

RED DRAGON™ (PATENT PENDING)

The low-maintenance Red Dragon combines consistent reliability with operating performance. Using smaller diameter spheres (Dragon Eggs) with increased hopper capacity, the productivity of this machine remains unmatched by any other approved plastic sphere dispenser (PSD). Features such as quick purge, on the fly variable speed dispensing and lightweight, ergonomic design gives the Red Dragon unparalleled safety and performance.

The Red Dragon is controlled using a remote, seven-speed tether which allows the machine to adjust to the helicopter speed, rather than having the helicopter adjust to the PSD drop rate. This enables placement of Dragon Eggs in perfect concentration levels according to the terrain and the Rx burn plan.

The Red Dragon is approved for use in the US by the National Interagency Aerial Ignition Working Group.



GREEN DRAGON™ (PATENT PENDING)

The Green Dragon is an automated ground launcher designed and engineered for use in forestry and wildfire management applications such as back burns or prescribed burning. It is a brand new concept for ground ignition applications using CO₂ as a propellant and a simple electrically driven reciprocating feed and firing system. The Green Dragon allows operators to control both range and speed delivery of Dragon Eggs, offering a range of 4 speeds capable of delivering up to 32 Dragon Eggs per minute. The machine mounts can be adjusted for both azimuth and elevation, allowing the operator to shoot spheres up to 225 feet (70 metres) in a 180° radius.

Successful alpha-test field trials were conducted in the US with several agencies evaluating the performance of the Green Dragon. It was used as part of a burn plan on a wildfire in British Columbia, Canada, during the 2009 fire season. In each test, the Green Dragon's performance exceeded expectations. Beta-testings will continue through 2009 with anticipated product launch in 2010.

Utilizing the same Dragon Egg ignition spheres as the helicopter-deployed Red Dragon and the Pyroshot handlauncher. The Green Dragon can be successfully mounted on several ground-based platforms including trucks, boats, ATVs and UTVs.



NEW GENERATION AERIAL IGNITION DEVICE



Increased hopper capacity provides more cost effective burning



Excellent ignition reliability and consistent burning results

- Variable dispense rate from 25 – 175 eggs per minute
- Quick purge system for maximum safety
- Low maintenance for sustained operation
- Smaller size PSD frees up more room inside aircraft
- Variable speed settings – change on the fly
- No need to adjust glycol level

Photography by Jeff Schardt – Red Dragon testing at Merritt Island, Florida in 2007

EASILY MOUNTED TO MOBILE PLATFORMS



ATV



UTV



AIRBOAT



TRUCK

ENTER THE DRAGON

SEI INDUSTRIES' DRAGON PRODUCT LINE

The Dragon Division of SEI Industries Ltd. was born in 2003 with the concept of developing an improved Aerial Ignition Device (AID). Co-developed with Field Support Services, the Dragon Division products aim to introduce to the end-user a series of ignition dispensers that simplify the task of prescribed burning/back-burning, while allowing for improved efficiency – setting the highest standards in operator safety. Dragon Eggs represent a scientific advancement to the outdated plastic spheres of the past, improving consistency, reliability and burning dynamics.

From the Dragon Egg concept hatched the Red Dragon, a vastly improved Plastic Sphere Dispenser (PSD). The advantages of Dragon Eggs were quickly realized by other fire ignition product developers such as Field Support Services. FSS introduced the revolutionary Pyro Shot handheld launcher, dispensing Dragon Eggs with excellent precision. A second generation Pyroshot HS offers a regulated gas powered option launching spheres up to 300 feet (90 metres).

In 2009, the Green Dragon was introduced; an automated ground ignition launcher that is a fully automated PSD machine incorporating upgraded technology and user-friendly features providing a broader range of burning capability while improving safety and performance in the field. The Green Dragon tool is intended to supplement ground drip torch and aerial burning applications.

SEI Dragon Division continually strives to generate new and innovative products that maximize productivity and efficiencies, while improving safety for the end-users in the ignition industry.



*Pyroshot
handlauncher*

DRAGON EGG™

AERODYNAMICS

Dragon Eggs have a 10% higher drop velocity compared to other plastic spheres. This advantage increases drop accuracy in all types of wind conditions and improves forest canopy penetration.



COLOR

Dragon Eggs are easy to spot in most fuel types and ground cover environment due to their high-contrast colors.

SIZE (ACTUAL SIZE 1")

Dragon Eggs are half the size of existing plastic sphere technology. This uniquely compact size allows for increased hopper capacity, resulting in longer mission times for both the Red and Green Dragons.

POTASSIUM PERMANGANATE

Extensive tests have shown that the high grade quality potassium permanganate in the Dragon Eggs achieve 100% ignition reliability. The total combustion time, following ignition, is approximately 80 seconds.



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DRAGON

FIRE IGNITION PRODUCTS

DRAGON EGGS • RED DRAGON
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