

# PRODUCT BROCHURE

## DRONE TECHNOLOGY



Phoenix Major, part of the Drone Major Group, delivers the next generation of unmanned capability—at speed, at scale, and where it matters most.

We are a specialist drone technology and consultancy company operating at the forefront of defence, security, and commercial innovation. Our strength lies in combining deep technical expertise, real-world operational experience, and global supply chain reach to create high-performance, deployable systems.

From advanced platform development and resilient navigation in contested environments to full system integration and scalable manufacturing, Drone Major operates across the entire lifecycle of unmanned systems—turning complexity into operational advantage.

We don't just design solutions—we deliver capability. Rapidly. Reliably. At scale.

## Reconnaissance & Mapping

### VTOL Fixed-Wing UAVs

#### AS SHADOW VIPER 10

A high-performance Fixed-Wing VTOL UAV combining the efficiency of fixed-wing flight with the flexibility of vertical take-off and landing. Designed for long-range inspection, mapping, and surveillance missions in demanding environments.



#### Mission Capabilities

- Vertical Take-Off & Landing – no runway required
- Efficient fixed-wing cruise for long-range coverage
- Stable hover for mid-mission target inspection
- High-resolution mapping: up to 4 km<sup>2</sup> @ 2 cm/pixel | up to 6 km<sup>2</sup> @ 3 cm/pixel
- PPK-enabled precision navigation (cm-level accuracy)
- 138-mile mission capability with 30% reserve

#### Ideal Applications

- Infrastructure inspection
- Corridor mapping (pipelines, roads, powerlines)
- Environmental monitoring
- Surveying & geospatial data collection
- Security & surveillance missions

#### KEY PERFORMANCE SPECIFICATIONS

- Maximum Takeoff Weight** 9.8 kg
- Maximum Payload Capacity** 2 kg
- Typical Payload** 650 g (gimbal camera)
- Endurance** Up to 192 minutes
- Maximum Range** Up to 138 miles (222 km)
- Cruising Speed** 75 km/h
- VTOL System** Quad-motor vertical lift
- Battery System** Dual 6S LiPo
- Operating Altitude** ≤ 1,000 ft AGL capable
- Operating Temperature** -30°C to +50°C
- Weather Resistance** IP55 rated
- Transport Case Dimensions** 108 × 35 × 48 cm

#### System & Logistics Features

- Tool-less assembly in under 30 minutes – single-operator deployment
- Modular dual payload system with quick-swap battery
- Optional parachute safety system, ADS-B & rangefinder integration
- Optional night operations (navigation & strobe lights)
- Battery pre-heating for cold climates; insulated transport system
- Energy-absorbing landing structure; redundant avionics architecture

## DT HUNTER-1 | DT UAVS

A very quiet electric reconnaissance UAV with vertical takeoff and landing (VTOL), featuring a fully automated autopilot system from takeoff to landing. Proven in combat operations in Ukraine. Graphene coating provides radar cross-section reduction.



### Sensor & Navigation Systems

- Safran inertial navigation + 8-channel CRPA antenna for GPS-denied operations
- Visual navigation – highly resistant to aggressive radio interference
- Target detection range: up to 10 km; coordinate transmission to operator up to 80 km
- Day and night precision target coordination with artillery systems
- Optional: FPV drone drop system or bombs with ballistic calculator

## Multi-Rotor Heavy Lift

### FPV Drones

#### K15-PRO FPV DRONE

Industrial / Professional Grade

A high-performance industrial-grade quadcopter featuring heavy payload capacity up to 10 kg, integrated dual-lens gimbal with thermal imaging, and AI-powered target recognition and tracking. Foldable design for rapid deployment.

### Intelligent Features

- AI Recognition and Dynamic Tracking (animals to 300 m, vehicles to 800 m)
- 20 km frequency-hopping anti-jamming image transmission system
- Route Planning, Finger Tap to Control Flight, One-Click Return to Base

### Flight Performance

- **Max Speed (GPS Mode):** ≈ 100 km/h
- **Max Speed (Altitude Hold):** ≈ 120 km/h
- **Total Flight Mileage:** ≈ 40 km
- **Location System:** GNSS Triple-Mode
- **RC Frequency Band:** 2400–2476 MHz / 5725–5829 MHz (Frequency Hopping)
- **Operating Temperature:** –10°C to +50°C

