Development of D2 Pellet Injectors

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A versatile extrusion-type pneumatic gun is described. The extrusion nozzle/gun barrel system can easily be exchanged to produce pellets in the diameter range 0.4—2.0 mm. Velocities in the range 0.1—1.35 km/s are obtained by adjusting the propeller gas pressure. It is proposed that this gun type can be used for larger pellets of 3.2 mm diameter as well and to accelerate such pellets by means of a high-pressure discharge.