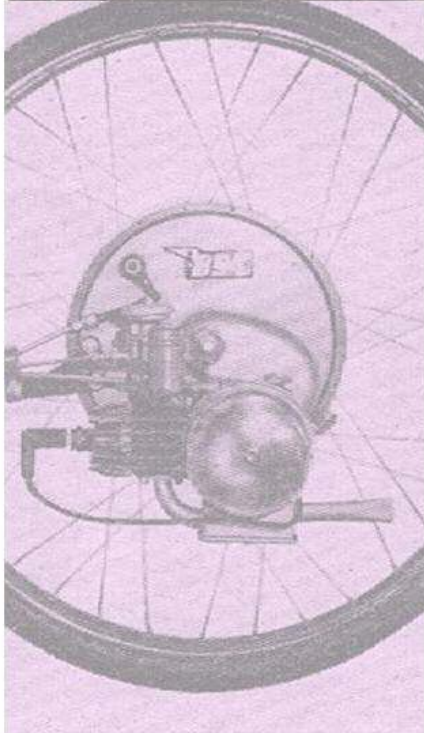


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# H.M.W. SUPERSPORT ENGINE

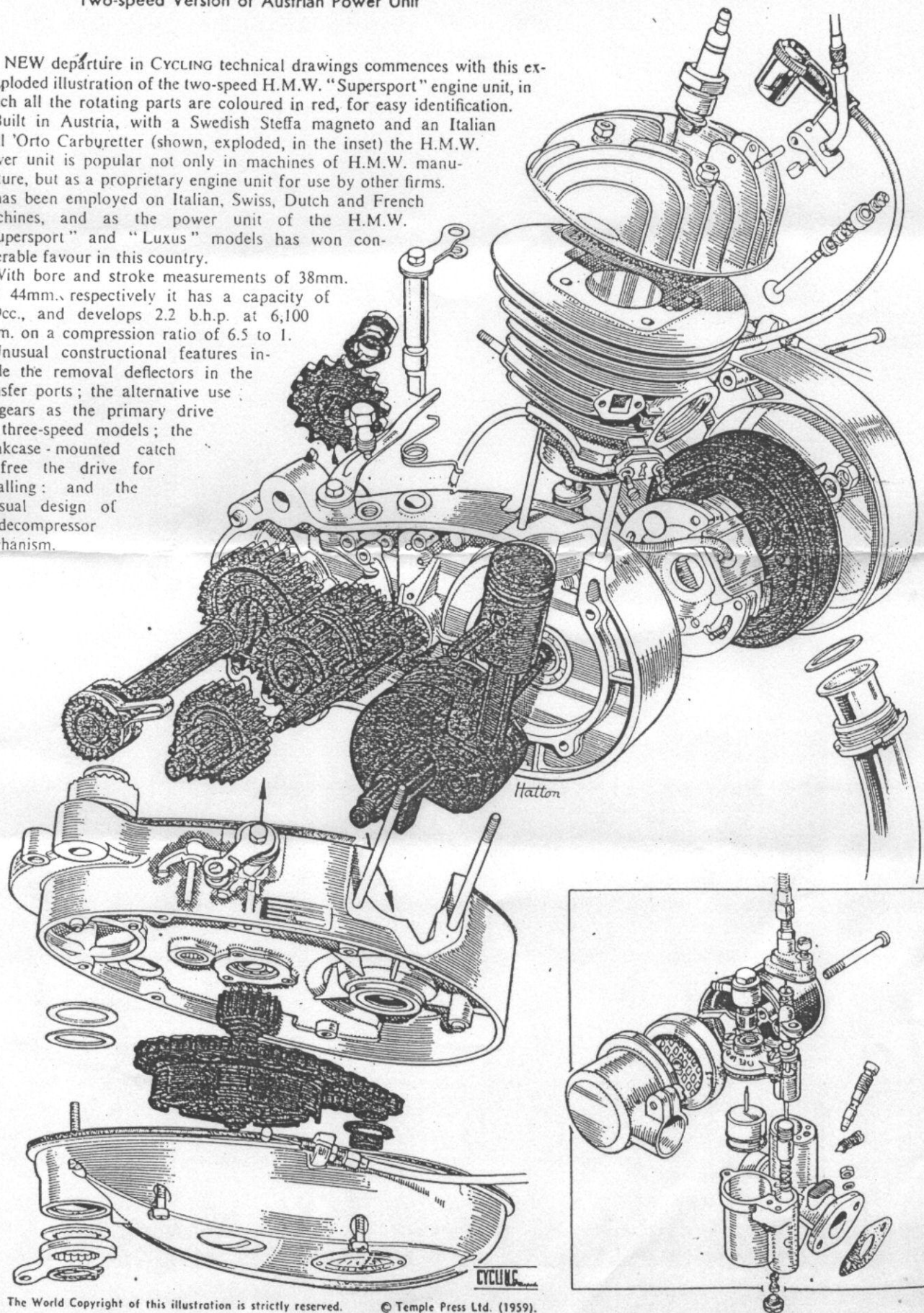
Two-speed Version of Austrian Power Unit

A NEW departure in CYCLING technical drawings commences with this exploded illustration of the two-speed H.M.W. "Supersport" engine unit, in which all the rotating parts are coloured in red, for easy identification.

Built in Austria, with a Swedish Steffa magneto and an Italian Dell'Orto Carburettor (shown, exploded, in the inset) the H.M.W. power unit is popular not only in machines of H.M.W. manufacture, but as a proprietary engine unit for use by other firms. It has been employed on Italian, Swiss, Dutch and French machines, and as the power unit of the H.M.W. "Supersport" and "Luxus" models has won considerable favour in this country.

With bore and stroke measurements of 38mm. and 44mm., respectively it has a capacity of 49.9cc., and develops 2.2 b.h.p. at 6,100 r.p.m. on a compression ratio of 6.5 to 1.

Unusual constructional features include the removal deflectors in the transfer ports; the alternative use of gears as the primary drive on three-speed models; the crankcase-mounted catch to free the drive for pedalling; and the unusual design of the decompressor mechanism.



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