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Nearest Station:  
WOOLWICH ARSENAL  
(S.E. & C. Ry.)



**MODELS H & H/2.**

**H. COLLIER & SONS LTD**  
MOTORCYCLE MANUFACTURERS.  
CONTRACTORS TO H.M. GOVERNMENT.

Registered Offices and Showrooms:  
44/45 PLUMSTEAD ROAD, PLUMSTEAD, LONDON, S.E. 18,

ENGLAND

Telephone:  
WOOLWICH 17 and 18.

Telegrams and Cables:  
MATCHLESS, WOOLWICH.

Works:  
BURRAGE GROVE  
& MAXEY ROAD,  
PLUMSTEAD.





# SPECIFICATION. MODEL H.

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15  
25  
236.15

**FRAME.** "Matchless" patent spring frame.

**FORKS.** "Matchless" girder patent spring forks.

**TANK.** Capacity: petrol, 2½ gallons; oil, 6 pints. Drain cock, petrol tap with filter. Semi-automatic lubricator.

**ENGINE.** Latest type 8 h.p. J.A.P.

**MAGNETO.** Latest type, waterproof, British made.

**CARBURETTOR** Specially manufactured for this machine.

**SILENCER.** Exceptionally large with long tail pipe.

**CONTROL.** Carburettor control on right side of handlebar. Gear change on right of tank. Ignition lever on left side of tank.

**GEAR.** Three-speed with gate change.  
Ratios:—Top 4'65; Middle 7'77; Low 12'97.

**CLUTCH.** Metal-to-metal foot control.

**KICKSTARTER.** Fitted on right side of machine. Combined with valve lifter.

**TRANSMISSION.** Engine to gear box, Coventry silent chain, ½" pitch x 1". Gear box to rear wheel, Renolds roller chain, ⅝" pitch x ⅜". Chains entirely enclosed in separate easily-detachable oiltight cases.

**WHEELS.** "Matchless" patent detachable and interchangeable 28" x 3".

**TYRES.** Best quality 28" x 3" Clincher "Dreadnought," Goodyear or other first-class makes.

**FOOTBOARDS.** Pressed sheet steel with corrugated top.

**BRAKES.** Internal expanding rear brake operated by foot pedal either side. Front rim brake operated by right hand.

**SPECIAL EXTRA.** New type contracting band brake operating on front wheel, supplied only for exceptionally hilly districts.

**STANDS.** Fitted to all wheels.

**MUDGUARDS.** 5½" wide.

## SIDECAR SPECIFICATION.

**FRAME.** "Matchless" patent spring frame.

**WHEEL.** Detachable and interchangeable.

**TYRE.** Best quality 28" x 3" Clincher "Dreadnought," Goodyear or other first-class make.

**MUDGUARD.** 5½" wide.

**STAND.** Mounted independently of wheel axle.

**BODY.** Handsome new registered design, large tool compartment under seat. Accommodation in locker at back for spare can of petrol, rugs, etc.

**LUGGAGE GRID.** Fitted to rear of body.

**WIND SCREEN.** Registered design, with lift-up metal front.

**FINISH.** "Matchless" grey enamel, green panel on tank; usual parts heavily plated.

**PRICE.** With full kit of tools, spare parts list, instruction book, inflator and spare wheel complete with tyre £205.

**EXTRAS.** Acetylene lamp set, £9; Hood, £4 12s. 6d.; Bulb horn, £1 7s. 6d.; Legshields, 17s. 6d.; Sidecar step, 15s.; Electric outfit, £25.

ALL PRICES AND SPECIFICATIONS SUBJECT TO ALTERATION WITHOUT NOTICE.





## TERMS OF BUSINESS.

All prices and specifications in this Catalogue are subject to alteration without previous notice.

Orders can only be accepted upon the distinct understanding that machines are supplied at the price ruling at date of delivery.

A deposit of £5 is required upon all retail orders for motor-cycles and sidecars. District agents have been appointed in all important towns in the United Kingdom, and all inquiries received are referred to the nearest agent for attention.

Delivery dates are only approximate, and are not guaranteed. Delivery is at our works, and agents are entitled to charge the full cost of packing and transport from works to their premises.

The prices of all machines are nett cash, payment to be made before delivery from works, and no allowance of any kind can be made, whether orders are received direct at our works or through any of our appointed agents.

Crates and packing are charged up at cost price. Two-thirds of value will be allowed when crates are returned, if received in good condition, carriage paid.

Our responsibility ceases when goods leave our works; careful examination should be made of machines before signing carrier's receipt, and claims must immediately be made on carriers in the event of damage being done during transit.

