






FROM SEA TO SKY



Commercial propulsion components created with detailed design intent, finite-element analysis and the strictest machining guidelines.

KDE Direct creates high quality brushless motors, propellers, adapters and electronics for commercial, industrial, military and personal multi-rotor applications. From aerial cinematography for feature films and national commercials to search and rescue, count on KDE Direct equipment for market-leading performance and quality.



HEAVY LIFT UAS (DRONES)

#FLYKDE

UAS Multi-Rotor Brushless Motors



KDE Direct UAS Multi-Rotor Brushless Motors

KDE Direct motors are specifically designed for high thrust capacity and durability. High-temperature rated, solid-core copper windings help protect your motors in extreme climates; while proprietary bearing arrangements keep your system in the air, even under the harshest conditions and extended durations.

When it comes to heavy lift operations, you need to count on the best brushless motors in the industry. Brushless motors for heavy lift applications improve flight time and efficiency, while allowing you to carry and confidentially fly heavy payloads.

PRODUCT CATALOG 2018





KDE10218XF-105

Diameter (ø): 109.1mm
Kv: 105 RPM/V
VR: 22.2V - 58.8V
CPR: 7,355W



KDE8218XF-120

Diameter (ø): 89.0mm
Kv: 120 RPM/V
VR: 22.2V - 58.8V
CPR: 5,695W



KDE7215XF-135

Diameter (ø): 80.0mm
Kv: 135 RPM/V
VR: 22.2V - 58.8V
CPR: 4,405W



KDE7208XF-110

Diameter (ø): 80.0mm
Kv: 110 RPM/V
VR: 22.2V - 50.4V
CPR: 2,225W



KDE7208XF-135

Diameter (ø): 80.0mm
Kv: 135 RPM/V
VR: 22.2V - 42.0V
CPR: 2,145W



KDE6213XF-185

Diameter (ø): 70.0mm
Kv: 185 RPM/V
VR: 22.2V - 50.4V
CPR: 2,755W



KDE5215XF-220

Diameter (ø): 60.0mm
Kv: 220 RPM/V
VR: 22.2V - 50.4V
CPR: 1,955W



KDE5215XF-330

Diameter (ø): 60.0mm
Kv: 330 RPM/V
VR: 14.8V - 33.6V
CPR: 1,835W



KDE5215XF-435

Diameter (ø): 60.0mm
 Kv: 435 RPM/V
 VR: 14.8V - 25.2V
 CPR: 1,595W



KDE4215XF-465

Diameter (ø): 48.2mm
 Kv: 465 RPM/V
 VR: 14.8V - 25.2V
 CPR: 1,375W



KDE4213XF-360

Diameter (ø): 48.2mm
 Kv: 360 RPM/V
 VR: 14.8V - 33.6V
 CPR: 1,125W



KDE4014XF-380

Diameter (ø): 46.5mm
 Kv: 380 RPM/V
 VR: 14.8V - 33.6V
 CPR: 1,065W



KDE4012XF-400

Diameter (ø): 46.5mm
 Kv: 400 RPM/V
 VR: 14.8V - 33.6V
 CPR: 945W



KDE3520XF-400

Diameter (ø): 42.2mm
 Kv: 400 RPM/V
 VR: 14.8V - 33.6V
 CPR: 1,335W



KDE3510XF-475

Diameter (ø): 42.2mm
 Kv: 475 RPM/V
 VR: 14.8V - 25.2V
 CPR: 665W



KDE3510XF-715

Diameter (ø): 42.2mm
 Kv: 715 RPM/V
 VR: 11.1V - 21.0V
 CPR: 665W



KDE2814XF-775

Diameter (ø): 35.5mm
Kv: 775 RPM/V
VR: 11.1V - 21.0V
CPR: 535W



KDE2814XF-515

Diameter (ø): 35.5mm
Kv: 515 RPM/V
VR: 14.8V - 25.2V
