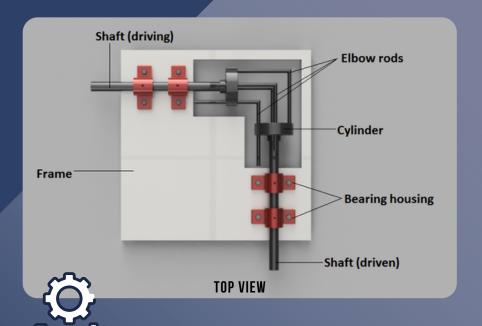




GEARLESS POWER TRANSMISSION USING ELBOW ROD MECHANISM



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TO ACCESS OUR FINAL PRESENTATION AND VIDEO DEMONSTRATION

SKIP THE GEARS, KEEP IT MOVING!

OBJECTIVE

TO TRANSMIT POWER BETWEEN PERPENDICULAR SHAFTS WITHOUT USING GEARS, BY EMPLOYING A SIMPLE ELBOW ROD LINKAGE THAT REDUCES NOISE, GEAR MAINTENANCE, AND COMPLEXITY.

WORKING PRINCIPLE

THREE RODS CONNECTED THROUGH ELBOW JOINTS CONVERT ROTARY MOTION FROM AN INPUT SHAFT TO AN OUTPUT SHAFT AT 90° USING CYCLIC CRANK MOTION, ALLOWING CONTINUOUS AND SMOOTH GEARLESS TRANSMISSION.

ADVANTAGES

- ELIMINATES GEAR MESHING AND BACKLASH
- REDUCES MANUFACTURING AND OPERATIONAL COST
- REQUIRES LOWER MAINTENANCE
- USED MAJORLY FOR LOW TORQUE TRANSMISSION



ABHISHEK GHOSH - ME21BTECH11001

ADITYA VERMA - ME21BTECH11002

HARSHIT SHAMBHARKAR - ME21BTECH11019

C. BHARATH - ME21BTECH11012

LOUKIK KALBANDE - ME21BTECH11028