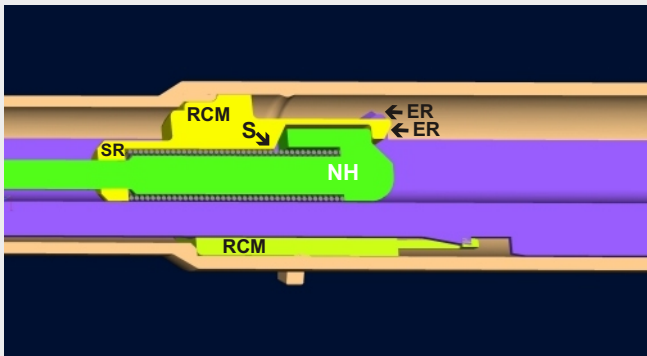
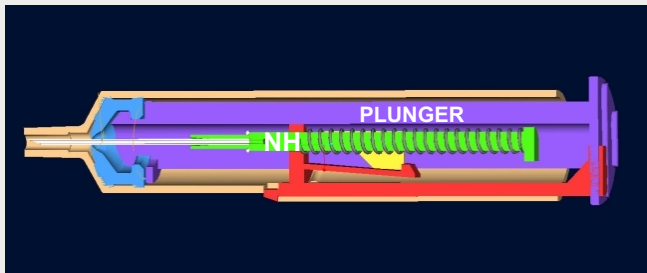


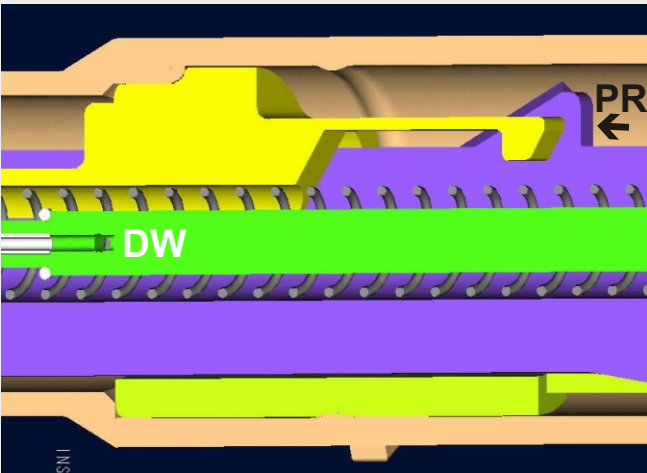
# Unique **Smart Syringe**™ Design Features:



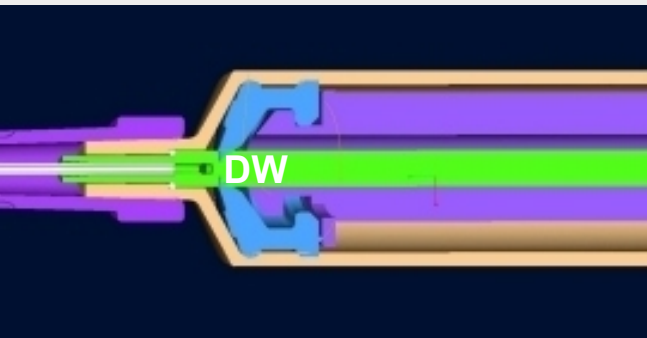
1. The Retraction Control Module (RCM) that consists of the Spring Retainer (SR), the Spring (S), and the Engagement Ramps (ER) that hold the needle holder is locked between two internal rings within the barrel to ensure tamper-proof functionality.



2. Retracted needle is lodged straight within the center of the plunger to eliminate the threat of barrel puncture.



3. Retraction mechanism is indexed to advance of the Plunger Ramps (PR) rather than to "O" ring displacement, that releases spring loaded needle; This eliminates the hydraulic pressure displacement of the "O" ring found in 3<sup>rd</sup> generation safety syringes.



4. The proximal end of the needle faces a dead wall (DW) rather than an air filled plunger cavity in order to avoid reactive aerosolization.