

VEHICLE SPEED NOMOGRAM

Vehicle speed is indicated in km/h, as a function of the engine revolutions per minute, the rolling radius for the rear wheels in mm, the rear axle reduction and the gearbox reduction. Use of the nomogram implies that the engine is sufficiently powerful, i.e., tractive effort is greater than driving resistance. Example: given; engine speed 200 rev/min, tyre size 6.00-20, rear axle reduction 5.00:1 and gearbox reduction

1.6:1. Sort: vehicle speed. First draw the line A from engine speed 2000 to tyre size 6.00-20. Then draw the line B from rear axle reduction 5 to gearbox reduction 1.6. Finally join the line C where both the auxiliary lines intersect the A and B lines. The sought vehicle speed is where the C line cuts the speed scale, in this case, 38 km/h.