CPR: 535W



KDE2315XF-885

Diameter (ø): 28.3mm
Kv: 885 RPM/V
VR: 11.1V - 25.2V
CPR: 355W



KDE2315XF-965

Diameter (ø): 28.3mm
Kv: 965 RPM/V
VR: 11.1V - 25.2V
CPR: 385W



KDE2315XF-2050

Diameter (ø): 28.3mm
Kv: 2050 RPM/V
VR: 7.4V - 25.2V
CPR: 490W



KDE2306XF-2050

Diameter (ø): 28.3mm
Kv: 2050 RPM/V
VR: 7.4V - 25.2V
CPR: 355W



KDE2304XF-2350

Diameter (ø): 28.3mm
Kv: 2350 RPM/V
VR: 7.4V - 21.0V
CPR: 295W



KDE1806XF-2350

Diameter (ø): 23.0mm
Kv: 2350 RPM/V
VR: 7.4V - 16.8V
CPR: 265W

VR = Voltage Range | CPR = Continuous Power Rating



COMMERCIAL COMPONENTS.
DETAILED DESIGN INTENT.



#FLYKDE

UAS Multi-Rotor Electronics (ESC/UBEC)



KDE Direct UAS Electronics (ESC/UBEC)

When it comes to market-leading performance and control, KDE Direct ESC and UBEC electronics put you ahead of the competition. The series presents high-quality engineered electronics, specific for multi-rotor, single-rotor and UAS commercial and industrial applications.

Specifically tuned and optimized for the KDE Direct UAS Multi-Rotor Brushless Motor Series, the electronics offer a full-range of programmable features to elevate your system.

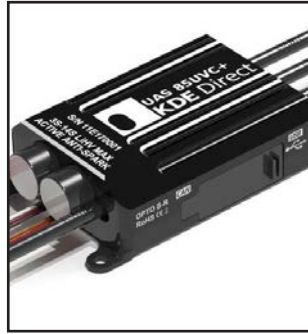
PRODUCT CATALOG 2018





KDE-UAS125UVC
125A+ (3S - 14S)

Maximum Voltage: 60V
CPR: 6,475W
MPR: 11,395W



KDE-UAS85UVC
85A+UHV

Maximum Voltage: 63V
CPR: 4,403W
MPR: 9,065W



KDEXF-UAS95HVC
95A+ (3S - 12S)

Maximum Voltage: 55V
CPR: 4,220W
MPR: 7,330W



KDEXF-UAS75HVC
75A+ (3S - 12S)

Maximum Voltage: 55V
CPR: 3,300W
MPR: 5,775W



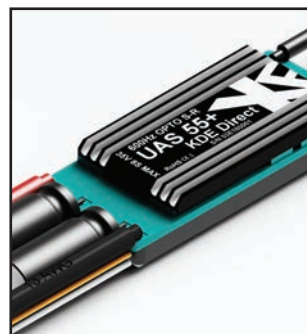
KDEXF-UAS55HVC
55A+ (3S - 12S)

Maximum Voltage: 55V
CPR: 2,445W
MPR: 4,220W



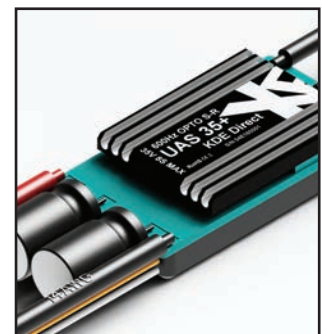
KDEXF-UAS55HVC
55A+ (3S - 12S)

Maximum Voltage: 55V
CPR: 2,440W
MPR: 4,220W



KDEXF-UAS55
55A+ (2S - 8S)

Maximum Voltage: 35V
CPR: 1,630W
MPR: 2,810W



KDEXF-UAS35
35A+ (2S - 8S)

Maximum Voltage: 35V
CPR: 1,040W
MPR: 1,780W

CPR = Continuous Power Rating | MPR = Maximum Power Rating

KDE Direct UAS
Electronics (ESC/UBEC)

PRODUCT CATALOG 2018



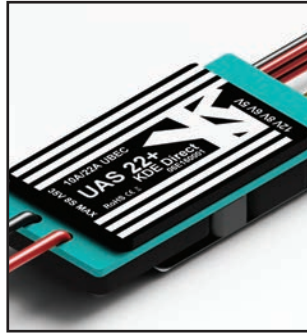


KDEXF-UAS20LV
20A+ (2S - 6S)

Maximum Voltage: 25V

CPR: 445W

MPR: 780W



KDEXF-UBEC22
22A+ (2S - 8S)

Maximum Voltage: 35V

Output: 5V, 6V, 8V, 12V

MPR: 265W

VR = Voltage Range | CPR = Continuous Power Rating



COMPONENTS FOR LIFE



#FLYKDE

UAS Multi-Rotor
Propeller Blades

KDE Direct UAS Multi-Rotor Propeller Blades

Propeller blades complete your power system, matching power with smooth and efficient flight performance. Constructed of aerospace-grade, carbon-fiber materials and dynamically-balanced at our proprietary manufacturing facility - these propellers are ready for operation when quality matters.

