



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