

# Technical Description

SERIES

MD 500



PAYLOAD & R

SL, ISA

SK, ISA

OGE  
Hover  
Ceiling  
(ISA)

Static Mast Rotor Support

Five-Blade Fully Articulated Main Rotor

425 shp Drive System

Outstanding Outwa

NOTAR® AntiTorque System

Rolls-Royce 250-C20R 450 shp Turbine Engine

Crashworthy A  
with Integral

Five-Place Seating Capacity

Simple Mechanic

Flat Cargo Floor

MD HELICOPTERS™

# MD500 SERIES

## Technical Description



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*This Technical Description is not subject to a revision service. It is the manufacturer's practice to continuously improve its products and therefore the right is reserved to make changes without notice in the design or manufacture of the MD 500 series helicopter which may be considered necessary.*

# MD500E

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# MD500E



# MD500E

## THE HIGH PERFORMANCE LIGHT HELICOPTER

### 1.0 High performance.

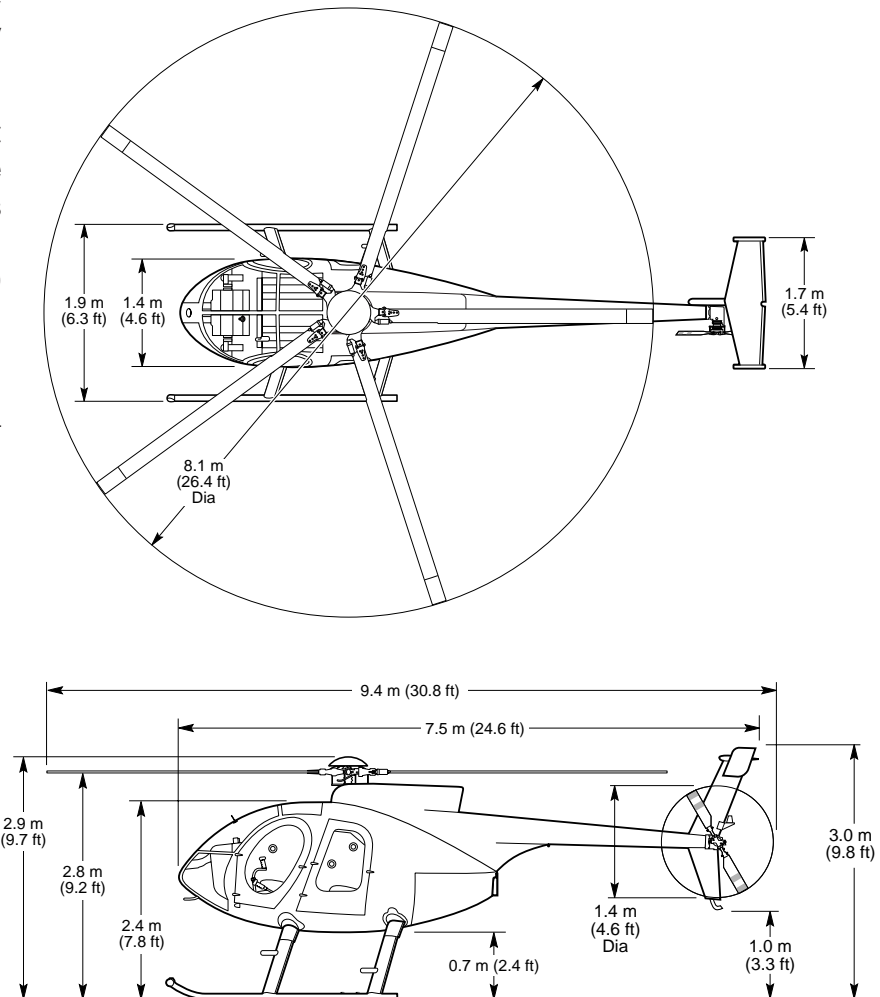
The MD 500E delivers the highest speed, payload and productivity in its class. Rear seat passengers have greater headroom and visibility than earlier Model 500s. Refinements provide first class front and rear seating with ample legroom. The T-shaped instrument panel provides space for a full complement of modern avionics.

With a five-bladed main rotor and the choice of a 420-shp Allison 250-C20B or 450-shp Allison 250-C20R turbine engine, the MD 500E is the best performing helicopter in its class.

The MD 500E light turbine helicopter allows easy configuration conversions from a deluxe, five-place executive transport to a utility cargo carrier. Typical uses include urban and remote location transportation of key personnel, technicians and craftsmen; aerial survey, patrol and photography; agricultural and fire-fighting applications; air rescue operations; and numerous other tasks within the construction, petroleum and forestry industries.

Optional high-clearance skids permit operations in rough terrain, while other optional equipment, such as inflatable floats, litter kit and external baggage pods increase the MD 500E's versatility.

Proven reliability of the derated turbine engine, fail-safe design and a worldwide network of factory-authorized service centers assure customer satisfaction.



MD 500E with optional extended landing gear.

#### NOTES

1. Helicopter on ground with full fuel. Typical attitude of cargo deck 5.3 degrees nose up.
2. Height-above-ground dimensions vary with installed equipment, center of gravity and terrain features.
3. If standard landing gear is installed, all vertical dimensions will be 0.3 m (1.0 ft) less.

# MD500E

## STANDARD EQUIPMENT

### 2.0 Equipment.

#### Airframe

- Tinted canopy panels
- Tinted door/window panel-left front
- Tinted door/window panel-left rear
- Tinted door/window panel-right front
- Tinted door/window panel-right rear
- Rain gutter set
- Short landing gear
- Keyed locks (4)
- Fuselage hard points
- Jacking fittings
- Passenger steps
- Anti-collision lights (2)
- Landing light, nose mounted
- Position lights
- Paint 1 color standard

#### Interior

- Crew seats with 4-point harness restraint
- Passenger seats with 3-point harness restraint
- Vinyl and fabric cushions - 5 seats
- Vinyl interior trim panels
- Crew and cabin compartment floor carpet
- Map case
- Fire extinguisher
- First aid kit
- Crew ashtray and lighter/28-volt utility outlet
- Cabin lighter/28-volt utility outlet
- Battery-heavy duty Marathon 17-ampere-hour
- Ventilation system
- Cockpit utility light
- Cabin convenience light
- Instrument lighting
- Cabin soundproofing
- Cargo tie-down fittings

#### Engine and Electrical

- Allison 250-C20B engine, 420 shp (313 kw)
- Automatic engine reignition
- Engine wash kit, MD 500 series
- Engine compressor anti-ice
- 64 gallon (242 l) fuel system
- 85 amp starter generator
- External power receptacle

#### Rotor and Controls

- Flight controls, single, left hand command

#### Flight and Engine Instruments

- Dual tachometer,  $N_R$  and  $N_2$
- Engine oil pressure indicator
- Engine torque meter
- $N_1$  tachometer
- Hobbs engine running time meter
- Fuel quantity indicator
- Digital chronometer
- Airspeed indicator
- Barometric altimeter
- DC ammeter
- Outside air temperature indicator
- Magnetic compass
- Turbine outlet temp indicator
- Engine oil temp indicator

# **MD500E**

## **STANDARD EQUIPMENT**

### **Annunciator Panel**

- Battery overtemp warning light
- Engine chip detector warning light
- Engine out warning light
- Fuel filter obstruction warning light
- Fuel low warning light
- Generator out warning light
- Low rotor rpm warning light
- Main transmission chip detector warning light
- Main transmission oil pressure warning light
- Main transmission oil temp warning light
- Tail rotor transmission chip detector warning light