KDE Direct offers multi-rotor propeller blades in a variety of sizes, pitches and diameters, all designed for optimum flight time and thrust performance.

PRODUCT CATALOG 2018





KDE-CF305-DP

Dual-Propeller Blades
PD: 30.5" (774.7mm)
Propeller Pitch: 9.7
Adapter: KDE-DPA-
MLHL-ML



KDE-CF305-TP

Triple-Propeller Blades
PD: 30.5" (774.7mm)
Propeller Pitch: 9.7
Adapter: KDE-TPA-
MLHL-ML



KDE-CF275-DP

Dual-Propeller Blades
PD: 27.5" (698.5mm)
Propeller Pitch: 8.9
Adapter: KDE-DPA-
MLHL-ML



KDE-CF275-TP

Triple-Propeller Blades
PD: 27.5" (698.5mm)
Propeller Pitch: 8.9
Adapter: KDE-TPA-
MLHL-ML



KDE-CF245-DP

Dual-Propeller Blades
PD: 24.5" (622.3mm)
Propeller Pitch: 8.1
Adapter: KDE-DPA-
MLHL-ML



KDE-CF245-TP

Triple-Propeller Blades
PD: 24.5" (622.3mm)
Propeller Pitch: 8.1
Adapter: KDE-TPA-
MLHL-ML



KDE-CF215-DP

Dual-Propeller Blades
PD: 21.5" (546.1mm)
Propeller Pitch: 7.3
Adapter: KDE-DPA-ML



KDE-CF215-TP

Triple-Propeller Blades
PD: 21.5" (546.1mm)
Propeller Pitch: 7.3
Adapter: KDE-TPA-ML

PD = Propeller Diameter



KDE-CF185-DP

Dual-Propeller Blades
 PD: 18.5" (469.9mm)
 Propeller Pitch: 6.3
 Adapter: KDE-DPA-ML



KDE-CF185-TP

Triple-Propeller Blades
 PD: 18.5" (469.9mm)
 Propeller Pitch: 6.3
 Adapter: KDE-TPA-ML



KDE-CF155-DP

Dual-Propeller Blades
 PD: 15.5" (393.7mm)
 Propeller Pitch: 5.3
 Adapter: KDE-DPA-ML



KDE-CF155-TP

Triple-Propeller Blades
 PD: 15.5" (393.7mm)
 Propeller Pitch: 5.3
 Adapter: KDE-TPA-ML



KDE-CF125-DP

Dual-Propeller Blades
 PD: 12.5" (317.5mm)
 Propeller Pitch: 4.3
 Adapter: KDE-DPA-ML



KDE-CF125-TP

Triple-Propeller Blades
 PD: 12.5" (317.5mm)
 Propeller Pitch: 4.3
 Adapter: KDE-TPA-ML





AWARD-WINNING INNOVATION





#FLYKDE

Single-Rotor
Brushless Motors

KDE Direct UAS Single-Rotor Brushless Motors

KDE Direct Single-Rotor Brushless Motors use only the highest-quality materials and manufacturing processes to push the limits of flight performance and maintenance-free durability to new heights - never before seen in high-level, peak-performance flight.

The new "G3" series is the new generation in performance for the UAS single-rotor helicopter marketplace, with features such as Kevlar-tie wrapped stators and high-temperature rated (240°C) electromagnetic windings unlike any other in the industry.

