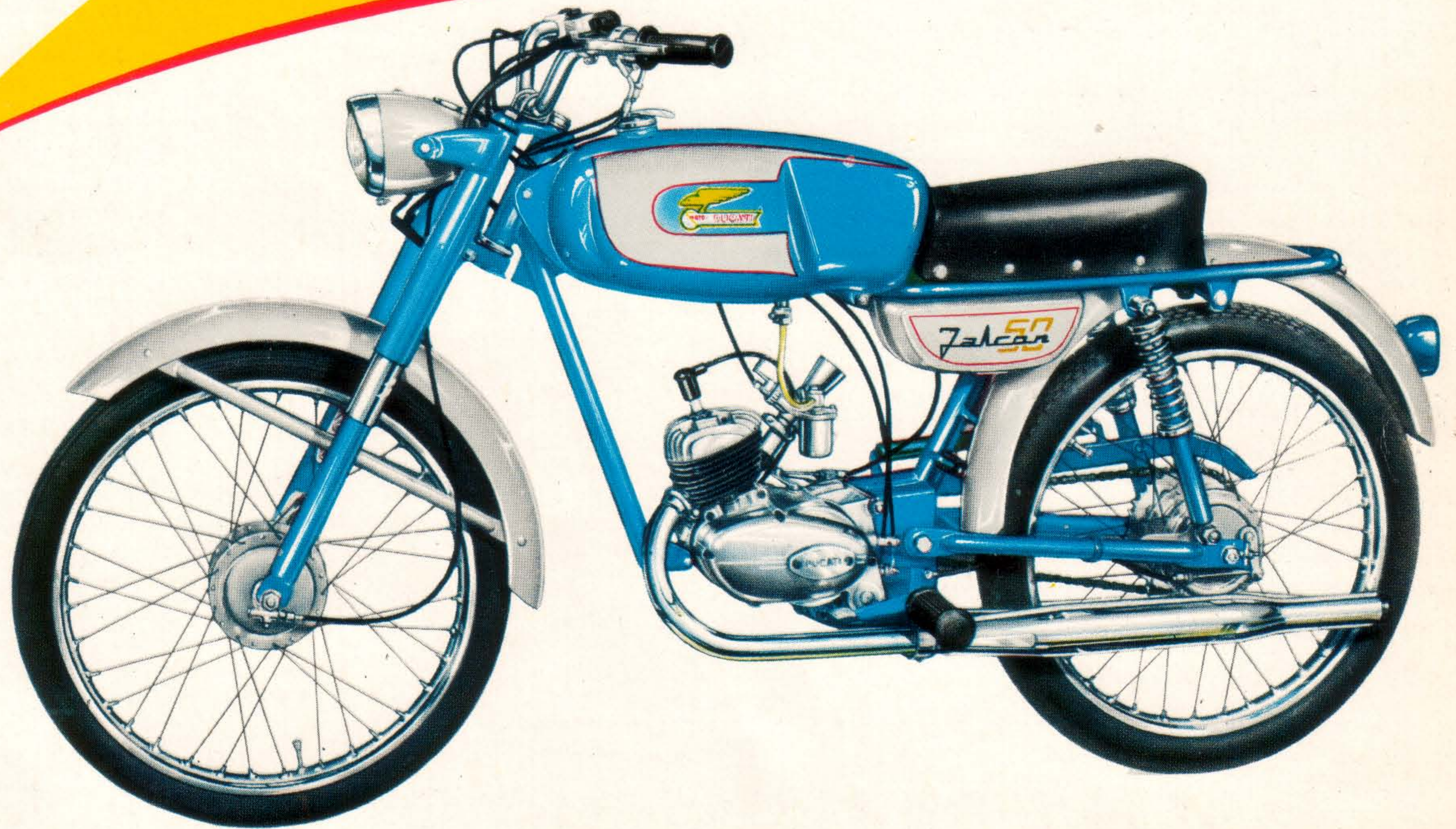
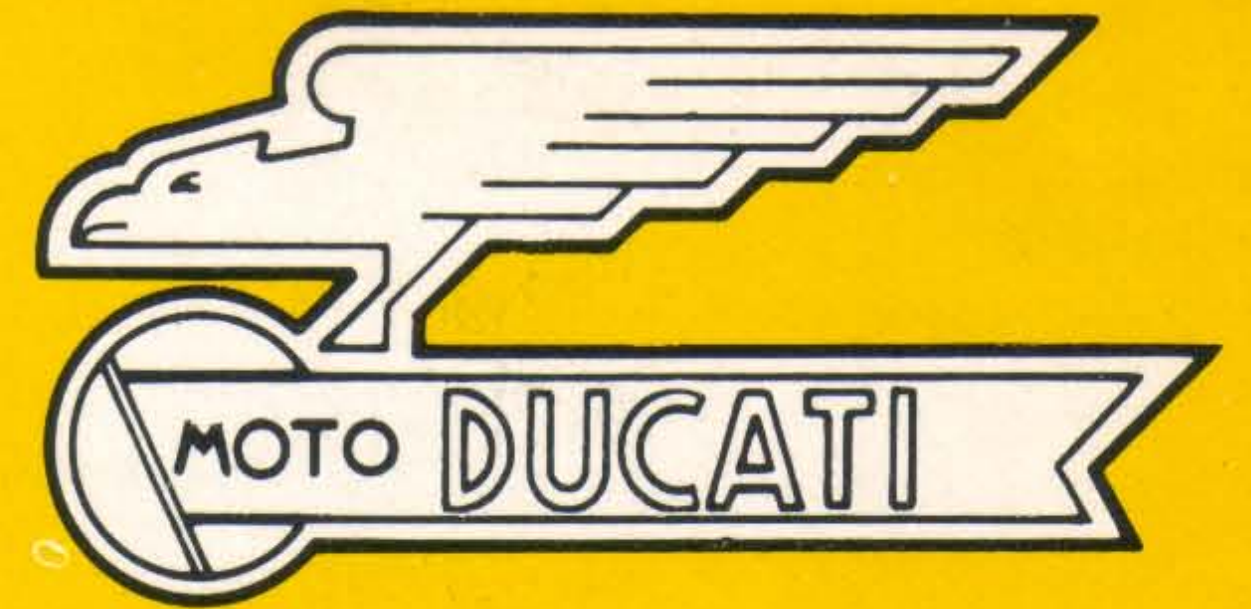


