



EMPULSER

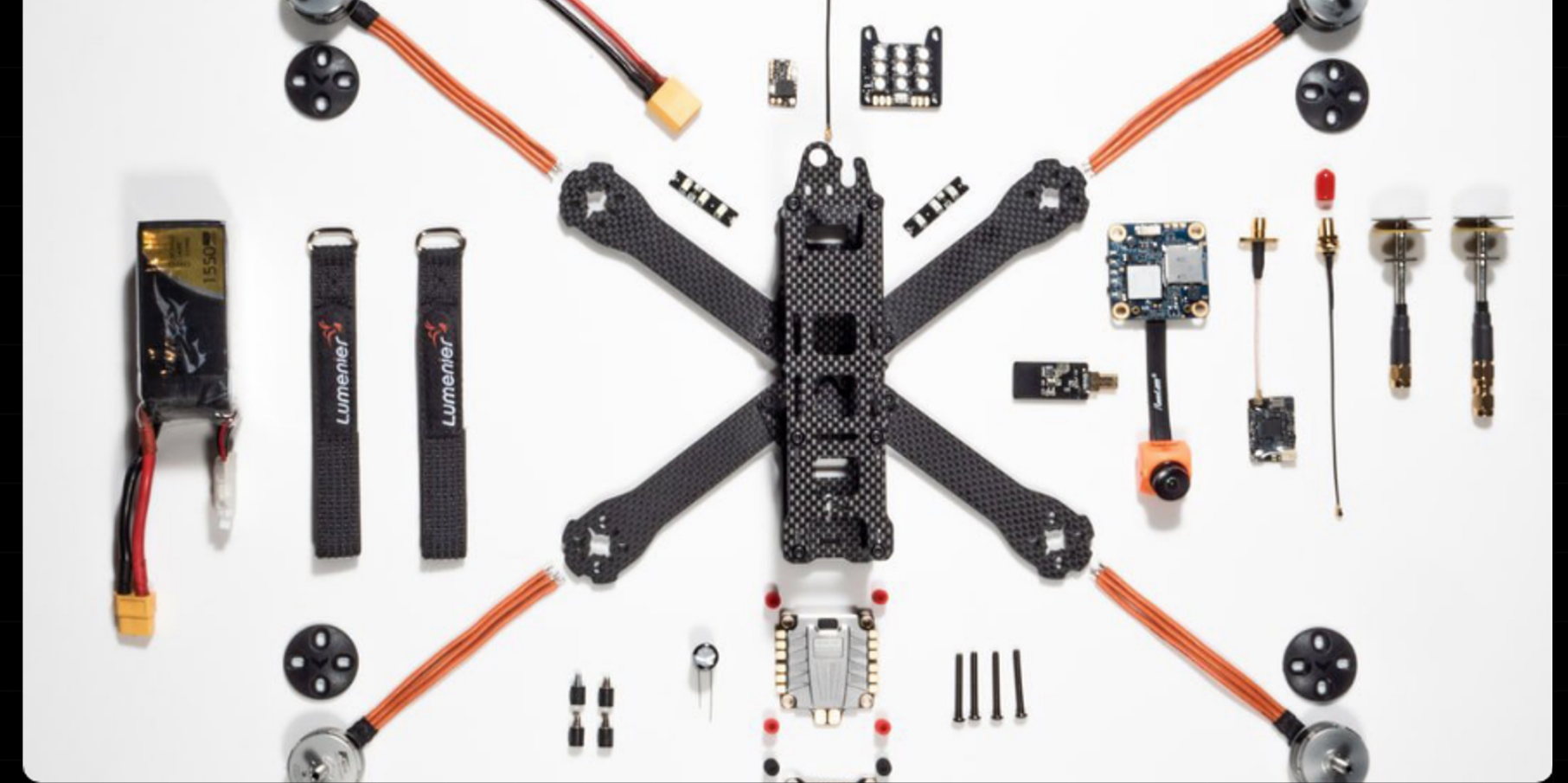
SEAMLESS POWER SOLUTIONS, MAGNETIC RESONANCE FOR DRONE FLEET OPERATIONS.

Three magnetic resonance products to remove alignment limits, enable simultaneous multi-drone charging, charge during autonomous loading, and enable in-flight charging in powered flight corridors

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LIMITATIONS OF INDUCTION DRONE CHARGING



Precise Alignment.

Requires precise alignment between drone and pad for effective power transfer



One drone at a time.

