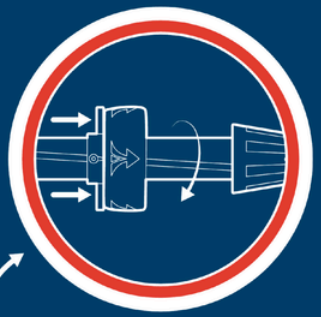
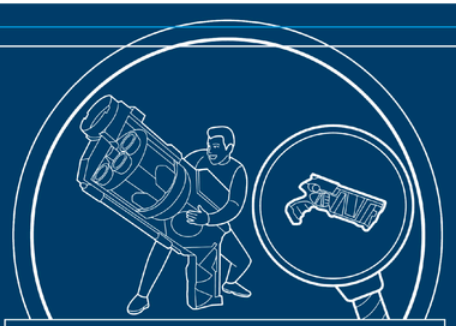
CRUNCH LABS ©MARK ROBER

HOVER RING BLASTER

HELIX

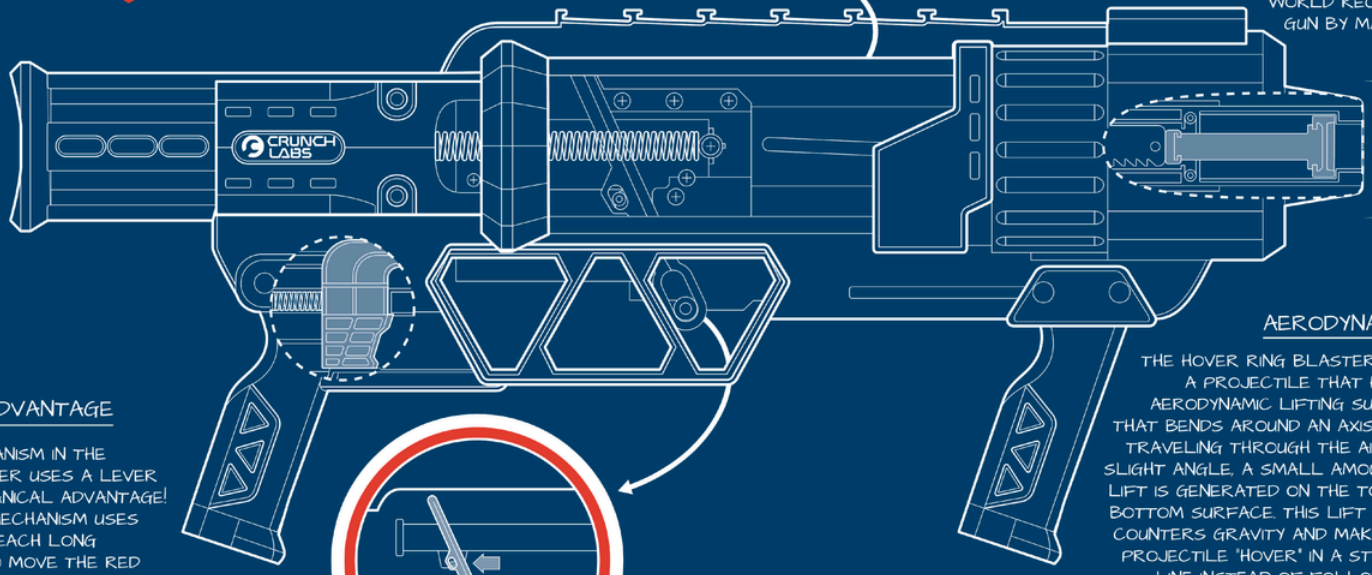
THE CARRIAGE THAT HOLDS THE AMMO FOLLOWS A HELICAL PATH AS IT TRAVELS FORWARD. THIS MEANS THAT IT TWISTS AS IT FIRES, GIVING THE PROJECTILE SPIN. IN THE SAME WAY THAT SPIRALING A FOOTBALL HELPS IT STAY POINTED FORWARD, SPIN IS ESSENTIAL TO THE PROJECTILE STAYING STABLE AS IT FLIES THROUGH THE AIR.





MARK'S WORLD RECORDS

MARK ROBER IS NO STRANGER TO SHOW-STOPPING PROJECTILES! AFTER SNAGGING THE RECORD FOR THE WORLD'S LARGEST DART GUN IN 2016, MARK SET THE WORLD RECORD FOR THE WORLDS SMALLEST DART GUN BY MAKING ONE OUT OF CARBON NANOTUBES.



MECHANICAL ADVANTAGE

THE PRIMING MECHANISM IN THE HOVER RING BLASTER USES A LEVER TO GIVE YOU MECHANICAL ADVANTAGE! THE BLUE LEVER MECHANISM USES THE FORCE FROM EACH LONG PUMPING ACTION TO MOVE THE RED CARRIAGE BACK A SHORT DISTANCE. THIS MEANS YOU CAN STORE TWICE AS MUCH POWER IN THE SPRINGS BEFORE YOU FIRE!

AERODYNAMICS

THE HOVER RING BLASTER FIRES A PROJECTILE THAT HAS AN AERODYNAMIC LIFTING SURFACE THAT BENDS AROUND AN AXIS. WHEN TRAVELING THROUGH THE AIR AT A SLIGHT ANGLE, A SMALL AMOUNT OF LIFT IS GENERATED ON THE TOP AND BOTTOM SURFACE. THIS LIFT FORCE COUNTERS GRAVITY AND MAKES THE PROJECTILE "HOVER" IN A STRAIGHT LINE INSTEAD OF FOLLOWING A NORMAL PROJECTILE ARC.



WATCH MARK EXPLAIN THE SCIENCE!

PARENTAL CONSENT REQUIRED BEFORE GOING ONLINE

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HOVER RING BLASTER