

Engine Designations

BMW Code	BMW Code	Size (litres)	Cyl	Valves per Cyl	Power (PS@rpm)	Torque (Nm@rpm)	Manufactured	Bore x Stroke (mm)	Timing	Weight (kg)	motor management	camshaft, valve, intake nad other cont
M10		1.5	4	2	75 @ ?	?	75	82x71	Chain	82		No
		1.6			85 @ 5700	124 @ 3000	66 -> 69?	84x71				
		1.8			90->98 @ 5250	147 @ 3000	71 -> 87	89x71				
		2.0			100 @ 5500	158 @ 3000	68 -> 75	89x80				
		2.0i			125 @ 5700	175 @ 4350	E21 320i / E12 520i	89x80				
		2.0tii			130 @ 5800	178 @ 4500	71 -> 75	89x80				
		2.0 turbo			170 @ 5800	246 @ 4000	73 -> 74	89x80?				
BMW Code	BMW Code	Size (litres)	Cyl	Valves per Cyl	Power (PS@rpm)	Torque (Nm@rpm)	Manufactured	Bore x Stroke (mm)	Timing	Weight (kg)	motor management	camshaft, valve, intake nad other cont
M20 (little six)	M20B20VE	1990ccm	6	2	122	?	1977.9-1982	80x66	Belt	117	carb Solex 4A1	No
	M20B20KE				1981.9	K-Jetronic						
	M20B20LE				125 @ 5800	171 @ 4500	1982.9				L-Jetronic	
	M20B20Kat				129 @ 6000	174 @ 4000	1985				L-Jetronic	
	M20B23KE	2316ccm			129 @ 6000	164 @ 4300	1987	Bosch DME 1.1				
	M20B23LE				143 @ 5300	205 @ 4000	1980-82	K-Jetronic				
	M20B25				139 @ 5300	205 @ 4000	1982-83	L-Jetronic				
	M20B25Kat	2494ccm			150 @ 6000	205 @ 4000	1983-85	Bosch DME 1.1				
	M20B27ME				171 @ 5800	226 @ 4000	1985-86	Bosch DME 1.3				
	M20B27Kat	2693ccm			170 @ 5800	222 @ 4300	1986-1992	DME ML1				
	M20B27				125 @ 4250	230 @ 3250	1983-84	DME ML kat				
	M20B27Kat				122 @ 4250	230 @ 3250	1984-86	Bosch DME 1.1				
	M20B27				129 @ 4250	240 @ 3250	1986-88	Bosch DME 1.1 kat				
	M20B27Kat				129 @ 4800	230 @ 3250	1986-88					
M21 Diesel	M21D25	2443 ccm	6	2	86 @ 4600	152 @ 2500	1985	80x81	Belt	126	DDE later 1986	No
	M21TD25	2443 ccm			115 @ 4800	211 @ 2400	1986				DDE	
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M30 (big six)	M30B23V	2.3	6	2			1973.3	86x80	Chain	143	carburetor	No
	M30B25V	2494ccm			145 @ 6000	208 @ 4000	1973-1976				2x Zenith 32-40 INAT	
	M30B25LE				150 @ 6000	208 @ 4000	1976-1981				Carb Solex 4A1	
	M30B28V				2788ccm	150 @ 5800	215 @ 4000				1981.4-1987	
	M30B28LE	165 @ 6000				233 @ 3700	1973				2x Zenith 35-40 INAT	
	M30B28	170 @ 6000				233 @ 3700	1976.8				carb Solex 4A1	
	M30B30V	177 @ 5800				240 @ 4000	1977				L-Jetronic	
	M30B30	2986ccm			184 @ 5800	240 @ 4000	1979				LE-Jetronic	
	M30B30LU				180 @ 5800	255 @ 3500	1971				2x Zenith 35-40 INAT	
	M30B30				200 @ 5500	272 @ 4300	1971				D-Jetronic	
	M30B32LE				195 @ 5800	267 @ 4300	1974.9				L-Jetronic	
	M30B32LAE				3210ccm	188 @ 5800	260 @ 4000				1986-1990	
	M30B32	197 @ 5500				279 @ 4300	1976				L-Jetronic	
	M30B33V	3299ccm			252 @ 5200	380 @ 2600	1977.12				LE-Jetronic+turbo	
	M30B33LE				197 @ 5500	279 @ 4300	1979				Motronic	
	M30B35LE				190 @ 5500	289 @ 3500	1974.1				2xcarb Zenith 35-40	
	M30B34M	3430ccm					1974.8				L-Jetronic	
	M30B35Kat				218 @ 5200	310 @ 4000	1978-1982				L-Jetronic	
	M30B35Kat				218 @ 5200	310 @ 4000	1981.5				Motronic	
	M30B35Kat				252 @ 5200	380 @ 2200	1983.5				Motronic+turbo	
M30B35Kat	211 @ 5700		305 @ 4000	1988-1992	Bosch DME ML3							
	M30B35Kat				1985-87	Bosch DME						
BMW Code	BMW Code	Size (litres)	Cyl	Valves per Cyl	Power (PS@rpm)	Torque (Nm@rpm)	Manufactured	Bore x Stroke (mm)	Timing	Weight (kg)	motor management	camshaft, valve, intake nad other cont
M40	M40B16Kat	1596	4	2	102 @ 5500	143 @ 4250	1987-1993	84x72	Belt	81	Bosch DME 1.3	No
	M40B18Kat	1796			115 @ 5500	166 @ 4250	1987-1994	84x81				
M41Diesel	M41D17	1665ccm	4	2	90 @ 4400	190 @ 2000	1994	80x82.8	Chain?	108		No
M42	M42B18	1.8	4	4	136 @ 6000	175 @ 4500	89 -> 96	84x81	Chain	100	Bosch DME 1.7	No
	M43B16	1.6			102 @ 5500	151 @ 3900	1988-1992	84x72				