## KEY PERFORMANCE SPECIFICATIONS

**Maximum Takeoff Weight** 34 kg

**Maximum Payload Capacity** 10 kg

**Wingspan** 3,920 mm

**Length** 1,910 mm

**Speed** 80–140 km/h

**Maximum Flight Distance** Up to 400 km

**Maximum Flight Altitude** 4,500 m

**Control Range** Up to 80 km

**Flight Time** Up to 270 minutes

**Max Ascent / Descent Speed** 5 m/s

**Encryption** AES256

**Special Features** Graphene radar-absorbing coating

Specification	DF-20TL4K	DF-30TL	DF-30TRD	DF-30TRL
<b>Water resistance</b>	No	Yes	Yes	Yes
<b>Resolution</b>	3840×2160 / 8.5MP	1920×1080 / 2.13MP	1920×1080 / 2.13MP	1920×1080 / 4.17MP
<b>Optical Zoom</b>	20×	30×	30×	30×
<b>Vehicle Detection Range</b>	4,472 m	12,778 m	6,400 m	12,778 m
<b>Laser Designator</b>	–	–	25mj / 3 km	–
<b>Weight</b>	1,150 g	1,625 g	2,850 g	5,370 g



### PHYSICAL SPECIFICATIONS

**Diagonal Wheelbase** 680 mm

**Unfolded Dimensions** 565 × 520 × 125 mm

**Folded Dimensions** 220 × 430 × 125 mm

**Weight (excl. battery)** 3,100 g

**Maximum Payload** 10 kg

**Propellers** 15-inch 3-bladed folding self-locking

**Portability** Foldable arms and propellers

### Battery & Endurance

- **Load Condition:** Estimated Flight Time
- **No Payload (Hover):** ≈ 60 Minutes
- **With 3 kg Payload:** ≈ 30 Minutes
- **With 5 kg Payload:** ≈ 20 Minutes
- **With 10 kg Payload:** ≈ 11 Minutes
- **Battery:** 29.6V 8S 22,000 mAh Solid-State Battery
- **Energy Density:** ≥ 280 Wh/kg

# Reconnaissance & Mapping

## VTOL Fixed-Wing UAVs

### UBLS1

An all-weather, high-speed interceptor UAV purpose-built to detect, pursue, and destroy enemy combat drones including Shahed-136/Geran-2 and reconnaissance UAVs such as Orlan-10 and Zala. Detects targets using radar complexes and engages at up to 300 km/h. Optional AI integration for autonomous engagement.



#### Propulsion & Power

- **Engine Type:** Electromagnetic with 1 propeller
- **Max Engine Power:** 5,000 W
- **Input Voltage:** 50.4 V
- **Propeller:** 10 × 12 inches
- **Battery Type:** Li-Po replaceable, 11,000 mAh or more
- **Operating Voltage:** 51–53.5 V (6S)

#### Communications

- **Control Frequency:** FHSS 500–1023 MHz
- **Video Frequency:** 4.9–6.2 GHz (or upon request)
- **Communication Range:** ≥ 30 km
- **Targeting:** Manual or AI software

### KEY PERFORMANCE SPECIFICATIONS

- **Maximum Speed** 300 km/h
- **Cruising Speed** 120–140 km/h
- **Flight Time at Cruising Speed** 50 minutes
- **Flight Duration at Max Speed** ≤ 8 minutes
- **Maximum Flight Altitude** 5,000 m
- **Altitude Gain Rate** 30 m/s
- **Communication Range** ≥ 30 km
- **Payload** 1.0 kg (built-in to airframe)
- **Gross Weight (with payload)** ≤ 6 kg
- **Length** 980 mm
- **Wingspan** 1,420 mm

#### Thermal Camera (Night UAV)

- **Detection Type:** Non-cooled Vanadium Oxide
- **Resolution:** 640 × 512 @ 12 μm
- **Frequency Band:** 8–14 μm
- **NETD:** ≤ 40 mK @ F1 25°C
- **Frame Rate:** 25 Hz
- **Lens:** 640CA: F1.0 / 9.1 mm
- **Temperature Conditions:** –20°C to +80°C
- **Dimensions:** 35 × 29 × 34 mm
- **Weight:** 35 g

### DT INTERCEPTOR-4 | DT UAVS

A large-scale interceptor drone equipped with a Shahed-type UAV detection radar, electronic warfare suite, wing pylons for mounting six H20 JET cruise missiles or 30 electric interceptors, and machine guns with automatic target acquisition. Designed to destroy enemy UAVs at altitudes up to 8,000 m and a range of up to 200 km. Can also deploy cruise missiles and drone swarms.



