

# Kamikaze drones strike Ukraine

Russia has been blamed for using “kamikaze drones” to attack Kyiv and other cities in Ukraine. The small, slow-flying weapons are used to strike targets by crashing into them

**SHAHED-136:** Ukraine accuses Russia of using Iranian-made suicide drones

**Engine:** 50-horsepower motor drives two-bladed propeller

Stabilising rudders

Delta wing configuration

Weight  
**200kg**

Speed  
**185km/h**

Claimed flight range  
**1,000km**

**Multiple launch truck**

Drones fired in batches of five from racks inside truck-mounted container

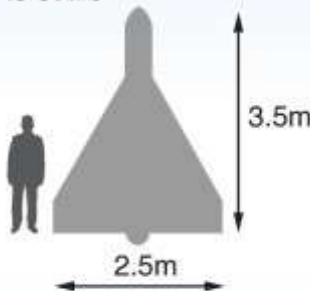
Warhead weight  
**40kg approx.**

**Guidance**

Drone can be programmed to fly automatically to set of GPS coordinates with payload of explosives

Target must be stationary

*Drone and human to scale*





# Drones over Ukraine: Death in different sizes

Iranian Shahed-136 drones can loiter over areas for hours until their cameras identify a target and the drone drops on it like a bomb. The Russians are using these weapons to devastating effect without risk to their troops.

## SHAHED-136 (IRAN)

**Length:** 11 feet

**Max. speed:** 115 mph

**Approx. weight:**  
440 pounds

**Range:** About 1,100-1,500 miles

Nose contains explosive warhead as well as cameras

But the Iranian drones are bigger, noisier and reportedly easier to shoot down than the tiny Switchblade 300s the U.S. is supplying to Ukraine.

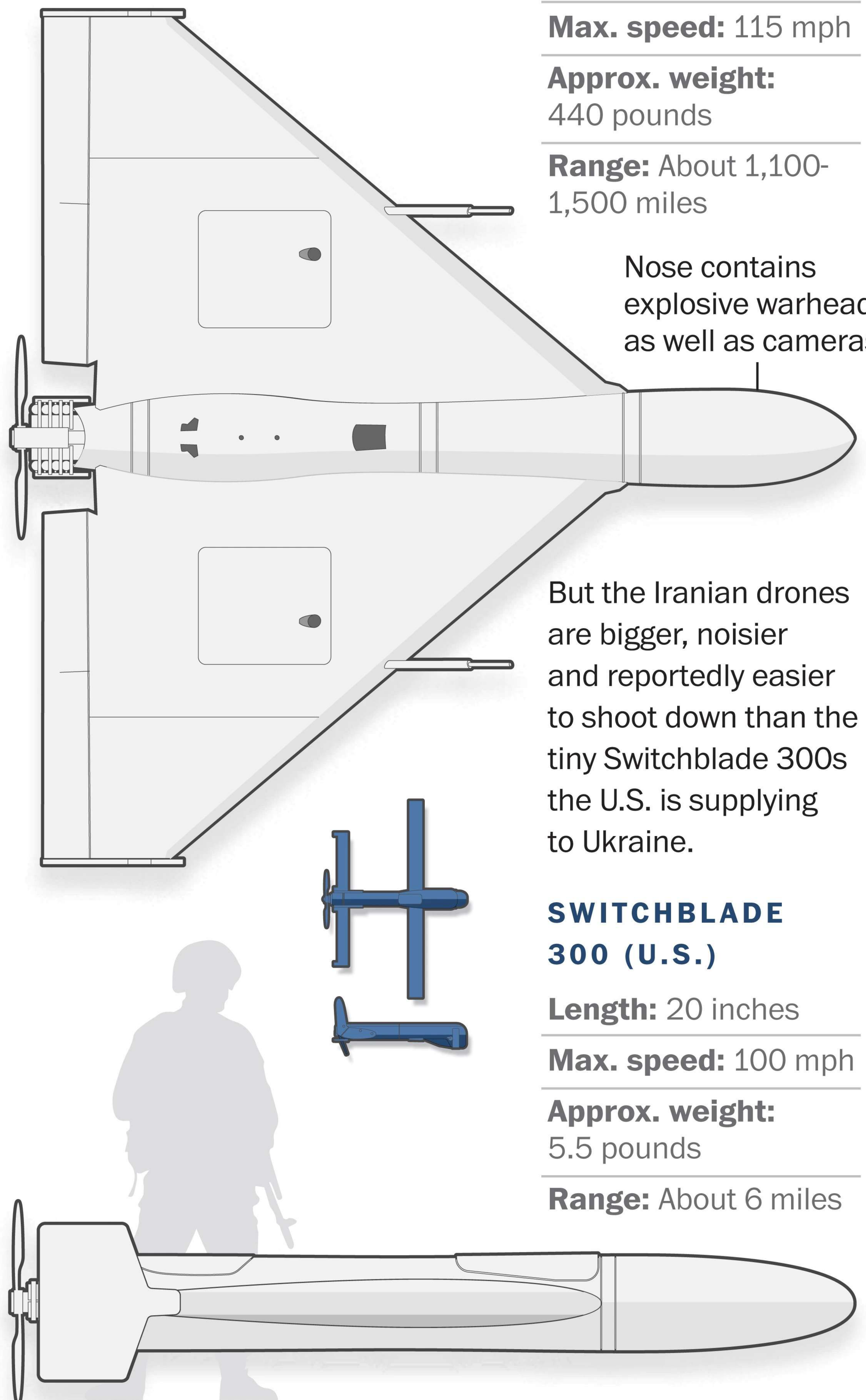
## SWITCHBLADE 300 (U.S.)