M43	M43B18	1.8	4	2	115 @ 5500	169 @ 3900	198	84x81	Chain	83	Bosch DME 1.7	No
M43TU	M43B19	1.9			118 @ 5500	181 @ 3900	1993	85x83.5		83?	BMS 46	No
M44	M44B19	1895ccm	4	4	140 @ 6000	181 @ 4300	1995	85x83.5	Chain	102	Bosch DME M5.2	No
N42	N42B18	1796ccm	4	4	115 @ 5500	175 @ 3750	2002 ->	81x84	Chain		Bosch DME ME9.2	Bi-VANOS Valvetronic
	N42B20	1995	4	4	143 @ 6000	200 @ 3750		90x84	Chain			
M47 Diesel	M47D20	1951ccm	4	4	136 @ 4000	330 @ 1750	1998	84x90	Chain	117	DDE 3.1	No?
	M47D20TU				150 @ 4000		98 on	84x90	Chain	117	DDE 3.1	TU = VANOS?
BMW Code	BMW Code	Size (litres)	Cyl	Valves per Cyl	Power (PS@rpm)	Torque (Nm@rpm)	Manufactured	Bore x Stroke (mm)	Timing	Weight (kg)	motor management	camshaft, valve, intake nad other cont
M50 M50TU	M50B20	1991ccm	6	4	150 @ 5900	190 @ 4700	1990.4 -> 92.8	80x66	Chain	136	Bosch DME 3.1	
	M50B20TU					190 @ 4200	1992.9 -> 98					
	M50B25	2494ccm			192 @ 5900	246 @ 4700	1990.4 -> 92.8					
	M50B25TU					246 @ 4200	1992.9 -> 95					
	M50B28	2.8										
	M50B30	3.0			175kW @ 6000	306 @ 4250	1990.4					
M51 Diesel	M51D25T	2497ccm	6	2	115 @ 4800	220 @ 2400	95 on	80x82.8	Chain	132	DDE	No
	M51D25S				143 @ 4800	280 @ 2200	90 on					
M52 M52TU	M52B20	1994ccm	6	4	150 @ 5900	190 @ 4200	1993	80x66	Chain	118 euro 140? USA	Siemens MS 40.1	VANOS Bi-VANOS on TU (1998)
	M52B25	2494ccm			192 @ 5500	245 @ 3950	1993-95	84x75			Siemens MS41.0	
	M52B25	2494ccm			170 @ 5500	245 @ 3950	1995 on	84x75				
	M52B28	2793ccm			193 @ 5300	282 @ 3950	95 on	84x84				
	M52B30	3.0			241 @ 6900	321 @ 3600	96->99	?				
	M52B32	3.2										
M54	M54B20	2.0	6	4	150 @ 5900	190 @ 3500		?	Chain	126	Siemens MS43.0	Bi-VANOS
	M54B22	2171ccm			170 @ 6100	210 @ 3500	autumn 2000	80x72				
	M54B25	2494ccm			192 @ 6000	245 @ 3500	autumn 2000	84x75				
	M54B28	2.8			193 @ 5500	282 @ 3500						
	M54B30	2979			231 @ 5900	300 @ 3500	early 2000	84x89.6				