All orders from abroad, unless received through established agencies or shipping houses, must be accompanied by a deposit of not less than £10, and credit opened with English bank or first-class firm, who will pay balance on receipt of shipping documents.

Every motorcycle is thoroughly tested on the road before being despatched.







## PATENTED FEATURES OF THE MODEL H "MATCHLESS."

SPRING FORKS, giving correct movement to absorb road shocks, fitted with concealed main, buffer and recoil springs.

CANTILEVER TYPE SPRING FRAME, exceptionally large movement and efficient means of lubricating all moving parts.

INGENIOUS TRUSS ARRANGEMENT of linking both rear wheel and sidecar wheel movements, absolutely preventing leaning when turning corners or riding on a highly-cambered road. A most valuable feature, and without which any efficiently sprung sidecar outfit must be very unstable.

VALVE LIFTING ARRANGEMENT. The valves are raised by the free movement of kickstarter, and released when the latter has reached the most effective position. Without this system the simultaneous operation of both exhaust lifter and kickstarter requires considerable practice and skill.

INTERCHANGEABLE AND DETACHABLE WHEELS.  
COMBINED CLUTCH AND SHOCK ABSORBER with foot control.

## MODELS H and H/2. DIMENSIONS TABLE.

Overall length 7' 8". Width 5'. Wheel base 5' 2".

Height top of sidecar body 3' 5". Width inside body 1' 8".

Height top of saddle 2' 9". Ground clearance 6".

Gear ratios: Top 4.65; middle 7.77; low 12.97.

Engine, J.A.P.: Bore 85.5 mm.; stroke 85 mm.; capacity 980 cc.  
(Model H).

.. M.A.G.: Bore 82 mm.; stroke 94 mm.; capacity 996 cc.  
(Model H/2).

Tank capacity: Petrol 2½ gallons; oil 6 pints.

Petrol consumption: Average over 50 miles per gallon.

Speed: 5 to 45 miles per hour on top gear.

Chains: Front, 72 pitches ½" pitch x 1" wide, Coventry Silent.

.. Rear, 100 pitches ⅝" pitch x ⅝" wide, Renolds-roller.

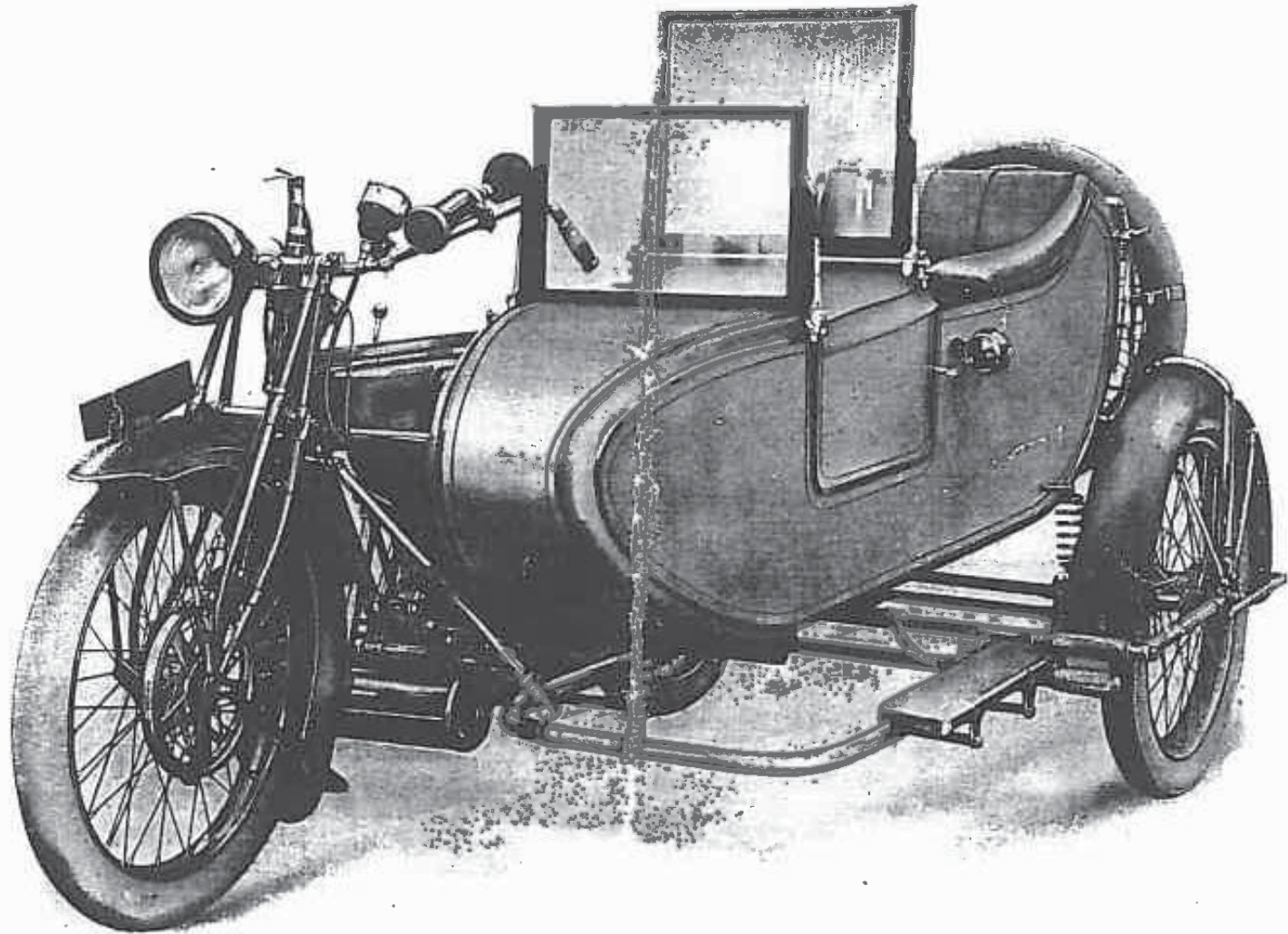
.. Magneto, 57 pitches ½" pitch x ⅜" wide, Renolds-roller.

