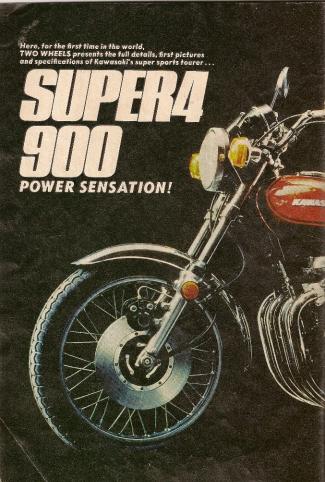
NOVEMBER, 1972

COLOR EXCLUSIVE

MAMASAM SUPERA

10 SUPERBIKES ON THE DYNO







climbs smoothly from 2000 rpm to its 82 horsepower at 8500 rpm maximum an honest 125 mph.

The engine is at its torquiest (54.5 (18)) a 7000 rpm. Although this is a lesser figure than that claimed by the Mach IV (97 ft/slb.), it is considerably more than the Honda Four (44 ft/slb) and spread over a wide usable band — at 2500 rpm the Super4 has 36 ft/slb on tap.

Just what this means in terms of tractable road performance is very strongly demonstrated by the factory's claim that the Super4 pulls cleanly in top gear from only eight mph—an innovation; made even more surprising considering it comes from Kawasak.

Oh sure, it's a blaster, too turned out by a crowd who are already acknowledged as king of the tarburners— but here is a dramatic step which broadens the high performance molorcycle's appeal on the road,

The first drawings of the Super4 dated back to 1967, we were told by Mr T. Yamada, Kawasaki's motorcycle division manager.

The following year a wooden mock up was completed — at which stage the Super4 suffered the blow that nearly killed it and caused Kawasski to hang back.





TWO WHEELS, November, 1972

The blow was called the CB750. Honda pulled the wraps off the then revolutionary sportster at the '68 Tokyo Motor Show and declared it ready for delivery.

It was, in many ways that count, quite different from Kawasaki's pet project, but similar enough for Kawasaki to pull out for a reevaluation - it was still a question of one four-stroke, four-eylinder aceing another, however you looked ut it.

But the way the hungry world market gobbled up the CB750 convinced the two-stroke specialists the market for an alternative 4/4 (cylinders and strokes) was still attractive.

The first dobe powerplant of Oce in four-cylinder, four-stroke dosign is of compact design, sufficiently so to allow the Super4 an overall width of only 31.5 in (the Mach IV is 33.5 in, wide and the CB750 measures 34.5 in.).

The cylinder design is 66 mm square — a desirable characteristic for smooth, high rows — and needle bearings are used on both the big ends and cranteshalt mains.

All parts can be removed (except the crankshaft itself and parts of the five-speed (ransmission) with the engine in the frame. Periodic adjustment of valve clearance shims in the dohe can be done with the camshafts still in the cylinder head.

And there's a new constant flow fubrication system for the chain, too. Kawasaki have equipped the Super4 with an automatic pressurised system pumping oil at a rate syncronized to the bike's speed.

Overall powerplant design shows noticeable leaning to antipollution features, and the Superhas obviously been designed to meet possible future legislation in this area. The motor uses sintered valve seats and Kawasaki claim it can be run on lead free petrol without loss of performance. This means that the motor (and valves particularly) will operate without the pollution producing lubricants which are found added to perrol but which will have to go it stringent anti-poliution measures become law.

A Positive Crankcase Ventilation system (PCV) recirculates blow by gas from the wet-sumped crankcase, and the system is said to offer a dramatic reduction in hydro-earbon emissions.

The Super4 five-speed constant mesh gearbox has obviously been neatly matched to the motor's wide torque spread to stress the big-boomer's touring potential. At say, 70 mph in top (fifth) you're cruising at comfortable speed and engine speed is 4500 ppm.

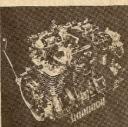
(Continued on page 61)



With the new motor comes a new style and new treatment of the tank, side covers (no oil tank, Super4 is wet-sumped) and rear zuard.



