

The new Husqvarna Nuda 900 ABS / Nuda 900R ABS.

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1. Overall concept and vehicle properties.

Husqvarna Motorcycles – highly dynamic motorcycles not only off the road, but also – in the form of the Nuda 900 and Nuda 900R – for the road.

Husqvarna Motorcycles is an international manufacturer of offroad and onroad motorcycles, originally founded in Sweden. The company joined the BMW Group in 2007 and has since been profiting from a dynamic and sustained boost to its innovative power.

Today, Husqvarna Motorcycles is headquartered in the North Italian town of Cassinetta di Biandronno in the Varese province and can look back on over one hundred years of traditional motorcycle building. This makes Husqvarna Motorcycles the world's oldest motorcycle maker with an unbroken history of production, which has turned out a large number of championship winners. For instance, the history of Husqvarna Motorcycles has recorded huge successes in international offroad racing, reaping eighty two championship titles to date. Husqvarna Motorcycles could also celebrate road racing victories in the twenties and thirties. It was therefore only logical to supplement its present model range with dynamic, sporty motorcycles for onroad riding.

Developed jointly with BMW Motorrad, the Husqvarna Nuda 900 and Husqvarna Nuda 900R models helped Husqvarna Motorcycles to make its comeback on the onroad motorcycle segment in 2011. Presenting the purist, sporty design language so characteristic of Husqvarna Motorcycles, these two crossover bikes form the dynamic riding bridge between the Supermoto and the naked bike, defying all attempts at categorisation. Besides their daring, vital visual appeal, they also offer a sporty, dynamic riding experience where agility and performance enter into a harmonious union. As soon as they arrived, their dynamic riding properties were showered with praises from the trade press.

In just a short time, the list of their awards grew to a considerable size. For example, the Husqvarna Nuda 900R received the 2012 red dot award “best of the best”. The red dot award was established in 1955 and has since ranked

among the world's most significant awards on the sector of product design. Not only that, the two Nuda models also won the favour of many MOTORRAD readers in the magazine's 2012 Reader Awards, when they took their place on the winner's rostrum in the Supermoto/Enduro categories. Last but not least, initial sales figures verify that the Nuda 900 and Nuda 900R meet the taste of many active riding motorcycle fans.

The Nuda 900 and Nuda 900R are now available with optional ABS for even greater braking safety.

Husqvarna Motorcycles has now made further optimisations to its Nuda 900 and Nuda 900R, and will be fitting the optional safety feature ABS ex works to these purist, road ready sports bikes weighing only 195 kg each.

Yet the Nuda 900 and Nuda 900R continue to rely on their established engineering basis. Their drive remains unchanged as a refined version of the BMW F 800 R two cylinder engine, delivering 77 kW (105 hp) at 8500 rpm and a max torque of 100 Nm at 7000 rpm.

The suspension for the Nuda 900 and Nuda 900R is fitted on a torsionally rigid and lightweight tubular space frame of steel that integrates the engine as an additional supporting element. High quality suspension elements (the Nuda 900R features a fully configurable Öhlins rear spring strut with height adjustment) will thrill the more sportier riders, especially over snaking country roads. Powerful brakes bring the vehicle relentlessly to a firm stop.

Both models are fitted with brake callipers in a radial arrangement over the front wheel. The Nuda 900 features a Brembo four piston braking calliper bolted in a radial arrangement and 320 mm brake discs operating with sintered pads. In line with its great sporting claims, the Nuda 900R is fitted with Brembo monobloc callipers. The rear wheel brake in both models takes the form of a 265 mm brake disc and a Brembo two piston braking calliper.

From the autumn of 2012, the Nuda 900 and Nuda 900R can also be ordered with ABS as an option fitted ex works. This is the most modern dual channel ABS on the market, the new Bosch 9MP. With a system weight of about one kilogram, this ABS generation is especially lightweight and highly compact to boot. This system features valves with linear adjustments for the best possible response. The latest generation of wheel sensors with forty eight teeth

monitor automatically the distance between the sensor and the sensor wheel. In addition, a pressure sensor determines the brake pressure on the front wheel for regulating the rear wheel lift detection. When the rider wishes this, in particular for special challenges like the race track, he can disengage the ABS system.

