

MD HELICOPTERS - SUPER X PROGRAM

FIELD FLEET UPGRADES



SUPER **E** FAMILY OF UPGRADES

ELEVATE THE PERFORMANCE OF YOUR MD 500E

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

EVERY SUPER E UPGRADE KIT INCLUDES

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



START YOUR UPGRADE
mdhelicopters.com

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



FACTORY DIRECT

1.480.346.6300

UPGRADES@MDHELICOPTERS.COM

Toll free 1.800.388.3378

MD | HELICOPTERS™

4555 East McDowell Road
Mesa, Arizona 85215 USA

SUPER **E20B** UPGRADE

ENHANCED PERFORMANCE FROM THE **PROVEN C20B**

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 useful load and hover ceiling without changing engines.

This is most accessible path to a higher-performing 500E.

PERFORMANCE METRICS

PATH A · PERFORMANCE

SAME LOADS, HARDER PLACES

Keep MGW at 3,000 lb.
Reinvest in hover and lift: +1,402 ft OGE at 15°C,
+1,055 ft OGE at 35°C.

PATH B · PAYLOAD

HEAVIER LOADS, SAME PLACES

Raise MGW to 3,350 lb. Carry +345 lb of useful load internally.

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

SAME AIRFRAME KIT. **MORE POWER**

The Super E20R offers the same comprehensive airframe and systems upgrades as the Super E20B. It includes longer blades, extended tail rotor gearbox, modified tailboom, and more.

It is powered by the 250-C20R engine for increased performance.

PERFORMANCE METRICS

PATH A · PERFORMANCE

SAME LOADS, HARDER PLACES

Keep MGW at 3,000 lb.
Reinvest the C20R upgrade in performance:
+4,585 ft OGE at 15°C, +50 shp take-off.

PATH B · PAYLOAD

HEAVIER LOADS, SAME PLACES

Raise MGW to 3,350 lb. Carry +337 lb internal and +200 lb external useful load.

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

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E-to-F CONVERSION**THE FULL CONVERSION TO HIGHER-PERFORMING 530FF**

Convert your fielded 500E into a higher-performing 530FF. More hover margin in hot and high conditions. 350 pounds of additional gross weight. 200 pounds of additional useful load.

KIT CONTENTS

- 650 shp Rolls-Royce 250-C30 engine
- Longer main and tail rotor blades
- Tailboom extension & longer tail rotor driveshaft
- New main rotor gearbox
- Temp, torque, and RPM gauge updates

PERFORMANCE METRICS**PATH A · PERFORMANCE****SAME LOADS, HARDER PLACES**

Keep MGW at 3,000 lb. Reinvest the conversion in performance: +5,255 ft OGE @ 35°C, +7,280 ft IGE @ 15°C, +50 shp take-off power.

PATH B · PAYLOAD**HEAVIER LOADS, SAME PLACES**

Raise MGW to 3,350 lb. Carry +478 lb of internal useful load

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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