



## MINI Cooper S VIP Package



### Hartge Performance Tuning for the Cooper

The standard Cooper S is recognised as the best in the latest generation of grown-up hot-hatches, but with one reservation – it doesn't have enough power. For genuine tuners, who rely on more than '*chips, exhausts and wishful thinking*', the inherent aerodynamic restrictions in the Eaton supercharger outlet system pose a particular challenge.

Hartge have been working behind the scenes since the launch of the MCS and have now launched their 200hp tuning package. This TUV-approved tuning package is based around modifications to the kompressor and drive assemblies, together with revised engine management individually mapped for each customer vehicle. All technical work is undertaken at Birds facility in Uxbridge, near Heathrow, with new engine management maps individually programmed and transmitted from Hartge's studios near Merzig, Germany. Although TuV approved at 200hp, dyno testing suggests that cars are actually developing 212-215hp.



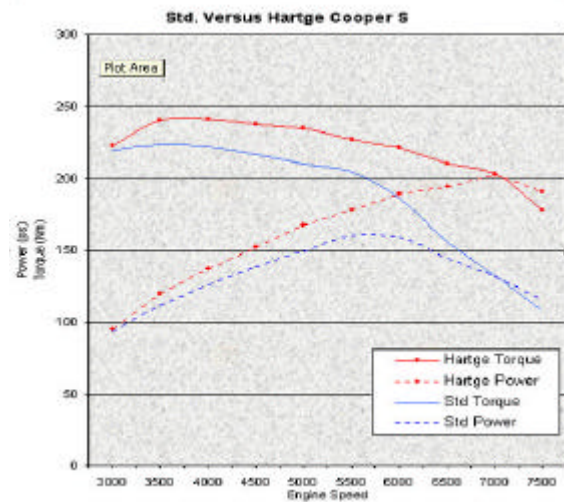
## Engine Tuning



Underlining their place at the cutting edge of tuning technology, Hartge is unique in having installed its own fully automated engine test bench - of the kind usually operated only by major manufacturers. This means that Hartge can carry out all the long-distance and endurance tests necessary in the development of their high performance engines.

All Hartge engine components carry comprehensive warranties of up to 12 months, without mileage limitation.

Model	Standard	Hartge Mini
Based on	MINI Cooper S	MINI Cooper S
Chassis	R50	R50
Engine Type	Supercharged	Supercharged
Capacity	1,598cc	1,598cc
Bore	85.8	85.8
Stroke	77	77
Output	163hp	210hp
@ rpm	6,000	7,000
Torque (NM)	210	250
Torque (lb ft)	155	184
@ rpm	4,000	3,600
Compression	8.3:1	8.3:1
0-60mph	7.6s	6.6s
0-100mph	21.9s	16.1s
40-60mph in 4 <sup>th</sup>	N/A	4.6s
50-70mph in 5 <sup>th</sup>	N/A	6.1s
Vmax	133mph	144mph



### Mini Client Testimonials

"The conversion is done, firstly I would like to thank Birds staff for being so helpful. A really professional service they provide. The car really is in a different league now, it pulls in 6th like it used to pull in 5th.... acceleration is much improved although still very smooth. All in all it really is a 1st class job... I for one am very very impressed with the whole package" Dave E. (Essex)

"Does the car feel like it's got an extra 50hp? You bet, and then some..." Jethro Bovingdon, Evo magazine, long term test.

The complete conversion consists of the following items. We will be pleased to revise specifications and pricing to your individual requirements.			
11-500-200	210hp Performance Kit	41-500-051	Alloy Footrest
18-509-100	Sport Exhaust, Four Outlets	41-500-140	Alloy Gear Knob
18-508-111	Rear Valance	99-490-904	Hartge Large Design Badge
31-500-150	Sport Suspension	99-R50-900	Personalised Serial Number Plaque
37-500-215	18" Classic Wheel & Tyre Set	98-908-200	Tax Disc Holder
37-000-001	Mobility Kit	52-000-007	Zymol Mini Kit
41-500-050	Alloy Pedal Set		





**Sport exhausts** are primarily utilised in maximising the power output from the engine. The standard system is not normally restrictive, but when the performance of the engine is increased, the capacity of the exhaust may be exceeded. We have sport silencers for the Cooper S in two formats;  
Hartge: twin 72mm central pipes or Spirit: four-outlet system - as pictured.  
For additional power increases, specify the optional manifold exhaust system which liberates an additional 8-10hp.



**Hartge suspension** for the MINI is adjustable for ride height, allowing individual adjustment to both front and rear, damper-rebound and bump-rate settings having been tuned by the factory to give a smooth ride, with the ultimate handling stability.  
Sport Springs are also available, and eliminate the pitching motion so common in the mini chassis.



**Optional Sport Front Brakes** - 304x24mm floating front rotors, aluminium mounting bells, four piston calipers, front stainless steel brake lines. Requires 17 or 18-inch wheels.



**Hartge 18" wheels** for the MINI feature their latest version of the classic new design – 10 fluted spokes with bolts. This is therefore a single piece wheel, which looks like a two-piece wheel, meaning that the wheel is lighter, less expensive and easier to maintain than a two-piece wheel.



**Optional Hartge 18" wheels** for the MINI in Union Jack style. All of the benefits of the Hartge Classic, with the added advantage of radial spokes which integrate with the diamond turned outer rim, making the wheel appear larger than 18", but retaining the ride quality required for day to day use.  
Hartge wheels sets come with Pirelli Pzero Nero or equivalent high performance tyres which eliminate the uncomfortable ride of the standard run-flat units.



**Interior Accessories** - These are the details, which make provide noticeable improvements in driver enjoyment for next to no cost.  
Be it a shortshift manual gearbox more grippy pedals or an alcantara-trimmed steering wheel, these details are designed to get you that little bit closer to the ultimate driving experience.