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Question:

Compare cross belt drive and open belt drive on the basis of -

(i) Velocity ratio

(ii) Direction of driven pulley

(iii) Application

(iv) Length of belt drive

Answer:

Sr. no.	Parameters	Cross belt drive	Open belt drive
1	Velocity ratio	High velocity ratio	Low velocity ratio
2	Direction of driven pulley	Rotated in same direction as the driving pulley	Rotated in the opposite direction to the driving pulley
3	Application	Sawmills, buck saws	Conveyors, electrical generator
4	Length of belt drive	$L = \Pi(r_1 + r_2) + 2C + \frac{(r_1 - r_2)^2}{C}$	$L = \Pi(r_1 + r_2) + 2C + \frac{(r_1 + r_2)^2}{C}$

