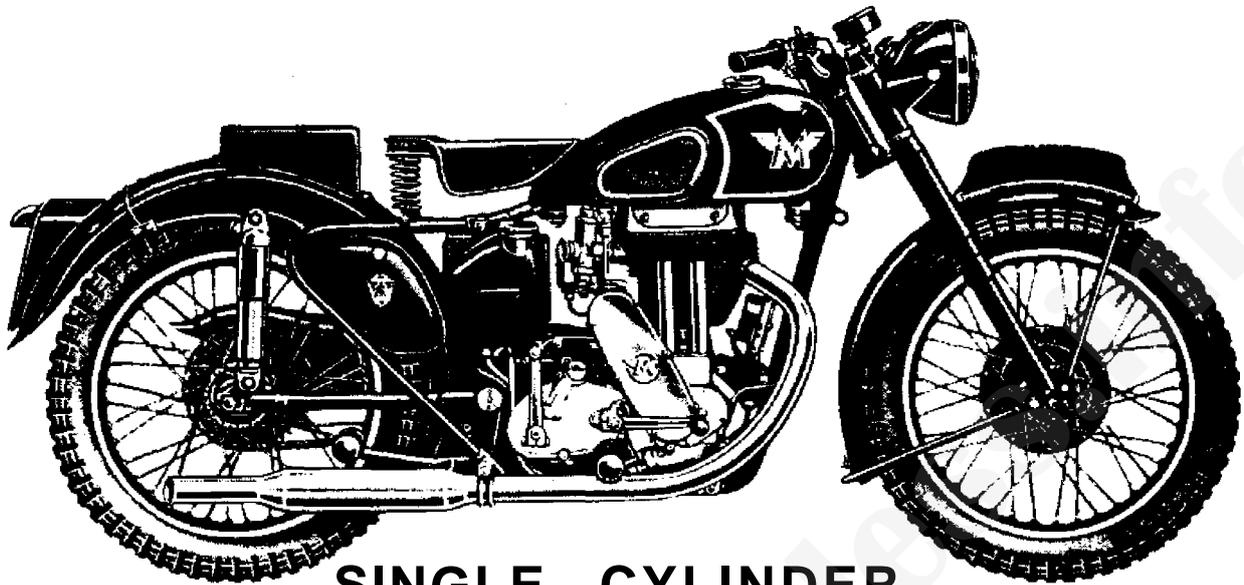


# MATCHLESS

# AJS



## SINGLE CYLINDER THE WORLD'S BEST MOTORCYCLE

FOR CROSS COUNTRY RACING AND SPORT

### SPECIFICATION MATCHLESS SINGLE & G80S

**ENGINE.** Single Port O.H.V. All moving parts totally enclosed and pressure lubricated. Three row caged roller big end bearing. Duplex hairpin valve springs, Stellite tipped valves. wire-wound piston. Amal carburettor. Lucas magneto.

G80S. 82.5 m.m. x 93 m.m. Capacity 498 c.c.

**LUBRICATION.** Full dry sump with separate oil tank. Large capacity rotary reciprocating oil pump.

**GEAR BOX.** 4-speed heavyweight, Positive stop foot gear change. Hand-

operated clutch.

#### FRAME.

Duplex cradle with Teledraulic rear suspension. Pivot bearing automatically lubricated by integral chamber in Light Alloy bridge casting. Twin oil-damped spring units rubber bushed. Integral pillion footrest lugs. Centre, prop and tubular front stands.

#### WHEELS.

G80S. 3.25" x 19" Front and 3.50" x 19" Rear.

Large diameter internal expanding brakes, chromidium drums, caper roller bearings.

**FORKS.** Teledraulic, oil-damped, self-lubricating.

**TANKS.** 3 gallon Petrol. 4 pints Oil. Welded pressed steel. Detachable fabric oil Filter.

**ELECTRICAL EQUIPMENT.** Chain-driven generator, 7½" headlamp, car type rear light, voltage control, electric horn, handlebar dipper switch and horn button.

**FINISH.** All enamelled parts three thicknesses black stoved-enamel on Bonderised finish. All bright parts heavily chromium plated.

### SPECIFICATION MATCHLESS TWIN

**ENGINE.** 498 c.c. Bore 66 m.m. Stroke 72.8 m.m. Vertical Twin. Separate cylinders and Light Alloy cylinder heads with shrunk-in valve seats, integral rocker posts and eccentric rocker spindle valve adjustment. Duralumin pushrods with hardened end caps, Forged Light Alloy connecting rods, low-clearance wire-wound pistons, twin-gear type oil pumps, 26 gallons per hour oil circulation, internal oil feeds to all moving parts, three-bearing heavyweight crankshaft, roller outer main bearings, plain centre bearing and Vandervell big end bearings.

**GEAR BOX.** 4-speed heavyweight, multi-plate clutch and enclosed positive stop gear control for foot operation.

**FRAME.** Duplex cradle with pivot type oil-damped Teledraulic rear

springing providing 3" total movement. Integral oil chamber in Light Alloy casting.

**WHEELS AND TYRES.** 3.25" front and 3.50" rear on 19" rims. Taper roller wheel bearings with extra large diameter rear wheel spindle.

**BRAKES.** 7½" Internal expanding foot-operated rear, hand-operated front.

**FORKS.** Telescopic oil-damped Teledraulic with integral headlamp brackets.

**ELECTRICAL EQUIPMENT.** Gear-driven magneto and dynamo. 7½" fluted domed glass headlamp, Car type rear light. Electric horn. Voltage control unit.

**CARBURETTOR.** Single semi-automatic needle type Amal.

**TANKS.** Petrol :—Capacity 3 gallons. Oil :—Capacity 4 pints. Pressed steel welded construction. Quick action filler caps. Detachable fabric oil filter.

**STANDS.** Forged steel low lift spring-up centre stand, foot-operated prop stand and tubular front.

**TRANSMISSION.** Self-lubricating engine shaft shock absorber, primary chain enclosed in oil bath case. Rear protected by efficient deep section guard. Cam type chain adjuster.

**FINISH.** Three thicknesses of stoved black enamel after Bonderising. All bright parts heavily chromium plated. Tank, chromium plated with Aldwych red panel and chrome-plated winged 'M.'

## TELEDRAULIC REAR SUSPENSION