



MCAS - 500MH

MISSION CONFIGURABLE AIRCRAFT SYSTEM

 DILLON AERO



THE STANDARD

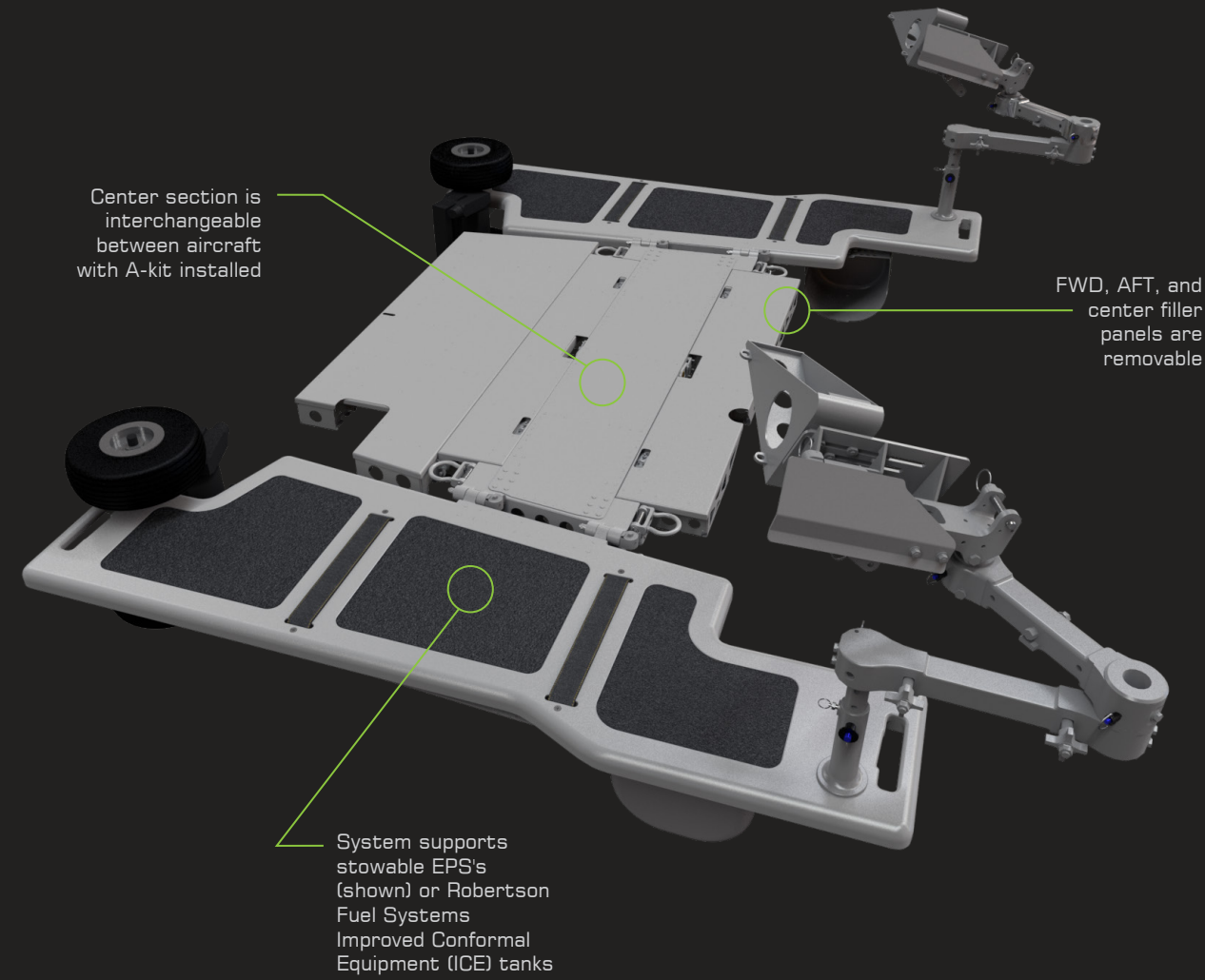
> LIGHT ASSAULT HELICOPTERS

The Dillon Aero Mission Configurable Aircraft System (MCAS-MH) provides an exceptional armament solution for the MD500 series of helicopters. Years of direct, hands-on experience coupled with innovative engineers have produced an armament platform that is lighter, more capable, and easier to support than other systems currently available.

