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National Cycle Archive



HSS. 328/1021B/S

B.S.A.

BICYCLES

"Perfect in Every Part"



District Agents

CAVENDISH MOTORS LTD.,

Cavendish Street, CHESTERFIELD

RETAIL PRICES of B.S.A. BICYCLES. Season 1918.

Owing to the enhanced cost of production, due to the War, the Prices of B.S.A. Bicycles are advanced as from October 1st, 1917, and will now be as follows:—

B.S.A. Gent's Roadster Bicycle	-	-	£11	10	0		
B.S.A. Lady's Roadster Bicycle	-	-	11	15	0		
B.S.A. Gent's Light Roadster, fitted with Steel Rims	11	10	0				
B.S.A. Gent's All-Black Bicycle	-	-	11	10	0	} If fitted with Eadie 2-speed Hub - 20/- " " Eadie 2-speed Coaster Hub - 23/- " " B.S.A. 3-speed Hub - 30/-	Extra
B.S.A. Lady's All-Black Bicycle	-	-	11	15	0		
B.S.A. Gent's All-Weather Bicycle	-	-	12	17	6		
B.S.A. Lady's All-Weather Bicycle	-	-	12	17	6		
B.S.A. Gent's Constabulary Bicycle	-	-	12	10	0		
B.S.A. Gent's Model de Luxe Bicycle, fitted with either 2-speed Coaster or 3-speed Hub	£16	0	0				
B.S.A. Lady's Model de Luxe Bicycle, fitted with either 2-speed Coaster or 3-speed Hub	16	0	0				
B.S.A. Gent's Tourist Bicycle, fitted with 3-speed Hub and Oil Bath Gear Case	-	-	14	10	0		
B.S.A. Tradesman's Bicycle, fitted with either Free Wheel or Coaster Hub	-	-	12	10	0		

Other Extras and Easy Payment Terms quoted on application.

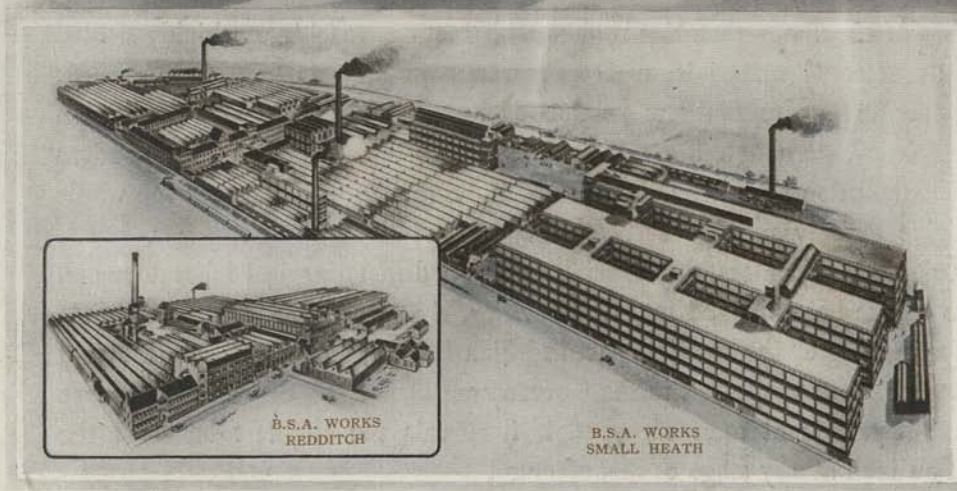
It has been found necessary to discontinue the manufacture of Models Nos. 5, 6, 7, 15, and 16 for the period of the War. The Prices shown in this Catalogue are hereby withdrawn, and those given above are subject to alteration without notice. All orders placed will be charged for at the price ruling at time of delivery.

THE BIRMINGHAM SMALL ARMS COMPANY LIMITED.

1917

B.S.A. Bicycles

PERFECT IN EVERY PART.



B.S.A. WORKS
REDDITCH

B.S.A. WORKS
SMALL HEATH

The Birmingham Small Arms Co., Ltd.

Contractors to His Majesty's Government,
the War Office, the Admiralty, the India
Office, the Post Office, and Colonial and
Foreign Governments.

Registered Offices :

Small Heath, Birmingham

Works :

Small Heath, Sparkbrook, Redditch
and Coventry

Telegrams : "Smallarms, Birmingham."

Telephone : 6440 Central (9 lines).

Important.—All communications should be addressed to Head Offices, Small Heath, Birmingham.

EGK

Introduction



THOUGH more than half a century has passed since the founding of the B.S.A. reputation during the Crimean War (1854-56), B.S.A. productions have consistently maintained one high standard of quality, and embodied in the latest B.S.A. Bicycle models is the same fine quality in material and workmanship, as has made the B.S.A. name world famous.

All the resources of enormous factories replete with modern machinery, highly skilled workers, and specially selected materials, are concentrated on the construction of B.S.A. Bicycles, our aim being to ensure faultless productions rather than to attempt to cheapen at the expense of efficiency. Though the B.S.A. models vary in price, this is dependent on the different equipment and elaboration of finish; B.S.A. quality is the same throughout the whole range, and every machine will give equally reliable service.

From the moment the raw material enters the specially equipped metallurgical laboratory and undergoes a series of severe tests before being passed into the factories, right up to the complete B.S.A. Bicycle, there is not a stage in the making of the smallest part at which it is not subject to the most rigid inspection. The system of limit gauging as employed in the Government inspection of rifles is in force throughout the B.S.A. Works, and a part is at once scrapped if it reveals the slightest defect or the deviation of a thousandth part of an inch at any stage of manufacture.

By reason of this rigid standard of accuracy the interchangeability of every part of a B.S.A. Bicycle is guaranteed, and in the event of loss or accidental damage, an exact replacement can be quickly obtained.

Other special methods of ensuring B.S.A. superiority include the extensive use of steel forgings, and also the employment of the "Pellolit" Enamel process which produces a brilliant and durable finish.

B.S.A. Bicycles can be supplied on Easy Payment Terms if desired. Further particulars will be found on the following page.

As a protection against substitution, purchasers are advised to see that the B.S.A. Transfer, as illustrated, appears on the bicycle. Without this transfer none are genuine B.S.A.

Every machine manufactured throughout in the B.S.A. Factories, and bearing the special B.S.A. transfer, carries a Guarantee which will be honoured for twelve months from the date of purchase. The Guarantee, however, does not apply to tyres, saddle or specialities not of our manufacture, but these are separately warranted by the various makers.

All prices are strictly net and cycle agents are not permitted to make any allowance whatsoever.

Any machine illustrated in this List can be supplied in "All Black" finish at the prices shown.

The Birmingham Small Arms Company, Limited.

SPECIAL NOTE.—The Birmingham Small Arms Company point out that during the war they cannot hold themselves responsible for delivery, and that the prices shown in this catalogue are subject to alteration without notice.

B.S.A. Easy Payment Terms

THE B.S.A. system of easy payments will doubtless prove a great convenience to those who, whilst desiring to obtain a high-grade bicycle, do not wish to encroach on their savings, but prefer to defray the cost out of income.

Prices of B.S.A. machines will be found in this catalogue, and it will be noted that payments have been arranged to extend over a period of twelve months. A deposit of not less than £2 (two pounds) **must accompany the order.**

If the intending purchaser is not a householder, or is under 21 years of age, it will be necessary for a responsible Guarantor, **who is a householder**, to fill up and sign the form provided.

In the event of our being unable to accept the order, the full amount deposited will be returned without delay.

As soon as the order is accepted, arrangements will be made at once with your Cycle Agent for the bicycle selected to be supplied. The first monthly payment will fall due one month after the machine is despatched, and subsequent payments on the same date of each succeeding month.

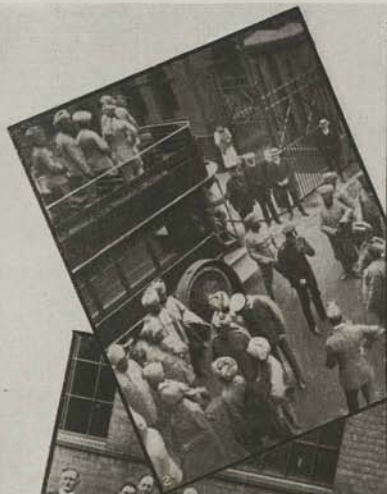
All remittances must be sent direct to us, addressed

*THE BIRMINGHAM SMALL ARMS COMPANY, LIMITED,
SMALL HEATH, BIRMINGHAM.*

Every payment will be acknowledged on the Company's printed Receipt Form, and this Form only can be recognised as valid.

