

2005 MINI Full Model Line Technical Data

		MINI Cooper	MINI Cooper CVT	MINI Cooper S	MINI Cooper S Auto.	MINI Cooper	MINI Cooper CVT	MINI Cooper S	MINI Cooper S
		Hatch	Hatch	Hatch	Hatch	Convertible	Convertible	Convertible	Convertible
Transmission		Getrag 5 Spd.	ZF CVT	Getrag 6 Spd.	Aisin 6 Spd. Auto.	Getrag 5 Spd.	ZF CVT	Getrag 6 Spd.	Aisin 6 Spd. Auto.
No. of doors / seats		3 / 4	3 / 4	3 / 4	3 / 4	2/4	2/4	2/4	2/4
Vehicle length	mm / inch	3635 / 143,1	3635 / 143,1	3655 / 143,9	3655 / 143,9	3635 / 143,1	3635 / 143,1	3655 / 143,9	3655 / 143,9
Vehicle width	mm / inch	1688 / 66,5	1688 / 66,5	1688 / 66,5	1688 / 66,5	1688 / 66,5	1688 / 66,5	1688 / 66,5	1688 / 66,5
Vehicle height, unloaded	mm / inch	1408 / 55,4	1408 / 55,4	1416 / 55,8	1416 / 55,8	1410 / 55,5	1410 / 55,5	1410 / 55,5	1415 / 55,7
Vehicle height, unloaded incl. antenna		1420 / 55,9	1420 / 55,9	1428 / 56,2	1428 / 56,2				
Wheelbase	mm / inch	2467 / 97,1	2467 / 97,1	2467 / 97,1	2467 / 97,1	2467 / 97,1	2467 / 97,1	2467 / 97,1	2467 / 97,1
Turning circle	m / ft	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8	10,66 / 34,8
Track, front	mm / inch	1458 / 57,4	1458 / 57,4	1453 / 57,2	1454 / 57,2	1458 / 57,4	1458 / 57,4	1452 / 57,2	1454 / 57,2
Track, rear	mm / inch	1466 / 57,7	1466 / 57,7	1460 / 57,5	1460 / 57,5	1466 / 57,7	1466 / 57,7	1460 / 57,5	1460 / 57,5
Width at shoulderheight, front W3	mm / inch	1294 / 50,9	1294 / 50,9	1294 / 50,9	1294 / 50,9	1294 / 50,9	1294 / 50,9	1294 / 50,9	1294 / 50,9
Width at shoulderheight, rear W4	mm / inch	1135 / 44,7	1135 / 44,7	1135 / 44,7	1135 / 44,7	991 / 39,0	991 / 39,0	991 / 39,0	991 / 39,0
Eff. leg room, front L34	mm / inch	1048 / 41,3	1048 / 41,3	1048 / 41,3	1048 / 41,3	1048 / 41,3	1048 / 41,3	1048 / 41,3	1048 / 41,3
Eff. leg room, rear L51	mm / inch	795 / 31,3	795 / 31,3	795 / 31,3	795 / 31,3	699 / 27,5	699 / 27,5	699 / 27,5	699 / 27,5
Eff. Head room, front H61	mm / inch	984 / 38,8	984 / 38,8	984 / 38,8	984 / 38,8	975 / 38,4	975 / 38,4	975 / 38,4	975 / 38,4
Eff. Head room, rear H63	mm / inch	955 / 37,6	955 / 37,6	955 / 37,6	955 / 37,6	968 / 38,1	968 / 38,1	968 / 38,1	968 / 38,1
Trunk volume acc. to DIN 70020 method	ltr / ft ³	150-670 / 5,3-23,7	150-670 / 5,3-23,7	150-670 / 5,3-23,7	150-670 / 5,3-23,7	120/165 - 605 // 4,2/5,8 - 21,4	120/165 - 605 // 4,2/5,8 - 21,4	120/165 - 605 // 4,2/5,8 - 21,4	120/165 - 605 // 4,2/5,8 - 21,4
Approx. tank capacity	ltr / gal	50/13,2	50/13,2	50	50	50/13,2	50/13,2	50/13,2	50
Unladen weight	kg / lbs	1145 / 2524	1160 / 2557	1215 / 2679	1235 / 2723	1225/2700	1240/2734	1290/2844	1310 / 2888
Axle load ratio, rear (unladen)	%	39,7	38,8	39,5	38,9	40,4	39,5	40,1	40,1