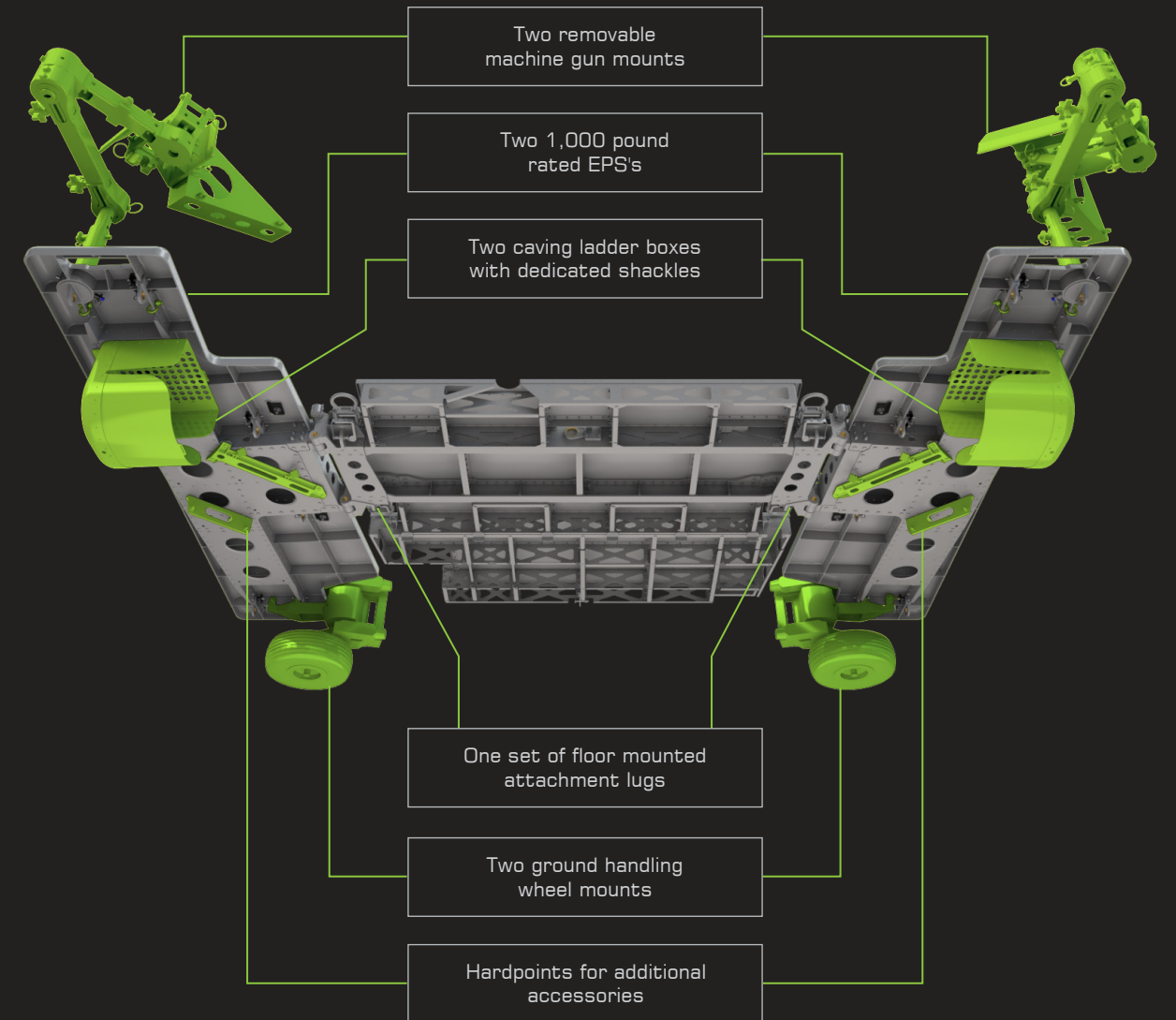
Airframe sustainability and useful load benefit from the decreased overall weight (-60 lbs. base system) compared to legacy systems. The aircraft can now carry more personnel, fuel, or additional Mission Equipment Packages (MEP). Hard-points on the top and bottom of the MCAS-MH provide users with multiple configuration options to suit any mission profile. The system can easily be configured to attach a machine gun, mount, and pintle-arm, caving ladder, FLIR System Electronics Unit (SEU), and ground handling wheel mount. Additionally, the system incorporates up to six removable mounting lugs coupled with additional mounting provisions.

