55	12.55	15.15	17.5
Sidecar Gear Ratio—	Top	...	...	...	...	...	...	4.95	5.72	6.4	—
	Third	...	...	...	...	...	...	6.50	7.50	8.37	—
	Second	...	...	...	...	...	...	8.42	9.72	10.88	—
	First	...	...	...	...	...	...	13.10	15.15	16.96	—
Tyre Size—	Front	...	...	...	...	...	...	3.25 × 19	3.25 × 19	3.25 × 19	3.00 × 19
	Rear	...	...	...	...	...	...	4.00 × 18	3.25 × 19	3.25 × 19	3.00 × 19
Wheelbase (inches)	...	...	...	...	...	...	...	56	56	56	51½
Overall Length (inches)	...	...	...	...	...	...	...	86	86	86	80
Handlebar Width (inches)	...	...	...	...	...	...	...	27	27	27	27
Dualseat Height (inches)	...	...	...	...	...	...	...	31	31	31	29½
Ground Clearance (inches)	...	...	...	...	...	...	...	5½	5½	5½	5½
Weight Fully Equipped (lbs.)	...	...	...	...	...	...	...	435	375	365	270
Petrol Tank Capacity (gallons)	...	...	...	...	...	...	...	5	4½	4½	2½
Oil Tank Capacity (pints)	...	...	...	...	...	...	...	8	6	6	4
Petrol Consumption (M.P.G.)	...	...	...	...	...	...	...	70-75	75-80	85-90	100-110
Approx. Mean and Max. Speeds (M.P.H.)	...	...	...	...	...	...	...	100-105	80-85	75-80	55-60

NOTE. Speed and petrol consumption figures do not apply to new machines that have covered less than 2,000 miles. Petrol consumption figures are based on a maintained speed of 45 m.p.h.; Model LH at 35 m.p.h. With child-adult sidecar fitted, reduce above m.p.g. figures approximately by 20.

Guarantee

We give the following guarantee with our motor cycles, motor cycle combinations and sidecars including all accessories and component parts other than tyres, saddles, chains and lighting and electrical equipment, and other than accessories and component parts supplied to the order of the Purchaser and differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations and sidecars, but including accessories and parts supplied by way of exchange as hereinafter provided. This guarantee is given in place of any implied conditions or warranties or any liabilities whatsoever statutory or otherwise; no guarantee except that hereinafter contained and no condition of warranty whatsoever statutory or otherwise is given or is to be implied nor are we to be under any liability whatsoever except under the guarantee hereinafter contained. Any statement, description, condition or representation contained in any catalogue, advertisement, leaflet or other publication shall not be construed as enlarging, varying or overriding anything herein contained. In the case of machines (a) which have been used for " hiring out " purposes or (b) any motor cycle and 'or sidecar used for any dirt track, cinder track or grass track racing or competitions (or any competition of any kind within an enclosure for which a charge is made for admission to take part in or view the competition) or (c) machines from which the trade mark, name or manufacturing number has been altered or removed or (d) any machine in which parts have been used not supplied by or approved by the motor cycle manufacture, or (e) any machine from which the silencing system as fitted by the manufacturer has been partially or wholly removed or interfered with, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied nor are we to be under any liability whatsoever in respect of any such machine.

We guarantee, subject to the conditions mentioned below, that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, but this guarantee is to extend and be in force for six months only from the date of purchase, or date of exchange in case of any accessory or part supplied by way of exchange as hereinafter provided, and damages for which we make ourselves responsible under this guarantee are limited to the free repair of or supply of a new part or accessory in exchange for the part of the motor cycle, motor cycle combination or sidecar or accessory which may have proved defective. We undertake, subject to the conditions mentioned below to make good in manner aforesaid any part or accessory covered by this guarantee which has proved defective within the said period of six months. We do not undertake to replace or refix, or bear the cost of replacing or refixing any such new part or accessory in the motor cycle, motor cycle combination or sidecar. As motor cycles, motor cycle combinations and sidecars are easily liable to derangement by neglect or misuse, this guarantee does not apply to the defects caused by wear and tear, misuse or neglect.

The term " misuse " shall include amongst others the following acts:

1. The attaching of a sidecar to a motor cycle in such a manner as to cause damage or calculated to render the latter unsafe when ridden.
2. The use of the motor cycle or of a motor cycle and sidecar combined when carrying more persons or a greater weight than that for which the machine was designed by the manufacturers.
3. The attaching of a sidecar to a motor cycle by any form of attachment not provided, supplied or approved by the manufacturers, or to a motor cycle which is not designed for such use.

We do not guarantee tyres, saddles, chains or lighting and electrical equipment, or any accessories or component parts supplied to the order of the Purchaser differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations or sidecars. As regards all such tyres, saddles, chains, lighting and electrical equipment, accessories and component parts, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied, and we are to be under no liability whatsoever in respect thereof.

CONDITIONS OF GUARANTEE. If a defective part or accessory should be found in our motor cycles, motor cycle combinations or sidecars, or in any part or accessory supplied by way of exchange as before provided, it must be sent to us **Carriage Paid**, and accompanied by an intimation from the owner that he desires to have it repaired or exchanged free of charge under our guarantee and he must also furnish us at the same time with the number of the machine, the date of the purchase or the date when the alleged defective part or accessory was exchanged as the case may be.

Failing compliance with the above, such articles will lie here at **the risk of the owner**, and this guarantee and any implied guarantee, warranty or condition shall not be enforceable.

REPAIRS. Any motor cycle, motor cycle combination or sidecar sent to us to be plated, enamelled or repaired will be repaired upon the following conditions, i.e., we guarantee that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, such guarantee to extend and be in force for three months only from the time such work shall have been executed, and this guarantee is in lieu and in exclusion of all conditions and warranties statutory or otherwise and all liabilities whatsoever and the damages recoverable are limited to the cost of any further work which may be necessary to amend and make good the work found to be defective.

NOTICE. We do not appoint agents for the sale on our behalf of our motor cycles or other goods, but we assign to motor cycle Dealers areas in which we supply to such Dealers exclusively for re-sale in such areas. No such Dealer is authorised to transact any business, give any warranty, make any such representation or incur any liability on our behalf.