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Is 500 horsepower fast

Today you can get a car with over 500 horsepower for just over $50,000, and hit 200 mph for less than $75,000. How fast is 700 horsepower in mph? It makes exactly 710 horsepower at 7,250 rpm, and its peak torque of 567 pound-feet arrives quite high, at 5,500 rpm.…McLaren 720S – 710 horsepower. Engine 4.0-liter V-8 Weight 2829 LB Power to Weight Ratio 3.98 LB / HP 0-62 MPH 2.9 Seconds Top speed 212 MPH How fast is 140 horsepower? The rule of thumb for speed and air resistance is that for a given car, it takes four times as much power to go twice as fast. So, if your car can do 50 mph with 35 horsepower, you'll need 140 horsepower to do 100 mph. How many kW is a 1 hp motor? Horsepower (metric) to Kilowatt Conversion Table Horsepower (metric) Kilowatt [kW] 0.01 horsepower (metric) 0.0073549875 kW 0.1 horsepower (metric) 0.073549875 kW 1 horsepower (metric) 0.73549875 kW 2 horsepower (metric) 1.4709975 kW How fast is 300 horsepower in mph? 140 mph How fast can a 13 hp engine go? This Predator 420cc gasoline engine has gas-saving overhead valves for cooler, cleaner performance and longer life.…Specifications. Name 13 HP (420cc) OHV Horizontal Shaft Gas Engine EPA/CARB Horsepower (hp) 13 Maximum speed (rpm) 3600 RPM How fast is a 212 Predator engine? If you have an old go kart you need to restore, you can simply buy a predator 212cc engine (amazon link) and breath new life into an old go kart. This engine is a performer right out of the box, and should get your go kart running anywhere from 20 mph all the way up to 35mph in its stock form. How fast is 8 HP in mph? The Fiat 8 hp is a car produced by the Italian manufacturer Fiat in 1901. The car has a straight-2 engine rated at 8 hp and a top speed of 45 kilometres per hour (28 mph). How fast is 670cc in mph? You wont see more than 3500 RPM's, or go more than 25 MPH but it should effectively be reliable. However, you will have the low end torque you are after. Click to see full answer.…How fast can a 670cc go? Name 22 HP (670cc) V-Twin Horizontal Shaft Gas Engine EPA Horsepower (hp) 22 Maximum speed (rpm) 4000 RPM How fast is a 40 hp boat motor? My 17 tracker with 40 hp Mariner will do 31 mph with me and my gear in it (that's with 3 batteries and full 6 gallon fuel can). How much horsepower is 30 mph? At 30 mph, air drag power = 1,388 watts, tire rolling resistance power = 1,972 watts, net HP = 71,240 watts (95. That would mean RWHP should be 308. How fast is 1hp? Horsepower, the common unit of power; i.e., the rate at which work is done. In the British Imperial System, one horsepower equals 33,000 foot-pounds of work per minute—that is, the power necessary to lift a total mass of 33,000 pounds one foot in one minute. How fast is 3 horsepower? To give you a simple reference, a 3 hp electric outboard can push a 12 ft boat with 150 kg (331 lbs) load at a max speed of 9 km/h (5.6 mph). That's to say the 3 hp outboard motor can provide more than sufficient propulsion for a 10 ft tender or work as an auxiliary power for a daysailer of up to 1.5 tonnes (3307 lbs). The Drive and its partners may earn a commission if you purchase a product through one of our links. Read more.Everyone and their mothers know a car's top two performance metrics are horsepower and torque. They're littered across every car's spec sheet, plastered multiple times in its reviews, and bolded and animated in each and every online comparison video known to man. Few, however, truly understand their differences, even as thousands argue which is more important. Though most can comprehend the general premises of horsepower and torque, their definitions, their history, their applications, the mathematical equations used to find their values, and how and why manufacturers use each, isn't as well known. And, understandably, searching Google to ascertain those differences can be, well, ridden with potential errors, erroneous details, and old-timey baseball references only Boomers would know. That's where The Drive comes in. Thanks to our crack team of info experts, all steeped in an engine's language and engineering, we've concocted the end-all-be-all guide to horsepower vs. torque. We explain not only what each is and how they're used, but also the different versions of each, and how they relate to speed and acceleration.We're