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

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Formula: 1) $P = V (F 1 - F 2) / 1000 2)$ Ratio of effective tension in tight side & slack side of belt $F 1 / F 2 = e \mu \theta 3)$ Centrifugal tension $(F c) = m V 2 4) F 1 =$ Allowable tension $(F t1) -$ centrifugal tension $(F c) 1) F 1 / F 2 = e \mu \theta$ Substituting the given values we get, $F 1 / F 2 = 3.490 F 1 = 320 N \& F 2 = 91.69 N 2) P = V(F 1 - F 2) / 1000$

V-belts trump flat belts with their small center distances and high reduction ratios. The preferred center distance is larger than the largest pulley diameter, but less than three times the sum of both pulleys. Optimal speed range is 1,000-7,000 ft/min (300-2,130 m/min). V-belts need larger pulleys for their thicker cross-section than flat belts.

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A horizontal conveyor belt moves with a constant velocity `V.A` small block is projected with a velocity of `6m/s` on it in a direction opposite to the direction of motion of the belt The block comes to rest relative to the belt in a time `4s. mu =0.3, g =10 .m//s^(2)` Find `V` .

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