Purchasers may remit a larger deposit if they choose; or may at any time pay in one sum the whole of the amount outstanding against them. In such cases special terms can be arranged.

Easy Payment Forms may be obtained direct from The Birmingham Small Arms Co., Ltd., Small Heath, Birmingham; or from the local B.S.A. Agent.



DISTINGUISHED VISITORS TO THE B.S.A. WORKS.

1.—H.M. King George V.

2.—Indian Colonial Troops.

3.—H.H. Crown Prince of Uganda.

4.—Representatives of the Dominion Parliaments.

5.—Indian Officers.

Two Important Features of B.S.A. Bicycles

PELLOLIT ENAMEL

THE renown earned by B.S.A. finish for its durability has led to constant effort being devoted to the further enhancing of this reputation, and the use of Pellolit Enamel, with which all B.S.A. Bicycles are finished, marks an important advance in this direction. Pellolit is a British discovery in the mixture of ingredients, the outstanding properties of which include lustre, adhesiveness, resiliency, toughness, durability, and an absence of chipping and peeling, while in addition it has the advantage of being a rust preventative. The special feature of this new process is that the first coating acts as a "cushion" upon which the finishing coats are applied, giving, as a final result, an elastic brilliant covering of an exceedingly wear-resisting nature.

STEEL FORGINGS

EXCLUSIVE methods and processes beyond the resources of the makers of so-called "cheap" machines, are used in the construction of B.S.A. Bicycles. A striking illustration of this is the extensive employment of parts made from forged steel.

In forging, powerful hammers, some of which exert a pressure of 12 tons, are used, and the density of the steel is greatly increased by compressing the molecules more closely while the metal is white hot.

Even the non-technical mind will appreciate how much stronger and more durable are parts made from this highly compressed steel. Indeed, so extremely tough does forging render the steel that this process is adopted in making rifle barrels, which, of course, have to withstand enormous stresses.

Because steel forgings entail costly methods pressings are usually substituted in low-grade machines. These are parts bent to shape out of sheet metal in the cold. They are cheaper to produce, but for efficiency and length of service a machine so constructed cannot be compared with a B.S.A.



B.S.A. Steel Forging,
weighing 16-ozs.



Finished B.S.A. Box
Crown,
weighing 4-ozs. 9-drs.

B.S.A. Constructional Refinements

B.S.A. CHAIN WHEEL.—Possibly no feature of B.S.A. Bicycles is more familiar to cyclists than the B.S.A. Chain Wheel. In its distinctive design are incorporated the well-known Trade Mark letters "B.S.A.," resulting in an attractive, light, yet rigid wheel. This wheel is made in $\frac{1}{2}$ -in. pitch, for chains of either $\frac{3}{16}$ -in. or $\frac{1}{8}$ -in. width, and with either 44, 46, 48, 52, 56, 60, and 64 teeth.

B.S.A. DISC ADJUSTING BRACKET.—The B.S.A. Disc Adjusting Bracket is simple and efficient. It is unique in construction and combines remarkable strength with an exceptional degree of lightness. The oil retaining and dust-proof bearings are constructed on the "two point" system, and are absolutely true and free running.

ADJUSTMENTS.—Loosen the locking ring "C" and after correct adjustment has been obtained by the screwing inward or outward of the Left Cup, tighten the ring against the face of the Bracket. **NOTE.**—The Cup "A" on the chain side is screwed LEFT-HAND thread, and has a solid collar which locks up to the face of the Bracket.

The Cup "B" on the left side is screwed RIGHT-HAND thread, and projects beyond the Bracket Face, sufficient to allow for the locking of Ring "C."

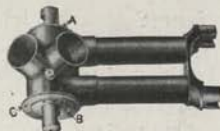
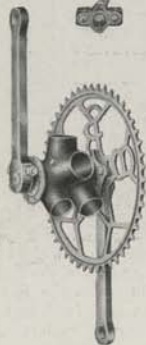
B.S.A. PEDALS.—B.S.A. Pedals, both Rubber and Rat-Trap, are constructed to withstand the utmost strain. The centre barrel and ball races are made in one piece, with socketed end plates pressed on the coned ends. The Rat-Trap Pedal is fitted with a cross stay which ensures the absolute rigidity of the side plates: the latter have the Trade Mark letters "B.S.A." embodied in their design.

B.S.A. HUBS.—B.S.A. Hubs are made from steel forgings, a process which gives exceptional toughness to the metal. Hubs thus produced are vastly superior to any manufactured from castings or bar steel. Hence B.S.A. Hubs wear much longer and run more sweetly than those made by the cheaper methods. B.S.A. Hubs are dust and water-proof and readily adjusted.

ADJUSTMENTS.—To adjust the B.S.A. Rear Hub loosen the spindle nut or footstep (as the case may be) on left side of the machine, then insert the large end of the thin spanner on the flats of the cone between the hub and the cam, screwing up sufficiently to take up the wear and yet allowing the wheel to run freely. Number of balls fitted: nine each side, size $\frac{1}{8}$ -in. With the Front Hub, the spindle nut on the left side of the machine must be loosened—then adjust for wear, and tighten up as in the case of the back hub. Number of balls fitted: ten each side, $\frac{3}{16}$ -in. **NOTE.**—It is absolutely necessary that the Front Hub adjusting or loose cone, which has two flats to receive the spanner, should be on the left side of the machine, i.e., the side opposite the chain.



B.S.A.
CHAIN
WHEEL



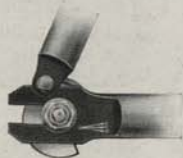
B.S.A. DISC ADJUSTING
BRACKET



B.S.A. PEDALS



B.S.A. HUBS



B.S.A.
FORK ENDS



B.S.A.
MUDGUARD
ATTACHMENT



B.S.A. "QUICK
RELEASE"
FORK ENDS



B.S.A.
DRESSGUARD
ATTACHMENT



B.S.A.
DRESSGUARD
ATTACHMENT

B.S.A. Constructional Refinements—continued

B.S.A. Fork Ends

ONE of the most popular B.S.A. constructional refinements is the Chain Adjustment, which is constructed on the cam principle. It is extremely simple to manipulate, and the possibility of the wheel being thrown out of alignment is reduced to a minimum. This device allows chain adjustment to be made to a minute fraction of an inch. The following instructions will be sufficient to enable even the novice to effect any necessary adjustments. Loosen the footstep, or the nut on the hub spindle on the left side of the machine; then the nut on the right side. Apply the square hole in the thin spanner (handle upwards) to the square end of the hub spindle, then turn towards the front of the machine until the chain is tight. Slightly turn the reverse way to slacken the chain sufficiently to ensure free running. Hold the spanner firmly in this position, keeping the cams and blocks in close contact, then with the other spanner tighten the left-hand nut or footstep, as the case may be, remove the thin spanner and tighten up the right hand spindle nut.

The B.S.A. "Quick Release" Fork Ends

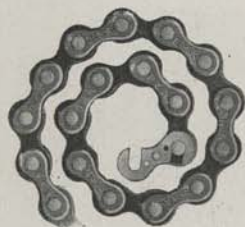
THE B.S.A. Road Racer and Path Racer Bicycles (1 $\frac{1}{16}$ -in. chain line) are fitted with the B.S.A. "Quick Release" back fork ends and cam chain adjustments. These enable the wheel to be removed and replaced in minimum time as the chain does not require to be unbolted, and chain adjustment is obviated. This is an advantage of the utmost importance to speedmen to whom every moment is of value.

B.S.A. Mudguard Attachments

THE B.S.A. Mudguard Attachments are remarkably neat in appearance, and have no awkward projections. When tightening up the spindle nuts, full range is allowed for the spanner and the attachment engaging in the slots of the front and back fork ends prevents any movement or strain on the stays. There is no possibility of the rider's foot fouling the mudguard stay when mounting from the footstep, and in adjusting the chain the relation of the mudguard to the wheel is always constant.

B.S.A. Dressguard Attachment

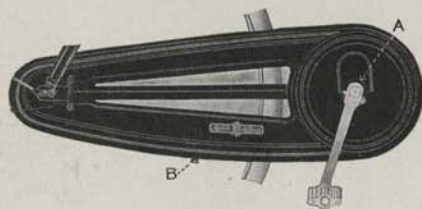
THE B.S.A. Dressguard Quadrant is an exclusive B.S.A. feature which appeals very strongly to all lady cyclists, as it enables the dressguard to be quickly removed for tyre repairs and cleaning operations, without disturbing the axle nuts. The cords are threaded through a series of loops which are attached by two springs to a flat pear-shaped arm. This is held in place by a small stud which fits into a hole in the stirrup attached to the stay end and held in position by the stay end bolts.