Springs (range of movement): Rear wheel 3½"; front wheel 2¾".

Packed for export in case containing motorcycle and sidecar chassis, size, 6' x 4' 2" x 1' 11". Case containing sidecar body, size, 5' 4" x 2' 4" x 2' 4".



# Matchless

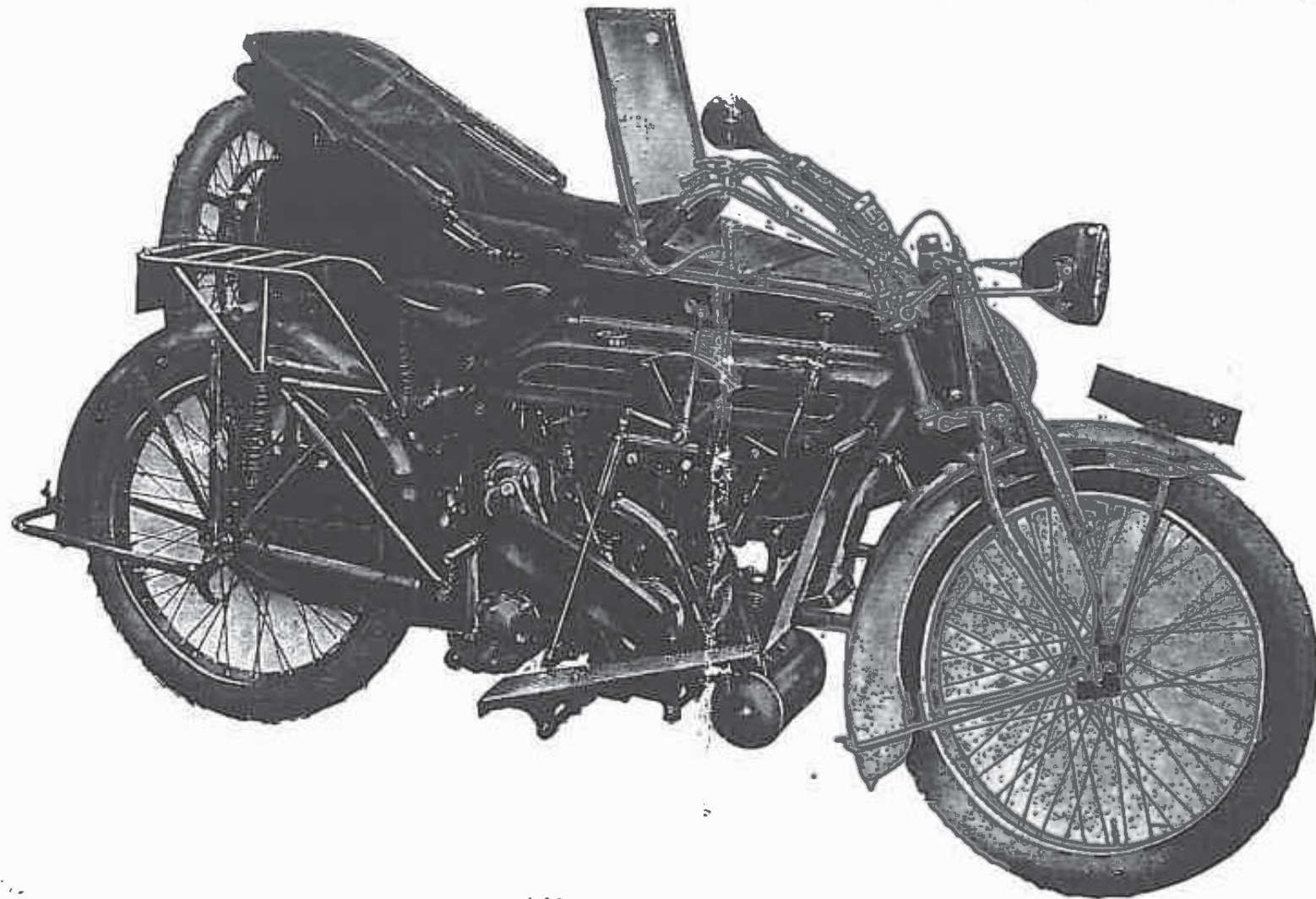


"Matchless," Family Model H or H/2.

*The Perfect Passenger Motorcycle*



# Matchless



"Matchless" Model H/2.

*"The Perfect Passenger Motorcycle"*

# Matchless

## DESCRIPTION—*continued.*

### TANK.

Best quality sheet steel, fitted with baffle plates, petrol capacity 2½ gallons, oil 6 pints.

Semi-automatic, sight feed lubricator on right side, large filler caps for oil and petrol, gauze strainers in tank and petrol tap. Convenient drain tap also fitted.

### FINISH.

Popular "Matchless" grey enamel properly stoved and varnished, usual parts heavily nickel plated.

The entire machine keeps its smart, clean appearance under the worst possible conditions.

### SIDECAR BODY.

The sidecar body fitted is in keeping with the machine, stylish, roomy and comfortable, being built up with metal panels on stout frame, always keeps in shape and retains its smart appearance.

Accommodation for petrol, oil, tools and spares provided in the back and under seat.

A wind screen with lift-up metal front is provided as standard, and fitted in position to protect passenger.

### LUGGAGE CARRIER.

An exceptionally strong luggage carrier is fitted on sprung portion of rear frame, in addition to which a neat folding luggage grid is attached to rear of sidecar body.

Provision is made for carrying spare wheel on sidecar luggage grid.

### POWER UNIT.

As will be seen by the illustration overleaf the "Matchless" power unit is particularly compact and accessible. The well-known J.A.P. engine hardly needs a description, suffice to say, it is the latest type, 85 x 85 mm., 8-h.p. J.A.P., with interchangeable valves, adjustable valve tappets on Model H.