### **Miscellaneous**

- Ground handling wheels
- Engine and airframe log books
- Engine maintenance manual
- Battery manual
- Flight manual
- Handbook of maintenance instructions
- Illustrated parts catalog
- Engine exhaust cover
- Engine inlet cover
- Pitot tube cover
- Main rotor blade tie-downs

# MD500E

## WITH C20B ENGINE

### 3.0 PERFORMANCE SPECIFICATIONS

| <i>Characteristics<br/>at Design Gross Weight</i> |                              | <i>Metric<br/>1361 kg</i> | <i>Imperial<br/>3,000 lb</i> |
|---|------------------------------|---------------------------|------------------------------|
| Maximum Cruise Speed:                             | Sea level                    | 249 km/hr                 | 135 kt (155 mph)             |
|   | 1524 m (5,000 ft)            | 246 km/hr                 | 133 kt (153 mph)             |
| Maximum Permitted Speed:                          | V <sub>NE</sub> at sea level | 282 km/hr                 | 152 kt (175 mph)             |
| Maximum Range:                                    | Sea level                    | 443 km                    | 239 nm (275 mi)              |
|   | 1524 m (5,000 ft)            | 488 km                    | 264 nm (304 mi)              |
| Maximum Endurance:                                | Sea level                    | 2.7 hr                    | 2.7 hr                       |
| Maximum Rate of Climb:(TOP)                       | Sea level, Standard day      | 9.0 m/sec                 | 1,770 fpm                    |
|   | ISA +20° C day               | 9.0 m/sec                 | 1,776 fpm                    |
| Maximum Operating Altitude:                       | Density Altitude             | 4877 m                    | 16,000 ft                    |
| Service Ceiling:                                  | ISA                          | 4227 m                    | 13,900 ft                    |
| Maximum Hook Capacity:                            |                              | 907 kg                    | 2,000 lb                     |
| Hovering Performance:                             |                              |                           |                              |
| In-ground effect:                                 | Standard day                 | 2591 m                    | 8,500 ft                     |
|   | ISA + 20° C day              | 1829 m                    | 6,000 ft                     |
| Out-of-ground effect:                             | Standard day                 | 1829 m                    | 6,000 ft                     |
|   | ISA + 20° C day              | 945 m                     | 3,100 ft                     |

### WEIGHTS

| <i>Characteristics</i> |                          | <i>Metric</i> | <i>Imperial</i> |
|------------------------|--------------------------|---------------|-----------------|
| Maximum Gross Weight:  | Normal category          | 1361 kg       | 3,000 lb        |
|                        | External load operations | 1610 kg       | 3,550 lb        |
| Empty Weight:          | Standard configuration   | 672 kg        | 1,481 lb        |
| Useful Load:           | Normal category          | 689 kg        | 1,519 lb        |
|                        | External load operations | 938 kg        | 2,069 lb        |
| Usable Fuel Capacity:  | 242 L (64 gal)           | 183 kg        | 403 lb          |

### POWER PLANT

| <i>Characteristics</i>                 |                        | <i>Metric</i> | <i>Imperial</i> |
|--|------------------------|---------------|-----------------|
| Allison Model 250-C20B gas turbine,    | Rated power:           | 313 kw        | 420 shp         |
| Derated for reliability and safety to: | Takeoff power:         | 280 kw        | 375 shp         |
|  | Max. continuous power: | 261 kw        | 350 shp         |



# MD500E

## WITH C20R ENGINE

### PERFORMANCE SPECIFICATIONS

| <i>Characteristics<br/>at Design Gross Weight</i> |                              | <i>Metric<br/>1361 kg</i> | <i>Imperial<br/>3,000 lb</i> |
|---|------------------------------|---------------------------|------------------------------|
| Maximum Cruise Speed:                             | Sea level                    | 249 km/hr                 | 135 kt (155 mph)             |
|   | 1524 m (5,000 ft)            | 251 km/hr                 | 136 kt (156 mph)             |
| Maximum Permitted Speed:                          | V <sub>NE</sub> at sea level | 282 km/hr                 | 152 kt (175 mph)             |
| Maximum Range:                                    | Sea level                    | 431 km                    | 233 nm (268 mi)              |
|   | 1524 m (5,000 ft)            | 478 km                    | 258 nm (297 mi)              |
| Maximum Endurance:                                | Sea level                    | 2.5 hr                    | 2.5 hr                       |
| Maximum Rate of Climb:(TOP)                       | Sea level, Standard day      | 9.0 m/sec                 | 1,770 fpm                    |
|   | ISA +20° C day               | 9.0 m/sec                 | 1,776 fpm                    |
| Maximum Operating Altitude:                       | Density Altitude             | 4877 m                    | 16,000 ft                    |
| Service Ceiling:                                  | ISA                          | 5029 m                    | 16,500 ft                    |
| Maximum Hook Capacity:                            |                              | 907 kg                    | 2,000 lb                     |
| Hovering Performance:                             |                              |                           |                              |
| In-ground effect:                                 | Standard day                 | 3444 m                    | 11,300 ft                    |
|   | ISA + 20° C day              | 2103 m                    | 6,900 ft                     |
| Out-of-ground effect:                             | Standard day                 | 2652 m                    | 8,700 ft                     |
|   | ISA + 20° C day              | 1250 m                    | 4,100 ft                     |

### WEIGHTS

| <i>Characteristics</i> |                          | <i>Metric</i> | <i>Imperial</i> |
|------------------------|--------------------------|---------------|-----------------|
| Maximum Gross Weight:  | Normal category          | 1361 kg       | 3,000 lb        |
|                        | External load operations | 1610 kg       | 3,550 lb        |
| Empty Weight:          | Standard configuration   | 688 kg        | 1,517 lb        |
| Useful Load:           | Normal category          | 673 kg        | 1,483 lb        |
|                        | External load operations | 922 kg        | 2,033 lb        |
| Usable Fuel Capacity:  | 242 L (64 gal)           | 183 kg        | 403 lb          |

