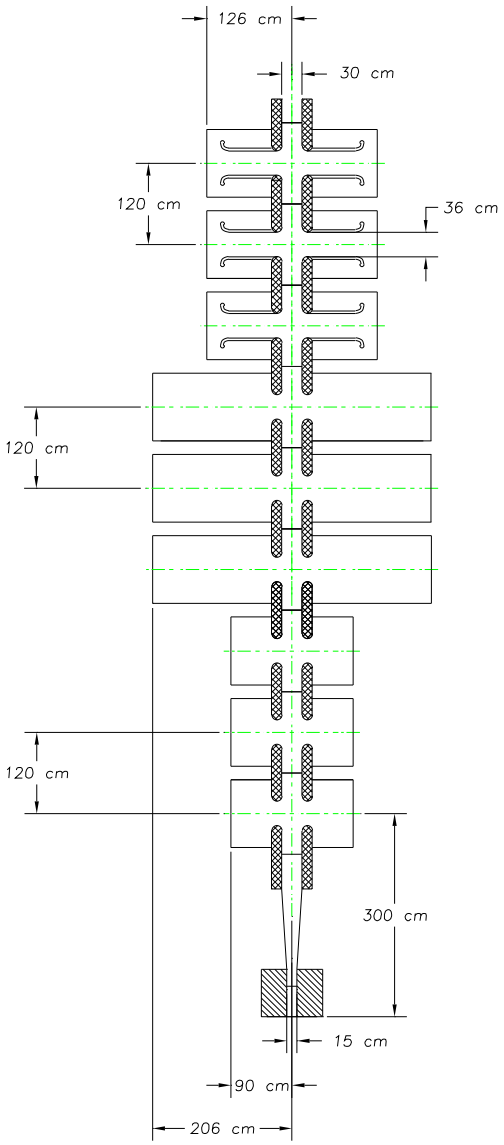Solenoids Inserts