N52	N52B23	2497ccm	6	4	130kw @ 5800	230 @ 3500	2004	82x78.8	Chain			Bi-VANOS Valvetronic volume-controlled oil pump electric coolant pump
	N52B25				160kw @ 6500	250 @ 2750	2004					
	N52B30				2996ccm	190kw @ 6600	300 @ 2500					
M57 Diesel	M57D25	2.5	6	4	120kW @ 4000	350 @ 2000	2000	80x82.8	Chain	165	Bosch DDE5 Bosch DDE6 Bosch DDE?	No?
		2497ccm			130kW @ 4000	400 @ 2000	2002	84x75.1				
	M57D29	2926ccm			142kW @ 4000	410 @ 1750	1998	84x88				
	M57D30	2993ccm			150kW @ 4000	410 @ 1500	2002	84x90				
					160kW @ 4000	500 @ 2000	2005					
					170kW @ 4000	520 @ 2000	2005					
M57D30TU		200kW @ 4400	560 @ 2000	2004	?							
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M60	M60B30	2997ccm	V8	4	218 @ 5800	311 @ 4500	April 92 -> 96	84x67.6	Chain	146	Bosch DME	No
	M60B40	3982ccm			286 @ 5800	400 @ 4500		89x80				
M62 M62TU	M62B35	3498ccm	V8	4	235 @ 5700	321 @ 4700	1994-97	84x78.9	Chain	140	Bosch DME M5.2	No
	M62B35TU				245 @ 5700	345 @ 4700	1998-2003				Bosch DME M7.2	VANOS
	M62B44	4398ccm			286 @ 5700	420 @ 3900	1994-98	92x82.7			Bosch DME M5.2	No
	M62B44TU				286 @ 5400	440 @ 3600	1998-2003				Bosch DME M7.2	VANOS
	M62B46				4619ccm	347 @ 5700	480 @ 3700				1998-2003	?
N62	N62B36	3600ccm	V8	4	272 @ 6200	360 @ 3700	2001	84x81.2	chain		Bosch DME ME9.2	Bi-VANOS valvetronic DIVA
	N62B44	4398ccm			333 @ 6100	450 @ 3600	2001	92x82.7				
	N62B48	4804ccm			360 @ 6300	490 @ 3400	2005	93x88.4				
M67 Diesel	M67D39	3900	V8	4	181kW @ 4000	562 @ 1750	1999	84x88	Chain	192	DDE5	No?
	M67D40	3901			190kW @ 4000	600 @ 1900	2002	84x88				
	M67D45	4423			242kW @ 3800	750 @ 1900	2005	87x93				
BMW Code	BMW Code	Size (litres)	Cyl	Valves per Cyl	Power (PS@rpm)	Torque (Nm@rpm)	Manufactured	Bore x Stroke (mm)	Timing	Weight (kg)	motor management	camshaft, valve, intake nad other cont
M70	M70B50	4988ccm	V12	2	300 @ 5200	450 @ 4100	1987-1994	84x75	Chain	240	2xBosch DME	No
M72	M72B54	5379ccm	V12	4	355 @ 5000	491 @ 3900	1989	85x79	Chain	240 ?	2xBosch DME	No

