

MD | HELICOPTERS™



MD HELICOPTER'S SUPER X PROGRAM **AFTERMARKET FIELDDED FLEET UPGRADES**

More Power. Increased Utility. Improved Performance.

No matter what the mission scenario, every pilot could use more power. Whether it's an increased payload or improved margin of safety, additional power has always been a pilot's friend.

MD's Fielded Fleet Upgrades are designed to unlock the full potential of your aircraft. These upgrades deliver measurable gains in power, utility, and overall performance—extending mission capability while preserving the reliability and handling qualities pilots expect from MD platforms. From utility and training to law enforcement and special mission operations, our upgrades ensure your aircraft is ready to perform when and where it counts.

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Get a quote, lead time, and downtime estimate from your nearest ASC.



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4555 East McDowell Road
Mesa, Arizona 85215 USA

SUPER **D** FAMILY OF UPGRADES

These, three advanced upgrade configurations engineered to elevate the performance and capability of the MD 500D. Every Super D variant delivers a coordinated set of structural, aerodynamic, and powertrain enhancements that expand the flight envelope, increase useful load, and improve hover performance across demanding mission profiles

EVERY SUPER D UPGRADE KIT INCLUDES

- Extended main rotor and tail rotor blades for improved lift and authority
- Tail rotor gearbox extension for matched torque transfer
- Modified tailboom optimized for the new rotor system
- New vertical and horizontal stabilizers for enhanced stability and control

SUPER **D20B** UPGRADE

The Super D20B upgrade package delivers enhanced performance through coordinated structural and aerodynamic improvements while retaining the proven Rolls-Royce 250-C20B engine. Operators gain meaningful gains in useful load and hover ceiling without changing engines, making it the most accessible path to a higher performing 500D

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE D20B 3,000 lb MGW	PATH A - PERFORMANCE		PATH B - PAYLOAD	
		SUPER D20B @ Same 3,000 lb MGW	Δ VS BASE	SUPER D20B @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,550	±0	3,550	±0
Empty Weight (lb)	1,600	1,605	+5	1,605	+5
Useful Load Internal (lb)	1,400	1,395	-5	1,745	+345
Hover IGE @ 15° C (ft)	6,540	7,770	+1,230	4,970	-1,570
Hover OGE @ 15° C (ft)	4,870	5,900	+1,030	1,665	-3,205
Hover IGE @ 35° C (ft)	4,040	5,235	+1,195	2,520	-1,520
Hover OGE @ 35° C (ft)	2,400	3,455	+1,055	SL	-2,400
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	375	±0	375	±0

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SUPER D20R UPGRADE

The Super D20R offers the same comprehensive airframe and systems upgrades as the Super D20B—longer blades, extended tail rotor gearbox, modified tailboom, and more—but is powered by the 250-C20R engine for increased performance.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE D20R 3,000 lb MGW	PATH A - PERFORMANCE		PATH B - PAYLOAD	
		SUPER D20R @ Same 3,000 lb MGW	Δ VS BASE	SUPER D20R @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,750	+200	3,750	+200
Empty Weight (lb)	1,600	1,613	+13	1,613	+13
Useful Load Internal (lb)	1,400	1,387	-13	1,737	+337
Hover IGE @ 15° C (ft)	7,720	9,260	+1,540	6,660	-1,060
Hover OGE @ 15° C (ft)	6,700	7,510	+810	4,850	-1,850
Hover IGE @ 35° C (ft)	3,920	5,690	+1,770	3,020	-900
Hover OGE @ 35° C (ft)	2,940	3,920	+980	1,148	-1,792
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	425	+50	425	+50

SUPER D30 UPGRADE

Like the Super D20B and D20R, the Super D30 features the same structural and aerodynamic enhancements—longer blades, modified tailboom, extended gearbox, and updated stabilizers—but is powered by the 250-C30 engine, delivering even greater power and operational flexibility.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE D-MODEL 3,000 lb MGW	PATH A - PERFORMANCE		PATH B - PAYLOAD	
		SUPER D30 @ Same 3,000 lb MGW	Δ VS BASE	SUPER D30 @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,750	+200	3,750	+200
Empty Weight (lb)	1,600	1,700	+100	1,700	+100
Useful Load Internal (lb)	1,400	1,300	-100	1,650	+250
Hover IGE @ 15° C (ft)	6,540	13,730	+7,190	11,200	+4,660
Hover OGE @ 15° C (ft)	4,870	11,815	+6,945	9,200	+4,330
Hover IGE @ 35° C (ft)	4,040	9,700	+5,660	7,280	+3,240
Hover OGE @ 35° C (ft)	2,400	7,765	+5,365	5,285	+2,885
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	425	+50	425	+50

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SUPER **E** FAMILY OF UPGRADES

If an E to F Conversion is not for you, we have added another option to enhance your MD500 E's performance. The Super E upgrade will increase internal and external MGW and useful load by 300+ and 150+ pounds, respectively, and improve hover performance.