The MCAS-MH (External Personnel Systems) stow to reduce the lateral dimension, resulting in easier transport and a reduced hangar footprint. Damage-prone areas are easily replaced in the field; it is not necessary to replace an entire plank because of localized damage. The MCAS-MH lightweight plank is interchangeable between aircraft; with complete interchangeability between airframes, there is no need for aircraft tail number specific hardware.

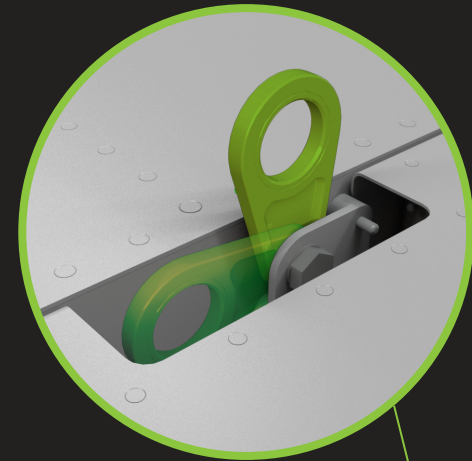
GENERAL OVERVIEW



MISSION EQUIPMENT PACKAGES

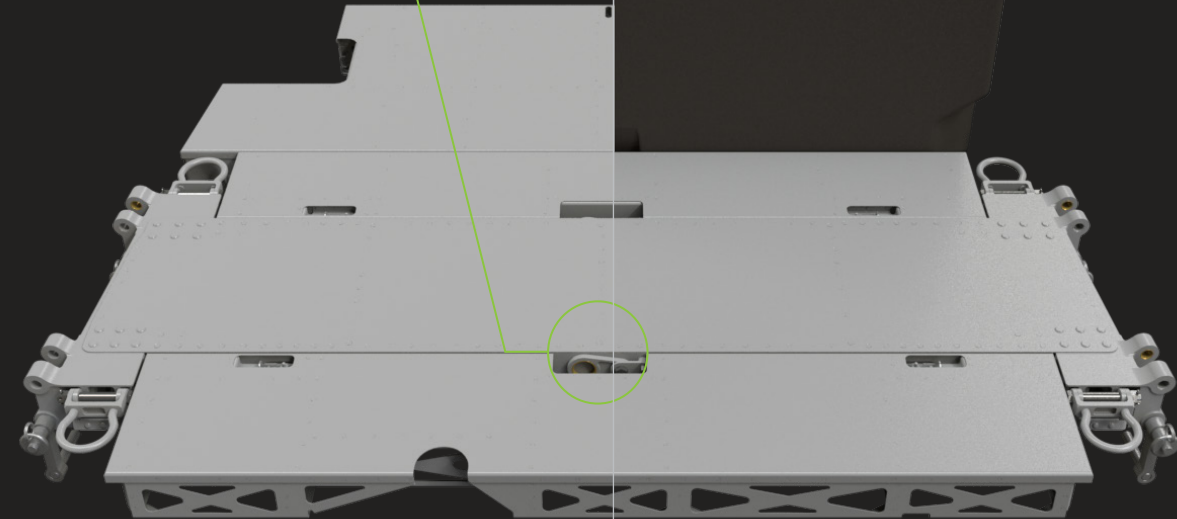


FILLER PANELS

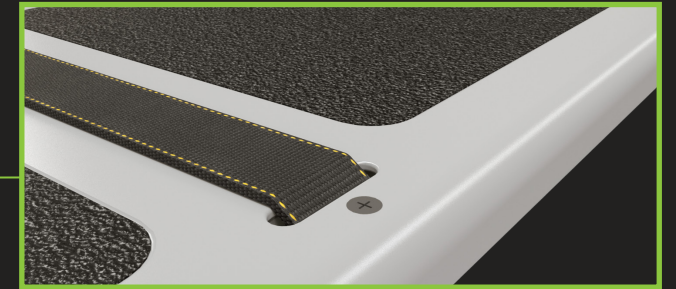


Lugs and tie-downs are easily stowed, leaving the upper surface of the MCAS-MH clear