### KEY PERFORMANCE SPECIFICATIONS

- **Length** 7,200 mm
- **Wingspan** 9,600 mm
- **B** 870 kg
- **Fuel Tank Capacity** 270 litres
- **Flight Duration** 8 hours
- **Cruising Speed** 350 km/h
- **Maximum Speed** 420 km/h
- **Maximum Flight Range** 2,000 km
- **Maximum Flight Altitude** 8,000 m
- **Climb Rate** 5 m/s
- **Max Wind Resistance** 20 m/s
- **Engine Power** 185 HP EP918Ti
- **CEP (Accuracy)** < 10 m

#### Combat Capabilities

- Integrated radar for detecting Shahed-type and other UAVs
- Electronic warfare systems onboard
- Wing pylons: 6× H20 JET cruise missiles OR 30× electric interceptors
- Machine guns with automatic target acquisition
- Drone swarm deployment capability
- Navigation operable in GPS-denied / heavy EW environments

# Strike

## Loitering Munitions & Cruise Missiles

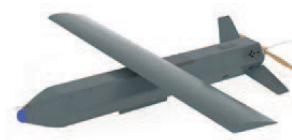
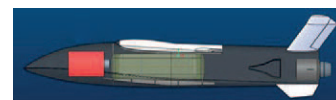
### DT CRUISE MISSILE FAMILY

DT UAVS | MADE IN EU

The DT H20 JET, H20i, H40 elektro, and H80 JET are a family of precision strike platforms capable of high-speed flight at altitudes up to 10 km and terrain-following flight at very low altitudes. All continuously manoeuvre along a preset trajectory to evade air defence systems and can strike at a steep angle to simulate ballistic missile profiles. All variants feature navigation systems capable of operating under intense electronic jamming and without satellite navigation.

#### Notes on Variants

- H20 JET – Jet-powered target drone / air defence deception platform
- H20i – Jet-powered cruise missile with operator control range up to 100 km
- H40 elektro – Electric-motor loitering munition; carries 22.5 kg explosive warhead
- H80 JET – Long-range heavy strike platform; 580 km range; 60 kg warhead



Parameter	H20 JET	H20i	H40 elektro	H80 JET
Length	2,180 mm	2,180 mm	1,780 mm	4,100 mm
Wingspan	1,600 mm	1,600 mm	2,020 mm	1,850 mm
Fuel Tank	12 litres	12 litres	– (electric)	120 litres
Flight Duration	30 min	30 min	90 min	100 min
Max Altitude	8,000 m	8,000 m	3,000 m	10,000 m
Max Speed	400 km/h	400 km/h	280 km/h	400 km/h
Cruising Speed	300 km/h	300 km/h	180 km/h	350 km/h
Max Range	220 km	220 km	200 km	580 km
Control Range	–	Up to 100 km	–	–
Weight	20 kg	20 kg	46 kg	180 kg
Explosive Weight	–	–	22.5 kg	60 kg
Jet Engine Thrust	8 kg	8 kg	– (electric)	45 kg
CEP	< 10 m	< 10 m	< 15 m	< 10 m
Climb Rate	25 m/s	25 m/s	25 m/s	25 m/s
Max Wind Resistance	20 m/s	20 m/s	20 m/s	20 m/s

## DT H160 | LONG-RANGE KAMIKAZE UAV

DT UAVS

The H160 is a long-range kamikaze loitering munition powered by a fuel-efficient German piston engine with 10-hour flight endurance and a 2,000 km maximum range. Designed for deep-strike missions against high-value targets.



## KEY PERFORMANCE SPECIFICATIONS

**Length** 4,800 mm  
**Wingspan** 6,500 mm  
**Fuel Tank Capacity** 190 litres  
**Flight Duration** 10 hours  
**Cruising Speed** 200 km/h  
**Descent (Attack) Speed** 420 km/h  
**Maximum Flight Range** 2,000 km  
**Maximum Flight Altitude** 4,500 m  
**Climb Rate** 5 m/s  
**Max Wind Resistance** 15 m/s  
**Weight** 320 kg  
**Explosive Payload** 100 kg  
**Engine Power** 63 HP  
**CEP** < 10 m

## Large-Scale Platform UAVs

Strike / Cargo / Hybrid

## DT H200 – HEAVY CARGO COPTER PLATFORM

DT UAVS

The H200 is a heavy-lift cargo copter UAV with a 200 kg maximum payload. Can serve as a launch platform for six H20 JET cruise missiles, two H40 elektro, or one H80 JET. Also suited for bomb dropping (up to 200 kg), FPV swarm deployment, or front-line ammunition delivery. Operator control from anywhere in the world via secure satellite communications.

