PRODUCT CATALOG & TECHNICAL SPECIFICATIONS

Unmanned aircraft, spraying equipment & ground robotics

Built and supported in Lusaka, Zambia, for agriculture, survey, conservation, mining and logistics across Africa.

EDITION 2026 13 PRODUCTS · 5 FAMILIES NKEMAERONAUTICS.COM









ABOUT NKEM AERONAUTICS

Advanced aerial solutions & UAV manufacturing

Nkem Aeronautics provides UAV technology, site preparation equipment and autonomous surveillance operations across Zambia and Africa, from precision crop spraying to wildlife monitoring, mining survey and heavy-lift logistics.

Contents

01	Fixed-Wing & VTOL UAVs	03
	NKM-AGR-100	04
	AW1338 Levitate VTOL	05
	NKM-AGR-200	06
	NKM-AGR-300 VTOL	07
	NKM-AGR-500	08
02	Multirotor UAVs	09
	NKM-LGS-50	10
03	Agricultural Spraying Equipment	11
	NKM-UGV-1000	12
	NKM-UGV-120	13
	NKM-UGV-140	14
04	Ground Transport Robotics	15
	NKM-UGV-1	16
	NKM-UGV-2	17
05	Partner Agricultural Drones	18
	DJI T100 Agricultural Drone (2026)	19
	DJI T50 Agricultural Drone Generator Kit	20
—	From our facility	21



01

PRODUCT FAMILY 01

Fixed-Wing & VTOL UAVs

Long-range fixed-wing and vertical take-off platforms for mapping, survey, forestry and cargo missions, built in Lusaka.

At a glance

PRODUCT	WINGSPAN	POWER	TRANSMISSION	PRIMARY USE
NKM-AGR-100	3,600 mm	—	—	Mapping
AW1338 Levitate VTOL	—	Gasoline	Controller-dependent	Long-range survey
NKM-AGR-200	—	Electric (brushed)	2 km	Cargo delivery
NKM-AGR-300 VTOL	—	Electric	1 km	Mapping & training
NKM-AGR-500	2,700 mm	Electric	1 km	Forest survey



FIXED-WING & VTOL UAVS

NKM-AGR-100

Long-distance fixed-wing mapping drone with HD 4K camera and GPS.

3,600 mm	2–2.5 kg	5,000 m
WINGSPAN	PAYLOAD	PRACTICAL CEILING

Airframe

Wingspan	3,600 mm
Fuselage length	1,800 mm
Material	Carbon fibre

Control

Control type	Remote control
Operator skill level	Beginner
Gyro	On request

Performance

Cruising speed	20 m/s
Practical ceiling	5,000 m
Wind resistance	Level 5
Payload	2–2.5 kg

Commercial

Model	NKM-AGR-100
Place of origin	Lusaka, Zambia
Private mould	No

APPLICATIONS Mapping

REQUEST A QUOTE →



FIXED-WING & VTOL UAVS

MODEL AW1749

AW1338 Levitate VTOL

Gasoline VTOL fixed-wing UAV for high-payload, long-range survey with vertical take-off.

VTOL	Gasoline	RTK
TAKE-OFF	POWER SOURCE	POSITIONING

Capabilities

Positioning	RTK
Aerial photography	Yes
Video capture	Not included
Use	Outdoor

Power & control

Power source	Gasoline
Controller power	Battery
Remote distance	Depends on controller
Operator skill level	Expert

Commercial

Model	AW1749
Place of origin	Lusaka, Zambia

APPLICATIONS Long-range survey Aerial photography

REQUEST A QUOTE →



FIXED-WING & VTOL UAVS

NKM-AGR-200

High-quality carbon-fibre fixed-wing drone kit, a reliable choice for long-distance missions.

2 km	≤ 10 min	1 pc
IMAGE TRANSMISSION	MAX FLIGHT TIME	MINIMUM ORDER

Airframe

Product	Drone airframe kit
Material	Carbon fibre / polymer
Colour	Customisable
Motor	Brushed
Gyro	2-axis

Commercial

Model	NKM-AGR-200
Category	Beginner
Control type	Remote control
Private mould	Yes
MOQ	1 pc

Performance

Max flight time	≤ 10 min
Image transmission	2 km
Still image	2 MP
Function	Altitude hold
Take-off	Sliding (runway)

APPLICATIONS Cargo delivery

REQUEST A QUOTE →



FIXED-WING & VTOL UAVS

NKM-AGR-300 VTOL

General-purpose fixed-wing aircraft for robust aerial mapping, survey training and commercial work.