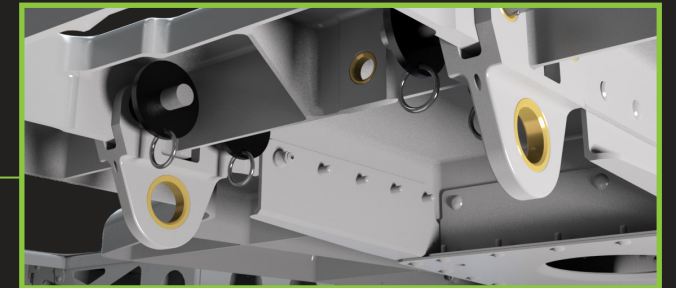
AFT filler panel can be removed to accommodate a Goliath® Tank



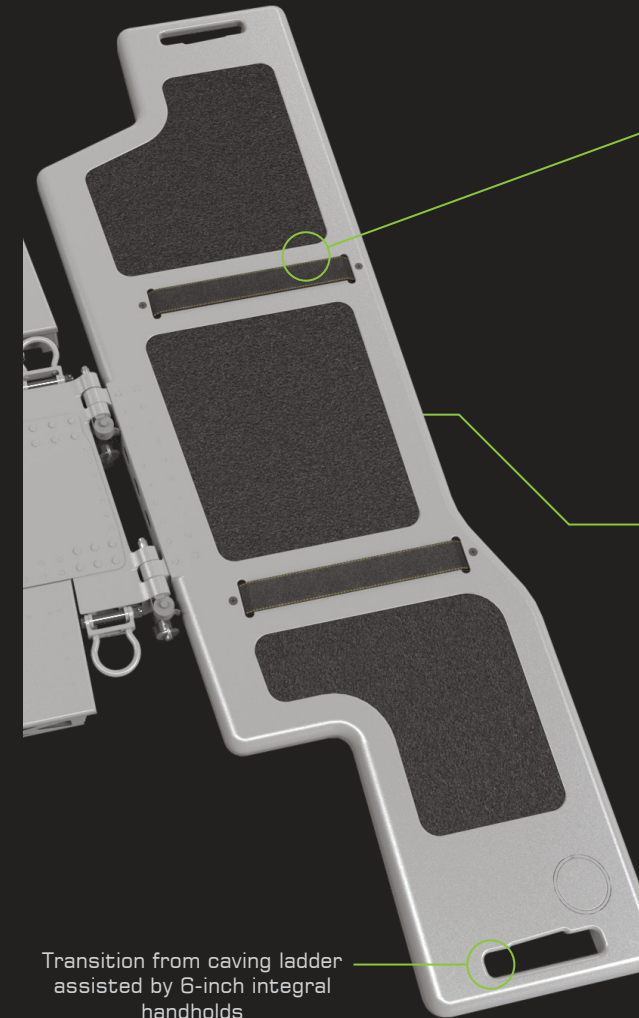
EXTERNAL PERSONNEL SYSTEM



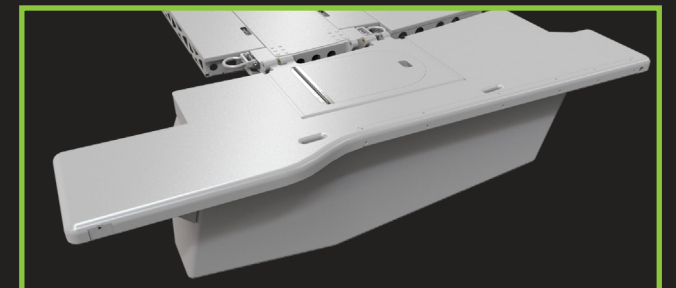
Features straps and anti-skid surfaces for personnel safety



Underside is populated with 6 lugs rated up to 125 lbs.