B.S.A. CHAINS



INFLATOR



B.S.A. OIL BATH GEAR CASE



TOOL BAG AND CONTENTS

B.S.A. Constructional Refinements—continued

B.S.A. CHAINS.

NO part of a bicycle is subject to such severe strain as the chain, and none requires more careful treatment in regard to its manufacture. The special conditions under which B.S.A. Chains are made guarantee both smooth running and safety. Every B.S.A. Chain is tested to a tensile strain of 2,000-lbs. before being passed for fitment. Absolute accuracy of width and pitch is ensured by the rigid system of gauging employed at every stage of manufacture.

It is always as well to bear in mind when making replacements that a new chain does not run smoothly on a hub wheel that is worn to any extent, as the pitch of the chain does not then conform to that of the teeth of the hub cog, and in such case a new wheel should be fitted.

B.S.A. DETACHABLE OIL BATH GEAR CASE.

CYCLISTS appreciate the B.S.A. Detachable Oil Bath Gear Case, particularly for all-weather riding. The life of the chain is greatly lengthened by running continuously in the oil bath, and being protected from mud, dust, and grit, easy smooth running is assured. When injecting oil in gear case the following instructions should be noted. After removing cap from outlet "B" and slide marked "A," pour oil through aperture "A" until there is a slight drip from outlet "B," which will indicate that sufficient oil has been injected. Do not forget to correctly replace slide and cap.

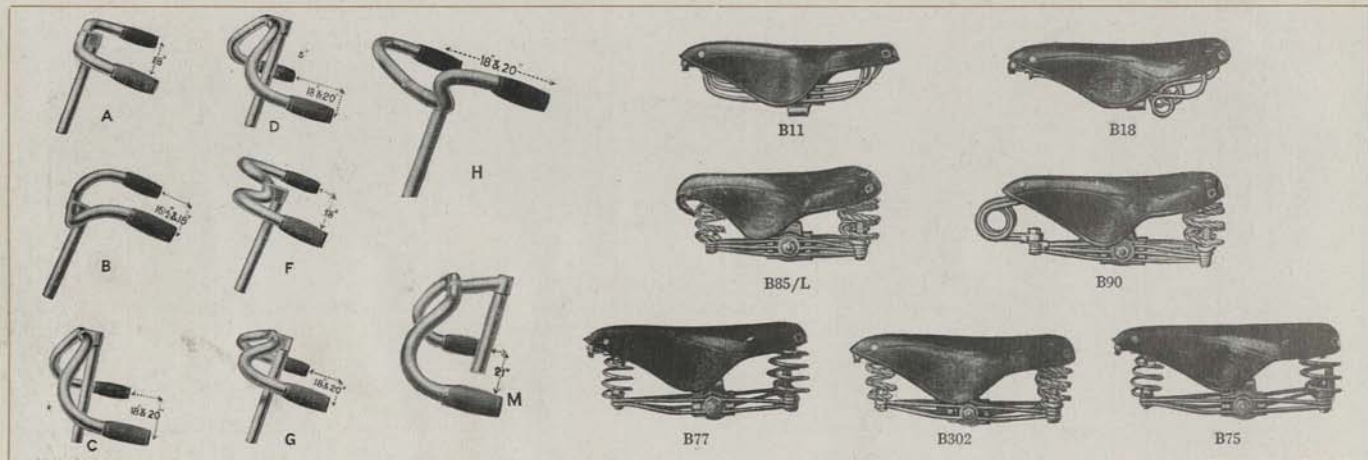
NOTE.—This Gear Case can only be fitted to Gent's machines having 48 teeth wheel and Ladies' machines having 44 teeth wheel.

TOOL BAG & CONTENTS

ATTACHED to every B.S.A. Bicycle is a Tool Bag containing two B.S.A. Spanners and Oil Can. A twelve months' Guarantee also accompanies each machine. The Bag itself is of excellent quality, of improved shape, and is fitted with patent ring fastener.

INFLATOR

A RELIABLE Celluloid Inflator and superior clips also form part of the equipment of each B.S.A. Bicycle.



Handlebars and Saddles

HANDLEBARS

ANY of the Handlebars illustrated can be substituted for those included in the various specifications. They are supplied (with the exception of the "M" pattern) with standard forward lug as shown, or if desired, with special adjustable clip. The latter is only recommended when front brakework is not required. Only handlebars A, B, and H can be fitted with rolling lever brakework.

SADDLES

IN compiling the various specifications of Bicycles we have made a selection of the Saddles most suitable for the particular type of machine. It is, however, open for purchasers to substitute any of the high-grade Saddles illustrated above at the difference in price as shown on page 40.

B.S.A. Brakes

B.S.A. Brake work deserves special mention. The design and lightness, combined with great strength, are features which will appeal to the most critical cyclist. In examining a B.S.A. bicycle it will be seen that brake rods in all cases are parallel with the tubes and lie closely, the amount of travel on the bell crank levers being sufficient for braking purposes without carrying the rods out at ugly angles. One of the most important features of B.S.A. Brakes are the Patent Detachable Shoes, which provide for their instantaneous removal by a slight compression of the stirrup.

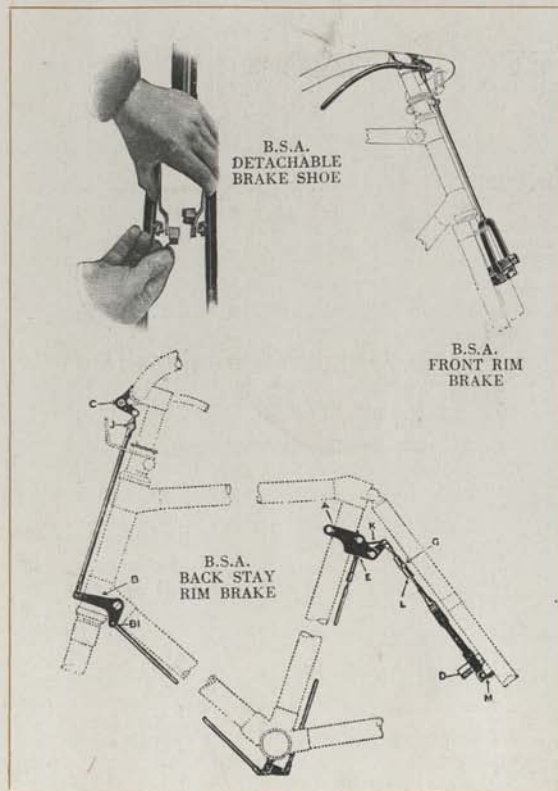
Instructions for Adjusting the B.S.A. Back Stay Rim Brake:

The important points to be noted are: The position of Fulcrum Clip "A," Bell Crank "B," Lever Stop "C," Brake Block "D." With regard to the Clip "A," care must be taken to see that the square shoulder of rod joint "E" is not less than $\frac{1}{8}$ -in. below the edge of clip as shown in sketch, and that the back part of bell crank "B1" is set just clear of the underside of the bottom lug so as to allow the full movement of the bell crank "B"—any adjustment between the points "B1" and "E" can be obtained by screwing or unscrewing adjusting joint "E." After seeing that all the rods and joints are in proper tension, the lever stop "C" should be set tightly against the handlebar; any adjustment necessary to effect this must be made by means of adjusting clip "J."

All adjustment of brake blocks "D" to the rim must be made by screwing or unscrewing coupling "G," which is provided with a right and left-hand thread for that purpose, and also with a lock nut "L." After the necessary adjustment has been completed it is essential that the lock nut "L" be securely tightened. If brake has been fitted correctly, the "take off" spring "K" should instantly bring the brake out of action.

Important.—It is essential occasionally to lubricate all joints, and between the hanger plate "M."

If it is necessary to make an adjustment to suit the pump, raise or lower the bottom clip.



B.S.A. Gent's Roadster Bicycle

This bicycle is designed for the rider who requires a machine for all-round cycling in town and country. It provides an ever-ready means of riding to business or the sports field, and is equally suitable for touring. The B.S.A. Standard Roadster is very free and easy running, and the high quality of the material and finish leaves nothing to be desired.

Specification

FRAME . . .	Sizes : 21-in., 22-in., 23-in., 24-in., 25-in., 26-in., and 27-in.	BRAKE . . .	B.S.A. front rim brake, with rolling lever.
WHEELS . . .	28-in., equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.	SADDLE . . .	Brooks' latest design B18, B75, or B77 saddle, with enamelled springs.
TYRES . . .	Dunlop or Palmer 1½-in., with wired or beaded edges.	FINISH . . .	Four coats of Pellolite black enamel, neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolite enamel, see page 6.
BACK HUB . .	Eadie Coaster.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler and the necessary B.S.A. spanners, to fit all nuts, cones and cups.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		
GEAR . . .	74, or to order.		
PEDALS . . .	B.S.A. rat-trap or rubber: size to order.		