With double over head camshofts and squared bove and strohe, Kawasaki's new four puts the lorque where you need it - right across the rev range. Bike has both electric and kick start.



Cut-amoy shows central chain drive to cams. Crank mains and big ends are all needle bearings. Motor is only 31.5 in wide the narrowest four yell.

## SUPER4 900 Continued from page 9

The Super4 not only goes it stops. disc/drum combination (same as the Mach IV) hauls the bike to a standstill from 23 mph (50 kph) in 36 ft. An interesting figure this one. Our test Mach IV (May issue) stopped comfortably in less than factory figures but we've tried private bikes since and experienced a variation of 10 ft! Obviously, one of the critical areas of the Super 4 is going to be the way it's tyred!

The factory reportedly experimented with 10 variations of frame design for the final product, and prototype test riders have said the bike handles low-speed manocuvres easily and offers stability in

both heavy traffic and touring conditions

The Super4 has an all-new instrument panel, too The easily-read tacho/speedo dials are now separated by an instrument panel, on which the key keeps company with neutral, flasher, high beam and oil pressure warning lights.

"The Kawasaki Super4 is our expression of confidence in the future of high-performance motorcycles," Mr Yamada said.

PERFORMANCE

Width, overall

Dry weight

Height, overall Wheelbase

Ground clearance

Fuel tank canacity

You know, we like that phrase, and if the Super4 is as good as the Mach IV it could be a new high in the art of building bikes and in fulfilling this aim Kawasaki have created a whole new market. The Super Sports Tourcr has arrived!

## KAWASAKI 900 TECHNICAL DETAILS

Maximum horsepower	02 h-10500
Maximum torque	54 24 H (2000
naximum torque	54.3 Tt-16/7000 rpm
Muximum speed	125 mph
Acceleration	
Fuel consumption	48 mpg @ 70 mph
Type	+-cycle, 4-cylinder, in-line,
transversely	mounted, air-cooled, doho
Displacement	903 cc (55.1 cu in.)
Common stroke	7.6 x 2.6 in. (66 x 66 mm)
Compression ratio	8.5 to 1
Ignition system	battery and coil
Starting system	. electric starter and kick
TRANSMISSION	wat sump
Type	onstant mesh, return shift
Clutch	wet, multi-disc
Primary reduction ratio	1:73
1st	3.17
2nd	2.19
3rd	1.67
41h	1.38
5th	1.22
Final reduction ratio	2.33 (35/15)
Overall drive ratio	4.92
Type	tubular, double cradle
Suspension front	telescopic fork
Suspension rear	swing arm
Tyre size front	
rear	
Castor	
Truit	
BRAKES	
Front dis	broke, disc dia 11.65 in.
	1906 mmt ringle
Rear 7.9	x 1.4 in, (200 x 35 mm)
DIMENSIONS	
Length, overall	86.8 in. (2205 mm)



## **Fastest bikes** on Baja.

Last November, the National Off-Road Racing Association (NORRA) staged its fifth annual Mexican 1000 run down the rugged Baja California peninsula, Both of the 71 motorcycle

class winners beat their competition with the same spark plug brand.

In the 125 cc and under bikes, the team of Terry Clark and Dean Goldsmith took the victory on the flying Harley-Davidson pictured above Their winning Harley was fitted with Gold

Palladium spark plugs made by Champion to Harley-Davidson specifications. And in the over 125cc machines, Malcolm Smith. and Gunnar Nillson teamed on a Husqvarna to

capture both class and 1st motorcycle honours: fired by Champion Gold Palladium spark plugs. The same plug design that sparked this year's World 250cc, 500cc and Trans-AMA Moto-Cross Champions. Add Champion Gold Palladium performance to your bike

You get three times the plug life from Champion "Golds."



. 31.5 in. (800 mm) 45.3 in. (1150 mm)

58.7 in. (1490 mm)

6.3 in. (160 mm)

506 lbs (230 kg)