High Level Tennis Ball Serving Machine

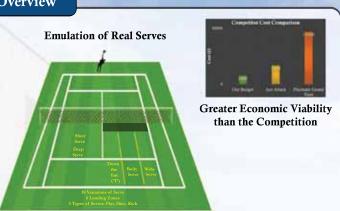


Dayann CJ Mehdi Harees Hamza Jamshaid Yang Khor

Supervisor: Dr Wojcik

Overview

Ball Delivery



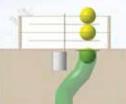


Out-of-phase Rotating Plates
1 Ball Delivery
Adjustable Rate of Delivery

Nasser Sabbagh

Configured to Avoid Blockages

Flexible Hose Allows Ball to be Fed at All Orientations



Housing

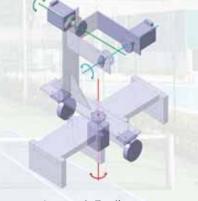
6 Panel Structural Design



Enlarged Exit Hole: Avoids Inteference With Ball Upon Release

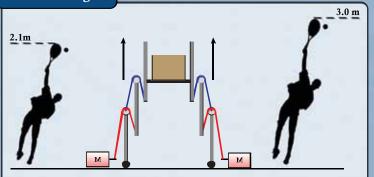






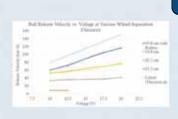
Accurately Replicate:
1) Depth (Blue)
2) Direction (Red)
3) Spin (Green)
Found in Real Life Serves

Variable Height



- Desired Release Height Range: 2.1m 3.0m
 - Promotes Portability
 - Stable
 - Retractable

Release Mechanism



Imparts Impulse onto Tennis Ball

Speed Controlled by Wheel Rotation (RPM)

Voltage proportional to RPM

Reduction of Wheel Seperation Distance increases speed Application of Rubber increases speed

