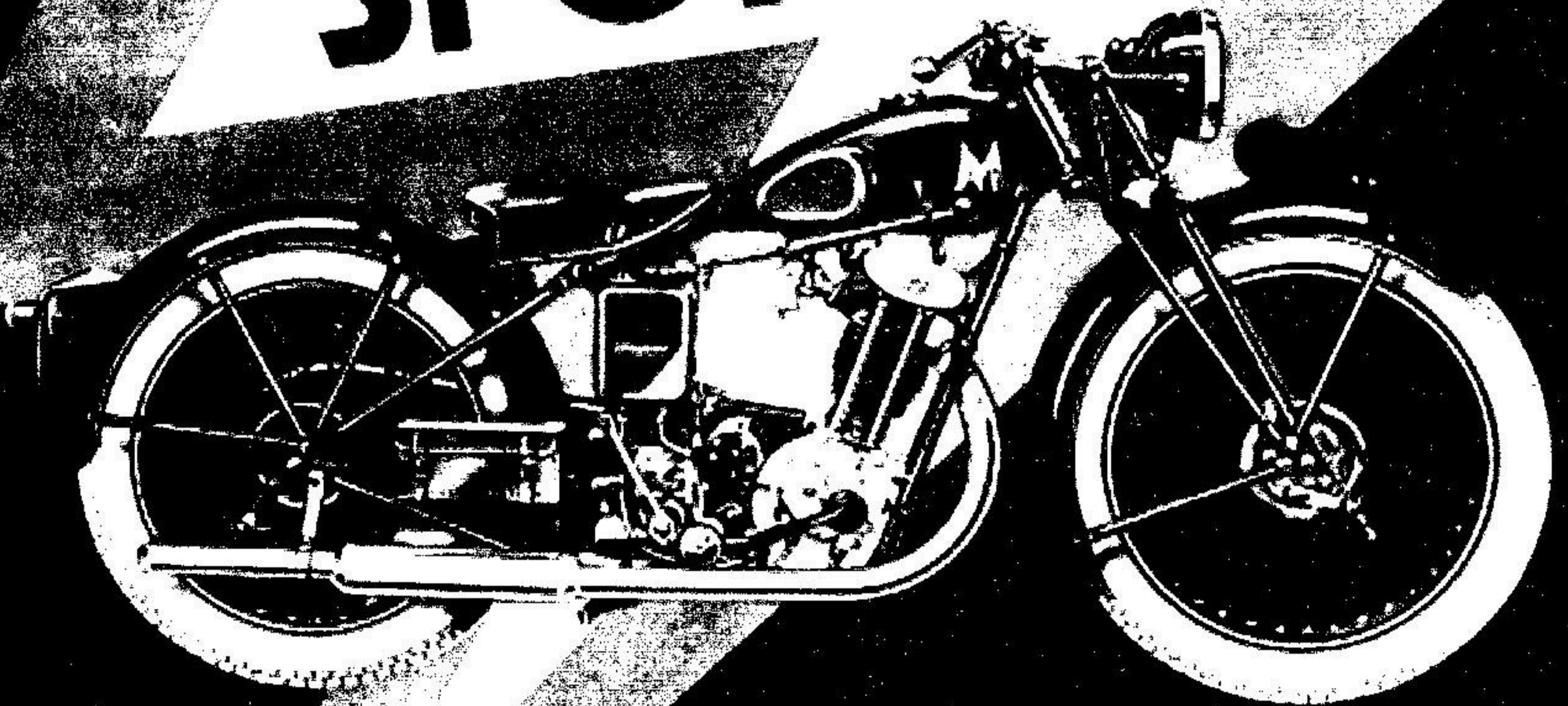


THE NEW MATCHLESS SPORTS "250"



AND THE
MODEL "34/F7"

THE "SPORTS 250" MODEL 34/F.

SPECIFICATION.

ENGINE. High efficiency overhead-valve sports engine with down-draught inlet port, enclosed overhead-valve gear, "Lo-EX" alloy piston, roller big end bearing, double camshaft timing gear running in oilbath, decompressor to ensure easy starting, heavily finned cylinder and cylinder head, and all other latest features to ensure high power output and complete reliability.

Bore 62.5 m.m. Stroke 80 m.m. Capacity 246 c.c. A.C.U. rating 2.46 h.p.

