



New Lightweight and Auto-cycle

A.B.J. machines with 98-c.c. Villiers engines

A NEW auto-cycle and a lightweight, both powered by 98-c.c. Villiers two-stroke engines, are announced by A. B. Jackson (Cycles) Ltd., 109-111 Pope Street, Birmingham, 1.

The name adopted for both models is A.B.J., the initials of A. B. Jackson, chairman and managing director of the manufacturing company, who was one of the pioneers of auto-cycling and was for many years managing director of the Raynal Manufacturing Co.

Frames of both machines are basically similar, the footrests of the motor cycle being mounted in the lug which houses the bearings and crank spindles of the auto-cycle. The frame itself is a tubular cradle type, built with malleable iron lugs and brazed joints.

A Villiers 2F single-speed engine provides the power for the autocycle frame and a Villiers 1F two-speed unit for the motor cycle.

Spring-operated telescopic forks, made by the company, are common in both models. These have a 4-in movement in compression and 1-in in rebound. Separating the two springs in each leg are steel cones acting on split bronze bushes. Excessive movement causes the bushes to

expand slightly and bear on the inside of the tube to give a damping action. A malleable iron crown holds the static tubes.

Wide mudguards are fitted and good protection is given by a deep valance. The rear mudguard tail is hinged to facilitate rear wheel removal.

Internal expanding brakes, cable-operated by hand on the auto-cycle, and foot-operated to the rear brake of the motor cycle, are standard. Dunlop auto-cycle rims have 26×2.25in tyres.

A large spring seat saddle is fitted. Handlebars are adjustable and carry a twist grip throttle control. A stout luggage carrier is standard equipment as are guards to all chains and a rear stand.

Normal finish is black, but a range of colours will be available.

Petrol tanks have a capacity of 1½ gallons and are fitted with a filter and a two-way tap which gives a reserve of a quarter of a gallon. Petroil lubrication is adopted.

Wheelbase is 49½in, and weight 140 lb.

The basic price of these machines in England is £47 10s. for the auto-cycle and £55 for the motor-cycle. Speedometers are extra.