Prices

	NET	CASH					
Model No. 3	As per specification	- - - - -	£9	10	0	Or	£2 deposit and 12 monthly payments of 14/1
Model No. 3A	As per specification, but with free wheel and two B.S.A. rolling lever brakes	- - - - -	9	10	0	..	£2 12 14/1
Model No. 3B	As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	- - - - -	10	5	0	..	£2 12 15/6
Model No. 3C	As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	- - - - -	10	7	6	..	£2 12 15/9
Model No. 3D	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	- - - - -	10	13	0	..	£2 12 16/3



Beaumaris
Castle



*Perfect in
Every Part*



B. S. A. Gent's Roadster Bicycle.

B.S.A. Lady's Roadster Bicycle

Owing to its reliability, comfort, and easy running, this model is highly appreciated by lady riders. It is suitable for either business or pleasure cycling, and combines to a remarkable degree strength and rigidity without undue weight. Many refinements are embodied—including the B.S.A. Detachable Quadrants, which enable the dress guards to be quickly detached and replaced during tyre repairs and cleaning operations.

Specification

FRAME . . Sizes : 21-in., 22-in., 23-in., 24-in., and 25-in.
WHEELS . . 28-in., equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.
TYRES . . Dunlop or Palmer 1½-in., with wired or beaded edges.
BACK HUB . Eadie Coaster.
CHAIN . . B.S.A. ½-in. pitch, tested to a strain of 2,000 lbs.
GEAR . . . 65, or to order.
PEDALS . . B.S.A. rubber; 3¼-in., or to order.

BRAKE . . B.S.A. front rim brake with rolling lever.
SADDLE . . Brooks' latest design B18, B75, or B77 saddle, with enamelled springs.
GEAR CASE . Metal, detachable, with plated disc.
FINISH . . Four coats of Pellolit black enamel, neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
 Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler, and necessary B.S.A. spanners to fit all nuts, cones and cups.

Prices

	NET CASH.								
Model No. 4 As per specification	£9	15	0	Or	£2	deposit and 12 monthly payments of	14/7		
Model No. 4A As per specification, but with free wheel and two B.S.A. rolling lever brakes	9	15	0	..	£2	.. .. 12	14/7		
Model No. 4B As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	10	10	0	..	£2	.. .. 12	15/11		
Model No. 4C As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	10	12	6	..	£2	.. .. 12	16/2		
Model No. 4D As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	10	18	0	..	£2	.. .. 12	16/8		

This machine can also be supplied with 26-in. wheels and also IN ALL-BLACK FINISH with bronze lining at the above prices.



Crowland
Abbey



*Perfect in
Every Part*



B.S.A. Lady's Roadster Bicycle.

B.S.A. Road Racer Bicycle

In the B.S.A. Road Racing Model the ideas of some of the most successful road men are incorporated. The angles of the frame are designed so as to secure a riding position which is comfortable and permits the rider to use his powers to the best advantage. Wood rims can be fitted to this model, and mudguards attached if desired. B.S.A. "Quick Release" back fork ends are fitted which allow the back wheel to be removed and replaced without having to unbolt the chain.

Specification

FRAME . . . Sizes: 21-in., 22-in., 23-in., 24-in., 25-in. and 26-in.
 WHEELS . . . 26-in., equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.
 TYRES . . . Dunlop, Palmer, or Clipper Speed 1 $\frac{1}{4}$ -in., or 1 $\frac{3}{8}$ -in., with wired or beaded edges.
 BACK HUB . . Eadie Coaster, 1 $\frac{1}{8}$ -in. chain line.
 CHAIN . . . B.S.A. $\frac{1}{2}$ -in. pitch, tested to a strain of 2,000-lbs.
 GEAR . . . 75, or to order.

PEDALS . . . B.S.A. rat trap or rubber; size to order.
 SADDLE . . . Brooks' latest design B18 saddle, with enamelled springs.
 FINISH . . . Four coats of Pellolit black enamel; neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
 Equipped with 15-in. celluloid inflater, enamelled clips, complete with tool bag, oiler, and necessary B.S.A. spanners, to fit all nuts, cones and cups.

Prices

	NET CASH.	
Model No. 5. As per specification	£9 5 0	Or £2 deposit and 12 monthly payments of 13/8
Model No. 5A As per specification, but with free wheel and B.S.A. front rim brake with inverted or short pull-up lever	9 5 0	.. £2 12 13/8
Model No. 5B As per specification, but with Eadie Two-speed hub and B.S.A. front rim brake with inverted or short pull-up lever	10 0 0	.. £2 12 15/-
Model No. 5C As per specification, but with Eadie Two-speed Coaster	10 2 6	.. £2 12 15/3
Model No. 5D As per specification, but with B.S.A. Three-speed hub and B.S.A. front rim brake with inverted or short pull-up lever	10 8 0	.. £2 12 15/9

NOTE—Models 5C and 5D can only be supplied in 1 $\frac{1}{4}$ -in. chain line. Also made with 2-in. drop, or with horizontal top tube if required. If flat or upturned handlebar is selected, brakes with standard levers can be fitted. Wood rims and mudguards extra, see page 40.



Dunure
Castle

*Perfect in
Every Part*



B.S.A. Road Racer Bicycle.

B.S.A. Path Racer Bicycle

A compact and strong, yet very light machine, which, like the Road Racer, has been designed upon the ideas and from the experience of prominent racing men. Owing to its thoroughly efficient design and construction, the speedman can always rely upon it responding to every atom of power expended. This model is fitted with B.S.A. "Quick Release" fork ends, allowing the back wheel to be removed and replaced without unbolting the chain.

Specification

FRAME . . . Sizes: 21-in., 22-in., 23-in., 24-in., and 25-in.
 WHEELS . . . 26-in., equal, wood rims.
 TYRES . . . Dunlop Path Racing Tyres, 1-in. or 1½-in.
 BACK HUB . . . B.S.A. 1 ⁵/₁₆-in. chain line with fixed cog.
 CHAIN . . . B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.
 GEAR . . . 75, or to order.
 PEDALS . . . B.S.A. rat-trap; size to order.

SADDLE . . . Brooks' latest design B11 saddle, with plated springs.

FINISH . . . Four coats of Pellolit black enamel. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
 Equipped with 15-in. celluloid inflater, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners to fit all nuts, cones and cups.

Prices

		NET CASH.			
Model No. 6	As per specification	£9	0 0	Or £2 deposit and 12 monthly payments of	13/2
Model No. 6A	As per specification, but with Palmer or Dunlop road racing tyres on plated steel rims.	9	0 0	„ £2 „ „ 12 „ „ „	13/2
Model No. 6B	As per specification, but with Eadie Two-speed hub having fixed or free wheel on both gears, and B.S.A. front rim brake with inverted or short pull-up lever	10	3 0	„ £2 „ „ 12 „ „ „	15/3



Bolton
Abbey



*Perfect in
Every Part*



B.S.A. Path Racer Bicycle.

B.S.A. Modèle de Luxe Gent's Bicycle

The rider who desires an exceptionally luxurious cycle will appreciate the elegant design and construction of this model. It represents the highest standard of excellence yet reached in cycle engineering, and though it is possible to pay more, it is impossible to obtain a more perfect bicycle. The many exclusive B.S.A. refinements contribute to easy, speedy cycling, while the graceful design and handsome finish elicit the admiration of the most fastidious.

Specification

FRAME . . .	Sizes : 21-in., 23-in., 24-in., 25-in., 26-in., and 27-in.	BRAKE . . .	B.S.A. front rim brake, with rolling lever.
WHEELS . . .	28-in., equal. Steel Rims highly polished and heavily nickel plated, spokes enamelled, and centres of rims enamelled and lined.	SADDLE . . .	Brooks' latest B90/1 saddle, with plated springs.
TYRES . . .	Dunlop or Palmer 1½-in., with wired or beaded edges.	GEAR CASE . . .	B.S.A. special oil bath, detachable gear case.
BACK HUB . . .	Eadie Two-speed Coaster, with handlebar or top tube control.	FINISH . . .	Four coats of a rich shade of green Pellolit enamel: neatly lined out with 22-ct. leaf gold. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		Equipped with best grade 16 × ⅞-in. celluloid inflator, enamelled clips, complete with superior tool bag, oiler, and the necessary B.S.A. spanners, to fit all nuts, cones and cups.
GEAR . . .	Designed for 48 teeth on bottom bracket wheel, and 16, 18, or 20 teeth on hub wheel.		
PEDALS . . .	B.S.A. rubber; size to order.		