PRODUCT CATALOG 2018



**KDE700XF-295-G3**

Kv: 295 RPM/V

VR: 37.0V - 67.2V

CPR: 7,195W

MPR: 12,875W

**KDE700XF-455-G3**

Kv: 455 RPM/V

VR: 37.0V - 67.2V

CPR: 7,195W

MPR: 12,875W

**KDE700XF-505-G3**

Kv: 505 RPM/V

VR: 29.6V - 58.8V

CPR: 7,195W

MPR: 12,875W

**KDE700XF-535-G3**

Kv: 535 RPM/V

VR: 29.6V - 58.8V

CPR: 5,595W

MPR: 11,100W

**KDE600XF-530-G3**

Kv: 530 RPM/V

VR: 22.2V - 50.4V

CPR: 3,905W

MPR: 7,500W

**KDE600XF-1100-G3**

Kv: 1,100 RPM/V

VR: 14.8V - 33.6V

CPR: 3,335W

MPR: 5,500W

**KDE550XF-565-G3**

Kv: 565 RPM/V

VR: 22.2V - 50.4V

CPR: 3,335W

MPR: 5,500W

**KDE550XF-1200-G3**

Kv: 1,200 RPM/V

VR: 14.8V - 33.6V

CPR: 2,775W

MPR: 4,550W



KDE500XF-1350-G3

Kv: 1,350 RPM/V

VR: 11.1V - 29.4V

CPR: 2,485W

MPR: 3,665W



KDE500XF-925-G3

Kv: 925 RPM/V

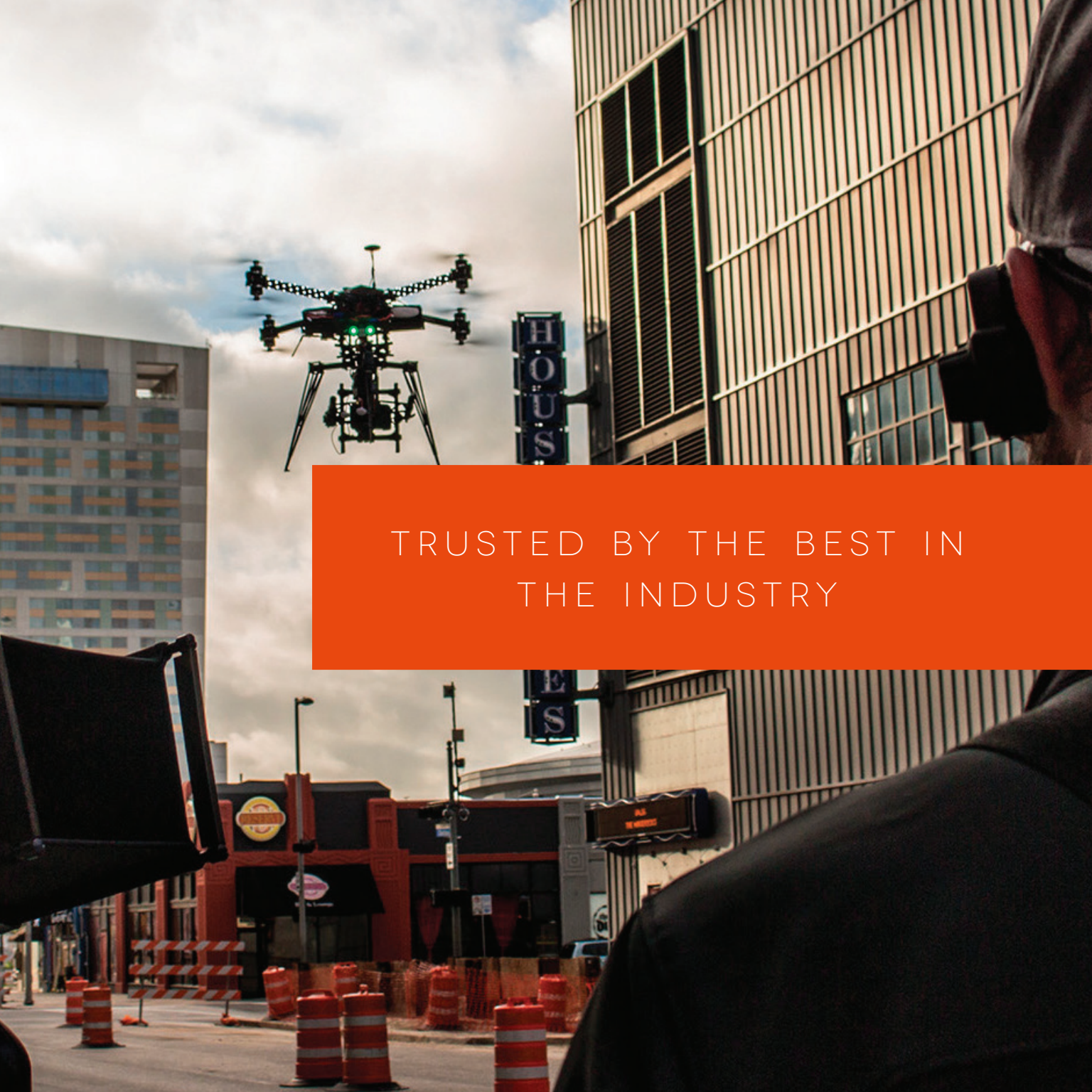
VR: 14.8V - 33.6V

CPR: 1,295W

MPR: 1,845W

KDE Direct provides off-the-shelf and custom solutions for single-rotor and multi-rotor applications.