Gross vehicle weight	kg / lbs	1515 / 3340	1530 / 3373	1585 / 3494	1605 / 3538	1575 / 3472	1590 / 3505	1640 / 3616	1660 / 3660
Payload	kg / lbs	370 / 816	370 / 816	370 / 816	370 / 816	350 / 771	350 / 771	350 / 771	350 / 771
Axle load limit, front	kg / lbs	870 / 1918	870 / 1918	890 / 1962	890 / 1962	870 / 1918	870 / 1918	890 / 1962	890 / 1962
Axle load limit, rear	kg / lbs	730 / 1609	730 / 1609	770 / 1698	770 / 1698	770 / 1697	770 / 1697	800 / 1763	800 / 1763
Roof load limit	kg / lbs	75 / 165	75 / 165	75 / 165	75 / 165	-	-	-	-
Engine / No. of cylinders / valves p. cyl.		In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4	In Line / 4 / 4
Fuel management		Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000	Siemens EMS 2000
Displacement, acc. to ECE Reg.	cm ³ / inch ³	1598 / 97,5	1598 / 97,5	1598 / 97,5	1598 / 97,5	1598 / 97,5	1598 / 97,5	1598 / 97,5	1598 / 97,5
Stroke	mm / inch	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38	85,8 / 3,38
Bore	mm / inch	77 / 3,03	77 / 3,03	77 / 3,03	77 / 3,03	77 / 3,03	77 / 3,03	77 / 3,03	77 / 3,03
Nom. power output / Eng. speed	SAE hp / min ⁻¹	115 / 6000	115 / 6000	168 / 6000	168 / 6000	115 / 6000	115 / 6000	168 / 6000	168 / 6000
Max. torque / Engine speed	ft lbs (Nm) / min ⁻¹	111 (150) / 4500	111 (150) / 4500	162 (220) / 4000	162 (220) / 4000	111 (150) / 4500	111 (150) / 4500	162 (220) / 4000	162 (220) / 4000
Compression ratio / Fuel type		10,6 / 91-98 ROZ	10,6 / 91-98 ROZ	8,3 / 91-98 ROZ	8,3 / 91-98 ROZ	10,6 / 91-98 ROZ	10,6 / 91-98 ROZ	8,3 / 91-98 ROZ	8,3 / 91-98 ROZ
Transmission type		Getrag 252*	GACVT16Z	Getrag 285*	AISIN	Getrag 252*	GACVT16Z	Getrag 285*	AISIN
Gear ratio 1st / 2nd / 3rd		14,4 / 8,327 / 5,476	variable	12,789 / 7,795 / 5,651	4,044 / 2,371 / 1,556	14,4 / 8,327 / 5,476	variable	12,789 / 7,795 / 5,651	4,044 / 2,371 / 1,556
Gear ratio 4th / 5th / 6th		4,105 / 3,509 / -	variable	4,615 / 3,828 / 3,126	1,159 / 0,852 / 0,672	4,105 / 3,509 / -	variable	4,615 / 3,828 / 3,126	1,159 / 0,852 / 0,672
Reverse gear ratio		14,065	3,82	11,944	3,193	14,065	3,82	11,944	3,193
Final drive ratio		*total transmission ratio	5,76	*total transmission ratio	3,68	*total transmission ratio	5,76	*total transmission ratio	3,683
Steering type / Steering ratio		Rack&Pinion / 13,18	Rack&Pinion / 13,18	Rack&Pinion / 13,18	Rack&Pinion / 13,18	EHPAS / 13,18	EHPAS / 13,18	EHPAS / 13,18	EHPAS / 13,18
Brake front / diameter	- / mm / inch	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9	Disc ventil./276 / 10,9
Brake rear / diameter	- / mm / inch	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2	Disc / 259 / 10,2
Drag C _d		0,35	0,35	0,36	0,36	0,37	0,37	0,37	0,37