Prices

		NET CASH.			
Model No. 1	As per specification	£14	0 0	Or £2 deposit and 12 monthly payments of	22/4
Model No. 1A	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	14	0 0	„ £2 „ „ 12 „ „ „	„ 22/4
	Can also be supplied finished in Pellolit Black Enamel with Gold Leaf Lining. Prices same as above.				



Kenilworth
Castle.



*Perfect in
Every Part*



B.S.A. Gent's Modèle de Luxe Bicycle.

B.S.A. Modèle de Luxe Lady's Bicycle

The lady who is only satisfied with the highest grade machine, and must have a mount both easy to ride and of pleasing appearance will specially appreciate this model. In the whole of the cycling world nothing better than the B.S.A. Modèle de Luxe Lady's Bicycle can be obtained. Its elegant design and tasteful finish, its faultless construction and exclusive refinements are all typical of B.S.A. thoroughness. Ladies who have hesitated to cycle, owing to fear of fatigue, will be delighted with its luxuriously smooth and easy running.

Specification

FRAME . . .	Sizes : 21-in., 22-in., 23-in., 24-in., and 25-in.	BRAKE . . .	B.S.A. front rim brake, with rolling lever.
WHEELS . . .	28-in., equal. Steel Rims highly polished and heavily nickel plated, spokes enamelled, and centres of rims enamelled and lined.	SADDLE . . .	Brooks' latest B 85 saddle, with plated springs.
TYRES . . .	Dunlop or Palmer 1½-in., with wired or beaded edges.	GEAR CASE	B.S.A. special oil bath, detachable gear case.
BACK HUB . .	Eadie Two-speed Coaster, with handlebar control.	FINISH . . .	Four coats of a rich shade of green Pellolite enamel; neatly lined out with 22-ct. leaf gold. The usual bright parts are heavily plated. For special note re Pellolite enamel, see page 6.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		Equipped with best grade 16-in. × ⅜-in. celluloid inflator, enamelled clips, complete with superior tool bag, oiler, and the necessary B.S.A. spanners, to fit all nuts, cones and cups.
GEAR . . .	Designed for 44 teeth on bottom bracket wheel, and 16, 18, or 20 teeth on hub wheel.		
PEDALS . . .	B.S.A. divided rubber; 3¼-in., or to order.		

Prices

		NET CASH.			
Model No. 2	As per specification	£14	0 0	Or £2 deposit and 12 monthly payments of	22/4
Model No. 2A	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	14	0 0	„ £2 „ „ 12 „ „ „	22/4
Can also be supplied finished in Pellolite Black Enamel with Gold Leaf Lining. Prices same as above.					



Fountains Abbey



*Perfect in
Every Part*

B.S.A. Lady's Modèle de Luxe Bicycle.

B.S.A. Gent's Light Roadster Bicycle

This machine provides just the happy medium between the Road Racer and the Full Roadster Models, with the result that it is extremely popular amongst riders who require a speedy yet serviceable mount. The frame is strongly constructed on graceful lines with sloping top tube, and the riding position is conducive to fast, easy cycling with a minimum of effort.

Specification

FRAME . . .	Sizes: 21-in., 22-in., 23-in., 24-in., 25-in., and 26-in.	PEDALS . . .	B.S.A. rat-trap or rubber; size to order.
WHEELS . . .	26-in., equal, with wood rims.	SADDLE . . .	Brooks' latest design B18, B75, or B77 saddle, with enamelled springs.
TYRES . . .	Dunlop Open-sided, Palmer Light Roadster, or Clipper Speed 1½-in. or 1½-in., with wired edges.	FINISH . . .	Four coats of Pellolit black enamel, neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
BACK HUB . .	Eadie Coaster, 1½-in. chain line.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners, to fit all nuts, cones and cups.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		
GEAR . . .	74, or to order.		
ERAKE . . .	B.S.A. front rim brake, with rolling (or pull-up) lever.		

Prices

NET CASH.

Model No. 10	As per specification	£9 15 0	Or £2 deposit and 12 monthly payments of 14/7
Model No. 10A	As per specification, but with free wheel and two B.S.A. rolling lever brakes	9 15 0	„ £2 „ „ 12 „ „ „ 14/7
Model No. 10B	As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	10 10 0	„ £2 „ „ 12 „ „ „ 15/11
Model No. 10C	As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	10 12 6	„ £2 „ „ 12 „ „ „ 16/2
Model No. 10D	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	10 18 0	„ £2 „ „ 12 „ „ „ 16/8

Steel rims can be fitted in place of Wood Rims, if desired. The standard design is with 1-in. drop in top tube, but if ordered with 28-in. wheels it is supplied with horizontal top tube, or can be made with 2-in. drop.



Caerphilly
Castle



*Perfect in
Every Part*



B.S.A. Gent's Light Roadster Bicycle.

B.S.A. Gent's Tourist Bicycle

Business and professional men, equally with the touring cyclist, appreciate the many merits of this model. Owing to its construction and easy, silent running, it is pre-eminently suitable for constant daily use, long tours and any conditions that specially demand comfort and unfailing service. The Tourist Bicycle is designed on graceful lines and is absolutely rigid under the greatest strain, only materials of the very finest quality being used.

Specification

FRAME . . .	Sizes: 21-in., 23-in., 24-in., 25-in., 26-in., and 27-in.	PEDALS . . .	B.S.A. rubber or rat-trap; size to order.
WHEELS . . .	28-in. equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.	BRAKES . . .	B.S.A. with rolling levers.
TYRES . . .	Dunlop or Palmer 1½-in., with wired or beaded edges.	SADDLE . . .	Brooks' latest design B 90/1 saddle with plated springs.
BACK HUB . . .	B.S.A. Three-speed, with top tube or handlebar control.	GEAR CASE . . .	B.S.A. special oil bath, detachable.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.	FINISH . . .	Four coats of Pellolit black enamel neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
GEAR . . .	Designed for 48 teeth on bottom bracket wheel, and 16, 18, or 20 teeth on hub wheel.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners, to fit all nuts, cones and cups.

Prices

NET CASH.

Model No. 12 As above specification, including B.S.A. Three-speed hub and oil bath gear case **£12 10 0** Or £2 deposit and 12 monthly payments of **19/7**



Conisboro
Castle



*Perfect in
Every Part*



B.S.A. Gent's Tourist Bicycle.

B.S.A. All-Black Bicycle

This model has proved a great boon to cyclists who appreciate a machine of neat appearance but can spare little time for cleaning and polishing. There are no nickelled parts to polish, and after a day's cycling through mud and rain, the machine's brilliant black finish is quickly restored by a few rubs with a damp cloth. The B.S.A. "All-Black" is specially built to withstand the wear and tear of hard riding in all weathers, and as the bearings are grit and waterproof, easy running and perfect reliability are assured.

Specification

FRAME . . .	Sizes: 21-in., 23-in., 24-in., 25-in., 26-in., and 27-in.	SADDLE . . .	Brooks' latest design B 18, B 75, or B 77 saddle, with enamelled springs.
WHEELS . . .	28-in., equal. Rims enamelled and lined, and spokes enamelled.	GEAR CASE . . .	See extras shown below.
TYRES . . .	Dunlop or Palmer, 1½-in., with wired or beaded edges.	FINISH . . .	Frame, forks, mudguards, and the usual bright parts finished with four coats of Pellolite black enamel; neatly lined out with bronze. For special note re Pellolite enamel see page 6.
BACK HUB . . .	Eadie Coaster.		Equipped with 15-in. celluloid inflator, clips, complete with tool bag, oiler, and the necessary B.S.A. spanners to fit all nuts, cones and cups.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		
GEAR . . .	74, or to order.		
PEDALS . . .	B.S.A. rat-trap or rubber; size to order.		
BRAKE . . .	B.S.A. front rim brake with rolling lever.		

Prices

	NET CASH.									
Model No. 13 As per specification	£9 10 0	Or	£2	deposit	and	12	monthly	payments	of	14/1
Model No. 13A As per specification, but with free wheel and two B.S.A. rolling lever brakes	9 10 0	..	£2	..	..	12	..	..	..	14/1
Model No. 13B As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	10 5 0	..	£2	..	..	12	..	..	..	15/6
Model No. 13C As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	10 7 6	..	£2	..	..	12	..	..	..	15/9
Model No. 13D As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	10 13 0	..	£2	..	..	12	..	..	..	16/3

If fitted with Ordinary Metal Gear Case, 10/- extra net or 12 monthly payments of 11d. extra.
 Oil Bath Detachable Gear Case, as illustrated, 20/- extra net, or 12 monthly payments of 1/10 extra.



