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# Steel Eagle™

Flying and powerful  
fragmentation charge

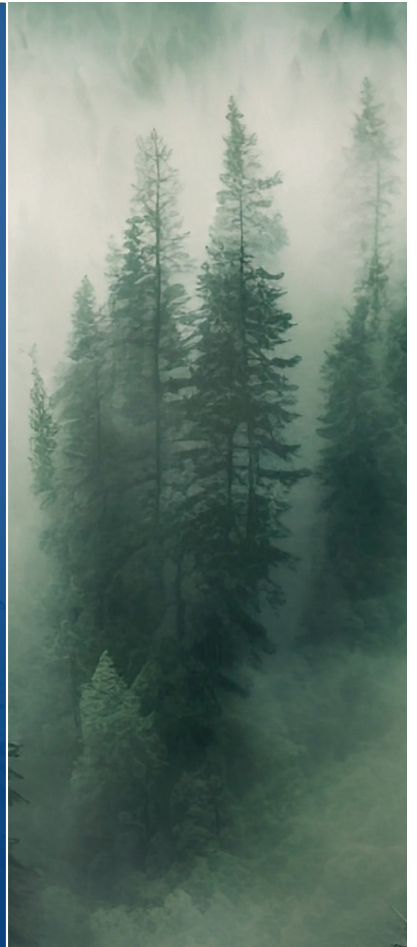
UNIQUE



PATENTED



EFFECTIVE



## STEEL EAGLE™ - FLYING AND POWERFUL FRAGMENTATION CHARGE

Unmanned solutions offer new opportunities to have an influence on the battlefield. Insta has developed an innovative concept, including a unique payload and drone, together with Nordic Drones. The concept supports active defence tactics.

With the help of the drone, the unique and patented charge can be transported above the desired target and launched. The solution provides for the more flexible targeting of the weapon effect on the desired target. The combination is capable of an effective, directionally based impact and is extremely accurate against soft and light armored targets.

The drone is simple to operate and capable of carrying payloads of different weights (ranging from 0.1 kg to 3.8 kg) depending on whether the target is armored.

The solution has been thoroughly tested and works in demanding conditions.



### MAXIMUM EFFECTIVITY - ACCURATE DIRECTIONALLY BASED IMPACT

- The charge kinetic power is based on the fragmentation effect.
- The charge comprises 3,000 projectiles with its impacting radius covering a 2000 m<sup>2</sup> area (1.5 projectiles/m<sup>2</sup>), which is 1/3 the size of a football stadium.
- Steel fragment with a 3.7 mm diameter penetrates over 2 mm steel.
- Tungsten fragment with a 3.7 mm diameter penetrates over 5 mm steel.
- Use of the Insensitive Munition (IM) makes the charge safe to fire, handle, store, and transport.

### TECHNICAL SPECIFICATIONS OF THE CHARGE

Weight:	3.6 kg
Dimensions (DxH):	24x11.4 cm
Projectiles (number):	3,000
Impact range:	2000 m <sup>2</sup> (1,5 projectiles/m <sup>2</sup> )
Fragmentation effect:	Scalable
Opening angle:	>90°
Type of fragment:	Steel/Tungsten. Can be modified.
Fragment diameter:	3.7 mm
Maximal effectivity:	The charge is over 4 times more effective than a 120 mm traditional mortar.



### TECHNICAL SPECIFICATIONS OF THE DRONE

Empty weight:	2 kg
Battery weight:	0.7 kg
MTOW:	6.5 kg
Payload weight:	0.1-3.8 kg
Dimensions (LxWxH):	62 x 62 x 31 cm (without propellers)
Diameters with propellers:	124.5 cm
Max. speed:	17 m/s ATTI flight mode 12 m/s GPS flight mode
Max. wind conditions:	15 m/s
Operating temperature:	-20°C...+40°C
Assembly time:	2 min.
Flight time (MTOW):	Max. 7.5 min.
Range:	~ 6 km
Sensors:	2mpx starlight, 0,001lux vis, 0,0001 bw, F1.2 Lidar Lite V3
Radio controller:	Pre-program capability for multiple OWS platforms. The next platform can be in the air approx. in 2 min.