Technical Data	Nuda 900 ABS	Nuda 900R ABS
Engine		
Type	Water cooled 4-stroke in-line two-cylinder, four valves per cylinder, two overhead camshafts, dry sump lubrication	Water cooled 4-stroke in-line two-cylinder, four valves per cylinder, two overhead camshafts, dry sump lubrication
Bore / stroke	84 mm x 81 mm	84 mm x 81 mm
Capacity	898 ccm	898 ccm
Rated output	77 kW (105 hp) at 8.500 rpm	77 kW (105 hp) at 8.500 rpm
Max. torque	100 Nm at 7.000 rpm	100 Nm at 7.000 rpm
Compression ratio	13,0:1	13,0:1
Mixture control / engine management	Electronic intake pipe injection / digital engine management, two engine mappings (switchable by customer)	Electronic intake pipe injection / digital engine management, two engine mappings (switchable by customer)
Emission control	Closed-loop 3-way catalytic converter, emission standard EU3	Closed-loop 3-way catalytic converter, emission standard EU3
Performance / fuel consumption		
Maximum speed	Over 200 km/h	Over 200 km/h
Fuel consumption over 100 km at constant 90 km/h	3,9 l / 100 km	4,3 l / 100 km
Fuel consumption over 100 km at constant 120 km/h	5,3 l / 100 km	5,95 l / 100 km
Fuel type	Unleaded super, minimum octane rating 95 (RON)	Unleaded super, minimum octane rating 95 (RON)
Electrical system		
Alternator	390 W	390 W
Battery	12V/ 14 Ah, maintenance free	12V/ 14 Ah, maintenance free
Power transmission		
Clutch	Multiple-disc clutch in oil bath, mechanically operated	Multiple-disc clutch in oil bath, mechanically operated
Gearbox	Constant mesh 6-speed gearbox integrated into crankcase	Constant mesh 6-speed gearbox integrated into crankcase
Drive	Endless O-ring chain with shock damping in the rear hub	Endless O-ring chain with shock damping in the rear hub
Chassis / brakes		
Frame	Tubular steel trellis main frame and rear frame, removable passenger footpegs	Tubular steel trellis main frame and rear frame, removable passenger footpegs
Front wheel location / suspension	Sachs Up Side Down fork, ø 48 mm	Sachs Up Side Down fork, ø 48 mm, rebound and compression damping adjustable, spring preload mechanically adjustable
Rear wheel location / suspension	Cast aluminium dual swingarm, cantilever with Sachs shock absorber, spring preload mechanically adjustable, rebound damping adjustable	Cast aluminium dual swingarm, cantilever with Öhlins shock absorber, rebound and compression damping adjustable, spring preload mechanically adjustable, length adjustable (Δ10 mm)
Travel front / rear	210 mm/ 180 mm	210 mm/ 180 mm
Wheelbase	1.495 mm	1.495 mm
Castor	101 mm	101 mm
Steering head angle	65,5°	65,5°
Wheels	Cast aluminium wheel	Cast aluminium wheel
Rim, front	3,5"x17"	3,5"x17"
Rim, rear	5,5"x17"	5,5"x17"
Tyres, front	120/ 70 ZR 17	120/ 70 ZR 17
Tyres, rear	180/ 55 ZR 17	180/ 55 ZR 17
Brake, front	Brembo system: double floating discs, ø 320 mm, 4 - piston radial calipers with sintered pads	Brembo system: double floating discs, ø 320 mm. 4 - piston monoblock radial calipers with sintered pads
Brake, rear	Brembo system: single disc, ø 265 mm with floating caliper	Brembo system: single disc, ø 265mm with floating caliper
ABS	Bosch ABS system 9MP	Bosch ABS system 9MP
Dimensions / weight		
Seat height, unladen weight	870 mm (860 mm low seat-accessory)	875 - 895 mm (adjustable rear shock length)
Inner leg curve	1.910 mm (1.890 mm low seat-accessory)	1.920 - 1.960 mm (adjustable rear shock length)
Unladen weight, road ready, fully fueled 1)	196 kg	196 kg
Dry weight	175 kg	175 kg
Permitted total weight	391 kg	391 kg
Payload (with standard equipment)	195 kg	195 kg
Usable tank volume	13 l	13 l
Reserve	approx. 3 l	approx. 3 l
Length	2.190 mm	2.190 mm
Height (not inc. mirrors)	1.220 mm	1.225 - 1.245 mm
Width (inc. mirrors)	895 mm	895 mm

1) According to guidelines 93/93EWG with all fluids, fuelled with at least 90% of usable tank volume