

598c.c. Overhead-valve Model 100 Panther

ALAN BAKER Discusses a Popular Big Single with FRANK LEACH, A.M.I.Mech.E., A.M.I.A.E., Panther's Technical Director

THE engine of the current Model 100 Panther is basically similar to that originally designed about 25 years ago. Yet it has a worthy place among modern engines, and it is deservedly regarded as one of the finest in the medium-capacity class for sidecar work.

To tell me the inside story of the engine, who could be better qualified than Frank Leach, technical director of the Pielon and Moore concern? Mr. Leach joined Panthers in 1923 as chief tester, and graduated, by way of the experimental department, to the design side. He was put in charge of design in 1927 and remained in that post until 1933, when he left to start his own motor cycle retail and repair business in Leeds. He rejoined the firm last year as a member of the board, with responsibility for design and development.

Well Established Layout

Before 1924, engines produced by Pielon and Moore had all been of the side-valve type, but for that year new ground was broken by the introduction of a 499 c.c. overhead-valve unit designed by Granville Bradshaw. From 1902, a feature of P. and M. machines had been the dual use of the engine as a power unit and also to replace the more conventional frame front down tube. The layout saved a certain amount of weight and provided a very strong, torsionally rigid structure and, since it proved satisfactory, it was retained for the 1924 engine.

From the 499 c.c. o.h.v. unit was developed a 598 c.c. engine, which was designed by Frank Leach, and first appeared in 1928. A direct descendant of that 1928 engine, today's Model 100 embodies many of the features of both the 1928 engine and the earlier five-hundred. Improvements have taken place as technical knowledge has advanced (as, for example, the total enclosure and positive lubrication of the valve gear), and there have been other changes dictated by the demand for increased performance. Basically, however, the Model 100 Panther remains what it was originally intended to be, a robust, durable engine with no frills and plenty of punch at low and medium r.p.m.

Low-speed power is, in fact, one of the major characteristics on which the success of the engine has been achieved; peak power occurs at between

3,500 and 3,600 r.p.m. and—considerably more important—peak torque occurs at about 3,500. The torque curve is relatively flat below this speed.

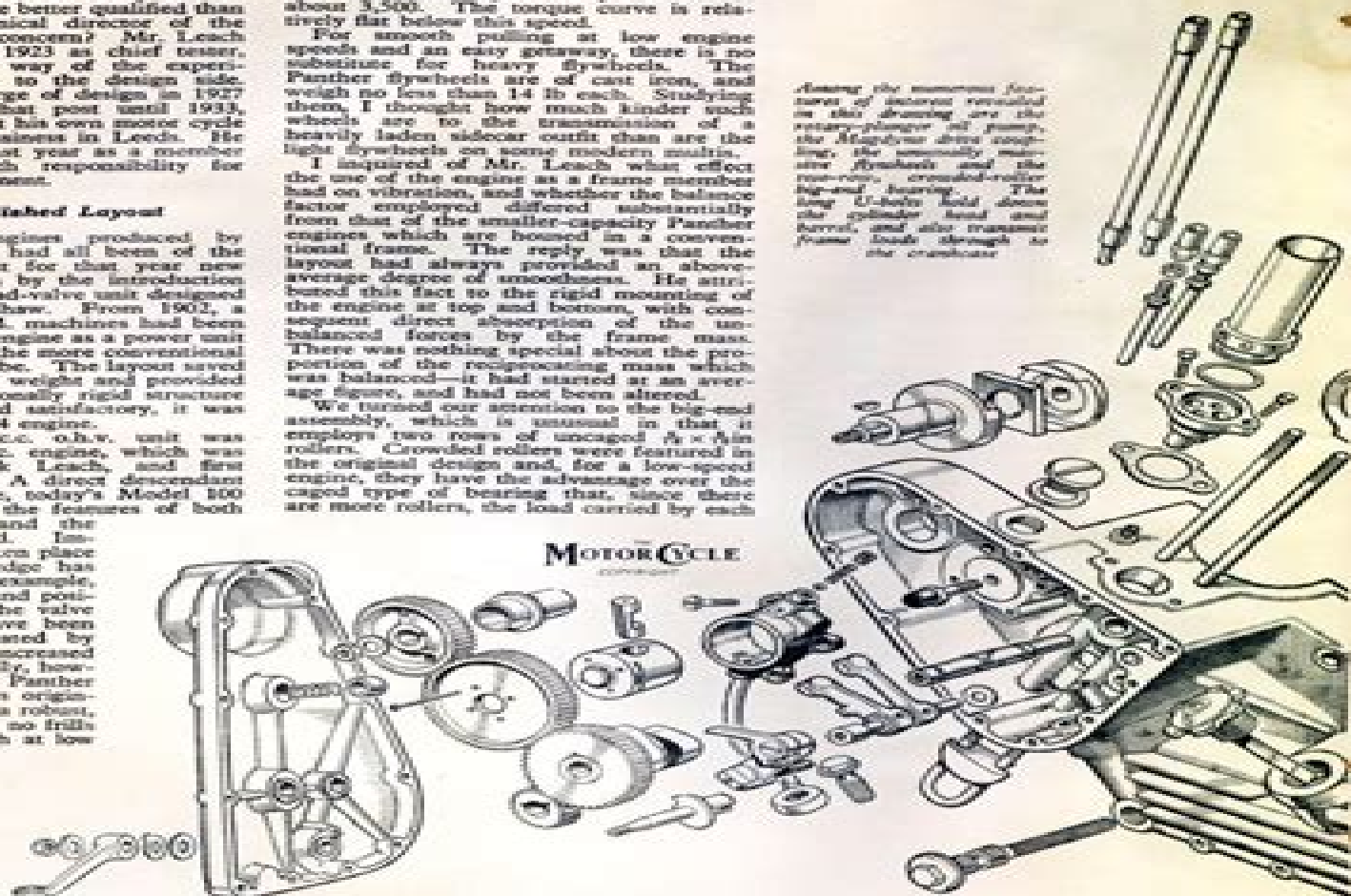
For smooth pulling at low engine speeds and an easy getaway, there is no substitute for heavy flywheels. The Panther flywheels are of cast iron, and weigh no less than 14 lb. each. Studying them, I thought how much kinder such wheels are to the transmission of a heavily laden sidecar outfit than are the light flywheels on some modern multis.

I inquired of Mr. Leach what effect the use of the engine as a frame member had on vibration, and whether the balance factor employed differed substantially from that of the smaller-capacity Panther engines which are housed in a conventional frame. The reply was that the layout had always provided an above-average degree of smoothness. He attributed this fact to the rigid mounting of the engine at top and bottom, with consequent direct absorption of the unbalanced forces by the frame mass.

There was nothing special about the proportion of the reciprocating mass which was balanced—it had started at an average figure, and had not been altered.

We turned our attention to the big-end assembly, which is unusual in that it employs two rows of uncaged $\frac{5}{8} \times \frac{1}{2}$ in. rollers. Crowded rollers were featured in the original design and, for a low-speed engine, they have the advantage over the caged type of bearing that, since there are more rollers, the load carried by each

Among the numerous features of interest revealed in this drawing are the rotary-plunger oil pump, the Magneto drive coupling, the unusually massive flywheels and the two-row, crowded-roller big-end bearing. The long U-bolts hold down the cylinder head and barrel, and also transmit frame loads through to the crankcase.



Panther M120 Engine Diagram

R Sanford



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