1 km	Electric	Waterproof
TRANSMISSION	POWER	AIRFRAME

Airframe

Material	Wood
Gyro	Yes
Feature	Waterproof
Private mould	Yes

Performance

Max flight time	Customisable
Transmission	1 km
Functions	Altitude hold, one-key operation

Power & control

Engine type	Electric
Control type	Remote control

Commercial

Model	NKM-AGR-300 VTOL
Category	Commercial
Place of origin	Lusaka, Zambia
MOQ	1 set

APPLICATIONS Aerial mapping Survey training Commercial

REQUEST A QUOTE →



FIXED-WING & VTOL UAVS

NKM-AGR-500

Long-range survey platform with a 2,700 mm wingspan for professional forest surveys and aerial mapping.

2,700 mm	1 km	70 kg
WINGSPAN	TRANSMISSION	GROSS WEIGHT

Airframe

Wingspan	2,700 mm
Material	Wood
Gross weight	70 kg
Package size	120 × 45 × 50 cm
Gyro	Yes

Performance

Max flight time	Customisable
Transmission	1 km

Power & control

Engine type	Electric
Control type	Remote control
Operator skill level	Beginner

Commercial

Model	NKM-AGR-500
Category	Commercial
Place of origin	Lusaka, Zambia
Private mould	Yes

APPLICATIONS Forest survey Aerial mapping

REQUEST A QUOTE →



02

PRODUCT FAMILY 02

Multirotor UAVs

Multirotor platforms for camera work, monitoring and light cargo, with vertical take-off from any clearing.

At a glance

PRODUCT	FLIGHT TIME	TRANSMISSION	GROSS WEIGHT	PRIMARY USE
NKM-LGS-50	31–40 min	1 km	70 kg	Imaging & cargo



MULTIROTOR UAVS

NKM-LGS-50

High-performance professional drone with advanced 8K camera capability, GPS and cargo carriage.

31–40 min	1 km	70 kg
MAX FLIGHT TIME	TRANSMISSION	GROSS WEIGHT

Platform

Product name	XH15E Cargo UAV
Material	Wood
Gyro	Yes
Gross weight	70 kg
Package size	120 × 45 × 50 cm

Commercial

Model	NKM-LGS-50
Category	Commercial
Operator level	Beginner
Place of origin	Lusaka, Zambia
MOQ	1 set

Performance

Max flight time	31–40 min
Transmission	1 km
Engine type	Electric

APPLICATIONS Aerial imaging Cargo

REQUEST A QUOTE →



03

PRODUCT FAMILY 03

Agricultural Spraying Equipment

Remote-controlled ground sprayers for orchards and open fields, from a compact 120 L unit to a 1,000 L air-blast fog cannon.

At a glance

PRODUCT	TANK	HORIZONTAL RANGE	FLOW / NOZZLES	WEIGHT
NKM-UGV-1000	1,000 L	—	16 nozzles	900 kg
NKM-UGV-120	120 L	17 m / side	8 L/min	80 kg
NKM-UGV-140	140 L	34 m / side	16 L/min	160 kg



AGRICULTURAL SPRAYING EQUIPMENT

NKM-UGV-1000

Industrial tracked/wheeled air-blast sprayer engineered for large-scale crop protection, orchards and pest control.

1,000 L	16	200 m
TANK CAPACITY	NOZZLES	REMOTE RANGE

Dimensions

Machine size	2,200 × 1,200 × 2,300 mm
Machine weight	900 kg
Climbing ability	< 40°

Drive

Engine	195F
Travel motors	2 × 2,200 W
Travel speed	20–70 m/min

Spraying

Tank capacity	1,000 L
Spray pump	3-cylinder 80, diesel
Nozzles	16

Control

Control mode	Remote control (RC)
Remote distance	200 m

APPLICATIONS Orchards Open fields Pest control

REQUEST A QUOTE →



AGRICULTURAL SPRAYING EQUIPMENT

NKM-UGV-120

Agile sprayer with variable-rate output that matches spray volume to travel speed for zero crop waste.

120 L	17 m	8 L/min
TANK CAPACITY	RANGE PER SIDE	MAX FLOW RATE

Spraying

Tank capacity	120 L
Max flow rate	8 L/min
Droplet size	60–200 µm
Horizontal range	17 m per side
Rate control	Variable, speed-matched

Vehicle

Vehicle width	80 cm
Curb weight	80 kg
Max travel speed	1.5 m/s
Max gradeability	20% (8°)

APPLICATIONS Orchards Row crops

REQUEST A QUOTE →



AGRICULTURAL SPRAYING EQUIPMENT

NKM-UGV-140

Heavy-duty multi-fan sprayer delivering superior coverage with a 140 L tank and 34 m reach per side.

140 L	34 m	16 L/min
TANK CAPACITY	RANGE PER SIDE	MAX FLOW RATE

Spraying

Tank capacity	140 L
Max flow rate	16 L/min
Droplet size	120–400 µm
Horizontal range	34 m per side
Fans	Multi-fan

Vehicle

Vehicle width	80 cm
Curb weight	160 kg
Max travel speed	3 m/s
Max gradeability	20% (8°)

APPLICATIONS Orchards Large fields

REQUEST A QUOTE →



04

PRODUCT FAMILY 04

Ground Transport Robotics

Battery-electric tracked carriers that move up to 1.8 t across slopes, plantations and work sites by remote control.