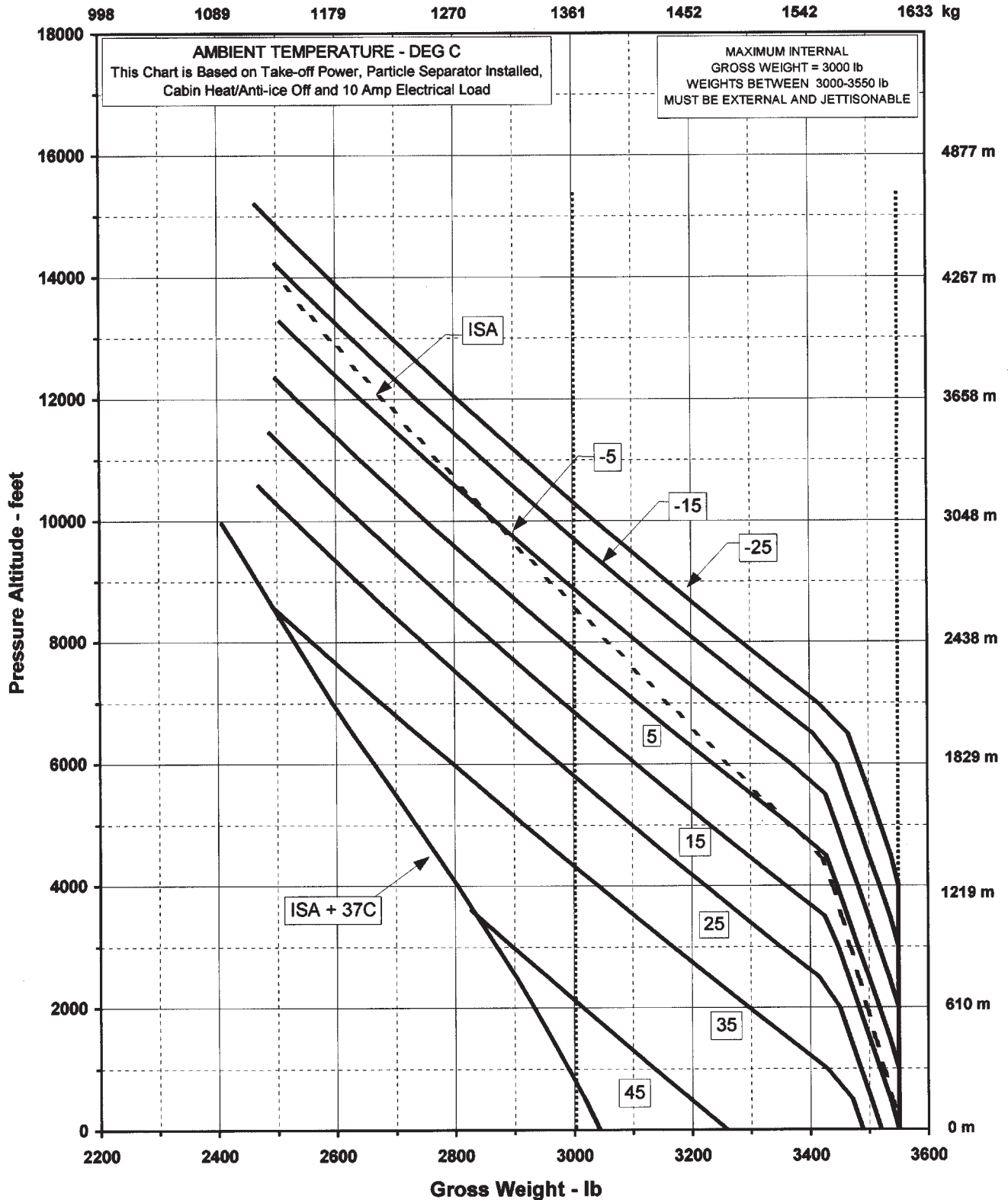
### POWER PLANT

| <i>Characteristics</i>                 |                        | <i>Metric</i> | <i>Imperial</i> |
|--|------------------------|---------------|-----------------|
| Allison Model 250-C20R gas turbine,    | Rated power:           | 336 kw        | 450 shp         |
| Derated for reliability and safety to: | Takeoff power:         | 280 kw        | 375 shp         |
|  | Max. continuous power: | 261 kw        | 350 shp         |

# MD500E

## WITH C20B ENGINE

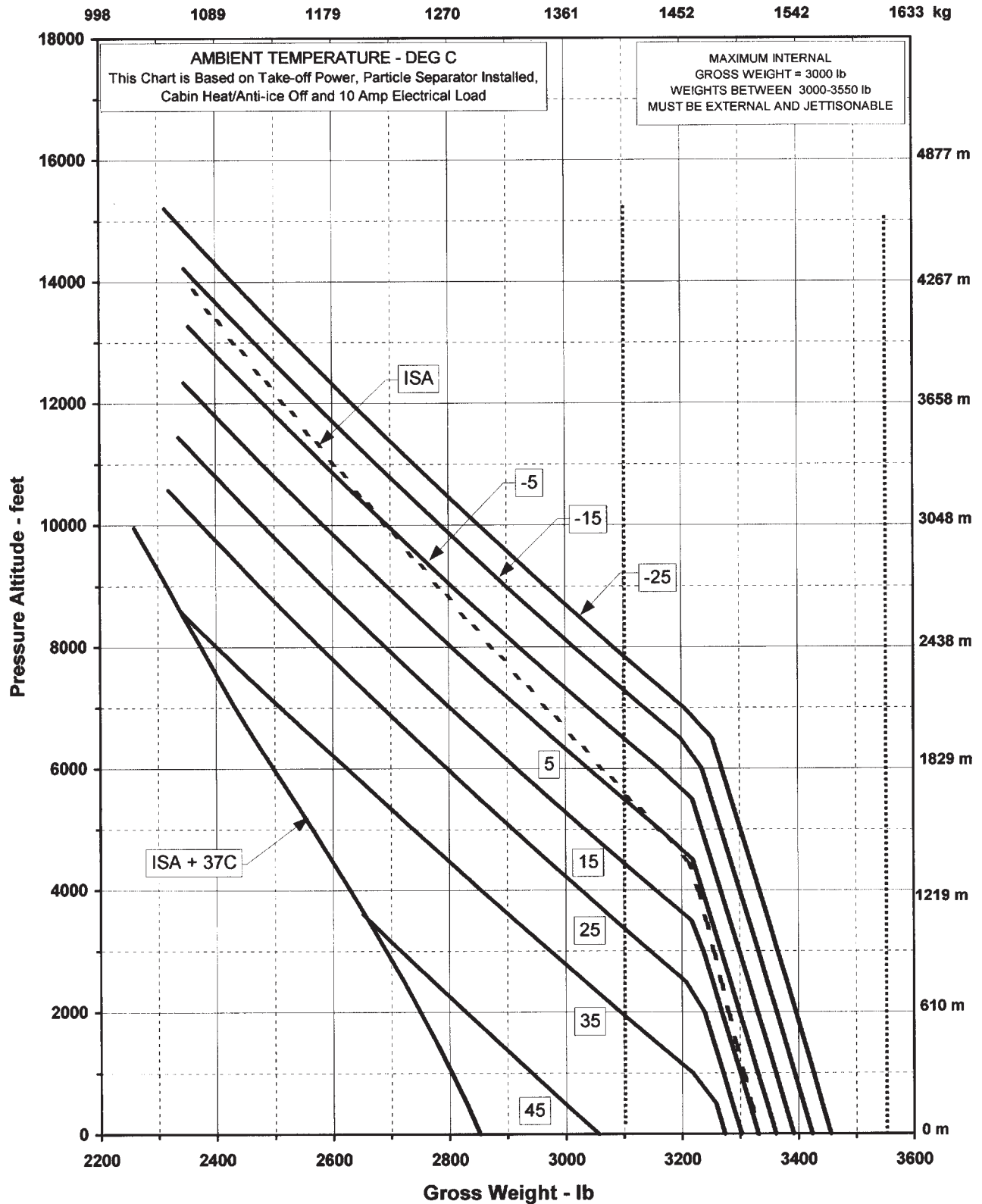
### 3.1 Hover-In-Ground-Effect.