Transition from caving ladder assisted by 6-inch integral handholds



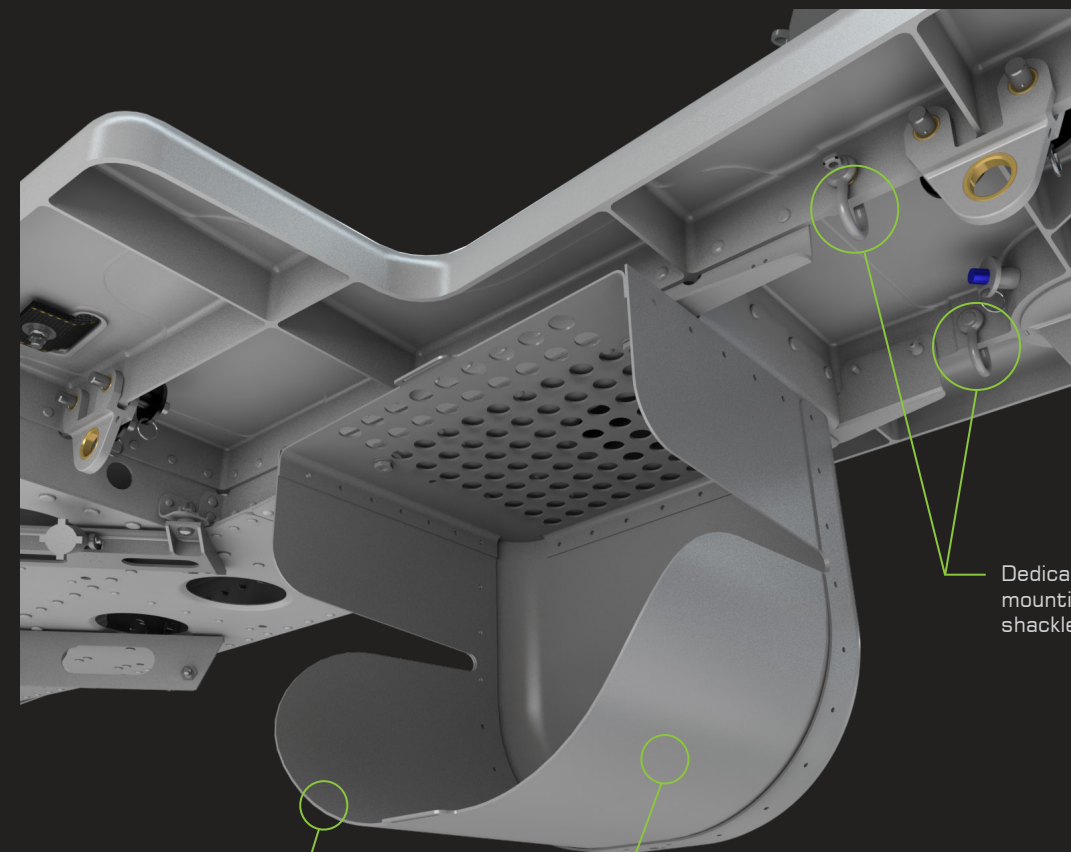
EPS's are interchangeable with ICE tanks

MACHINE GUN PINTLE



Removable pintle is secured with a single quick-release pin

CAVING LADDER MOUNT



Dedicated mounting shackles

MCAS-MH is compatible with existing ladder box

Caving ladder position has been adjusted from legacy. Easier to reach for pilot/copilot

WEIGHT SUMMARY

MD530 MCAS MH						
System Weights						
	Legacy*		Phase 2*		Phase 3*	
	Lb	Kg	Lb	Kg	Lb	Kg
Center Section	30.50	13.83	22.09	10.02	22.09	10.02
Forward Filler Panel	6.20	2.81	3.22	1.46	3.22	1.46
Center Filler Panel	-	-	2.39	1.08	2.39	1.08
Aft Filler Panel	12.30	5.58	6.47	2.93	6.47	2.93
External Personnel System x 2	71.80	32.57	50.06	22.71	50.06	22.71
Mk-4C	17.50	7.94	17.50	7.94	-	-
Dillon A-Kit	-	-	-	-	6.12	2.78
Tie Down Ring Universal Joint Kit	6.80	3.08	-	-	-	-
Dillon Mk-4C Rail Adapter x 4	-	-	3.01	1.37	-	-
Base System Total	145.10	65.82	104.74	47.51	90.35	40.98
Delta	N/A	N/A	-40.36	-18.31	-54.75	-24.83
Ground Handling Wheel Mount	3.00	1.40	0.60	0.30	0.60	0.30
Gun Mount	12.00	5.40	0.50	0.20	0.50	0.20