even going to answer some questions about Torque, the excellently terrible film about motorcycles from 2004 that ripped off Fast and the Furious. Oh yeah, we went there. Two types of torque and horsepower. , Jonathon KleinA horsepower is a unit of measurement used to denote power or the "rate at which work is done" by an engine or motor. This applies to all engines and motors and not strictly internal combustion engines. Your car's horsepower denotes how quickly that work can be done with more power allowing for quicker work.Torque is force multiplied by distance. In the case of cars, "the rotational equivalent of linear force." Essentially, it's the amount of force applied to an object with a twisting motion, i.e. a motor applying force to a crankshaft, which consequently rotates your tires. The two are very much two sides of the same coin as one goes with the other—torque being the force and horsepower being the rate at which that force is done. The difference is torque is doing the work, while horsepower is how fast that work is being done. Horsepower and torque, along with where each fall on a vehicle's engine rotation per minute (rpm) range, as well as gearing, determine the car's speed and acceleration.Torque in action. , Sam Bendall @livemotofotoMost people use the terms "quick" and "fast" interchangeably, especially when they're talking about performance cars. Acceleration and speed, the two terms "quick" and "fast" respectively denote, are actually very different, however, and relate directly to horsepower and torque.Given their interchangeability in regular conversation, as well as the horsepower vs. torque debate, we thought it necessary to put this issue to rest once and for all. In automobiles, acceleration means a vehicle's capacity to gain speed relative to time, i.e. your car's 0-60 mph figure. That relates to both horsepower and torqueSpeed is the rate at which a vehicle can operate, i.e. a car's speed range. Practically put, a Bugatti Chiron can operate between 1 mph and 261 mph. Rivian's all-electric R1T has a ton of torque and horsepower. , RivianWell, yes and no. The more horsepower you have at your disposal, the faster you'll be able to push your theoretical car in terms of top speed, i.e. the 1,500-horsepower Bugatti Chiron and its 300-mph top speed. Torque is a little more finicky, as what really matters is where peak torque arrives and how long it's sustained. Suppose a theoretical car with 200 horsepower and 200 lb-ft of torque, with the torque arriving at 6,000 rpm, squares off against another theoretical car with 200 horsepower and only 150 lb-ft of torque, this time arriving at 1,500 rpm and staying constant until its 6,500 rpm redline. In this case, the second car would out-accelerate the first, even though it has less torque.To put more realism into that scenario, compare a drag race between a Bugatti Chiron and Porsche Taycan Turbo S EV. Because the EV delivers its max 774 lb-ft of torque at 0 rpm, it can out-accelerate (2.4 seconds to 60 mph) the 1,100 lb-ft Bugatti (2.5 seconds to 60 mph) because the Bugatti doesn't hit peak torque until 1,180 rpm. We chose this magnificent beast. , DepositphotosWhat are we, Canadian? But really, horsepower came about as a Scottish engineer by the name of James Watt was looking to compare the output of steam engines and draft horses in order to sell people on his steam power business—yay greed! Observing a horse could turn a mill wheel 144 times per hour, and that the wheel had a 3.7-meter radius, Watt determined the horse could travel 2.4 × 2π × 12 feet in one minute.Here's the equation for all you math nerds.P=Wt=Fdt=180lbf x 2.4 x 2 x 12ft1min=32,572ft lbfminWatt could then apply this formula to his steam engines and determine how much more effective they were compared to the hay-eating, sleeping, big ole pooping horses everyone used at the time. Thus, horsepower was born. Maybe if elk or moose were more available at the time, Watt would've used them. Maths., DepositphotosWe live in a globalized world, no matter what some people say, and with that comes different labels and measurements for essentially the same thing—think metric vs. imperial. Torque is no different, with automotive manufacturers using pound-feet (lb-ft), foot-pounds (ft-lbs), and Newton Meters (NM). A pound-foot is the moment of inertia on an axis that applies one pound