# MD500E

## WITH C20B ENGINE

### 3.2 Hover-Out of-Ground-Effect.



# MD500E

## WITH C20B ENGINE

### 3.3 Takeoff Gross Weight Worksheet.

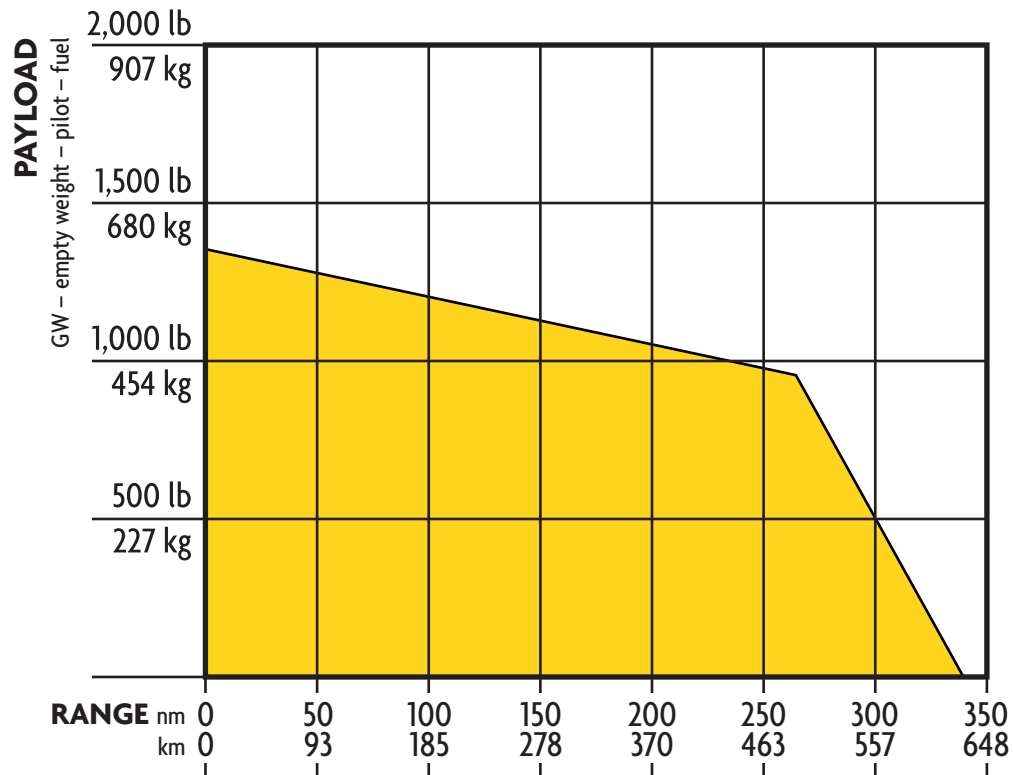
|                     | C20B                  | Mission #1 | Mission #2 |
|---------------------|-----------------------|------------|------------|
| <b>Empty Weight</b> | 1,481 lb<br>(672 kg)  |            |            |
| <b>Pilot</b>        | 170 lb<br>(77 kg)     |            |            |
| <b>Fuel</b>         | 403 lb<br>(183 kg)    |            |            |
| <b>Payload</b>      | 946 lb<br>(428 kg)    |            |            |
| <b>Takeoff GW</b>   | 3,000 lb<br>(1361 kg) |            |            |



# MD500E

## WITH C20B ENGINE

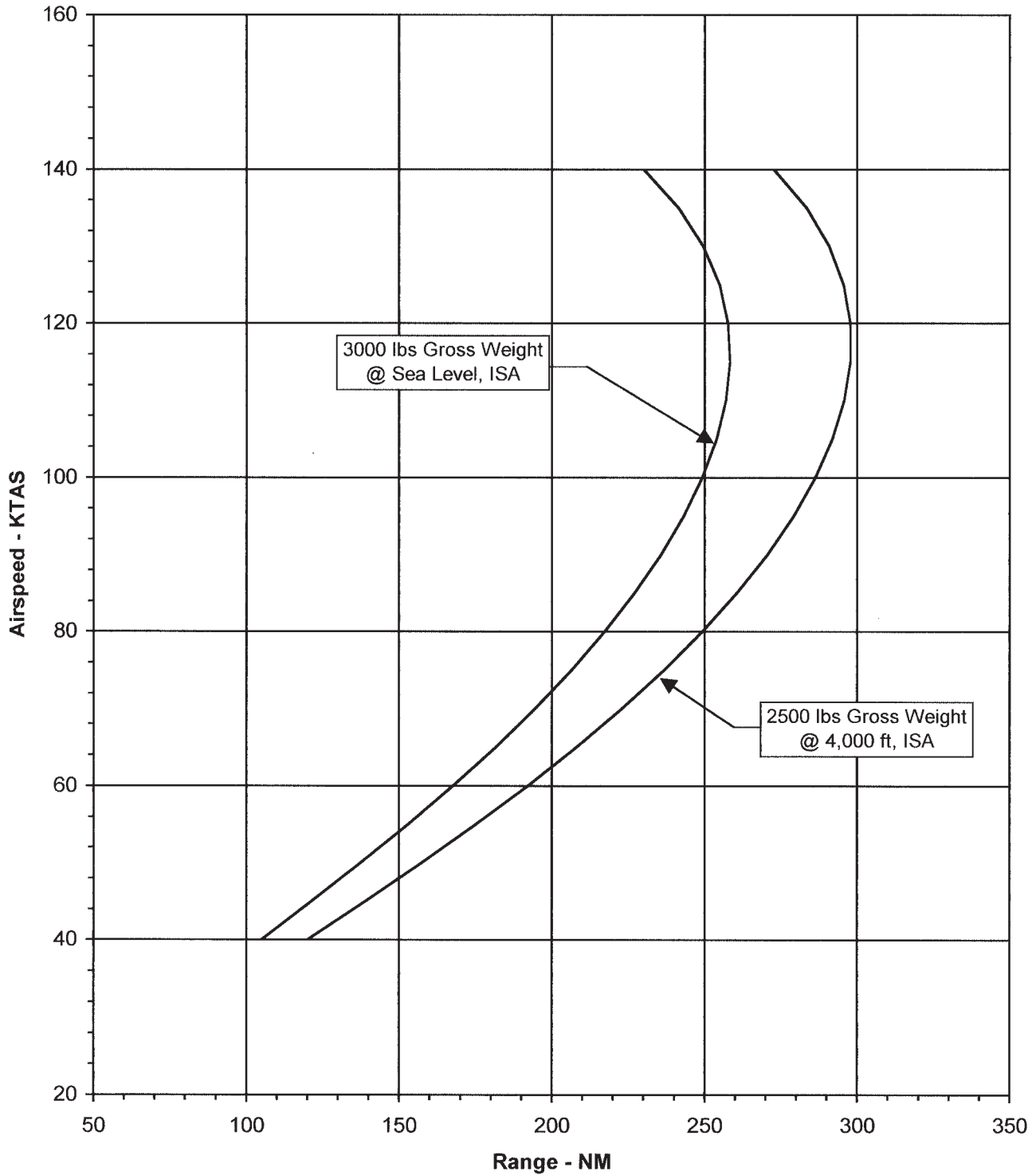
### 3.4 Payload vs Range (5000', ISA).



