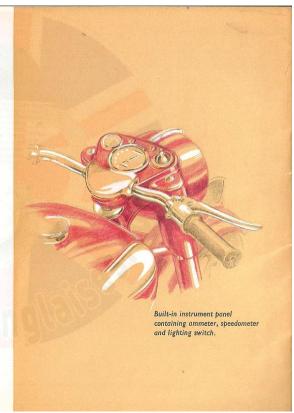


The accumulated knowledge of well over half a century in the Motor Cycle industry is reflected in the technical improvements incorporated after extensive development in the

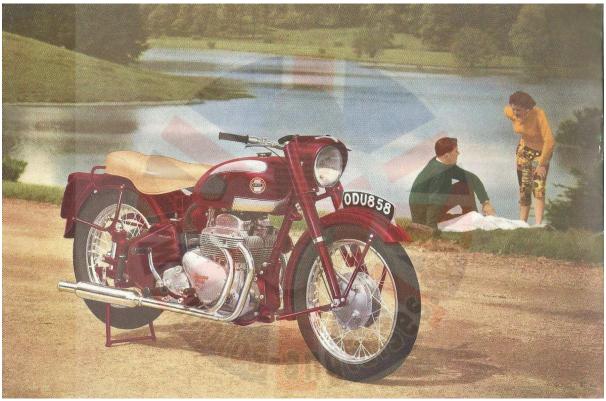
porated after extensive development in the 1956 range. A close study of the machines illustrated and described in this catalogue will confirm the unchallenged position Ariel occupy as 'Leaders of Design'.

The full width aluminium alloy centrally disposed hub brakes, fully enclosed rear chain case, and the headlamp hood and fork cover with built-in illuminated instrument panel are but three of the many new features which will contribute to better motor cycling.

May we take this opportunity of wishing all Ariel owners, present and future, happy motor cycling during 1956.









Model 4G 1000 c.c. SQUARE FOUR

Engine: Four cylinder O.H.V. 65×75 mm.=997 c.c. (2.56 × 2.95 = 60.8 cubic inches). Aluminium alloy cylinders with wear resisting sleeves. Aluminium alloy cylinder heads with valve seat inserts. 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 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 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. Rear chain fully protected and lubricated.

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

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

Mudguards: Wide D section. Rear guard can be lifted

Equipment: Ariel design dualseat and pillion footrests.
Trip speedometer 120 m.p.h. (180 km.p.h.). 74 in. head-lamp. Stop and tail lamp. Reflector. Electric horn.
Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Claret enamel.

CORFE CASTLE





Model FH 650 c.c. HUNTMASTER

Engine: Vertical O.H.V. 70 × 84 mm. = 646 c.c. (2.76 × 3.30 = 39.3 cubic inches). Cast iron cylinders and heads. Vachrome top piston rings. Forged steel crankshaft mounted on heavy duty roller and white metal lined bearings. Light alloy connecting rods with lead-bronze liners. Gear driven camshaft. Push rod operated overhead valves. Mechanical crankcase breather. Lubrication: double gear pump. Magneto with automatic advance. Amal 'Monobloc' carburetter with air cleaner.

Frame: Duplex cradle type, fully triangulated, ensuring 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 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 light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with

non-fade linings. Car type fulcrum adjustment. New 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. Rear chain fully protected and lubricated.

Handlebars and Controls: Adjustable, chromium plated, 7/8 in. diameter.

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

Mudguards: Wide D section. Back end of rear guard detachable for easy wheel removal.

Equipment: Ariel design dualseat and pillion footrests. Trip speedometer 120 m.p.h. (180 km.p.h.), 7½ in. head-famp. 56 watt dynamo. 12 amp. battery. Stop and tail famp. Reflector: Electric horn. Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Claret

WINDSOR CASTLE





Engine: Vertical O.H.V. 63×80 mm.=498 c.c. (2.48×3.15=30.4 cubic inches). Cast iron cylinders and aluminium alloy cylinder heads with valve seat inserts. Vachrome top piston rings. Forged steel crankshaft mounted on heavy duty roller and white metal lined bearings. Light alloy connecting rods with white metal liners. Twin camshafts driven by Duplex roller chain. Push rod operated overhead valves. Lubrication: double gear pump. Magneto with automatic advance. 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 sidecarattachment either side. Thief-proof steering lock. Stands: easy-lift spring-up central and strong tubular front, also 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 light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with

non-fade linings. Car type fulcrum adjustment. New 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.
Rear chain fully protected and lubricated.

