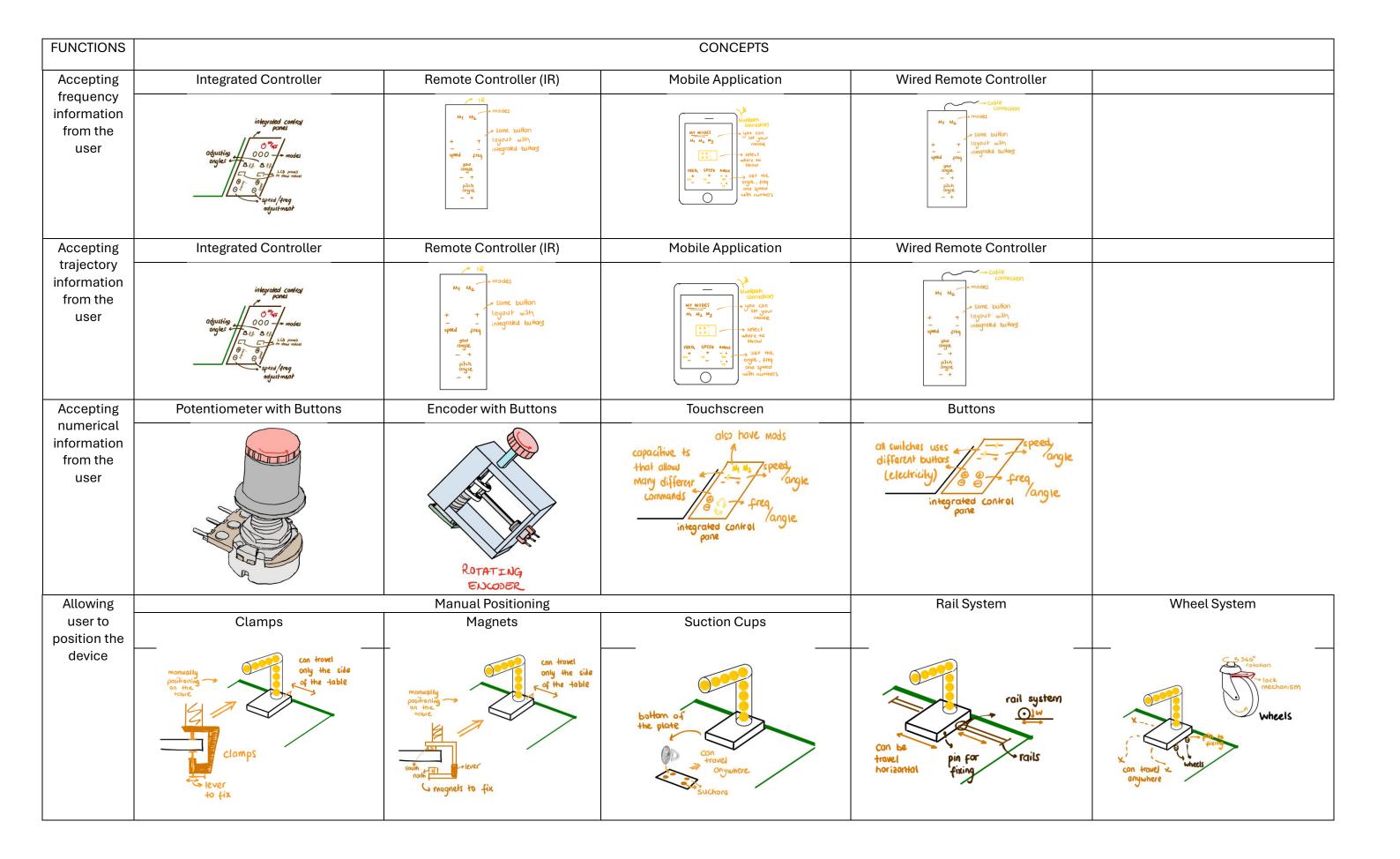
FUNCTIONS	CONCEPTS					
Giving spin to the ball	2 Wheels and Spinning Head	3 Wheels	4 Wheels	2 Tension Belt with spinning head	Small Ledges with Friction pad	
	Autor de Caracter	tront view	disks motors rotating direction disks rotors	Belt Report of the state of the	anal ledges Aroll view Aroll ledges Aroll ledges Aroll ledges	
Giving speed to the ball	2 Wheels and Spinning Head	3 Wheels	4 Wheels	2 Tension Belt with spinning head	Throwing with propeller/paddle	Hammer
	Annu qualitation of the state o	molor molor molor molor molor molor molor molor molor molors	rotating direction Atom view	Belt Maries Mari	rotairy motor discussed states and states and states are states and states and states are states are states and states are states are states and states are states are states are states and states are states ar	side view rataling honner arm
Giving pitch		Gear		Four bar	Rope-Controlled Head	
angle to the launching	Gear	Single worm gear	Bevel gear		Pulley	
mechanism	pitch motor to make a spin angle side view	rotating directions directions worm gear	front view rotating direction bevel gear pairs	pild rotation and rotation and rotation wiew	adjusting pitch angle pulley mechanism	
Giving yaw angle to the		G	ear		Four bar	
launching	Gear 1	Gear 2	Worm gear	Bevel gear	-	
mechanism	adjusting you ongle good of the chain gent of th	adjusting your angle following the control of the c	consent gear Molor directions warm gear Molor view adjusting your argue	rotating bevel gear pairs pairs front view	top view	