# MD500E

## WITH C20B ENGINE

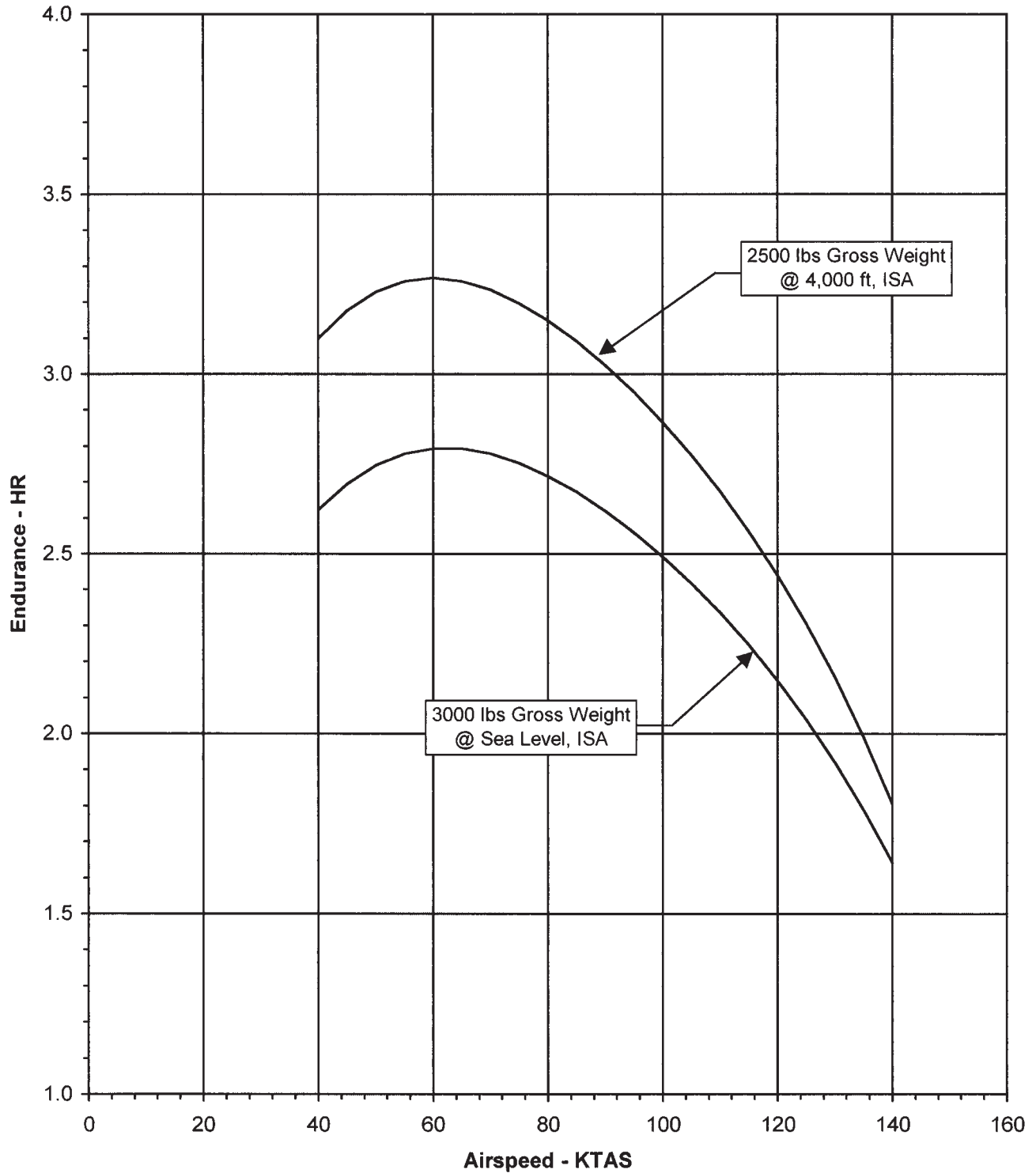
### 3.5 Speed for Best Range.



# MD500E

## WITH C20B ENGINE

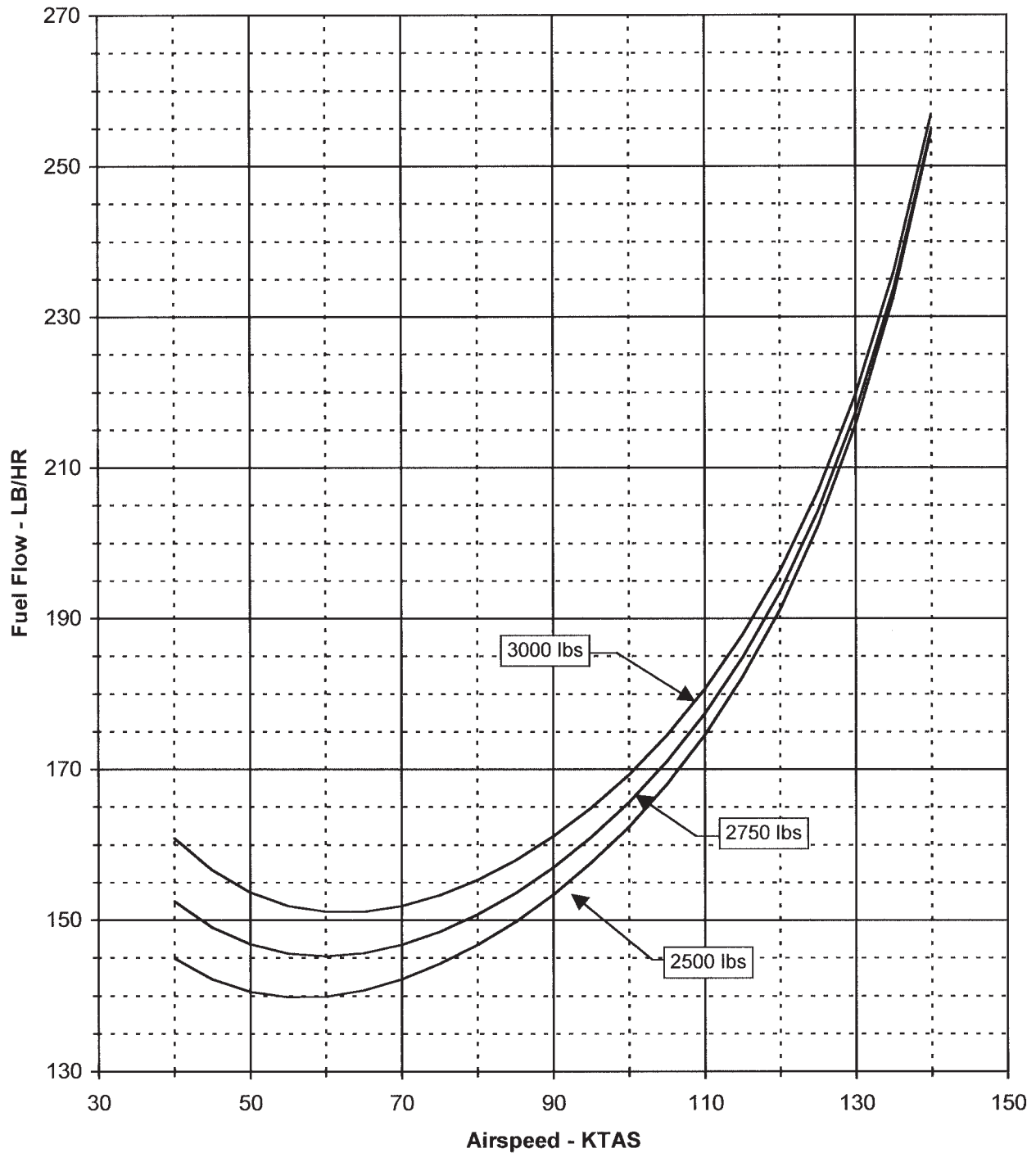
### 3.6 Speed for Best Endurance.