LUBRICATION. "Matchless" dry sump system, oil pressure fed to all working parts, including cylinder wall, big end bearing, mainshaft bearing and camshaft bearing, by duplex horizontal reciprocating rotary plunger pump. Surplus oil is sucked from the crankcase sump and returned to oil tank through a fabric filter which entirely removes all impurities. The filter is readily detachable for cleaning. Cycle parts lubricated by grease gun throughout.

GEARBOX. Three-speed pivot-mounted gearbox with latest type clutch and kickstarter. Hand gear change. Gear ratios 6.3, 10.1, and 19 to 1.

TRANSMISSION. By chain throughout; front chain enclosed in oil-bath chaincase, rear chain protected by adequate guard, with back panel.

CARBURETTER. Two-lever semi-automatic "AMAL" carburetter with horizontal mixing chamber. Twist grip control for throttle.

EXHAUST SYSTEM. Large diameter exhaust pipe with tubular silencer. Low pipe as illustrated, or upswop competition exhaust pipe can be supplied at option without extra charge.

STAND. Spring-up centre prop stand.

TANKS. Bulbous saddle tank for petrol, made of pressed steel and welded throughout; capacity 2 gallons. Separate pressed steel oil tank under saddle; capacity 3 pints.

FRAME. Latest type duplex cradle frame with twin down tubes.

SPRING FORKS. Tubular spring forks of graceful and sturdy design with adjustable shock absorbers.

BRAKES. Internal expanding brakes on both wheels.

HANDLEBARS. 1in. diameter "clean" handlebars, adjustable for angle and with integral control fittings; twist grip control for throttle, level control for ignition and air, clutch lever on left handlebar, front brake lever on right handlebar.

KNEEGRIPS. Large rubber kneegrrips included in specification.

MUDGUARDS. Deep section mudguards providing ample protection and handsome appearance. Rear mudguard detachable for tyre repairs. Chromium-edged mudguards exactly as used on the MATCHLESS "SPORTS 500" can be supplied, if required, at an extra charge of which includes a separate front wheel stand.

SADDLE. "LYCETT" Aero spring seat.

TYRES. 26in. x 3.25in. "FIRESTONE" Cord.

LUGGAGE CARRIER. Detachable luggage carrier can be supplied at an extra charge of

ELECTRICAL EQUIPMENT. "LUCAS" six-volt electric lighting and coil ignition system. Large size dynamo giving 30 watts output rigidly mounted on engine plates and driven direct from crankshaft by roller chain enclosed in main oil-bath chaincase. Accessible adjustment provided for chain tension. Contact breaker built into engine timing case. Lighting equipment consists of 6in. diameter head-lamp with parking light and with dimming switch on handlebar, LUCAS tail lamp mounted on rear number plate. The switch, ammeter and warning light showing when ignition is switched on, are mounted in the back of the head-lamp. Extra large battery carried on special platform beneath saddle.

FINISH. Petrol tank finished in glossy black enamel with gold lines and chromium-plated embossed "M" on each side. Frame, handlebars, etc., stove-enamelled black after special anti-rust process. All the usual bright parts heavily chromium-plated.

MAXIMUM SPEED. 65-70 miles per hour.

TAX. Annual Tax in Great Britain per annum.