DUCATI

FALCON

50



Specifications: 50 cc. - 2 stroke - Timing by crossed lights - Fuel consumption :
1 gall per 170 M - Maximum speed 50 MPH - 3 speed gearbox.

ENGINE

2-stroke

Single-cylinder, inclined 25° made of special nickel-cast-iron, deeply finned

Light alloy head, with hemispherical combustion chamber, lightly finned

Bore mm. 38 - Stroke mm. 42 - Displacement cc. 47.633

Compression ratio 1 : 9.5

Ignition advance 15° to 18°

Maximum output : 4.2 HP. at 8,600 r.p.m.

Carburettor Dell'Orto UA 15 S with air intake bell shaped

Air cooling

5% mixture lubrication for the engine ; in oil-bath for the gear-box and the clutch

Ignition by 6 V - 18 W magnet flywheel

Sparking Plug Marelli CW 260 N or similar type

Lighting by magnet flywheel, 2 light front headlamp, tail light, horn

Speedometer inserted in the front headlamp

Transmission : from engine to gearbox, by gears : from gearbox to wheel, by chain

Gearbox in unit with the engine ; 3 speeds, gears in constant mesh (put oil 300 gr. = $\frac{1}{3}$ of a quart, in summer 40 and in winter 20)

Movable operating handgrip in unit with the clutch operating one

Kick-starter

Clutch : multi-plate discs running in oil bath

FRAME

In highly resistant steel tubing, built on very smart lines

Front suspension : telescopic fork with springs in oil bath

Rear suspension : with swinging fork and uncovered spring shock absorbers

Large seat - Voluminous tool-box

Spoke-wheels, chromium steel rims with normal profile 1.35" x 18"

Expanding brakes : front, hand operated ; rear, foot brake

Drums diameter : 105 mm.

Tyres : front, 2 $\frac{1}{4}$ " x 18" ribbed : 2 $\frac{1}{4}$ " x 18" with block tread, the rear one.

Inflating pressure : front wheel, 1.75 kg/cm² rear wheel, 2.25 Kg/cm²

DIMENSIONS

Wheel base Mt. 1.160

Maximum length Mt. 1.770

Maximum height Mt. 0.930

Maximum width Mt. 0.660

Height at saddle Mt. 0.760

Weight (unladen) Kg. 50.000 = 110 lbs

Oil sump holds approx. Kg. 0.250 = over $\frac{1}{2}$ pound

5% mixture tank holds lt. 12.000 = 3 gallons, Mixture 1 to 20 - approx.
 $\frac{1}{2}$ pint x 1 gall. gasoline = 5% oil to gasoline and 6% for the first 500 miles

PERFORMANCE

Maximum speed about Km/h 80.00 = 50 MPH

Fuel consumption lt. 2 per 100 Kms. = approx. 170 MPG

REDUCTION RATIO between engine and gear mainshaft-gearbox ; 3.666 : 1

Ratio between the exchange gears : 1st. speed = 1 : 2.61

2nd. speed = 1 : 1.61

3rd. speed = 1 : 1.14

Ratio between gearbox and rear wheel : 2.786 : 1

BERLINER

MOTOR CORPORATION

Railroad Street and Plant Road Hasbrouch Heights New Jersey