At a glance

PRODUCT	LOAD CAPACITY	WEIGHT	RUN TIME	REMOTE RANGE
NKM-UGV-1	1.8 t	600 kg	8 h	200 m
NKM-UGV-2	1.8 t	450 kg	8 h	200 m



GROUND TRANSPORT ROBOTICS

NKM-UGV-1

Remote-controlled tracked dump carrier for moving heavy loads over rough and sloped ground.

1.8 t	8 h	< 45°
LOAD CAPACITY	RUN TIME	CLIMBING ABILITY

Dimensions

Machine size	1,800 × 1,200 × 1,200 mm
Machine weight	600 kg
Track width	180 mm
Load capacity	1.8 t

Drive & power

Travel motors	2 × 1,500 W
Travel speed	20–70 m/min
Climbing ability	< 45°
Battery	130 Ah Li-ion
Run time	8 h

Control

Control mode	Remote control (RC)
Remote distance	200 m

APPLICATIONS Plantations Construction Site logistics

REQUEST A QUOTE →



GROUND TRANSPORT ROBOTICS

NKM-UGV-2

Remote-controlled tracked transport vehicle with an open cargo bed for harvest and materials handling.

1.8 t	8 h	200 m
LOAD CAPACITY	RUN TIME	REMOTE RANGE

Dimensions

Machine size	1,800 × 1,200 × 1,200 mm
Machine weight	450 kg
Track width	180 mm
Load capacity	1.8 t

Drive & power

Travel motors	2 × 1,200 W
Travel speed	20–70 m/min
Climbing ability	< 45°
Battery	130 Ah Li-ion
Run time	8 h

Control

Control mode	Remote control (RC)
Remote distance	200 m

APPLICATIONS Harvest transport Plantations Site logistics

REQUEST A QUOTE →



05

PRODUCT FAMILY 05

Partner Agricultural Drones

Third-party spraying drones supplied and supported by Nkem Aeronautics as complete, ready-to-fly field kits.

At a glance

PRODUCT	BATTERIES	TANKS / CHARGING	APPLICATION	PRICING
DJI T100 Agricultural Drone (2026)	3 included	Spray + spread; generator optional	Large acreage	Excl. VAT
DJI T50 Agricultural Drone Generator Kit	3 included	Generator charging kit	Crop spraying	On request



PARTNER AGRICULTURAL DRONES

MODEL T100

DJI T100 Agricultural Drone (2026)

Flagship 2026 agricultural drone bundle with dedicated spraying and spreading tanks, long battery endurance and a professional remote controller.

3	2-in-1	Optional
FLIGHT BATTERIES INCLUDED	SPRAYING & SPREADING	GENERATOR

Bundle

Drone	DJI T100 (2026)
Tanks	Spraying & spreading
Flight batteries	3 included
Remote controller	Professional RC
Generator	Optional

Supply

Flight support	14 h endurance support
Stock location	Lusaka, Zambia
Pricing	Excl. VAT

APPLICATIONS Large-acreage farming

REQUEST A QUOTE →

DJI, T50 and T100 are trademarks of their respective owner. Nkem Aeronautics supplies these third-party products; it does not manufacture them.



PARTNER AGRICULTURAL DRONES

MODEL T50

DJI T50 Agricultural Drone Generator Kit

Powerful, proven and pilot-friendly: a buy-and-fly spraying kit with generator charging for nonstop operation.

3	Generator	Buy & fly
T50 FLIGHT BATTERIES	INTEGRATED CHARGER	COMPLETE KIT

The DJI T50 is a dependable workhorse with intuitive flight software and built-in data tracking via app. Paired with our generator-based charging system and cooling station, the kit is built for nonstop spraying and minimal downtime. Everything needed for efficient operation is bundled from the start.

Kit contents

Core unit	DJI T50 drone & RC
Flight batteries	3 × T50 flight batteries
Charging	Generator with integrated charger
Support gear	Cooling station

Accessories

RC batteries	2
Battery / remote charger	100 W
Extras	Generator cover, cords

APPLICATIONS Crop spraying Fleet operations

REQUEST A QUOTE →

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FROM OUR FACILITY

Designed, assembled and tested in Lusaka

Every Nkem airframe passes through briefing, blueprint, validation and scaling, with quality control applied across design, production and final inspection.



Fixed-wing VTOL airframes ready for flight testing



Assembly floor, Nkem Aeronautics facility



Multirotor platform on the test pad



Talk to our team

Ask for pricing, lead times, training or a field demonstration. We respond to every request through the portal, by email or on WhatsApp.

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