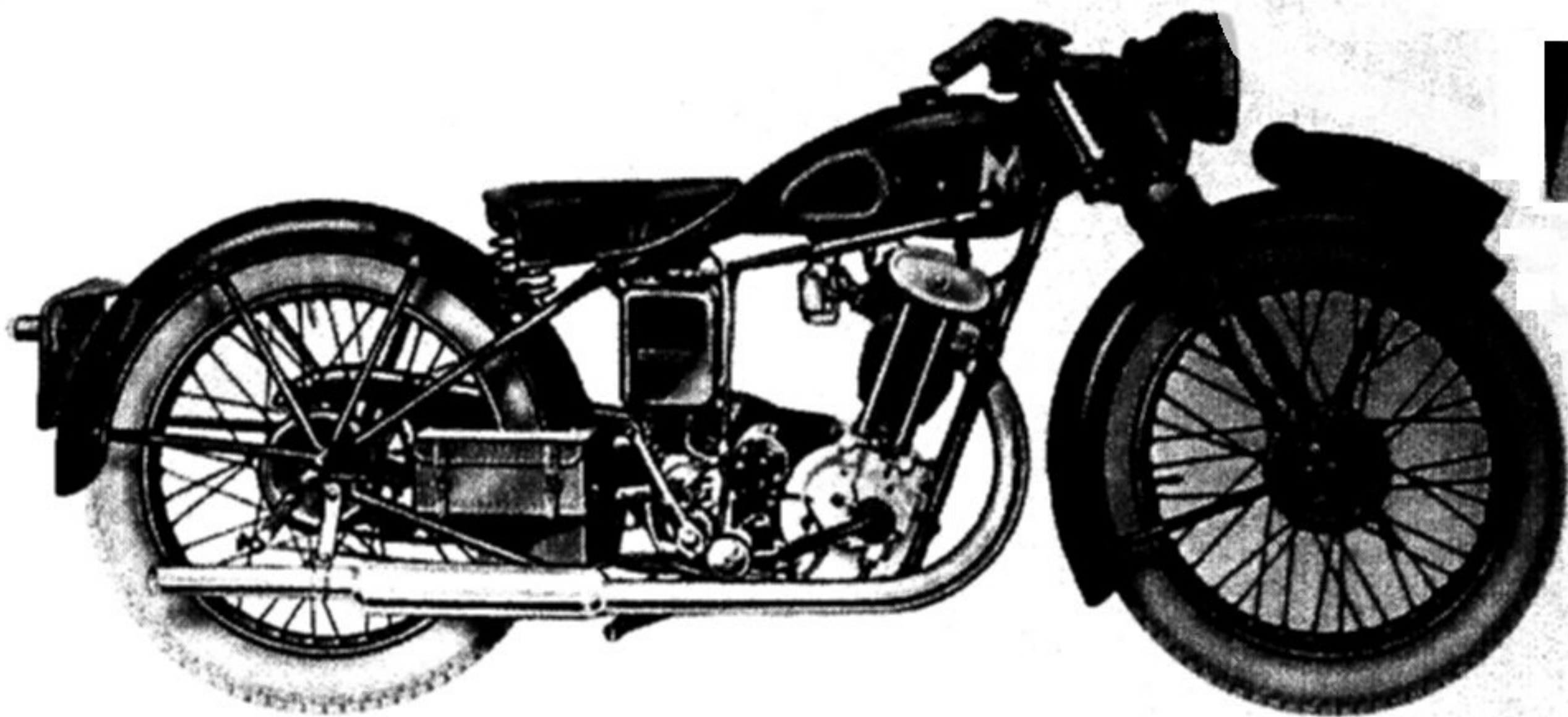
"SPORTS 250" Model 34/F, complete with electric lighting to standard specification as above
Chromium-edged mudguardsextra		
High-frequency electric horn"		
Gearbox-drive speedometer, non-trip"		
ditto trip type"		

PRICE.

CODE WORD.

VAVIP
VAVMA

When ordering this Model please specify clearly whether high or low exhaust pipe is required.



THE MATCHLESS "SPORTS 250"

The amazing success of the Matchless "Sports 500" has led to the introduction of this new Matchless "Sports 250" Model to meet an insistent demand from those riders who require a machine having the characteristics of the "Sports 500" but powered by an engine of under 250 c.c. capacity so that the machine comes in the economical class.

Like its larger prototype, the "Sports 250" has a high power-to-weight ratio giving superb acceleration and high maximum speed, while the sturdy duplex frame with twin down tubes ensures good road holding and safe steering. In spite of the low price at which it is sold the design incorporates every advanced feature of practical benefit to the rider, including an **oil-bath front chaincase** and **full dry sump lubrication** with fabric oil filter and a separate oil tank.

That no item of the specification has been sacrificed is evident from the fact that the machine is fitted with 2 1/2 in. x 3 1/4 in. tyres, while the down-draught inlet port and the up-to-date cylinder head design show that the engine incorporates the very latest practice and can be depended upon to give its high power output for long periods without

distress. Here, then, is the machine for the sportsman who requires a machine in the 250 c.c. class.

It will be remembered that the Matchless "Sports 500" set the seal upon its reputation by its remarkable performance in the International Six Days' Trial, when a team of three "Sports 500" machines was entered and all three machines finished the trial without the loss of a single mark, gaining one of the only two Manufacturers' Team Prizes awarded out of 21 Manufacturers' teams competing. "Matchless" was the only make in the International Six Days' Trials with more than one entry to obtain 100 per cent. Gold Medals. Four "Matchless" started; four "Matchless" completed the Trial without the loss of a single mark; four Gold Medals were awarded to "Matchless" Motorcycles and the special Manufacturers' Team Prize.

This new "Sports 250" has the same sturdiness and reliability. It is a machine to buy and a machine to keep. A glance through the specification on the opposite page will well repay the reader, and the price complete with electric lighting is only