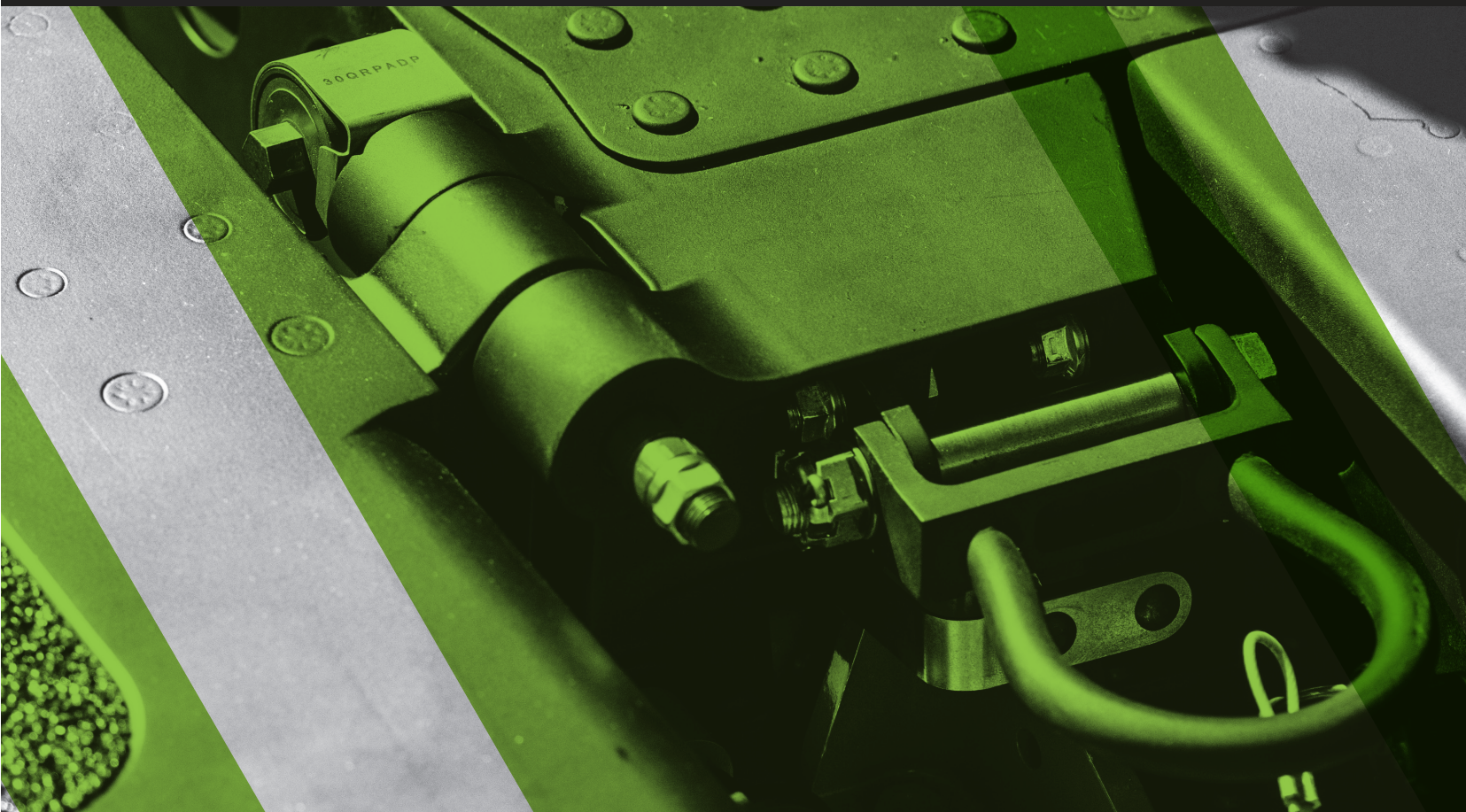
*FOR SYSTEM WEIGHT ESTIMATION ONLY.

*LEGACY - WEIGHT DATA FROM AWR DOCUMENT AND LEGACY OPERATOR'S MANUAL

*PHASE 2 - UTILIZES EXISTING MK4 RAIL; WEIGHTS ARE ACTUALS

*PHASE 3 - REPLACES MK4 RAIL WITH DILLON A-KIT (FAA/AED APPROVED); WEIGHTS ARE ACTUALS





Dillon Aero MCAS-MH developed for the MD530/AH-6M

- Lightweight
- Fully qualified and tested
- Provisions for accessories
- 300 flight hour inspection interval
- Can remove/install Goliath® Tank
- Interfaces with existing ICE Tank
- Designed by SOF aviation users
- Field maintainable/repairable
- Stowable for easy transportability
- Complete airframe interchangeability
- Clean/efficient design for ease of operation
- External Personnel System 1,000 lb. rating