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M73	M73B54	5379ccm	V12	4	326 @ 5000	490 @ 3900	1994	85x79	Chain	240 ?	2xBosch DME	VANOS after 98	
N73	N73B60	5972	V12	4	327kW @ 6000	600 @ 3950	2003	89x80	chain	280	2xBosch DME DI-Motronic	Bi-VANOS, valvetronic,	
S10			4	4			1982					No	
S14	S14B20	1990ccm	4	4	195		1990		Chain	106		No	
	S14B23	2302ccm			200 @ 6750	241 @ 4600	1986-89	93.2x83.8					
	S14B23Evo	2302ccm			220 @ 6750		1989	93.2x83.8					
	S14B25	2483ccm			238 @ 6750		1991	?					
M88 (S31) (S32)	S32B35	3453ccm	6	4	277 @ 6500	330 @ 5000	1978.11		chain		Kugelfischer	No	
	M88/1				470-490		1976.4	Kugelfischer					
	M88/2				850-950		1976.4						
	M88/3 S31B35ME				286 @ 6500	340 @ 4500	1983				Motronic		
S38	S38B36	3535ccm	6	4	315 @ 6900	354 @ 4750	1987-91		Chain	151	Bosch DME M1.2	No	
	S38B38	3795ccm			340 @ 6900	393 @ 4500	1992			Bosch DME M3.3			
S50	S50B30	2990ccm	6	4	286 @ 7000	321 @ 3600	92 ->95	?	Chain	152		VANOS	
	S50B32	3201ccm			321 @ 7400	351 @ 3250	1995			Bosch DME, Siemens			
	S50B32	3201ccm			250		1994			Siemens			
S52	S52B32	3152ccm	6	4	321 @ 7400	351 @ 3250	96 -> 2000	86.4x91	Chain	152	Bosch DME	Bi-VANOS	
S54	S54B32	3246ccm	6	4	343 @ 7900	366 @ 4900	2001 on	?	Chain	?	Siemens MS S54	Bi-VANOS	
S62	S62B50	4941ccm	V8	4	400 @ 6600	502 @ 3800	1998	94x89	Chain	158		Bi-VANOS	
S70	S70B56	5576ccm	V12	2	380 @ 5300	550 @ 4000	1992	?	Chain	165		no	
	S70/1	6064ccm		4	550		1990			86x87	266	TAG DME	VANOS
	S70/2				627@7400	651 @ 7000	1993						
	S70/3				635		1996						
S85	S85B50	4999ccm	V10	4	373kW @ 7750	520 @ 6100	2004	92x75.2	Chain	240	MS S65	bi-VANOS	

DME = Digital Motor Elektronik

DDE = Digital Diesel Elektronik

K-Jetronic = continual fuel injection (Kontinuierliche Einspritzung)

D-Jetronic = sequential fuel injection with intake air pressure measure

L-Jetronic = sequential fuel injection with intake air volume measure (Luftmengenmessendes System)

LE-Jetronic = for engine with catalytic converter

LU-Jetronic = for engine with catalytic converter and Lambda-sonde

LH-Jetronic = sequential fuel injection with intake air mass measure

Motronic = sequential fuel injection with intake air mass measure

VANOS = variable intake camshaft timing control (VARIABLE NOckenwellen Steuerung)

Bi-VANOS= double VANOS on intake & exhaust camshaft

VALVETRONIC = variable valve stroke control

DIVA = Differentiated Intakefully Variable Air (fully variable intake manifold)

DFI = Direct Fuel Injection

To convert from ft/lb to Nm multiply by 1.36 (100ft/lb = 136Nm)

To convert from PS to kW multiply by 0.735 (100 bhp = 73.5kW)