Drag C _d x A	m ² / ft ²	0,689 / 7,41	0,689 / 7,41	0,713 / 7,672	0,72 / 7,75	1,97 / 21,2	1,97 / 21,2	1,97 / 21,2	0,73 / 7,86
Top speed	km/h / mph	200 / 124	185 / 115	220 / 137	216 / 134	195 / 121	180 / 112	220 / 137	215 / 134
Acceleration 0-60mph	s	8,5	9,7	6,8	7,4	8,9	10,2	7,0	7,6
Acceleration 0-100km/h (Canada)	s	9,1	10,4	7,2	7,7	9,6	10,8	7,4	7,9
Acceleration 0 - 1/4 mile	s	16,7	-	15,4	-	16,5	-	15,6	-
Acceleration 0-1000m	s	30,6	-	27,6	28,3	30,6	-	27,8	28,8
Fuel consumption city	mpg	28	26	25		27	26	25	
Fuel consumption highway	mpg	36	34	32		35	33	32	
Fuel consumption combined	mpg	31	29	27		30	29	27	
Approx. range	km / miles								
Tyre size front		175/65 R15 84H AS	175/65 R15 84H AS	195/55R16 87 V RSC AS	195/55R16 87 V RSC AS	175/65R15 84 H AS	175/65R15 84 H AS	195/55R16 87 V RSC AS	195/55R16 87V RSC AS
Tyre size rear		175/65 R15 84H AS	175/65 R15 84H AS	195/55R16 87 V RSC AS	195/55R16 87 V RSC AS	175/65R15 84 H AS	175/65R15 84 H AS	195/55R16 87 V RSC AS	195/55R16 87V RSC AS
Wheel size front		5,5J x 15 alloy	5,5J x 15 alloy	6,5 J x 16 alloy	6,5 J x 16 alloy	5,5 J x 15 alloy	5,5 J x 15 alloy	6,5 J x 16 alloy	6,5 J x 16 alloy
Wheel size rear		5,5J x 15 alloy	5,5J x 15 alloy	6,5 J x 16 alloy	6,5 J x 16 alloy	5,5 J x 15 alloy	5,5 J x 15 alloy	6,5 J x 16 alloy	6,5 J x 16 alloy
Radiator s. incl.heater / Engine oil *	ltr / quarts	5,3 / 5,6 // 4,5 / 4,8	5,3 / 5,6 // 4,5 / 4,8	6 / 6,3 // 4,8 / 5,1	6 / 6,3 // 4,8 / 5,1	5,3 / 5,6 // 4,5 / 4,8	5,3 / 5,6 // 4,5 / 4,8	6,0 / 6,3 // 4,8 / 5,1	6,0 / 6,3 // 4,8 / 5,1
Transmiss. fluid / Final drive fluid	ltr / quarts	permanently filled	permanently filled	permanently filled	life-time	permanently filled	permanently filled	permanently filled	permanently filled
Battery capacity / installed position	Ah / -	55/engine comp.	55/engine comp.	55/luggage comp.	55/luggage comp.	55/engine comp.	55/engine comp.	55/luggage comp.	55/luggage comp.
Alternator	A / W	120 / 1680	120 / 1680	105 / 1470	105 / 1470	120 / 1680	120 / 1680	105 / 1470	105 / 1470
* Oil exchange quantity									
As gear ratios you can use alternatively									
Transmission type	-	Getrag 252	GACVT16Z	Getrag 285	AISIN	Getrag 252	GACVT16Z	Getrag 285	AISIN
Gear ratio 1st / 2nd / 3rd	-	3,308 / 1,913 / 1,258	variable	4,455 ¹⁾ / 2,714 ¹⁾ / 1,333 ²⁾	4,044 / 2,371 / 1,556	3,308 / 1,913 / 1,258	variable	4,455 ¹⁾ / 2,714 ¹⁾ / 1,333 ²⁾	4,044 / 2,371 / 1,556
Gear ratio 4th / 5th / 6th	-	0,943 / 0,806 / -	variable	1,089 ²⁾ / 1,333 ³⁾ / 1,089 ³⁾	1,159 / 0,852 / 0,672	0,943 / 0,806 / -	variable	1,089 ²⁾ / 1,333 ³⁾ / 1,089 ³⁾	1,159 / 0,852 / 0,672
Reverse gear ratio	-	3,231	3,82	2,818 ²⁾	3,193	3,231	3,82	2,818 ²⁾	3,193
Final drive ratio	-	4,352	5,76	¹⁾ 2,87 / ²⁾ 4,24	3,683	4,352	5,76	¹⁾ 2,87 / ²⁾ 4,24	3,683