TRUSTED BY THE BEST IN
THE INDUSTRY

#FLYKDE

Adapters & Replacement Kits



PROPELLER BLADE ADAPTERS

KDE-HPAHL

KDE-DPA-MLHL-ML

KDE-TPA-MLHL-ML

KDE-DPA-ML

KDE-TPA-ML

BULLET CONNECTORS

KDEXF-BC65

KDEXF-BC40

KDEXF-BC35

SHAFT REPLACEMENT KITS

KDE7215XF-SR

KDE7208XF-SR

KDE5215XF-SR

KDE4215XF-SR

KDE4014XF-SR-D5

KDE4014XF-SR

KDE4012XF-SR-D5

KDE4012XF-SR

KDE3520XF-SR

KDE3510XF-SR

KDE2814XF-SR

KDE2306/2206XF-SR

KDE1806XF-SR

BEARING REPLACEMENT KITS

KDE72XF-BRK

KDE52XF-BRK

KDE42XF-BRK

KDE40XF-BRK-D5

KDE40XF-BRK

KDE35XF-BRK

KDE28XF-BRK

KDE23XF/22XF-BRK

KDE18XF-BRK



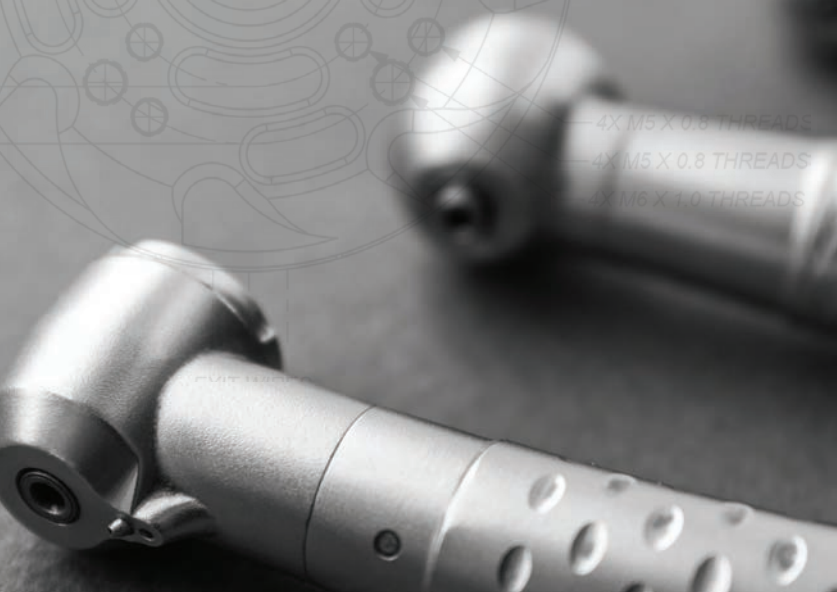
The UAS Multi-Rotor Replacement Kits are available for all editions of the Single-Rotor and Multi-Rotor Brushless Motor Series, offering both Shaft and Bearing Replacement Kits for routine maintenance and optimal flight performance.

Additional items, such as 24K Bullet Connectors and Motor Lead Extensions, are also available for special applications and ease of installation.



CUSTOM-DESIGNED MOTORS AND
ELECTRONICS FOR ALL INDUSTRIES.
SUCCESS DRIVEN BY QUALITY.

MOTORS DESIGNED FOR PRECISION,
DURABILITY AND PERFORMANCE.