The Castle
Aberystwyth



*Perfect in
Every Part*

B.S.A. All-Black Bicycle.

B.S.A. All-Weather Bicycle

This handsome machine now makes it possible for the cyclist, out in all weathers, to ride in perfect comfort and to preserve a clean, smart appearance. Its design, construction, and finish are the result of practical experience of all-weather cycling. As will be seen from the illustration, particular attention has been paid to the mudguards, which are provided with effective side wings. There are no plated parts to polish, and having rust-proof finish throughout, this model is quickly and easily cleaned with a damp cloth.

Specification

FRAME . . .	Sizes: 21-in., 23-in., 24-in., 25-in., 26-in., and 27-in.	MUDGUARDS	B.S.A. steel with long forward extension and side wings.
WHEELS . . .	28-in., equal. Rims enamelled and lined, and spokes enamelled.	SADDLE . . .	Brooks' latest design B 18, B 75, or B 77 saddle, with enamelled springs.
TYRES . . .	Dunlop or Palmer 1½-in., with wired or beaded edges.	GEAR CASE	B.S.A. detachable oil bath.
BACK HUB . .	Eadie Coaster.	FINISH . . .	Frame, forks, mudguards, and the usual bright parts finished with four coats of Pellolit black enamel; neatly lined out with bronze. For special note re Pellolit enamel, see page 6.
CHAIN . . .	B.S.A. ½-in. pitch, tested to a strain of 2,000-lbs.		Equipped with 15-in. celluloid inflator, clips, complete with tool bag, oiler, and the necessary B.S.A. spanners to fit all nuts, cones and cups.
GEAR . . .	Designed for 48 teeth on bottom bracket wheel, and 16, 18, or 20 teeth on hub wheel.		
PEDALS . . .	B.S.A. rat-trap or rubber; size to order.		
BRAKE . . .	B.S.A. front rim brake with rolling lever.		
HANDLEBARS	Semi-celluloid covered.		

Prices

	NET CASH.			Or £2 deposit and 12 monthly payments of 16/8								
Model No. 14 As per specification	£10	17	6	..	£2	..	..	12	..	..	..	16/8
Model No. 14A As per specification, but with free wheel and two B.S.A. rolling lever brakes	10	17	6	..	£2	..	..	12	..	..	..	16/8
Model No. 14B As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	11	12	6	..	£2	..	..	12	..	..	..	18/-
Model No. 14C As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	11	15	0	..	£2	..	..	12	..	..	..	18/3
Model No. 14D As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	12	1	0	..	£2	..	..	12	..	..	..	18/9

Ladies' Bicycles to this specification can also be supplied at the same prices and terms.



Barnard Castle



*Perfect in
Every Part*



B.S.A. All-Weather Bicycle.

B.S.A. Gent's Heavy Roadster Bicycle With Double Top Tube

This model is specially designed and strongly constructed for the cyclist of more than average weight. As shown by the illustration on opposite page, it is built with double top tube, which gives exceptional strength, and the fittings throughout are proportionately strengthened. The equipment is of first-class quality, and the general appearance of the machine bears the stamp of B.S.A. thoroughness. The heaviest rider can use this machine with perfect confidence.

Specification

FRAME . . .	Sizes: 25-in., 26-in., 27-in., and 28-in.	BRAKE . . .	B.S.A. front rim brake, with rolling lever.
WHEELS . . .	28-in. equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.	SADDLE . . .	Brooks' latest design B 90/2 saddle with enamelled springs.
TYRES . . .	Dunlop or Palmer 1 $\frac{3}{4}$ -in., with wired or beaded edges.	FINISH . . .	Four coats of Pellolit black enamel, neatly lined out with green. The usual bright parts are heavily plated. *For special note re Pellolit enamel see page 6.
BACK HUB . . .	Eadie Coaster, 1 $\frac{3}{4}$ -in. chain line.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners to fit all nuts, cones, and cups.
CHAIN . . .	B.S.A., $\frac{1}{2}$ -in. pitch, tested to a strain of 2,000-lbs.		
GEAR . . .	74, or to order.		
PEDALS . . .	B.S.A. rubber or rat-trap; size to order.		

Prices

	NET CASH.				
Model No. 7	As per specification.	£10 10 0	Or	£2 deposit and 12 monthly payments of 15/11	
Model No. 7A	As per specification, but with free wheel and two B.S.A. rolling lever brakes	10 10 0	..	£2 12 15/11	
Model No. 7B	As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	11 5 0	..	£2 12 17/4	
Model No. 7C	As per specification, but with Eadie Two-speed coaster hub and B.S.A. front rim brake with rolling lever	11 7 6	..	£2 12 17/7	
Model No. 7D	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	11 15 0	..	£2 12 18/3	



Much Wenlock
Abbey



*Perfect in
Every Part*



B.S.A. Gent's Heavy Roadster Bicycle.

B.S.A. Constabulary Bicycle

Designed originally to meet the demand of members of the Royal Irish Constabulary for a strong and reliable machine which would enable them to properly cover their widely scattered districts—often served by bad roads—this model has found great favour not only in the Police Force, but among all classes of public officials. It will carry a heavy rider over bad roads in comfort and safety.

Specification

FRAME . . .	Sizes : 23-in., 24-in., 25-in., 26-in., and 27-in.	BRAKE . . .	B.S.A. front rim brake; with rolling lever.
WHEELS . . .	28-in., equal. Rims highly polished and heavily nickel-plated, spokes enamelled, and centres of rims enamelled and lined.	SADDLE . . .	Brooks' latest design B 90/3 saddle, with enamelled springs.
TYRES . . .	Dunlop "Magnum" or Palmer Heavy Roadster 1 $\frac{3}{4}$ -in., with wired or beaded edges.	FINISH . . .	Four coats of Pellolit black enamel, neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel, see page 6.
BACK HUB . . .	Eadie Coaster, 1 $\frac{3}{4}$ -in. chain line.		Equipped with 15-in. celluloid inflater, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners to fit all nuts, cones and cups.
CHAIN . . .	B.S.A. $\frac{1}{2}$ -in. pitch, tested to a strain of 2,000-lbs.		
GEAR . . .	75, or to order.		
PEDALS . . .	B.S.A. rubber or rat-trap; size to order.		

Prices

	NET CASH.								
Model No. 8	As per specification	£10	10	0	Or	£2	deposit	and	12 monthly payments of 15/11
Model No. 8A	As per specification, but with free wheel and two B.S.A. rolling lever brakes	10	10	0	..	£2	..	..	12 15/11
Model No. 8B	As per specification, but with Eadie Two-speed hub and two B.S.A. rolling lever brakes	11	5	0	..	£2	..	..	12 17/4
Model No. 8C	As per specification, but with Eadie Two-speed Coaster and B.S.A. front rim brake with rolling lever	11	7	6	..	£2	..	..	12 17/7
Model No. 8D	As per specification, but with B.S.A. Three-speed hub and two B.S.A. rolling lever brakes	11	15	0	..	£2	..	..	12 18/3



Dunluce Castle



*Perfect in
Every Part*



B.S.A. Constabulary Bicycle.

B.S.A. Tradesman's Bicycle

This machine is a necessity in every up-to-date business where prompt delivery of goods is essential. It is constructed for speedy and reliable service all the year round. As this type of machine is subject to frequent rough usage the B.S.A. Carrier Bicycle is built on full roadster lines, and reinforced in parts liable to constant strain. A special feature is the front hub which is made with large bearings and proportionately strengthened. The improved tubular carrier is securely brazed to the frame and in no way affects the steering. A capacious basket is supplied, and the large name plate in the frame can be effectively used for advertising purposes.

Specification

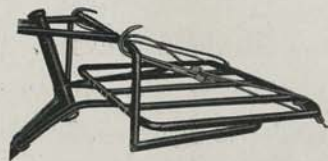
FRAME . . .	Sizes: 23-in. and 24-in.	GEAR . . .	68, or to order.
WHEELS . . .	26-in., equal, enamelled.	BRAKE . . .	B.S.A. front rim brake, with rolling lever.
TYRES . . .	Dunlop or Palmer, 1 $\frac{1}{4}$ -in., with wired or beaded edges.	SADDLE . . .	Brooks' latest design B 18, B 75, or B 77 saddle, with enamelled springs.
CARRIER . . .	B.S.A. improved tubular design, which is securely brazed to the frame, size 18-in. x 12-in. x 6-in. deep, with basket; or flat carrier, 19-in. x 12-in. without basket, but with two long leather straps and buckles.	FINISH . . .	Four coats of Pellolit black or red enamel. The usual bright parts are heavily plated. For special note re Pellolit enamel see page 6.
BACK HUB . . .	Eadie Coaster.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler, and the necessary B.S.A. spanners, to fit all nuts, cones, and cups.
CHAIN . . .	B.S.A. $\frac{1}{2}$ -in. pitch, tested to a strain of 2,000-lbs.		

