

Reading free From horse to horsepower Copy

discover the surprising answer to how much horsepower a horse actually has and how this unit of measurement was invented generally speaking one horsepower is equal to 14 to 17 cc most commonly one horsepower will be 15 cc though the full answer is complex the value will vary depending on different factors such as engine tuning size fuel and boosting one horsepower is equivalent to 746 watts in today's equestrian world one horse has a max horsepower of 15 humans on the other hand have a max horsepower of 1.2 why is it called horsepower the term horsepower came about in the late 1700s upon the invention of the steam engine horsepower calculator horsepower is a measurement of power or the rate at which work is done this calculator can be used to compute horsepower according to its definition and to convert between different power units to find the engine horsepower of a vehicle please use our engine horsepower calculator there are many different standards and types of horsepower two common definitions used today are the imperial horsepower which is about 745.7 watts and the metric horsepower which is approximately 735.5 watts 1 horsepower 33 000 foot pounds minute so it's the force of 550 pounds in one foot per second you may also call it 550 foot pounds of work also you can convert it into 745.7 watts when it's metric horsepower it becomes 735.5 watts 1 horsepower 745.7 watts mechanical horsepower 735.5 watts metric horsepower what horsepower means is this in watt's judgement one horse can do 33 000 foot pounds of work every minute so imagine a horse raising coal out of a coal mine as shown above a horse exerting 1 horsepower can raise 330 pounds of coal 100 feet in a minute or 33 pounds of coal 1 000 feet in one minute or 1 000 pounds 33 feet in one minute a power level of 1 hp is approximately equivalent to 746 watts w or 0.746 kilowatts kw to convert from horsepower to watts multiply by 746 to convert from watts to horsepower multiply by 0.00134 to convert from horsepower to kilowatts multiply by 0.746 to convert from kilowatts to horsepower multiply by 1.34 one gray equals 100 rads 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 power of a horse although it may seem safe to assume that one horsepower is the output a horse is capable of creating at any one time that is incorrect in fact the maximum output of a horse can be up to 15 horsepower 2 and the maximum output of a human is a bit more than a single horsepower in general a healthy person has around a tenth of the power of a horse around 0.1 horsepower that means it would take ten humans to match a horse under normal circumstances in terms of power understanding the equation horsepower a measure of engine power can be calculated precisely using the formula horsepower hp torque x rpm 5252 this formula is widely accepted in the automotive and engineering industries for its accuracy and simplicity breaking down the components h p horsepower cv cheval vapeur how to convert cv to hp in only 1 step step 1 multiply cv by 0.9863 for example if a motor has 100 cv you must multiply 100 cv x 0.9863 and you will choose 98.6 hp it is easy definition cv and h p hp whp 1 1 dl where hp represents engine horsepower whp is wheel horsepower dl represents drive train loss for front wheel drive the drive train loss is 10 for rear wheel drive it is 15 and for all wheel drive it is 25 what is the difference between hp whp how to convert horsepower metric to kilowatt 1 horsepower metric 0.73549875 kw 1 kw 1.3596216173 horsepower metric example convert 15 horsepower metric to kw 15 horsepower metric 15 0.73549875 kw 11.03248125 kw popular power unit conversions power kilowatts to horsepower converter enter the power in kilowatts below to get the value converted to horsepower kilowatt value swap units result in horsepower mechanical horsepower 1 kw 1.341022 hp i electric horsepower 1 kw 1.340483 hp e metric horsepower 1 kw 1.359622 hp m boiler horsepower 1 kw 0.101942 hp s one metric horsepower is equal to 735.49875 watts 1 hp m 735.49875 w so the power conversion of horsepower to watts is given by p w 735.49875 p hp example convert 10 hp to watts p w 735.49875 10hp 7354.9875 w watts to horsepower conversion table watts to horsepower conversion see also watts to horsepower conversion joe sexton reviewed by kevin weekly phd how to convert amps to horsepower the conversion from amps a measure of electric current to horsepower a measure of power output by a motor can be done using a fairly simple formula p hp i a v v η pf 746 when we want to convert gross torque to horsepower we need know the formula of power in watts power w torque n m speed rpm 9 5488 let's calculate the mechanical horsepower of a machine with a 150 n m torque value and 1500 rpm speed power w 150 n m 1500 rpm 23 563 watts how to convert watt to horsepower metric 1 w 0.0013596216 horsepower metric 1 horsepower metric 735.49875 w example convert 15 w to horsepower metric 15 w 15 0.0013596216 horsepower metric 0.0203943243 horsepower metric popular power unit conversions

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horsepower calculator horsepower is a measurement of power or the rate at which work is done this calculator can be used to compute horsepower according to its definition and to convert between different power units to find the engine horsepower of a vehicle please use our engine horsepower calculator

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normal circumstances in terms of power

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understanding the equation horsepower a measure of engine power can be calculated precisely using the formula horsepower hp torque x rpm 5252 this formula is widely accepted in the automotive and engineering industries for its accuracy and simplicity breaking down the components

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h p horsepower cv cheval vapeur how to convert cv to hp in only 1 step step 1 multiply cv by 0 9863 for example if a motor has 100 cv you must multiply 100 cvx0 9863 and you will choose 98 6 hp it is easy definition cv and h p

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hp whp 1 1 dl where hp represents engine horsepower whp is wheel horsepower dl represents drive train loss for front wheel drive the drive train loss is 10 for rear wheel drive it is 15 and for all wheel drive it is 25 what is the difference between hp whp

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how to convert horsepower metric to kilowatt 1 horsepower metric 0 73549875 kw 1 kw 1 3596216173 horsepower metric example convert 15 horsepower metric to kw 15 horsepower metric 15 0 73549875 kw 11 03248125 kw popular power unit conversions

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power kilowatts to horsepower converter enter the power in kilowatts below to get the value converted to horsepower kilowatt value swap units result in horsepower mechanical horsepower 1 kw 1 341022 hp i electric horsepower 1 kw 1 340483 hp e metric horsepower 1 kw 1 359622 hp m boiler horsepower 1 kw 0 101942 hp s

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one metric horsepower is equal to 735 49875 watts 1 hp m 735 49875 w so the power conversion of horsepower to watts is given by $p\ w\ 735\ 49875\ p\ hp$
example convert 10 hp to watts $p\ w\ 735\ 49875\ 10hp\ 7354\ 9875\ w$ watts to horsepower conversion table watts to horsepower conversion see also watts to horsepower conversion

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joe sexton reviewed by kevin weekly phd how to convert amps to horsepower the conversion from amps a measure of electric current to horsepower a measure of power output by a motor can be done using a fairly simple formula $p\ hp\ i\ a\ v\ v\ \eta\ pf\ 746$

torque to hp calculator

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when we want to convert gross torque to horsepower we need know the formula of power in watts $power\ w\ torque\ n\ m\ speed\ rpm\ 9\ 5488$ let s calculate the mechanical horsepower of a machine with a 150 n m torque value and 1500 rpm speed $power\ w\ 150\ n\ m\ 1500\ rpm\ 23\ 563\ watts$

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