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

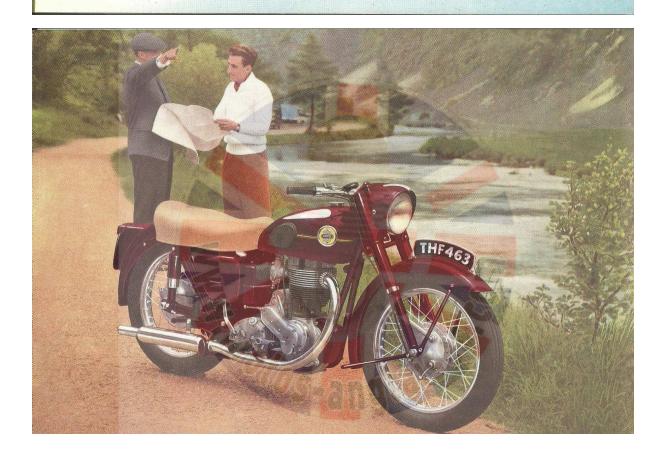
Petrol Tank: Rubber mounted, enamelled and lined, with chromium plated motifs. Quick action filler cap.

Mudguards: Wide D section. Back end of rear guard detachable for easy wheel removal.

Equipment: Ariel design dualseat 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. Reflector, Electric horn. Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Claret

DOVER PASTIF



Model VH 500 c.c. RED HUNTER SINGLE

Engine: Vertical O.H.V. 81.8 × 95 mm. = 497 c.c. (3.22 × 3.74 = 30.4 cubic inches). Cast iron cylinder and aluminium alloy cylinder head with valve seat inserts. 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 bished pivots. Lugs for sidecar attachment either side. Thief-proof steering lock. Stands: easy-lift spring-up central and strong tubular front, also 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 light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with

non-fade linings. Car type fulcrum adjustment. New 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. Rear chain fully protected and lubricated.

Handlebars and Controls: Adjustable, chromium plated, $\frac{7}{6}$ in. diameter.

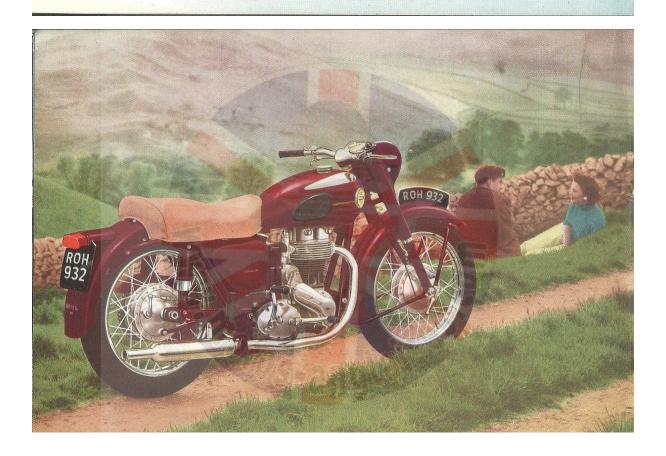
Petrol Tank: Rubber mounted, enamelled and lined, with chromium plated motifs. Quick action filler cap.

Mudguards: Wide D section. Back end of rear guard detachable for easy wheel removal.

Equipment: Ariel design dualseat and pillion footrests. Trip speedometer 120 m.p.h. (180 km.p.h.). 7½ in. headlamp. 56 watt dynamo. 12 amp. battery. Stop and tall lamp. Refector. Electric hom. Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Claret enamel.

CAERPHILLY CASTLE





Model NH 350 c.c. RED HUNTER SINGLE

Engine: Vertical O.H.V. 72×85 mm.=347 c.c. (2.83×3.34=21.2 cubic inches). Cast iron cylinder and aluminium alloy cylinder head with valve seat inserts. 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 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 light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with

non-fade linings. Car type fulcrum adjustment. New 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. Rear chain fully protected and lubricated.

Handlebars and Controls: Adjustable, chromium plated, $\frac{7}{6}$ in. diameter.

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

Mudguards: Wide D section. Back end of rear guard detachable for easy wheel removal.

Equipment: Ariel design dualseat and pillion footrests. Trip speedometer 120 m.p.h. (180 km.p.h.). 7½ in. headlamp. 56 watt dynamo. 12 amp, batterly. Stop and tallamp. Reflector: Electric horn. Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Claret enamel.

all the same

EDINBURGH CASTLE





Model LH 200 c.c. COLT

Engine: Vertical O.H.V. 60 × 70 mm. = 197 c.c. (2.36 × 2.75 = 12.18 cubic inches). Cast iron cylinder and aluminium alloy cylinder head with valve seat inserts. 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' carburetter 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: Enamelled and lined, with chromium plated panels. Quick release filler cap.

