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THUNDER STAR

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Star Twin Thunder Star 1200 TDI

Supported by:



The first motorcycle on diesel with unprecedented performances in the field of speed, power and fuel economy.

THUNDER STAR: decently Dutch

A new motorcycle with performances comparable with high class motorcycles on petrol and the power and economy of modern diesel. That is the Star Twin THUNDER STAR 1200 TDI. A reliable motorcycle of Dutch fabricate for long distances, which has the same performance level compared to his brothers on petrol. For use on the racing circuit or on the road.



The creators

The THUNDER STAR 1200 TDI is developed by Star Twin Motors in Loenen, The Netherlands. Initiator and co-owner of Star Twin Motors, Kees van der Starre, for years looked pityingly to how motorcycles on diesel were fabricated

without overwhelming results. Looking to the new developments for diesel engines in cars, it had to be possible to build a good motorcycle with the same performance of one on petrol. Van der Starre brought in Jeroen Bernart to create this motorcycle. He designed the motorcycle totally in 3D before starting to build it.



Design

In the design and creation of the THUNDER STAR 1200 TDI various innovative techniques were used for optimal quality. Dutch materials were used as much as possible, including the special casting techniques by Verdult in Heerhugowaard.

By assembling all parts directly on the engine and the use of carbon rims and fairing, the THUNDER STAR 1200 TDI only weighs 205 kg, ready to ride.



The GP Race suspension and the light-weighted brakes and carbon rims take care of an optimal road-holding. With diesel as fuel and the direct injection the motorcycle rides economically without giving in on power, speed and acceleration.

All together this makes the THUNDER STAR 1200 TDI a user friendly, powerful and unique motorcycle. A motorcycle with an engine for a diversity of possibilities: races, city traffic, long distances and off-road riding.

Technical specifications:

Engine:	liquid-cooled 3-cylinder TDI diesel engine
Cylinder capacity:	1200 cc
Bore * stroke:	76.3 * 87 mm
Compression ratio:	1:16
Injection:	Direct injection
Turbo / Intercooler	yes / yes
Transmission:	5
Frame:	Star Twin racing frame
Front suspension:	WP GP front fork
Rear suspension:	WP GP monoshock
Brakes front:	dual PFM radial mounted 6 piston calipers and 320 mm discs
Brakes rear:	single Brembo 2 piston caliper with Star Twin wave disk
Tires:	front 120/70 R17 rear 190/50 R17
Rake:	23 degrees
Wheelbase:	1533 mm
Weight:	205 kg ready to ride
Fuel capacity:	18 liters
Fuel economy:	2,5 liters on 100 km

