



1965 DMW Typhoon Sold...

equipped with a special alpha bottom end assembly and custom five-speed gearbox on the Mk2.

Spurred on by Metal Profile's enthusiastic boss, Harold Knock, DMW created its 500 racer by the simple expedient of joining two Hornet engines together, an arrangement that afforded the prospect of 60-70bhp at a time when a good Manx Norton managed around 52 horsepower. A pair of Alpha crankcase assemblies was used, sandwiching a special straight-cut primary transmission. The latter consisted of a jackshaft in an oil bath, from which drive was taken to a secondary transmission and thence to the Albion five-speed gearbox via a Royal Enfield Interceptor clutch. Ignition contact breakers were mounted at one end of the jackshaft but were later moved to the crankshaft end.

Interposing an extra shaft between the crank and gearbox meant that the Typhoon engine had to run backwards, just like Helmut Fath's URS and the current Yamaha YZF-M1 MotoGP bike. Villiers Starmaker cylinder barrels and 'heads' were used for the first of the two prototypes completed - the machine offered here - while the other (currently owned by the National Motorcycle Museum) used Royal Enfield GP5 top-ends and different bore/stroke dimensions. The Typhoon motor went into a lengthened, Hornet-type chassis equipped with MP centre-spring forks, Oldani front brake and DMW rear hub.

In September 1965, the first (Starmaker-based) prototype was track tested by Jack Findlay and Bill Smith at Oulton Park, where its shortcomings became all too apparent. The worst of these was severe vibration, bad enough to affect the riders' vision, and the second was weak brakes. Unable to find a cure for the vibration, Knock abandoned the Typhoon project. Then, in 1967, sidecar racer Peter Gerrish arranged to borrow the Typhoon engine, which was installed in a kneeler outfit. After disappointing outings at Castle Combe and Llandow, the engine was returned to DMW.

When the DMW factory closed in the early 1970s the remains of the first Typhoon prototype were disposed off and disappeared, resurfacing in 1985 when they were purchased from a Hunstanton hotelier by the current vendor, who took on the challenge of making it race-worthy. The brakes were missing so Yamaha TD2 items were used, providing much improved stopping power, and Amal Concentric Mk2 carburettors were fitted to the engine, for which ace two-stroke tuner Brian Woolley designed a new exhaust system based on the Hornet pipe. Curing the endemic vibration proved more difficult; the first move was to realign the crankpins at 360 degrees so that both cylinders fired together, which improved matters but made the machine all but impossible to push-start without assistance. Nevertheless, it was raced in this form by the vendor, Andy Russell and Pete Crew, albeit always handicapped by having to start from the back of the grid. Another who rode the '360-degree' Typhoon was TT-winner Alex George, who worked his way up to 11th place in a race at Snetterton in 1991 before being sidelined with gearbox problems.

The next phase of development saw both 90-degree and 45-degree crankshaft phasing tried, the latter proving to be the answer to the continuing vibration problem. Although the engine was now reliable the Albion gearbox remained

problematic, its inability to cope with the power - now up to 70bhp as a result of careful re-porting - leading to frequent

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