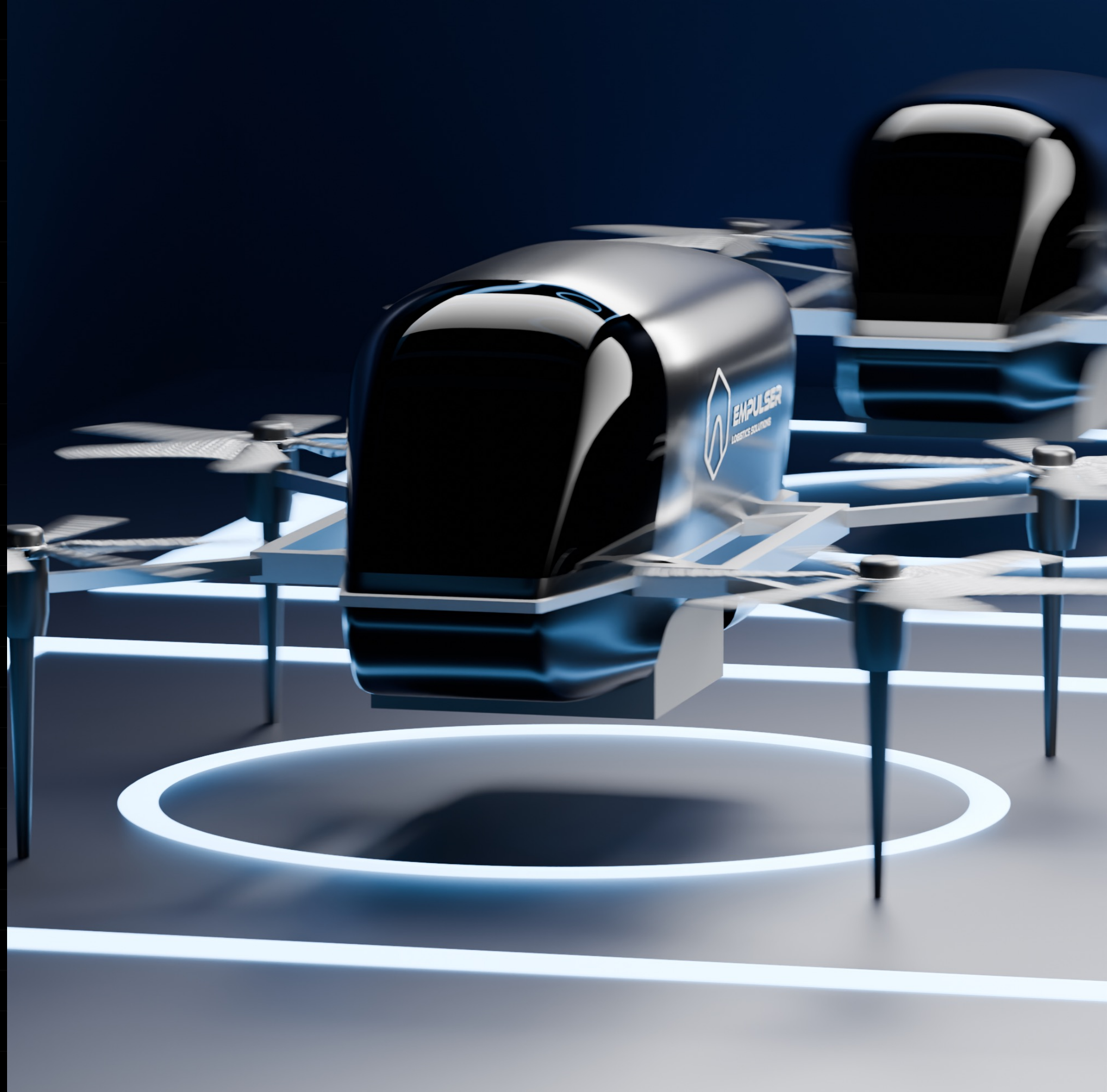
Typically charges one drone at a time, creating bottlenecks in busy operations

MAG-RES HANGAR:

Empulser magnetic resonance technology allows for a seamless drone storage and charging station.

Charging multiple drones, regardless of alignment or sub-optimal positioning, allows for a fully autonomous and robust system in the real-world conditions.

This system is more flexible and accounts for drone alignment error, a missing feature in current induction systems.



MAG-RES LOADING PLATFORM:

Powered loading platforms enable drones to autonomously load cargo or mission equipment without losing energy.

Currently drones are loaded either manually at the loading platform or loaded manually at the charging location, meaning the goods have to be taken to them.



MAG-RES DRONE HIGHWAY:

A series of powered loops to be installed in high frequency flightpaths for drones. Allowing for continuous power delivery and extending flight times and range. Reduces or fully eliminates the need for recharging after every mission.




FULL AUTOMATION:

Doing more with less. Enabling seamless logistical or mission objectives to be fulfilled without human interference.

Made possible by flexible power delivery and fleet optimisation.





EMPULSER SEEMLESS POWER SOLUTIONS,

1

FLEET OPTIMISATION

Reducing operational backlogs by reducing or eliminating charging times.

2

DOING MORE WITH LESS

Full automated systems allow for more efficient operations.

3

INCREASING RESILIENCE

By eliminating requirement for precise alignment, drones can operate in the real world with fewer technical malfunctions.



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CONTACTLESS POWER
TRANSFER

Creating scalable, world-changing contactless power solutions to unlock productivity across autonomous systems, consumer electronics, IoT, and energy grids.

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