Prices

Model No.	Description	NET CASH.	Or	£2 deposit and 12 monthly payments of
Model No. 9	As per specification, including B.S.A. Carrier with square basket, and name plate	£10 10 0	Or	£2 deposit and 12 monthly payments of 15/11
Model No. 9A	As per specification, including B.S.A. Carrier with square basket and name plate, but with free wheel and two B.S.A. rolling lever brakes	10 10 0	..	£2 12 15/11
Model No. 9B	As per specification, including B.S.A. Flat Carrier and name plate	10 10 0	..	£2 12 15/11
Model No. 9C	As per specification, including B.S.A. Flat Carrier and name plate, but with free wheel and two rolling lever brakes	10 10 0	..	£2 12 15/11

Lettering on Name Plate from 7/6.

*Perfect in
Every Part*



Hyde Park
Corner



B. S. A. Tradesman's Bicycle.

B.S.A. Roadster Bicycle

SPECIALLY DESIGNED TO SUIT THE AUTO-WHEEL

Having proved very popular, this model is again confidently recommended to cyclists who desire to fully enjoy the pleasure of auto-wheeling. The design of this special model gives a slightly longer wheel base than usual, and the riding position is conveniently low. Every part is constructed to give reliable service under the most severe conditions; high speeds can therefore be attained with perfect safety. Extra large tyres and a well-sprung saddle absorb all road shocks and ensure easy, pleasant cycling at all times.

Specification

FRAME . . .	Sizes: Gent's—20-in., 21-in., 22-in., 23-in., and 24-in.; Lady's—20-in., 21-in., and 22-in.	BRAKE . . .	B.S.A. front rim brake with rolling lever.
WHEELS . . .	26-in. equal. Rims highly polished and heavily nickel-plated, spokes and centres enamelled and lined.	SADDLE . . .	Brooks' latest design, Gent's, B 90/3; Lady's, B 85, with enamelled springs.
TYRES . . .	Dunlop or Palmer 1 $\frac{3}{4}$ -in., with wired or beaded edges.	FINISH . . .	Four coats of Pellolit black enamel, neatly lined out with green. The usual bright parts are heavily plated. For special note re Pellolit enamel see page 6.
BACK HUB . . .	Eadie Coaster.		
CHAIN . . .	B.S.A. $\frac{1}{2}$ -in. pitch, tested to a strain of 2,000-lbs.		Equipped with 15-in. celluloid inflator, enamelled clips, complete with tool bag, oiler and the necessary B.S.A. spanners, to fit all nuts, cones and cups.
GEAR . . .	63, or to order.		
PEDALS . . .	B.S.A. rat-trap or rubber; size to order.		

Prices

GENT'S.		NET CASH.	
Model No. 15	As per specification	£10 0 0	Or £2 deposit and 12 monthly payments of 15/-
LADY'S.			
Model No. 16	As per specification, but with oil bath gear case	10 12 6	.. £2 12 16/2

Can also be supplied in "All Black" finish if required.

NOTE.—The Birmingham Small Arms Company, Ltd., do not supply Auto-wheels.



The Castle
Ashby-de-la-Zouch



*Perfect in
Every Part*

B.S.A. Roadster Bicycle.

SPECIALLY DESIGNED TO SUIT THE AUTO-WHEEL

The following parts, if not included in Specification, can be fitted at the Extras shown :

MODÈLE DE LUXE

	Net for Cash.
Dunlop "Magnum" tyres	8/-
Palmer Special tyres	19/-
Brooks' B 90/2 plated saddle	-/6
" B 90/3 " "	1/6

STANDARD MODELS

	Net for Cash.		Net for Cash.
Bicycles with double top tube	11/6	Wood Rims on Road Racer	3/6
Enamelling in special colours	6/6	Aluminium rims	} Prices quoted on application.
Lining in 22-ct. leaf gold	14/-	Roman rims	
Dunlop "Magnum" tyres	8/-	7½-in. cranks	1/6
Palmer special tyres	19/-	8-in. cranks	3/6
Ordinary metal gear case—Gent's	10/-	Handlebars with forward extension	} Prices quoted on application.
Detachable oil bath metal gear case—Gent's	20/-	" " adjustable clips	
" " " Lady's	15/-	Back carrier with straps	5/-
Front rim brake on Racer Models	7/-	Front mudguard flap	1/-
Mudguards on Racer or Road Racer Models	3/6		

BROOKS' SADDLES, Plated if fitted to Roadster Models.

B 18..1/3 B 85..7/- B 90/1..7/6 B 90/2..8/- B 90/3..9/- B 75..1/6 B 77..1/6 B 302..4/- Net for Cash.

BROOKS' SADDLES, Enamelled if fitted to Roadster Models.

B 85..6/- B 90/1..5/6 B 90/2..6/- B 90/3..6/6 B 302..3/- Net for Cash.

The above prices are for net cash payment; 10% (2/- in the £) will be added when supplied on easy payment terms.



Guarantee for Cycles

WE give the following Guarantee with our machines instead of the guarantee implied by statute, or otherwise, as to the quality or fitness for the purpose of cycling of goods supplied by us; any such implied guarantee being in all cases excluded, nor can any claim for consequential damages be entertained. In the case of machines which have been used for "hiring out" purposes, or in respect of which our Trade Mark or manufacturing number has been removed, no guarantee of any kind is given or is to be implied.

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 one year only from the date of purchase, and the damages for which we make ourselves responsible under this guarantee are limited to the cost of repairs to the cycle.

WE UNDERTAKE, subject to the conditions mentioned below, to make good at any time within a year any defects in these respects in our cycles. This Guarantee does not apply to defects caused by wear and tear, misuse or neglect. Any cycle sent to us to be plated, enamelled, or repaired, will be repaired upon the same conditions as if it were a new cycle, *i.e.*, we guarantee that all precautions which are usual and reasonable have been taken by us to secure excellence of material and workmanship, such guarantee to extend and be in force for one year only from the time such work shall have been executed, and this guarantee is in lieu and in exclusion of any common law or statute warranty, 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, and that no claim for consequential damages can be entertained.

Conditions of Guarantee

If a defective part should be found in any of our machines, it must be sent to us, carriage paid, and accompanied by an intimation from the sender that he desires to have it repaired free of charge under our guarantee, and he must also furnish us at same time with the number of the machine, the name of the agent from whom he purchased, and the date of the purchase.

Failing compliance with the above, no notice will be taken of anything which may arrive, but such articles will lie here at the risk of the senders; and this guarantee, and any implied guarantee, shall not be enforceable.

We do not guarantee the specialities of other firms, such as tyres, saddles, etc., supplied with our cycles or otherwise. We endeavour to secure the highest quality of these articles, and the makers whose names usually appear thereon are in nearly every case willing to replace any defective part, and we will at all times furnish the makers' name as a proof of the quality.

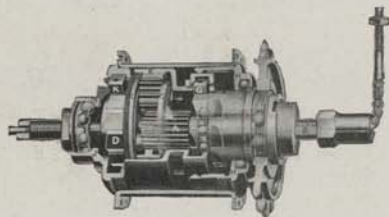
The Term "Agent"

is used in a complimentary sense only, and those firms whom we style our agents are not authorised to advertise, incur any debts, or transact any business whatsoever on our account, other than the sale of goods which they may purchase from us; nor are they authorised to give any warranty or make any representations on our behalf other than those contained in the above guarantee.

The Birmingham Small Arms Company, Limited



B.S.A. THREE-SPEED HUB



SECTIONAL VIEW



B.S.A. FREE WHEEL

THE B.S.A. THREE-SPEED HUB

THE B.S.A. Three-speed Hub is a valuable addition to any roadster bicycle. The low gear divests hill-climbing of its drudgery, and enables the rider to pedal lightly and easily against adverse conditions, such as strong head winds or heavy roads. The normal gear is, of course, intended for normal conditions; and the high gear can be brought into operation when circumstances are favourable and rapid travelling possible. Thus the user gains an all-round advantage. Fatigue is minimised; the average rate of speed is increased, and longer distances can be traversed.

Obviously, however, the space in a bicycle hub shell is so limited that if the gears are to work smoothly and satisfactorily the design must be perfect, and the parts accurately produced from the finest material. The cutting of the extremely small pinions of an epicyclic gear for a bicycle necessitates the utmost skill and care, as incorrectly cut teeth would be a certain source of trouble, and the advantages which the combination of gears should give would be nullified by undue friction.