FUNCTIONS	CONCEPTS					
Preventing	Net	Spherical Wall	Wipers			
balls from escaping	front supporting the to calch boils fixing bar to street the net mounting point	not very portable structure tets every ball keep inside connection points	storing place wipers			
Storing the balls	Вох	Tunnel - Closed Tube	Groove	Gravity Funnel		
	TABLE	long spiral tube	elastic baild materal for easy to #H 100+ balls	gravity furnel easy to til 100t talls open-close door mech. ground connection		
Transferring balls to	Slider Crank	Maltese Wheel 2	Rotating Pusher	Gravity		
launch	slider crank example	STORAGE TABLE	TABLE	STORAGE TABLE		
Giving the balls desired	Slider Crank	Maltese Wheel 2	Rotating Pusher	Lid Mechanism	Hinge Mechanism	Rotating Hole
frequency	slider crank example	MATOR Of wheel shaft is fixed to the body.	TABLE	Frequency is controlled by the opening or closing the lid.	mattere wheel the ball to come a	An - Falabing disk.
Transferring the balls	Maltese Wheel 1	Spiral Lift	Translating Box	Belt Mechanism		
from storage	STORAGE TABLE S TORAGE	STORAGE	SLIDER CRANK TABLE	ball one way entry belt motors		

FUNCTIONS	CONCEPTS			
Controlling the spin of the ball	DC Retar Cails Commutator Brushes Jhaft Magnets	BLDC Hall Sensor oriented into the page Rotational axis Coil Magnet		
Controlling the speed of the ball	DC Rotar Coils Commutator Brushes Stator Magnets	BLDC Hall Sensor oriented into the page Hall Sensor oriented into the page Rotational oxis Coil Magnet		
Controlling the yaw angle	Servo Flechric Motor Worn gear for Gear Helical Gear Staff Staff January Jan	Stepper Frame Insulation Stater Permanent Magnet Shatter Shatter Retor 1		
Controlling the pitch angle	Servo **Steckrice Mohar** **Warnin gear** **Of Gear** **State of Gear** **Joseph Gear*	Stepper Frame Insulation Stator Permanent Magnet Shatt		

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Controlling	DC	Stepper _	
the ball feed	Rotor coils Commutator	Frame Insulation	
for storage	Brushes	winding	
	Jhat+	Stator	
		Permanent Magnet	
		Rotor 1	
		Searing Searing	
	Stator Mognets	3na++	
Controlling	Stepper _		
the ball feed	Frame Insulation		
for	winding		
launching			
	Stator		
	Permanent Magnet		
	Notor 1		
	Shall Searing		
Controlling	Stepper _		
the ball	Frame Insulation		
frequency	winding		
	Stator		
	Magnet		
	Rotor 1		
	6 earing		
	snatt - same		