of force at a radius of one foot. TL:DR, pound-feet refers to the force applied and exerted by a car's wheels as it bites the pavement. The British version of pound-feet, just backward like how they drive on the left side of the road but their cars are right-hand drive. Nothing makes sense there. Foot-pound also refers to a unit of work but has been co-opted by auto manufacturers. A newton-meter is a unit of torque in the metric system and one foot-pound is equal to 0.73756 newton-meters. As with torque, there's differentiation between manufacturer-supplied figures representing horsepower, with the main four being horsepower, brake horsepower, metric horsepower, and kilowatt. Here's what they all mean and why they're used. Horsepower is the most commonly used figure to denote a car's power and most often relates to how much power a car's engine develops at the crank of an engine, not at the tires. It's easy, it's known, and it looks great splashed across marketing. Brake-horsepower is commonly used by countries outside the U.S. and denotes the engine's power at the tires of the car, not at the crank. This is the real output of your car's horsepower, what it can physically produce at the front, rear, or all four tires. One metric horsepower, whether written as pferdestärke (PS), cheval-vapeur (CH), or cavallo vapore (CV), differs from an imperial or standard horsepower due to how it was calculated. To obtain a metric horsepower, a horse was attached to a 75-kilogram weight on the end of a pulley and was then timed as to how quickly it could lift it by one meter. The result is one second. This equation was then made to equal one metric horsepower, which is actually 98.6 percent of an imperial or standard horsepower when compared. Here's the math for you lovers of equations!75 kg × 9.80665 m/s2 × 1 m / 1 s = 75 kgf·m/s = 1 PSKilowatt is a term our friends down under use most frequently and is actually the most precise measurement of power on this list. It's also used by every engineer in the world. A kilowatt measures energy transfer over time and results in 1 kilowatt equalling 1.341 standard horsepower. The author showing off what torque and horsepower do together to tires. , Joseph Yoon Jr.You've got questions, The Drive has answers!A: Depends on who you ask. For Formula 1 drivers, it's a combination of both. For rally and off-road drivers, it's torque. For land-speed racers, it's all about that top horsepower figure.A: Because we've been fed a long gravy-train of misinformation about why horsepower is better, because it's usually the bigger number and better for taglines and marketing. Sales! Now that EVs are hitting the mainstream, expect to be repetitively whacked over the head with torque.A: Not necessarily. Horsepower still matters and is a highly useful metric, there's just a disproportionate emphasis placed on horsepower. Especially when what you'll feel when you mash the throttle is mostly torque.A: Well, the auto industry tried that, and...yeah. There are still a number of diesel engines around, especially in the pickup market, but there's some bad blood there. Diesels, like the gasoline engine, seem to be on their way out. A: They don't really have more torque than conventional combustion engines, it's more about the delivery of its performance that people are amazed by. An internal combustion engine requires fuel, spark, and combustion, things that take time, to create and transmit energy through a driveshaft and to the wheels. For an EV, that power is always ready to be immediately transmitted to the wheels. Think of an EV's performance like switching on a light compared to lighting a gas-burning stovetop. Instantaneous torque on demand. A: Depends, do you like schlocky Fast and the Furious rip-offs with motorcycles and a scene where a turbine-powered superbike called the "Y2K" enters warp speed?A: Then yeah, it's great. Ice Cube will be pleased.We're here to be expert guides in everything How-To related. Use us, compliment us, yell at us. Comment below and let's talk! You can also shout at us on Twitter or Instagram, here are our profiles.Ancel Classic Enhanced Universal OBD II ScannerEquus Auto-Ranging Digital MultimeterTorin Big Red Steel Jack Stands: 6 Ton CapacityGot a question? Got a pro tip? Send us a note: guidesandgear@thedrive.com

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