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Calculation of V-Belt Tensions And Shaft Loads

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Belt Velocity. The velocity at which a belt travels may be expressed as. $v = \pi d m n / 12$ (2) where. v = velocity of belt (ft/min) n = revolutions motor (rpm) - or alternatively in metric units: $v_b = \pi d m n / 60$ (2b) where. v_b = velocity of belt (m/s) d = diameter motor pulley (m)

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Belt Transmissions - Length and Speed of Belt

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