



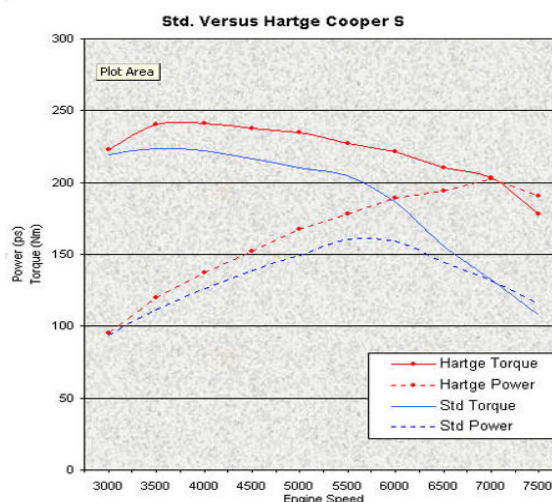
MINI Cooper S Engine Tuning



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 th	N/A	4.6s
50-70mph in 5 th	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.