Mechanism	Pros	Cons
Belt	• Cost Effective • Simple to Use • Jam Protection • Low noise and vibration • Low Maintenance cost • Simple manufacturing complexity	• Not compact • Fastest wear and tear • Inflicts heavy load on shaft • Angular velocity not constant, which leads to slipping
Chain Link	• No slipping • Constant angular velocity • Low maintenance cost • High transmission efficiency • Lower load on shaft than belt • More power and efficient than belt • Simple manufacturing complexity	• Higher installation and production cost than belt • Noisy and causes vibrations • Requires lubrication • Driving and driven shafts must be perfectly aligned • Wear and tear
Gear	• Best for short distances • No slipping • Constant angular velocity • Mechanically strong • High transmission efficiency • Most compact • Longest life	• Not ideal for large velocities • Needs lubrication • Heavy • Noise and vibration at high speed • Complicated manufacturing complexity • Costs the most and maintenance cost is highest (requires precision alignment)
4-Bar Parallelogra	• .	• Not very structurally stable • No tolerances since lengths

m Linkage		have to be exact or else mechanism will reciprocate or jam • Can deadlock when parallel