EVERY SUPER E UPGRADE KIT INCLUDES

- Extended main rotor and tail rotor blades for improved lift and authority
- Tail rotor gearbox extension for matched torque transfer
- Modified tailboom optimized for the new rotor system
- New vertical and horizontal stabilizers for enhanced stability and control

SUPER **E20B** UPGRADE

The Super E20B upgrade package delivers enhanced performance through coordinated structural and aerodynamic improvements while retaining the proven Rolls-Royce 250-C20B engine. Operators gain meaningful gains in useful load and hover ceiling without changing engines, making it the most accessible path to a higher performing 500E.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE E20B 3,000 lb MGW	PATH A · PERFORMANCE		PATH B · PAYLOAD	
		SUPER E20B @ Same 3,000 lb MGW	Δ VS BASE	SUPER E20B @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,550	±0	3,550	±0
Empty Weight (lb)	1,650	1,655	+5	1,655	+5
Useful Load Internal (lb)	1,350	1,345	-5	1,695	+345
Hover IGE @ 15° C (ft)	6,540	7,770	+1,230	4,970	-1,570
Hover OGE @ 15° C (ft)	263	1,665	+1,402	1,665	+1,402
Hover IGE @ 35° C (ft)	4,060	5,235	+1,175	2,520	-1,540
Hover OGE @ 35° C (ft)	2,400	3,455	+1,055	SL	-2,400
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	375	±0	375	±0

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SUPER **E20R** UPGRADE

The Super E20R offers the same comprehensive airframe and systems upgrades as the Super D20B—longer blades, extended tail rotor gearbox, modified tailboom, and more—but is powered by the 250-C20R engine for increased performance.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE E20R 3,000 lb MGW	PATH A - PERFORMANCE		PATH B - PAYLOAD	
		SUPER E20R @ Same 3,000 lb MGW	Δ VS BASE	SUPER E20R @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,750	+200	3,750	+200
Empty Weight (lb)	1,650	1,663	+13	1,663	+13
Useful Load Internal (lb)	1,350	1,337	-13	1,687	+337
Hover IGE @ 15° C (ft)	7,720	9,260	+1,540	6,660	-1,060
Hover OGE @ 15° C (ft)	263	4,848	+4,585	4,848	+4,585
Hover IGE @ 35° C (ft)	3,920	5,690	+1,770	3,020	-900
Hover OGE @ 35° C (ft)	2,940	3,920	+980	1,148	-1,792
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	425	+50	425	+50

E-to-F CONVERSION

Improve your hot and high performance, increase your internal/external MGW by 350 pounds and useful load by 200 pounds with the MD 500E to 530F conversion. This upgrade converts your 500E to a 530FF by adding longer blades top and rear, a tail rotor gearbox extension, a modified tailboom, new vertical and horizontal stabilizers, and replacing your C20 engine with a 650 shp Rolls Royce 250-C30 engine.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE E-MODEL 3,000 lb MGW	PATH A - PERFORMANCE		PATH B - PAYLOAD	
		MD530FF @ Same 3,000 lb MGW	Δ VS BASE	MD530FF @ New 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,000	3,000	±0	3,350	+350
MGW External Load (lb)	3,550	3,750	+200	3,750	+200
Empty Weight (lb)	1,650	1,735	+85	1,522	-128
Useful Load Internal (lb)	1,350	1,265	-85	1,828	+478
Hover IGE @ 15 °C (ft)	6,450	13,730	+7,280	11,200	+4,750
Hover OGE @ 15 °C (ft)	4,870	11,815	+6,945	9,200	+4,330
Hover IGE @ 35 °C (ft)	4,040	9,700	+5,660	7,280	+3,240
Hover OGE @ 35 °C (ft)	2,510	7,765	+5,255	5,285	+2,775
Max Continuous Power (shp)	350	350	±0	350	±0
Take-Off Power (shp)	375	425	+50	425	+50

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530N UPGRADE

Do you like your 500N but you are not satisfied with its performance in hot and high conditions? Problem solved by replacing your 250-C20 engine with a 650 shp Rolls Royce 250-C30 engine and an inlet barrier filter.

PERFORMANCE METRICS

PERFORMANCE METRIC	BASE 500N 3,350 lb MGW	SUPER 530N 3,350 lb MGW	Δ VS BASE
MGW Internal Load (lb)	3,350	3,350	±0
MGW External Load (lb)	3,850	3,850	±0
Empty Weight (lb)	1,725	1,811	+86
Useful Load Internal (lb)	1,625	1,539	-86
Hover IGE @ 15 °C (ft)	6,100	9,465	+3,365
Hover OGE @ 15 °C (ft)	3,400	3,220	-180
Hover IGE @ 35 °C (ft)	3,000	5,210	+2,210
Hover OGE @ 35 °C (ft)	SL	1,400	+1,400
Max Continuous Power (shp)	375	375	±0
Take-Off Power (shp)	425	425	±0

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THE MD DIFFERENCE

Trusted by operators worldwide, the unmatched agility, reliability and performance of MD Helicopters' highly versatile light rotorcraft makes them the choice of hundreds of law enforcement, military, private, and commercial customers. Extensive experience supporting a hard-working global fleet with OEM-quality parts and highly responsive, expert technical advice and training helps ensure that MD operators maintain superior operational readiness.

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