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

Equipment: Ariel design dualseat and pillion footrests.
Speedometer 70 mp.h. (120 km.p.h.). Rectifier, coil and
emergency-switch for direct starting. 6 in. headlamp.
9 amp. battery. Stopland tail lamp. Reflector. Electric
horn. Tool box and tools. Tyre inflator.

Finish: Superbly finished in best quality Deep Brunswick Green enamel.

LUDLOW CASTLE





Model VB 600 c.c. SIDE VALVE

Engine: 86.4 × 102 mm. = 598 c.c. (3.4 × 4.01 = 36.5 cubic inches). Cast iron cylinder and aluminium alloy cylinder head. Vachrome top piston ring. Crankshaft mounted on two heavy duty roller bearings and one ball bearing. Double row roller big end. Gear driven camshaft. 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 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 light alloy, fitted with heavy duty ball bearings front and rear. Powerful central brakes with

non-fade linings. Car type fulcrum adjustment. New 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. Rear chain fully protected and lubricated.

Handlebars and Controls: Adjustable, chromium plated, 7 in. diameter.

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

Mudguards: Wide D section (valanced front). Back end of rear guard detachable for easy wheel removal.

Equipment: Ariel design dualseat 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. Reflector. Electric horn. Tool box and tools.
Tyre inflator:

Finish: Superbly finished in best quality Deep Claret

HARLECH CACTLE

TECHNICAL INFORMATION

MODEL	4G	FH	КН	УН	NH	LH	VB
110011					0.1117	0.1117	CV
TYPE	O.H.V.	O.H.V.	O.H.V.	O.H.V.	O.H.V.	O.H.V.	S.V.
Number of Cylinders	4	2	2	- 1	1	1	1
Bore and Stroke	65×75	70×84	63×80	81.8×95	72×85	60×70	86.4×102
Cylinder Capacity	997	646	498	497	347	197	598
Compression Ratio	7.2	6.5	6.8	6.8	7.5	7.5	6
Engine B.H.P	42	35	28	26	18	10	18
Engine R.P.M	5,800	5,600	6,200	6,000	5,600	5,600	4,400
Engine Sprocket: No. of Teeth—Solo	25	24	21	23	19	17	23
Sidecar	22	21	19	19	_	_	19
Solo Gear Ratio— Top	4.36	4.53	5.18	4.74	5.72	7.0	4.74
Third	5.70	5.93	6.78	6.20	7.50	8.5	6.20
Second	7.40	7.71	8.81	8.05	9.72	11.6	8.05
First	11.55	12.01	13.74	12.55	15.15	17.5	12.55
Sidecar Gear Ratio—Top	4.95	5.18	5.72	5.72	_	_	5.72
Third	6.50	6.78	7.50	7.50		_	7.50
Second	8.42	8.81	9.72	9.72		_	9.72
First	13.10	13.74	15.15	15.15	_	_	15.15
Tyre Size: Dunlop—Front	3.25×19	3.25×19	3.25×19	3.25×19	3.25×19	3.00×19	3.25×19
D. Control of the Con	4.00×18	3.50×19	3.50×19	3.25×19	3.25×19	3.00×19	3.25×19
140 0 0 1 1	56	56	56	56	56	511	56
	86	86	86	86	86	80	86
in a contract of the contract	27	27	27	27	27	27	27
The state of the s	31	31	31	31	31	291	31
	51	51/2	51	5½	51	51/2	54
	435	410	390	375	365	270	370
	5	4	4	4	4	21/2	4
Petrol Tank Capacity (gallons)	8	6	6	6	6	4	6
Oil Tank Capacity (pints)	70 – 75	65 – 70	75 – 80	75 – 80	80 – 85	100 - 110	70 – 75
Petrol Consumption (M.P.G.)	100 - 105	90 – 95	85 – 90	80 – 85	75 – 80	55 – 60	70 – 75
Approx. Mean and Max. Speeds (M.P.H.)	100 - 105	70 - 93	03 - 70	00 - 63	73-80	33 - 00	10-75
	1	-				77.00	The second second second

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.

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 the cycle of the

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 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 a 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.
- 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.

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 free those comprised in the strandard 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.

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 as meeting the companied by an intimation from the owner that he desires to have it repaired as met 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.

Falling 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.

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.

ARIEL MOTORS LIMITED

BIRMINGHAM 29, ENGLAND

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