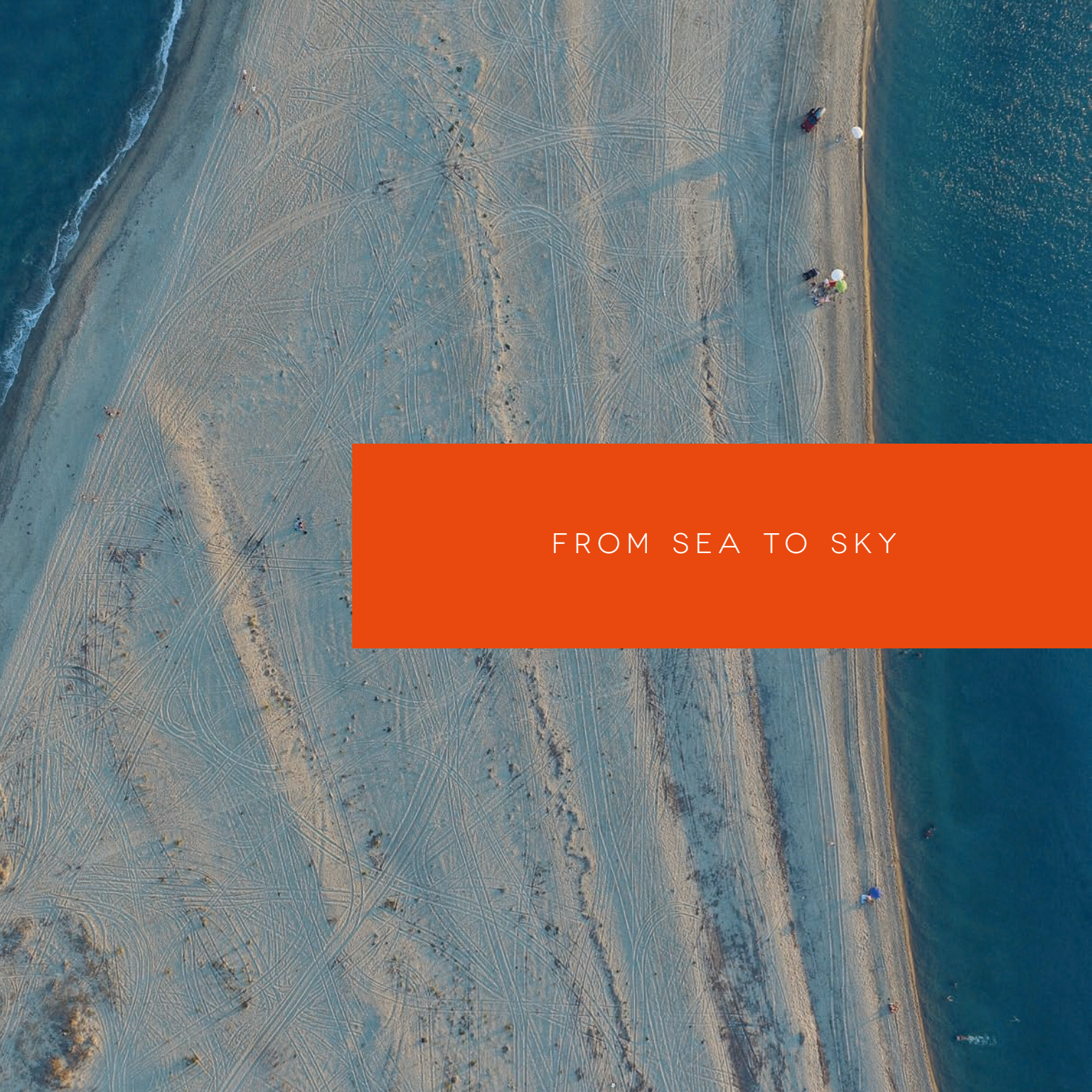


#FLYKDE

Custom Design. Advanced Performance.

In addition to the consistency of quality delivered with our products, there are many reasons to choose KDE Direct to design and build your custom equipment. With core capabilities in design and manufacturing, we have an established reputation for innovation, vertical integration, and on-time delivery to domestic and international industries.

- KDE Direct custom products are designed in the United States at our headquarters in Bend, Oregon by an experienced Engineering Team
- All products feature detailed design intent, finite-element analysis and the strictest machining guidelines for consistent quality and production repeatability
- ISO 9001 certified production facilities, RoHS, WEEE and CE compliances
- Design optimization for ideal performance between Brushless Motors and ESCs
- Proprietary domestic and overseas production facilities, for both prototype and full-scale production requirements



FROM SEA TO SKY



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