

MD HELICOPTERS - SUPER X PROGRAM

FIELDED FLEET UPGRADES



# SUPER **D** FAMILY OF UPGRADES

## ELEVATE THE PERFORMANCE OF YOUR MD 500D

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 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](https://mdhelicopters.com)

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



**FACTORY DIRECT**

1.480.346.6300

[UPGRADES@MDHELICOPTERS.COM](mailto:UPGRADES@MDHELICOPTERS.COM)

Toll free 1.800.388.3378

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4555 East McDowell Road  
Mesa, Arizona 85215 USA

# SUPER **D20B** UPGRADE

## ENHANCED PERFORMANCE FROM THE **PROVEN C20B**

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

### PATH A · PERFORMANCE

#### SAME LOADS, HARDER PLACES

Keep MGW at 3,000 lb.  
Reinvest in performance: +1,055 ft OGE  
hover at 35°C, +1,230 ft IGE at 15°C.

### PATH B · PAYLOAD

#### HEAVIER LOADS, SAME PLACES

Raise MGW to 3,350 lb. Carry +345 lb of useful load internally.  
Hover margins trade down accordingly.

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

## SAME AIRFRAME KIT. **MORE POWER**

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

### PATH A · PERFORMANCE

#### SAME LOADS, HARDER PLACES

Keep MGW at 3,000 lb.  
Reinvest in performance: +1,055 ft OGE  
hover at 35°C, +1,230 ft IGE at 15°C.

### PATH B · PAYLOAD

#### HEAVIER LOADS, SAME PLACES

Raise MGW to 3,350 lb. Carry +345 lb of useful load internally.  
Hover margins trade down accordingly.

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 **D30** UPGRADE

## THE FULL SUPER D EXPERIENCE

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

### PATH A · PERFORMANCE

#### SAME LOADS, HARDER PLACES

Keep MGW at 3,000 lb.  
Reinvest in margin: +5,365 ft OGE hover at 35°C,  
+50 shp take-off power.

### PATH B · PAYLOAD

#### HEAVIER LOADS, SAME PLACES

Raise MGW to 3,350 lb. Carry +250 lb internal and +200 lb external useful load while recovering +2,885 ft OGE hover at 35°C.

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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