The "Matchless" M.A.G. engine is supplied as standard, latest type overhead inlet valves, adjustable tappets, silent valve gear, 82 x 94 mm. on Model H/2.

### IGNITION.

Ignition is supplied by the latest type of waterproof magneto, or in the case of electrically equipped machines, the Lucas Magdyno (combined magneto and dynamo in one unit), suitably mounted at the rear of engine, and driven by ½" x ⅜" Renolds roller chain, enclosed in dustproof chain case.

*"The Perfect Passenger Motorcycle"*

# Matchless

## MODEL H/2. FULLY EQUIPPED.

This Model represents the most complete machine ever offered to the public, and during the past year has proved to be the most popular machine on the market.

The specification is identical with Model H, described on previous pages, with the exception of the engine, which on the H/2 Model is the "Matchless" M.A.G.

A complete Lucas Magdyno set is fitted, consisting of head lamp, side lamp and tail lamp. The storage accumulator is fitted in compartment under the seat, and switch box conveniently housed in the side of tank.

Electric lighting is rapidly becoming universal in use, and after six years' experience we have every confidence in recommending this system to the man who requires the best.

The speedometer is specially manufactured for the "Matchless," and is driven from the back driving sprocket, and not affected when changing rear wheel.

Price with standard equipment, spare wheel, wind screen, tools, etc.	.. .. .	£205 0 0
Extra for electric lighting	.. .. .	25 0 0
Rear drive speedometer	.. .. .	6 16 6
Lucas Electric horn	.. .. .	2 15 0
Waterproof folding hood	.. .. .	4 12 6
Sidecar step	.. .. .	15 0
Front legshield	.. .. .	17 6
		<hr/>
		£245 16 6
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(Special extra.) New type contracting front  
brake, only advised for exceptionally hilly  
districts .. .. . £2 10 0

## The Perfect Passenger Motorcycle