# MD500E

## WITH C20B ENGINE

### 3.7 Fuel Flow, Sea Level, ISA (15°C).



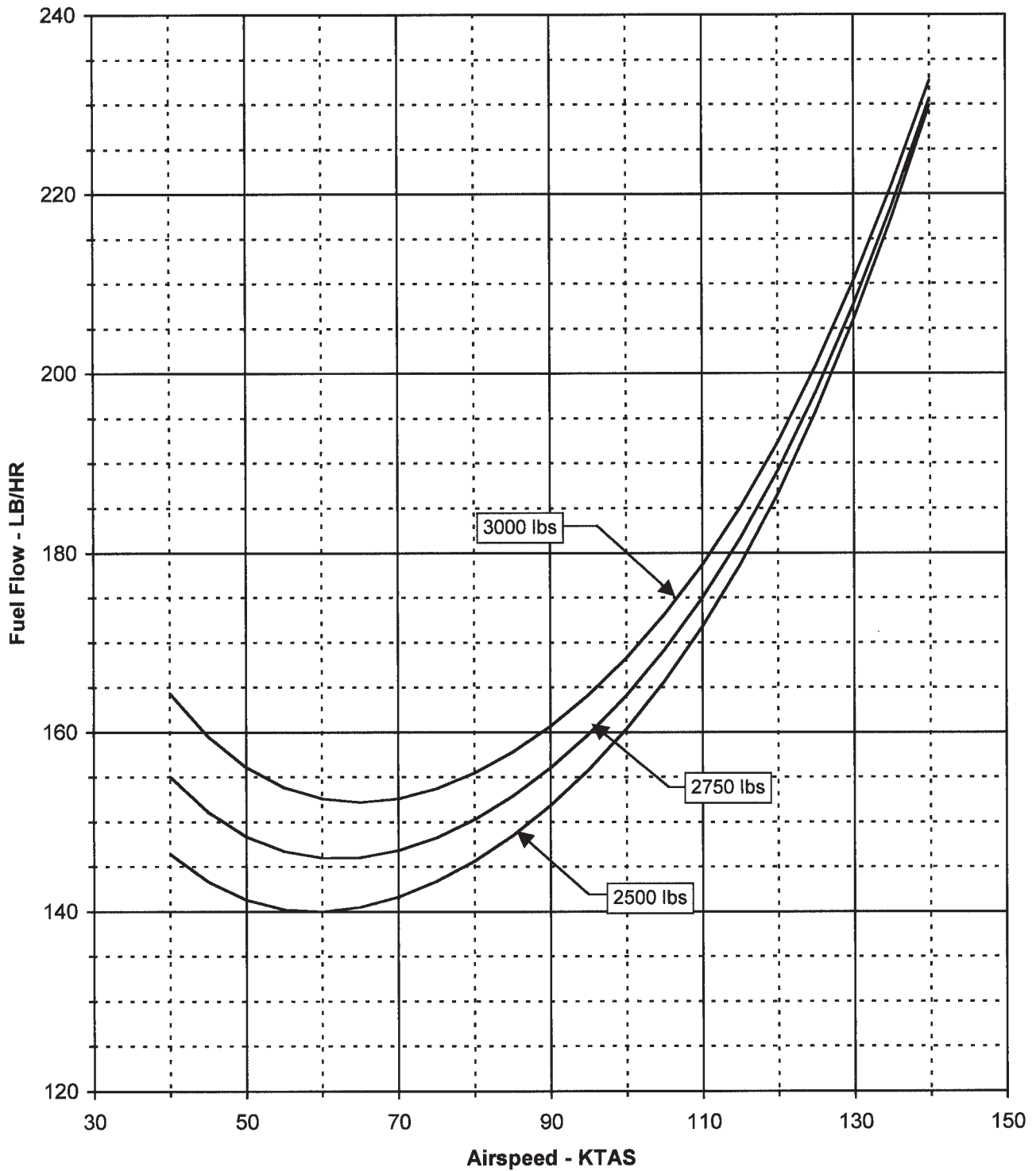
Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.



