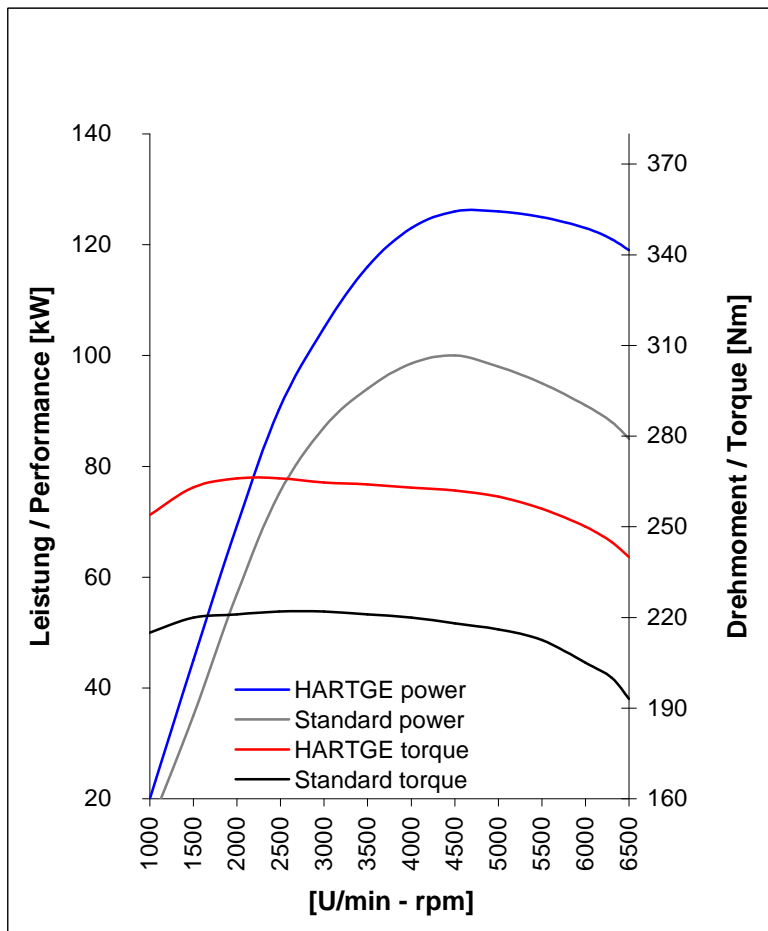


HARTGE engine conversion Performance and engine diagram



**HARTGE engine conversion 11 16 0136
BMW F20 116i (based on 100 kW / 136 hp)**



**HARTGE engine conversions are tested
on the test bench and race track**

Engine	HARTGE	Standard
Cylinders/valves	4 / 4	4 / 4
Displacement (cc)	1598	1598
Stroke/bore (mm)	85.8 / 77.0	85.8 / 77.0
Max output (kW/hp/rpm)	126 (171) / 4400	100 (136) / 4400
Max torque (Nm/rpm)	265 / 2000	220 / 1350 - 4300
Compression ratio :1	10.5	10.5
Fuel	Super	Super

Emissions/eurocode/fuel consumption	HARTGE	Standard
CO2 emissions (g/km)	131 - 134	131 - 134
Eurocode	Euro 5	Euro 5
Fuel consumption	approx. 0.3 litre less consumption	

Acceleration	Difference	HARTGE	Standard
50 - 150 km/h (sec)	**	**	**
80 - 180 km/h (sec)	- 7.00 s	20.63 s	27.63 s
Top speed		210 km/h	210 km/h

** no performance figures available

-Technical data subject to alterations-

Performance figures can vary which is based on the vehicle model e.g. weight, equipment, wheel/tire combination etc.

HARTGE is approved as an automobile manufacturer by the KBA (German Government Motor Vehicle Authority) since 1985

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