

FUNCTIONS	CONCEPTS								
Throwing the balls with a desired spin	Pressurized Air	2 Wheels and Spinning Head	3 Wheels	4 Wheels	Small Ledges	Belt	Friction Surface	Arm with differable hit point	
Throwing the balls with a desired speed	Throwing by Disc	Throwing with propeller/paddle	Throwing By Spring	Slider-crank	Pneumatic	Hydraulic	Hammer	Belt	
Throwing the balls with a desired yaw angle	Gear				Dual slider crank	Four bar			
	Gear 1	Gear 2	Single worm gear	Bevel gear					
Throwing the balls with a desired pitch angle	Gear			Four bar	Rope-Controlled Head	Dual slider crank			
	Gear	Double worm gear	Bevel gear						
Accepting frequency information from the user	Integrated Remote				Remote (IR)	Mobile Application	Wired Remote		
	Potentiometer	Encoder	Touchscreen	Buttons					

Accepting trajectory information from the user	Manual Switch	Integrated Remote			Syringe-Piston	Remote (IR)	Mobile Application	Wired Remote					
		Potentiometer	Buttons	Touchscreen									
Allowing user to position the device	Manual Positioning			Rail System	Wheel System								
	Clamps	Magnets	Suction Cups										
Catching the balls	Net	Air Flow	Electromagnetic Field	Wipers	Keeper Glove								
Storing the balls	Box	Tunnel - Closed Tube	Groove	Magazine Mechanism	Gravity Funnel								
Feeding the balls with a desired frequency	Maltese Wheel 1	Maltese Wheel 2	Slider Crank	Wiper Sweep	Hydraulic Piston	Spiral Lift	Rotating Hole	Belt Mechanism	Lid Mechanism				

Throwing the balls with a desired spin	Basınçlı hava	2 teker ve kafa dönen	3 teker (120 derece)	4 teker (90 derece)	Çentik	Belt	Sürtünmeli Yüzey	Vurduğu yer değişken kol	
Throwing the balls with a desired speed	Diskle fırlatma	Çarkla fırlatma	Yay ile fırlatma	Slider crank	Pnömatik	Hidrolik	Hammer	Belt	Elektromanyetik itme
Throwing the balls with a desired yaw angle	Gear				Dual slider crank	Four bar			
	Gear	Gear	Double worm gear	Bevel gear					
Throwing the balls with a desired pitch angle	Gear			Four bar	İple kafayı kaldırma	Dual slider crank	Hidrolik kaldırıcıç		
	Gear	Single worm gear	Bevel gear						
Accepting frequency information from the user	Entegre Kumanda				Uzaktan Kumanda (IR)	Mobile Application	Kablolu kumanda		
	Potansiyometre	Encoder	Touchscreen	Butonlar					
Accepting trajectory	Manuel çitçit	Entegre Kumanda			Şırınga-piston	Uzaktan Kumanda (IR)	Mobile Application	Kablolu kumanda	
		Potansiyometre	Butonlar	Touchscreen					

