



Volvo and Towing

Developing cars that also function well as tow cars is a tradition within Volvo Car Corporation. Volvo is probably unique in having its own fleet of caravans to test the towing performance of all its new models. A good tow car must have an engine with good torque through a wide range of engine speeds.

For the towing tests, the car is connected to a trailer that can be adapted for different weights and tow-hitch pressures. The car is then steered by a robot that consistently makes the same movements of the steering wheel in order to provoke the trailer to become unstable. Using this method, we know that the test is always carried out in exactly the same way.

Volvo Car Corporation has actively contributed to the development of a special towing test method which has now become an ISO standard. The test involves Volvo's engineers measuring the lateral acceleration of the trailer, the angle between the car and the trailer, the angle of the steering wheel, and the actual speed of the car. All must be within certain criteria in order for the car to be approved by Volvo's engineers.

Tough durability tests

As well as its towing tests at home in Sweden, Volvo Car Corporation also tests its cars in Death Valley, California. In extreme heat, with temperatures well over 40 degrees, test cars are driven with fully loaded trailers on a 23.3 kilometre long uphill climb with an average gradient of 7%. Nowhere else in the world can a tow car be subjected to such extreme trials. All Volvo cars have to go through this extreme test before the test engineers give their approval.

NEW V50



WEIGHTS kg	1.6 M	1.8 M	2.0 M	2.4i M/GT	T5 M/GT	1.6D M	2.0D M	2.0D P	D5 M/GT	1.8F M
Minimum kerb weight	1349	1402	1417	1484/1510	1509/1526	1436	1489	1519	1552/1568	1419
Recommended 85% towing limit	1147	1192	1204	1261/1284	1283/1297	1221	1266	1291	1319/1333	1206
Maximum towing limit	1200	1300	1350	1500	1500	1300	1500	1500	1500	1300
Maximum nose-weight	75	75	75	75	75	75	75	75	75	75

ALL-NEW V70



WEIGHTS kg	2.0 M	2.5T M/GT	3.2 GT	T6 AWD GT	2.0D M	2.4D M/GT	D5 AWD M/GT	2.0F M
Minimum kerb weight	1641	1736/1752	1791	1888	1733	1761/1778	1761/1778	1642
Recommended 85% towing limit	1395	1476/1489	1522	1605	1473	1497/1511	1497/1511	1396
Maximum towing limit	1500	1800	1800	2000	1500	1500/1800	1800/2000	TBC
Maximum nose-weight	90	90	90	90	90	90	90	90

M = Manual GT = Geartronic P = Powershift F = Flexifuel A = Automatic

Figures quoted are for Volvo Towbars. Other brands may differ and should be sought from the manufacturer.

NEW S40



WEIGHTS kg	1.6 M	1.8 M	2.0 M	2.4i M/GT	T5 M/GT	1.6D M	2.0D M	2.0D P	D5 M/GT	1.8F M
Minimum kerb weight	1277	1332	1384	1457/ 1481	1472/ 1489	1410	1457	1491	1527/ 1543	1390
Recommended 85% towing limit	1085	1132	1176	1238/ 1259	1251/ 1266	1199	1238	1267	1298/ 1312	1182
Maximum towing limit	1200	1300	1350	1500	1500	1300	1500	1500	1500	1300
Maximum nose-weight	75	75	75	75	75	75	75	75	75	75

S60



WEIGHTS kg	2.0T M/A	2.4D M/GT	D5 M/GT
Minimum kerb weight	1533/1564	1581/1598	1576/1600
Recommended 85% towing limit	1303/1329	1344/1358	1340/1360
Maximum towing limit	1600	1600	1600
Maximum nose-weight	75	75	75

S80



WEIGHTS kg	2.0 M	2.5T M/GT	3.2 GT	V8 AWD GT	2.0D M	2.4D M/GT	D5 M/GT	2.0F M
Minimum kerb weight	1570	1649/ 1666	1701	1845	1650	1676/ 1702	1676/ 1702	1570
Recommended 85% towing limit	1335	1402/ 1416	1446	1568	1403	1425/ 1447	1425/ 1447	1335
Maximum towing limit	1500	1800	1800	2000	1500	1600/ 1800	1600/ 2000	1500
Maximum nose-weight	90	90	90	90	90	90	90	90

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ALL-NEW XC70



WEIGHTS kg	3.2 GT	D5 M/GT
Minimum kerb weight	1889	1868/ 1884
Recommended 85% towing limit	1606	1588/ 1601
Maximum towing limit	1800	2100
Maximum nose-weight	90	90

XC90



WEIGHTS kg	3.2 GT	V8 GT	D5 M/GT
Minimum kerb weight	2152	2181	2117/ 2133
Recommended 85% towing limit	1829	1854	1799/ 1813
Maximum towing limit	2250	2250	2250
Maximum nose-weight	90	90	90

C30



WEIGHTS kg	1.6 M	1.8 M	2.0 M	2.4i M/GT	T5 M/GT	1.6D M	2.0D M	2.0D P	D5 M/GT	1.8F M
Minimum kerb weight	1277	1332	1328	1400/ 1424	1437/ 1454	1368	1414	1438	1474/ 1490	1341
Recommended 85% towing limit	1085	1132	1129	1190/ 1210	1221/ 1236	1163	1202	1222	1253/ 1267	1140
Maximum towing limit	1200	1300	1350	1500	1500	1300	1500	1500	1500	1300
Maximum nose-weight	75	75	75	75	75	75	75	75	75	75

C70



WEIGHTS kg	2.4i M/GT	T5 M/GT	2.0D M	D5 M/GT
Minimum kerb weight	1700/1719	1731/1749	1721	1777/1793
Recommended 85% towing limit	1445/1461	1471/1486	1463	1500/1524
Maximum towing limit	1500	1500	1500	1500
Maximum nose-weight	75	75	75	75

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