**Length:** 20 inches

**Max. speed:** 100 mph

**Approx. weight:**  
5.5 pounds

**Range:** About 6 miles



Sources: Defense Express, AeroVironment

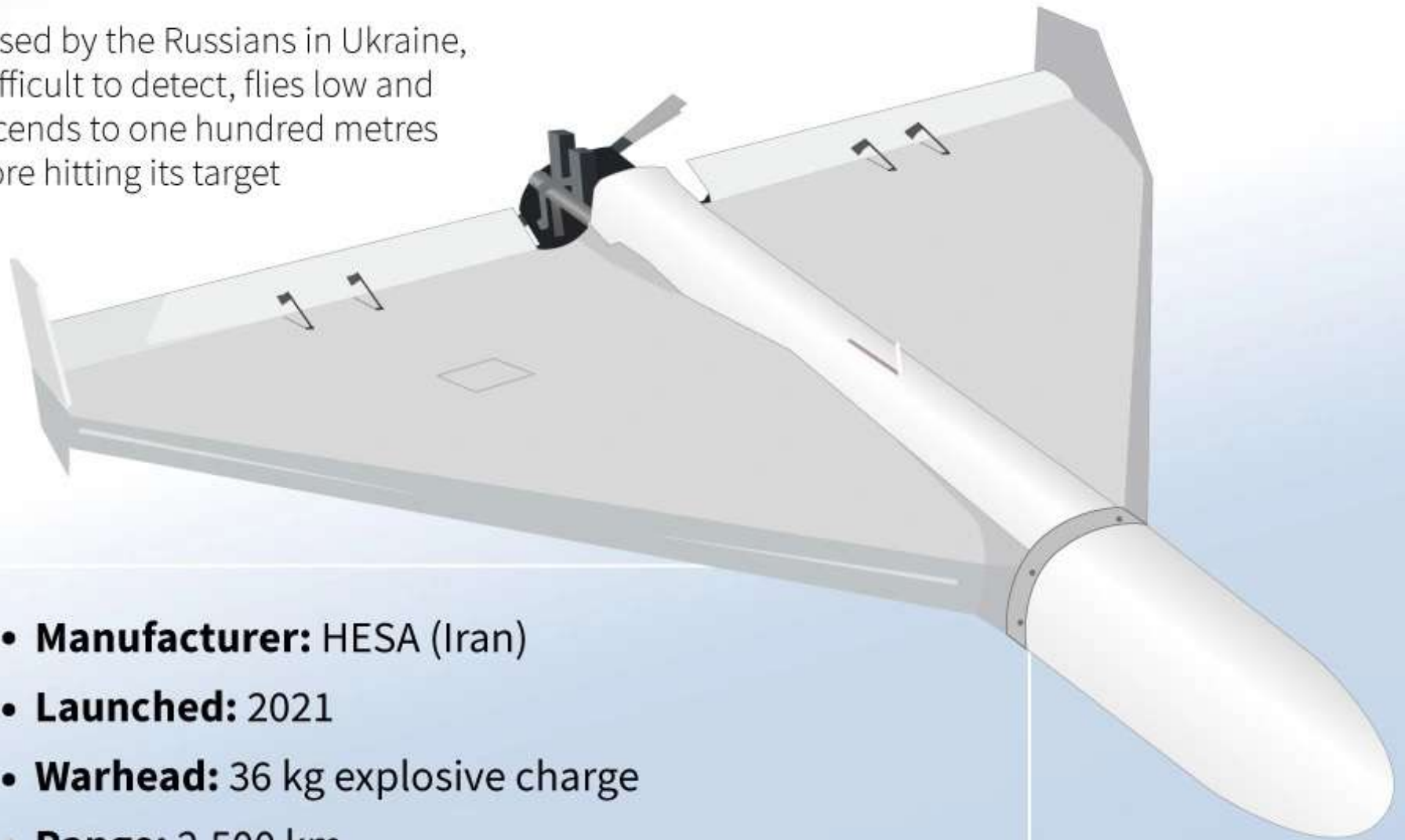
WILLIAM NEFF/THE WASHINGTON POST



# Iranian drone Shahed 136

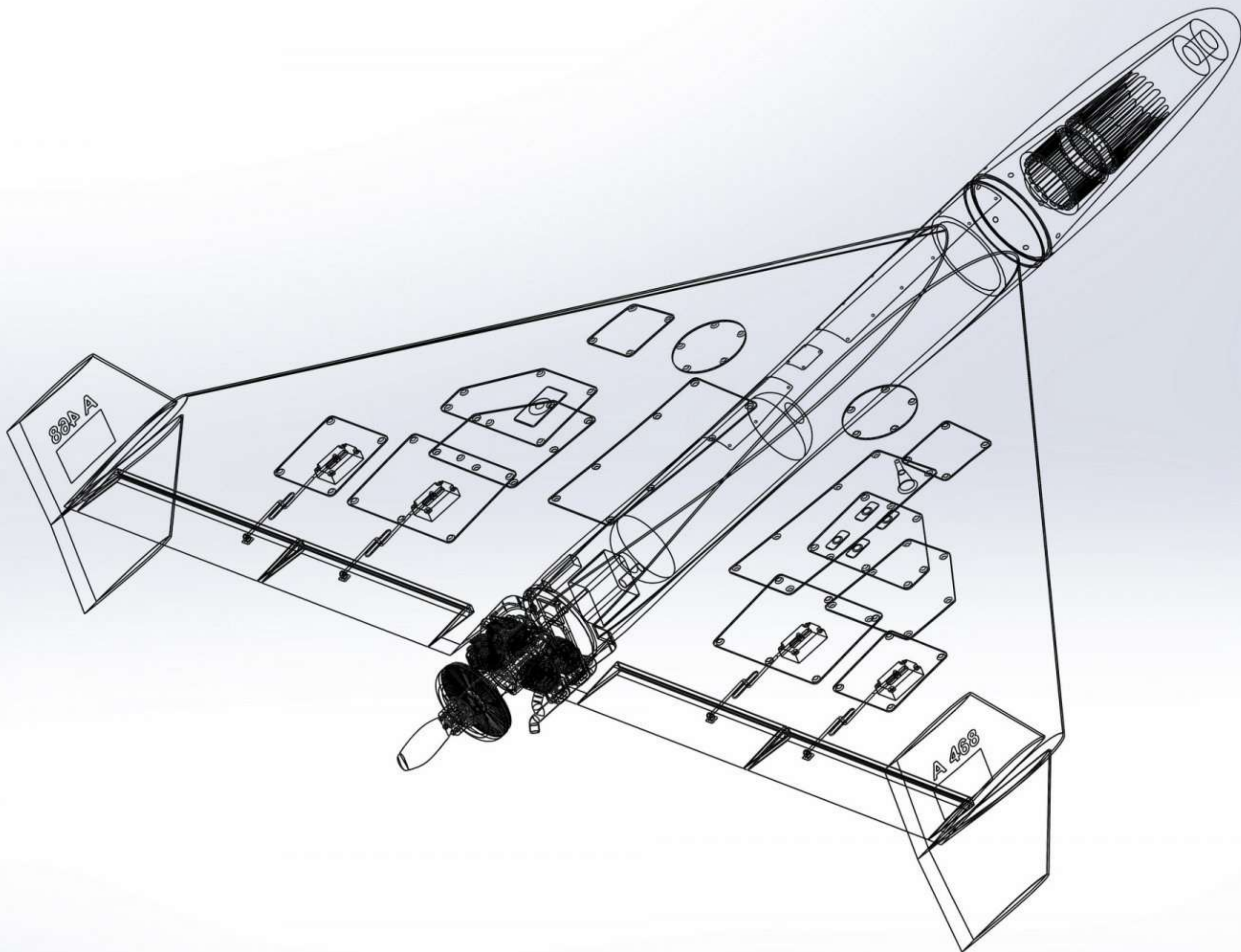
## A long-range suicide drone for hitting fixed targets

Utilised by the Russians in Ukraine, is difficult to detect, flies low and descends to one hundred metres before hitting its target



- **Manufacturer:** HESA (Iran)
- **Launched:** 2021
- **Warhead:** 36 kg explosive charge
- **Range:** 2,500 km
- **Maximum speed:** 185 km/h
- **Weight:** 200 kg

Length: 3.5 m  
Wingspan: 2.5 m



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Russian Ministry of Defense and Military Analysis