## KEY PERFORMANCE SPECIFICATIONS

**Maximum Payload** 200 kg  
**Maximum Flight Distance** Up to 70 km  
**Maximum Flight Speed** 70 km/h  
**Flight Time** 60 minutes  
**Altitude Limit** 4,500 m  
**Satellite Communications** Secure, worldwide operator control



## Combat Capabilities

- Reconnaissance – long-range ISR with optional precision cameras
- Strike – swarm of FPV kamikaze drones (intercept enemy drones or destroy equipment)
- Stinger missiles – engage military aircraft and helicopters
- Bombs – precision drop with ballistic calculator

## DT HUNTER-4 / HUNTER-4B

HYBRID VTOL PLATFORM | DT UAVS

The H4 and H4B are hybrid VTOL drones in fully automatic autopilot mode. The H4 is configured for reconnaissance (up to 1,000 km range); the H4B for strike missions, deploying swarms of kamikaze FPV drones at ranges up to 400 km. Can also carry Stinger missiles for engagement of military aircraft and helicopters.



## KEY PERFORMANCE SPECIFICATIONS

- Maximum Take-Off Weight** 200 kg
- Maximum Payload** 55 kg
- Wingspan** 6,690 mm
- Length** 3,856 mm
- Engine** EFI German gasoline, 32 HP
- Power System** Hybrid (battery + gasoline)
- Fuel Tank Capacity** 46 litres
- Speed** 90–155 km/h
- Control Range** Up to 200 km
- Flight Duration** ≥ 10 hours
- Max Ascent / Descent Speed** 5 m/s
- Max Wind Resistance** 13.8 m/s
- Maximum Flight Distance** Up to 1,000 km (400 km with 55 kg payload)
- Maximum Flight Altitude** 4,500 m
- Encryption** AES256

### Combat Capabilities

- Reconnaissance – long-range ISR with optional precision cameras
- Strike – swarm of FPV kamikaze drones (intercept enemy drones or destroy equipment)
- Stinger missiles – engage military aircraft and helicopters
- Bombs – precision drop with ballistic calculator

## C- UAS

### THE KINETIC SHIELD

DMOS LASER UGV — DIRECTED ENERGY WEAPON

A ground-deployed DEW platform with an unlimited magazine – no munitions resupply required. Cost per kill below \$1. Transformative tactical economics for sustained C-UAS operations.

### KEY PERFORMANCE SPECIFICATIONS

Beam Quality	M <sup>2</sup> = 1.2	M <sup>2</sup> = 1.2	M <sup>2</sup> < 1.3	M <sup>2</sup> < 1.5	M <sup>2</sup> < 1.5	M <sup>2</sup> < 1.5
Engagement Range	300m–500m	500m–1 km	300m–3 km	500m–5 km	500m–6 km	500m–6 km
Target Acquisition	EO/IR + AI	EO/IR + AI	Multi-spectral + EO/IR	Multi-spectral + EO/IR	Multi-spectral + EO/IR	Multi-spectral + EO/IR
Time to Engage	<2 sec	<2 sec	<2.5 sec	<3 sec	<3 sec	<3 sec
Mount Options	Tripod / UGV	Tripod / Vehicle / UGV / Man-Portable	Vehicle / Naval / Pedestal	Vehicle / Pedestal / Shipborne	Pedestal / Vehicle / Shipborne	Pedestal / Vehicle / Shipborne
System Weight	<60 kg	<80 kg	<120 kg	Containerized	Containerized	Containerized
Power Source	Battery / DG Set	Battery / DG Set	DG Set / Vehicle / Grid	DG Set / Ship / Grid	DG Set / Ship / Grid	DG Set / Ship / Grid
Operating Temp	-20°C to +55°C	-20°C to +55°C	-20°C to +60°C	-20°C to +75°C	-20°C to +75°C	-20°C to +75°C

#### EXHIBIT A: MOBILE PLATFORM INTEGRATION



#### THE UNLIMITED MAGAZINE

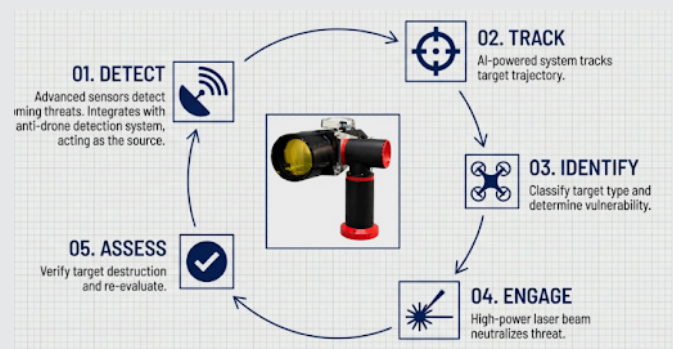
Kinetic interceptors run out; Olee laser systems fire indefinitely with power supply. **<\$1 cost per kill.**

#### SPEED OF LIGHT

Threats at 300+ m/s require instantaneous response. **Zero collateral damage risk** from explosive fragments.

#### INDIGENOUS OEM

100% Indian-developed optical systems, **eliminating import dependency.**



## KEY CONTACTS

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