The B.S.A. Three-Speed Hub gives a free wheel on all speeds, and the gears, being always in mesh, can be changed with smoothness and regularity. It drives solid on the normal gear, and provides an increase of 31.24% from normal to high, while from normal to low a decrease of 23.8% is obtained.

All roadster models, whether B.S.A. or other standard makes, can be fitted with the B.S.A. Three-Speed Hub. For Gent's machines either handlebar or top tube controls may be fitted, but Ladies' models are supplied with handlebar control only.

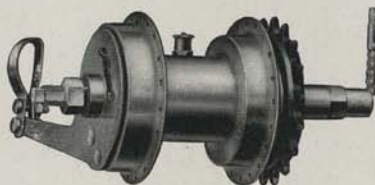
THE B.S.A. MARK I. FREE WHEEL

IN every detail of the B.S.A. Mark I. Free Wheel the B.S.A. standard of quality is apparent, and absolute efficiency under all conditions is ensured. This Free Wheel is made on the most approved ratchet principle. A special process of fixing the back plate to the centre prevents the possibility of disturbance to the relative positions of the two ball races.

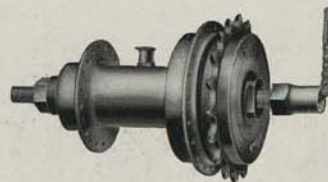
B.S.A. Book of Variable Gears and Coasters sent post free on request.



EADIE COASTER HUB



EADIE TWO-SPEED COASTER HUB



EADIE TWO-SPEED HUB

THE EADIE COASTER HUB

(With Positive Drive)

EACH year an increasing number of cyclists acquire a more intimate knowledge of the advantages obtained from the use of the Eadie Coaster Hub, for the combination of perfect brake control with a frictionless free wheel makes it an ideal fitment for all who are anxious to secure the maximum amount of pleasure from cycling.

The latest pattern Eadie Coaster is fitted with direct drive, an improvement which prevents all possibility of slipping. As the illustration shows, the Buttress Teeth are of exceptional strength and made specially shallow, so that the clutch takes up the drive with perfect and instant engagement.

The construction of the brake is such as to make possible a more gradual application than is obtained in any similar device. A slight backward pressure of the pedals is all that is necessary to bring the brake into operation, yet the whole power is at the rider's service for any and every emergency, and can be brought into effect with the greatest ease.



EADIE COASTER
POSITIVE DRIVE CLUTCH

THE EADIE TWO-SPEED COASTER HUB

THIS device is a combination of the well-known Eadie Coaster Hub with the principle of the variable gear. Hence, cyclists can enjoy its labour-saving advantages in the assurance of the complete security afforded by the coaster hub. The Eadie Two-Speed Coaster Hub is the only successful combination, in one shell, of a perfect two-speed gear, a pedal actuated brake, and an absolutely frictionless free wheel. By the simplicity of its brake, the small number of working parts in both brake and gear, its light weight and great efficiency under all conditions, it is now recognised as superior to any other similar device. On the steepest descent perfect control of the bicycle is maintained by a slight backward pressure of the pedal.

THE EADIE TWO-SPEED HUB

THE Eadie Two-Speed Hub is undoubtedly the most satisfactory two-speed device obtainable. In constructional design it is simplicity itself, and its working parts are comparatively few. The pinions are arranged on what is popularly known as the "sun and planet" principle. The gear may be changed either when pedalling, free-wheeling, or when the machine is stationary. It can be supplied with free wheel on both gears, or with a fixed wheel on both gears. The Eadie Two-Speed is the only variably geared hub which is suitable for road racing machines of narrow chain line. A choice of control mechanism is also offered, either to operate from top tube or handlebar.

B.S.A. Book of Variable Gears and Coasters sent post free on request.

B.S.A. Specially-prepared Lubricating Oils

THE high-grade bicycle of to-day, with its several types of gears, brakes, etc., necessitates a suitable high-class oil if the smooth running and perfect working of its fittings are to be ensured.



B.S.A. Lubricating Oil, which is of a highly refined quality, is the result of exhaustive experiments, and is particularly suitable for Bicycles, Three-Speeds, Two-Speeds, Coasters, Two-Speed Coasters, and Free Wheels.

B.S.A. Lubricating Oil is economical. A very little will serve to lubricate bearings, etc., for a considerable time, and there is no danger of the oil thickening or clogging. It can be used for the most delicate mechanism, and the specially designed air-tight tin always keeps the oil in perfect condition.

For Chain Lubrication in Oil Bath Gear Cases, there is nothing to equal the B.S.A. CHAIN LUBRICANT. It is a specially prepared pure hydro-carbon oil and will remain in the gear case without thickening. Its use is strongly recommended to all riders who desire perfect lubrication and a silk-like running of the chain.

B.S.A. specially prepared Lubricating Oils are obtainable from all cycle agents.

B.S.A. Three-Speed Hub Gear Tables

PITCH	NO. OF TEETH ON BOTTOM BRACKET CHAIN WHEEL	GEARS	26" WHEELS				28" WHEELS			
			NO. OF TEETH ON HUB CHAIN WHEEL				NO. OF TEETH ON HUB CHAIN WHEEL			
			16	18	20	22	16	18	20	22
1/2"	42	LOW	52	48.2	41.6		56	49.7	44.8	40.7
		NORMAL	68.2	60.6	54.6		73.5	65.3	58.8	53.4
		HIGH	89.5	79.5	71.7		96.5	85.7	77.2	70.1
	44	LOW	54.5	48.4	43.6	39.6	58.7	52.1	46.9	42.6
		NORMAL	71.5	63.5	57.2	52	77	68.4	61.6	56
	46	LOW	56.9	50.6	45.6	41.3	61.3	54.5	49.1	44.6
		NORMAL	74.7	66.4	59.8	54.3	80.5	71.5	64.4	58.5
		HIGH	98	87.1	78.5	71.3	105.6	93.8	84.5	76.8
	48	LOW	59.4	52.8	47.5	43.2	64	56.8	51.2	46.4
		NORMAL	78	69.3	62.4	56.7	84	74.6	67.2	61
		HIGH	102.4	90.9	81.9	74.4	110.2	97.9	88.2	80.1
	52	LOW	64.4	57.2	51.5	46.8	69.3	61.6	55.5	50.4
NORMAL		84.5	75.1	67.6	61.4	91	80.9	72.8	66.2	
HIGH		110.9	98.6	88.7	80.6	119.4	106.2	95.5	86.9	
56	LOW	69.3	61.6	55.4	50.4	74.7	66.4	59.7	54.3	
	NORMAL	91	80.8	72.8	66.2	98	87.1	78.4	71.3	
	HIGH	119.4	106	95.5	85.9	128.6	114.3	102.9	93.6	
60	LOW	74.3	66	59.4	54		71.1	64	58.1	
	NORMAL	97.5	86.7	78	70.9		93.3	84	76.3	
	HIGH	128	113.8	102.4	93		122.4	110.2	99.2	

Eadie Two-Speed Gear Tables

PITCH	NO. OF TEETH ON CHANK BRACKET CHAIN WHEEL	GEARS	26" WHEELS				28" WHEELS			
			NO. OF TEETH ON HUB CHAIN WHEEL				NO. OF TEETH ON HUB CHAIN WHEEL			
			16	18	20	22	16	18	20	22
42	42	NORMAL	68.2	60.6	54.6		73.5	65.3	58.8	53.4
		LOW	53.7	47.7	43		57.8	51.4	47.3	42
44	44	NORMAL	71.5	63.5	57.2	52	77	68.4	61.6	56
		LOW	56.2	50	45	40.9	60.6	53.8	48.5	43.1
46	46	NORMAL	74.7	66.4	59.8	54.3	80.5	71.5	64.4	58.5
		LOW	58.8	52.2	47.1	42.7	63.3	56.2	50.7	46
48	48	NORMAL	78	69.3	62.4	56.7	84	74.6	67.2	61
		LOW	61.4	54.5	49.1	44.6	66.1	58.7	52.9	48
52	52	NORMAL	84.5	75.1	67.6	61.4	91	80.9	72.8	66.2
		LOW	66.5	59.1	53.2	48.3	70.9	63.6	57.3	52.1
56	56	NORMAL	91	80.8	72.8	66	98	87.1	78.4	71.1
		LOW	71.6	63.5	57.3	51.9	77.1	68.5	62.7	55.9
60	60	NORMAL	97.5	86.6	78	70.9	105	93.3	84	76.3
		LOW	76.7	68.1	61.4	55.8	82.6	73.4	66.1	60

For ordinary gearing use the Normal Gear from above table.
Gears for Eadie Two-Speed Coaster Hub are the same as the Normal and Low Gears of the B.S.A. Three-Speed Hub.