# SHAHED-136 (Geran-2)

**Length** - 12 feet

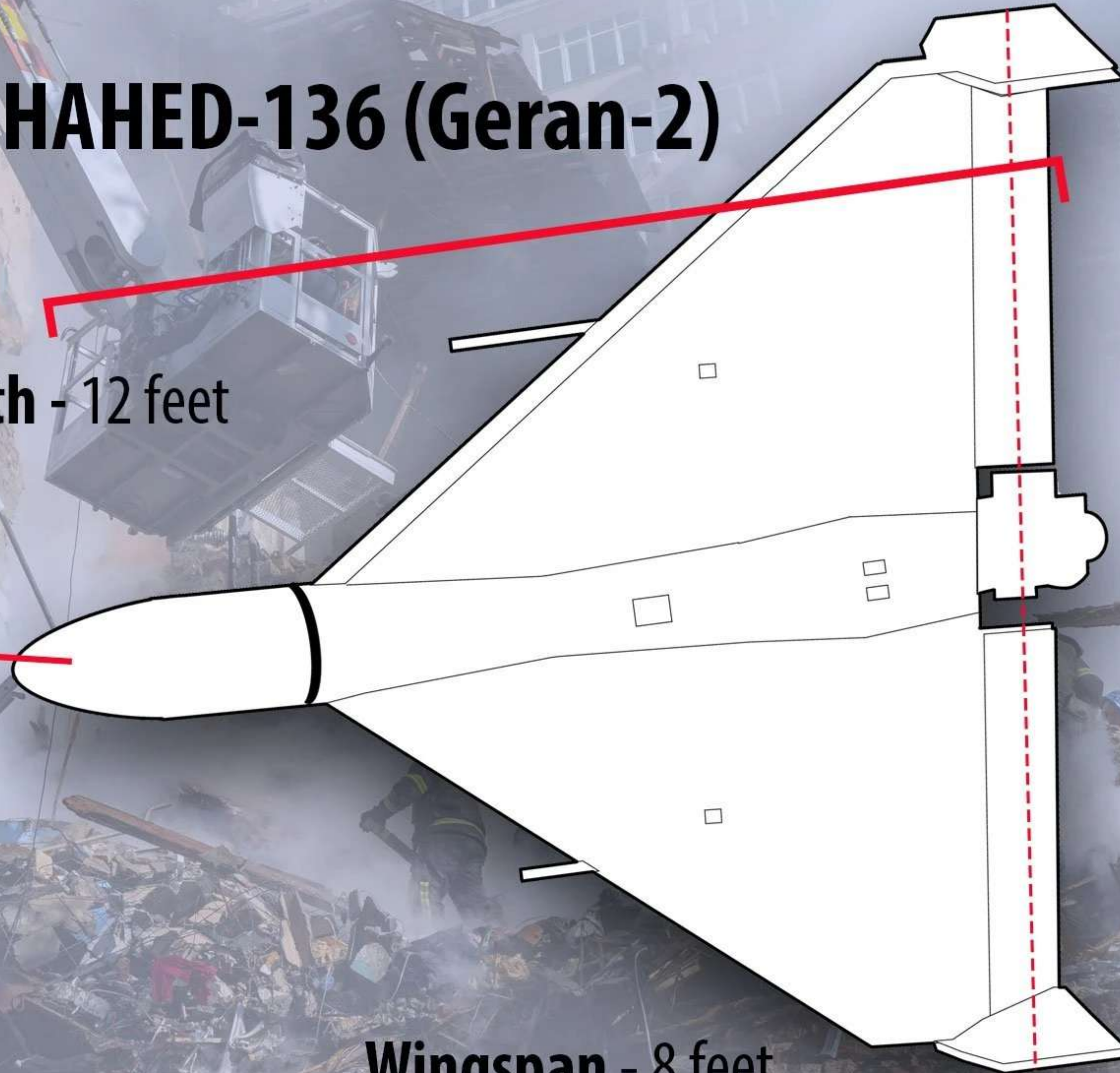
**Explosive Charge** - 40KG

**Range** - 600 miles

**Speed** - 120 miles per hour

**Cost** - \$20,000

**Wingspan** - 8 feet





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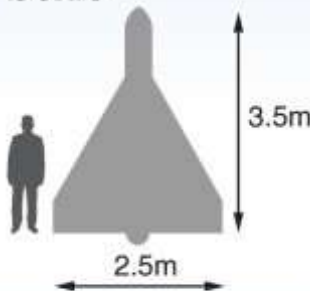
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# Shahed-136 drone

**Max range:** 1,550 miles  
(2,500km)

**Max speed:** 115 mph  
(185 kmph)

**Wingspan:** 8.2 ft (2.5m)

**Warhead weight:** 66-110 lb  
(30-50kg)





# Russia uses Iranian drones against Ukrainian civilians

In a war of attrition, cheaper weapons such as Iranian drones are effective.

**Length** 3.5 meters long (11.5 feet)

**Shahed-136 (Geran-2)**

**Explosive charge:** ~40 kg (88 pounds) compared with cruise missile's warhead which weighs 480 kg (1,050 pounds)

**Delta-wing:**

2.5 meters wide (8.2 feet)

Propeller and engine with a top speed of 185 kph (114 mph).

**Cost:** \$20,000 apiece. By comparison cruise missiles cost about \$1 million each.



# HESA SHAHED 136 ALSO KNOWN AS GERAN-2