# MD500E

## WITH C20B ENGINE

### 3.8 Fuel Flow, Sea Level, ISA +20°C (35°C).

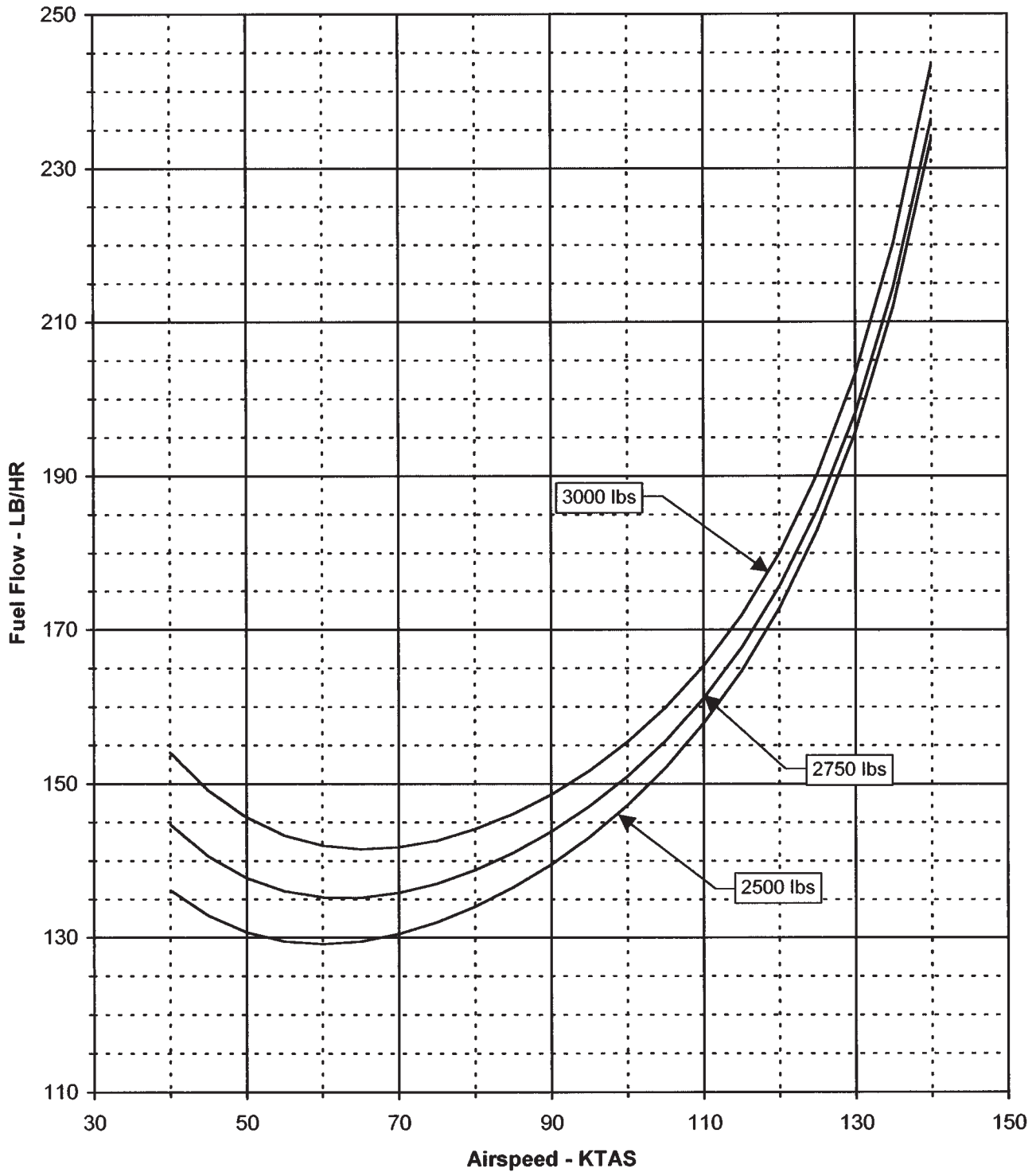


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20B ENGINE

### 3.9 Fuel Flow, 4,000 feet, ISA (7°C).

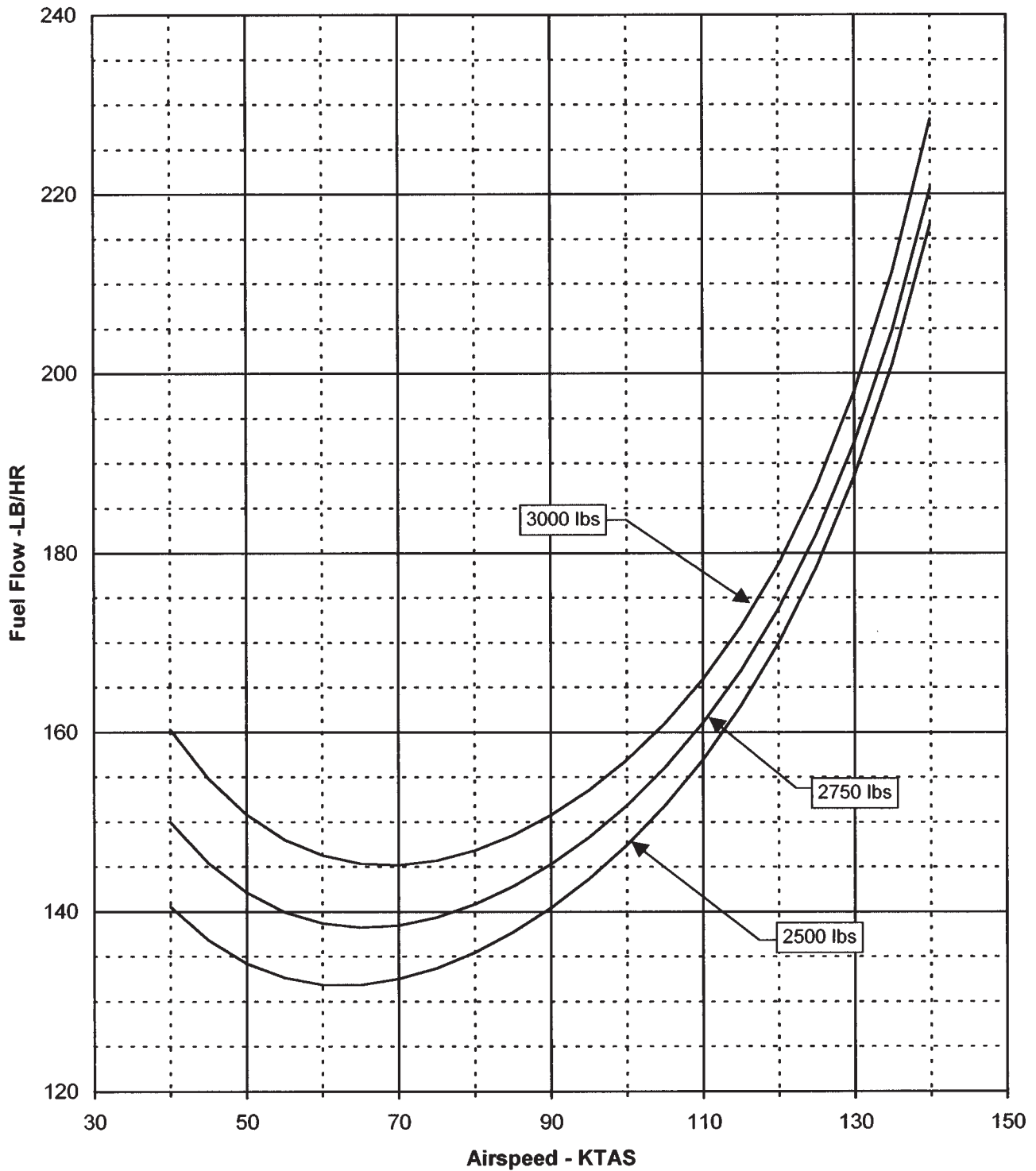


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20B ENGINE

### 3.10 Fuel Flow, 4,000 feet, ISA +20°C (27°C).

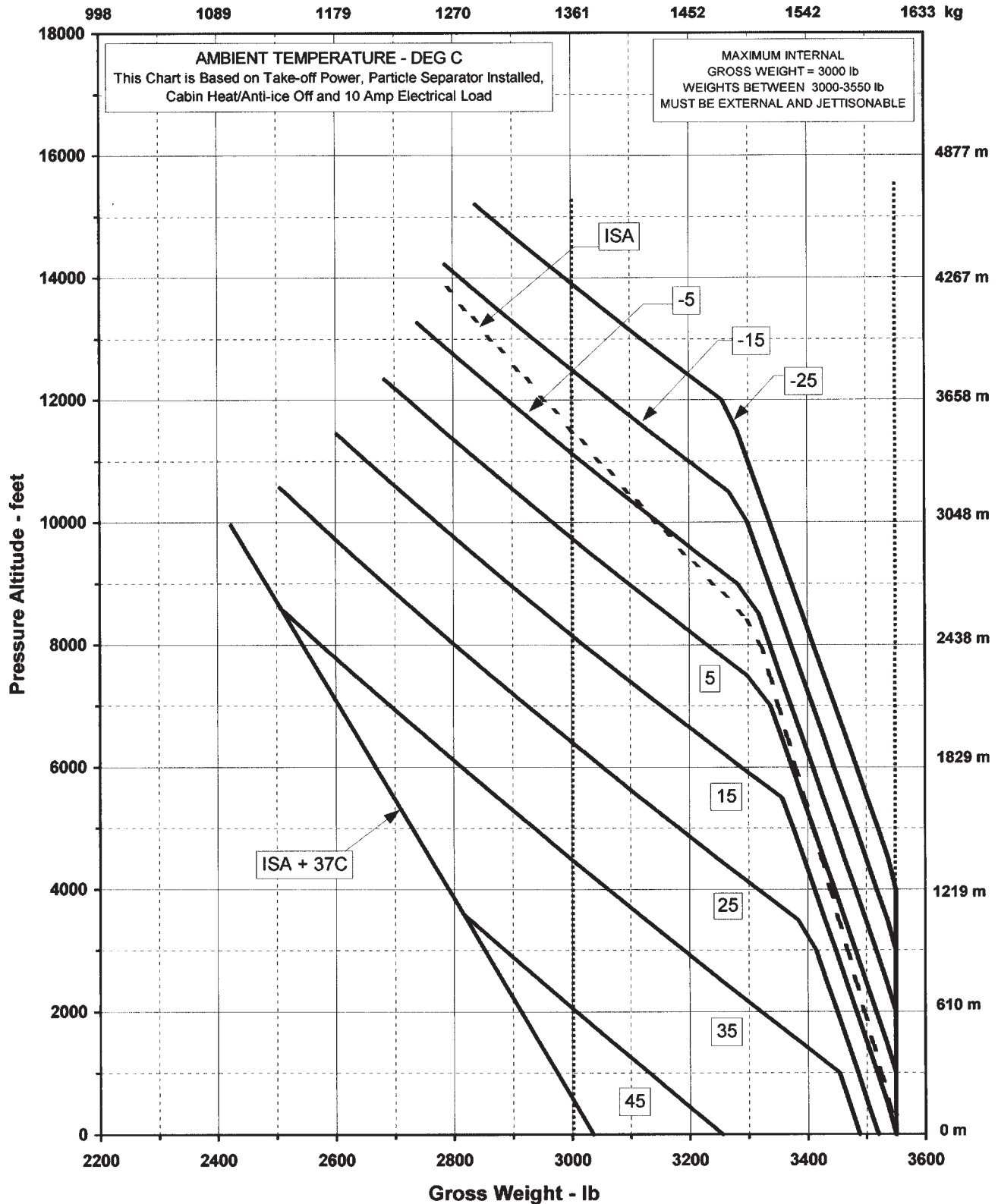


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20R ENGINE

### 3.11 Hover-In-Ground-Effect.

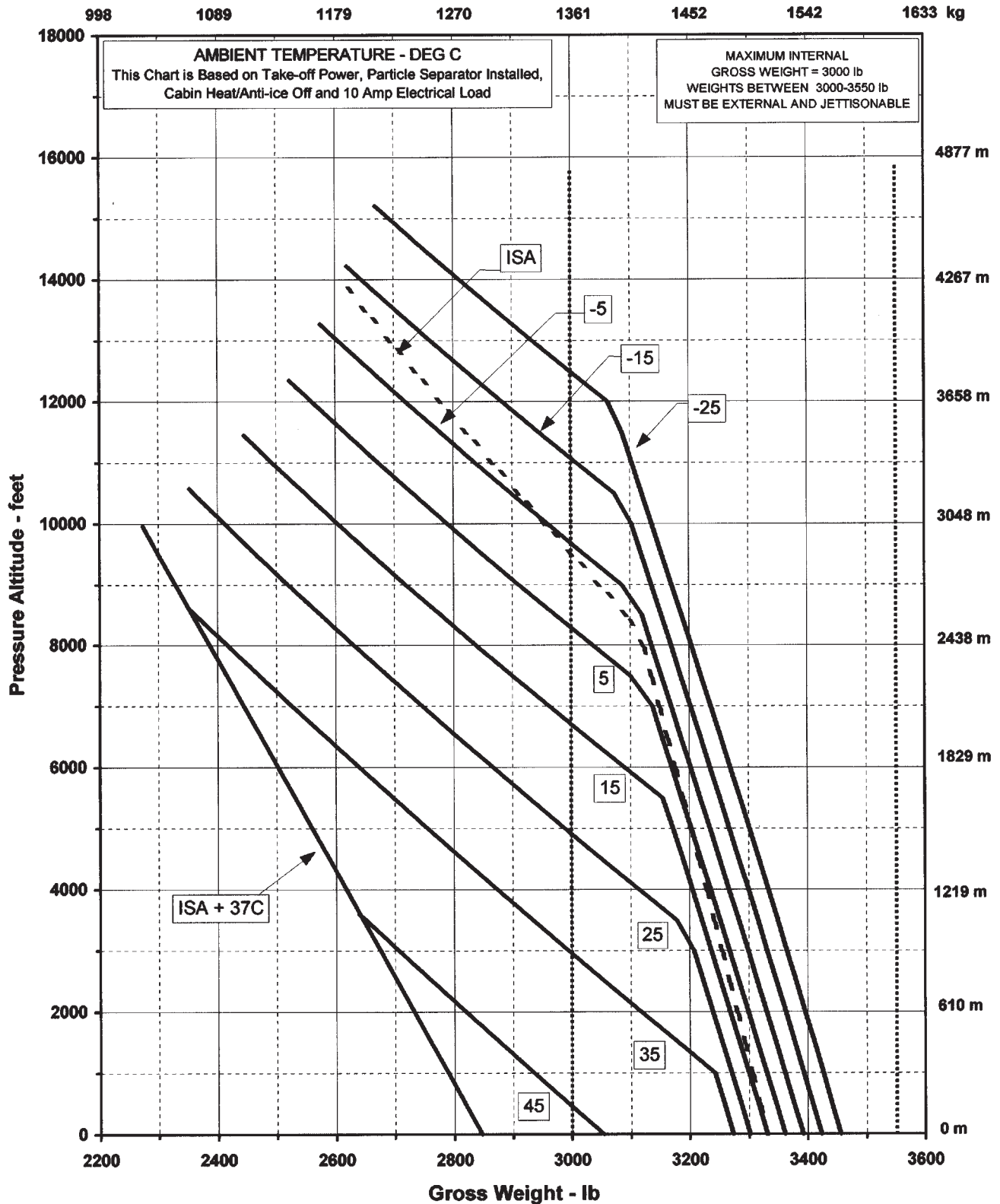




# MD500E

## WITH C20R ENGINE

### 3.12 Hover-Out of-Ground-Effect.



# MD500E

## WITH C20R ENGINE

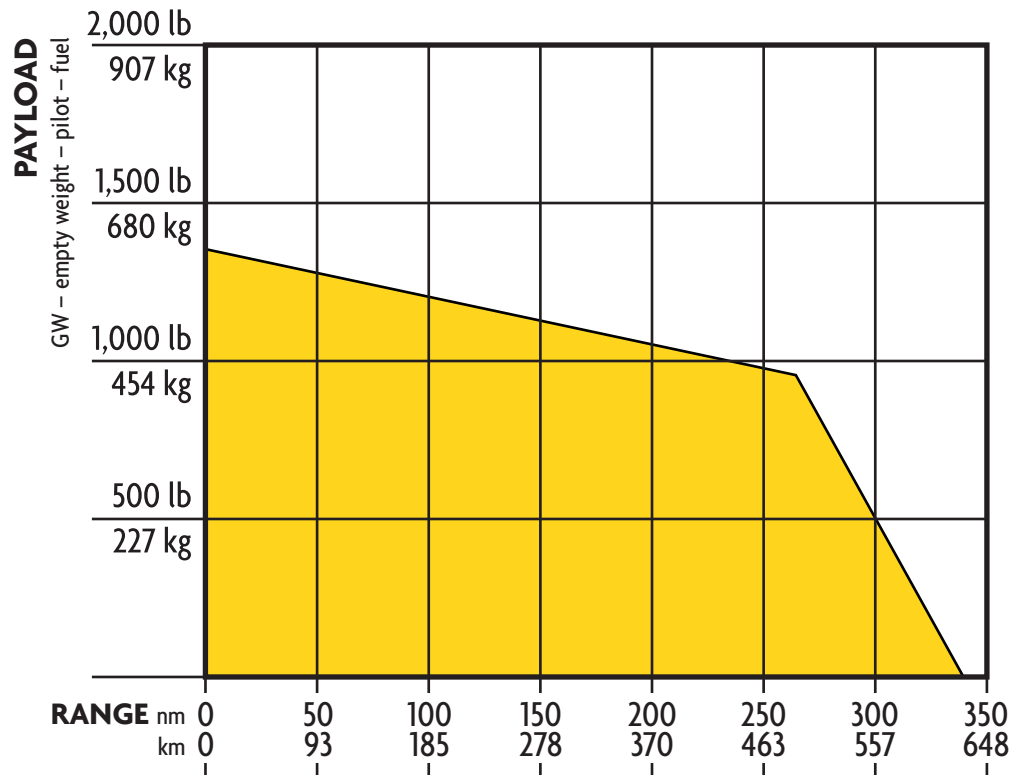
### 3.13 Takeoff Gross Weight Worksheet.

|                     | C20R                  | Mission #1 | Mission #2 |
|---------------------|-----------------------|------------|------------|
| <b>Empty Weight</b> | 1,517 lb<br>(688 kg)  |            |            |
| <b>Pilot</b>        | 170 lb<br>(77 kg)     |            |            |
| <b>Fuel</b>         | 403 lb<br>(183 kg)    |            |            |
| <b>Payload</b>      | 910 lb<br>(413 kg)    |            |            |
| <b>Takeoff GW</b>   | 3,000 lb<br>(1361 kg) |            |            |

# MD500E

## WITH C20R ENGINE

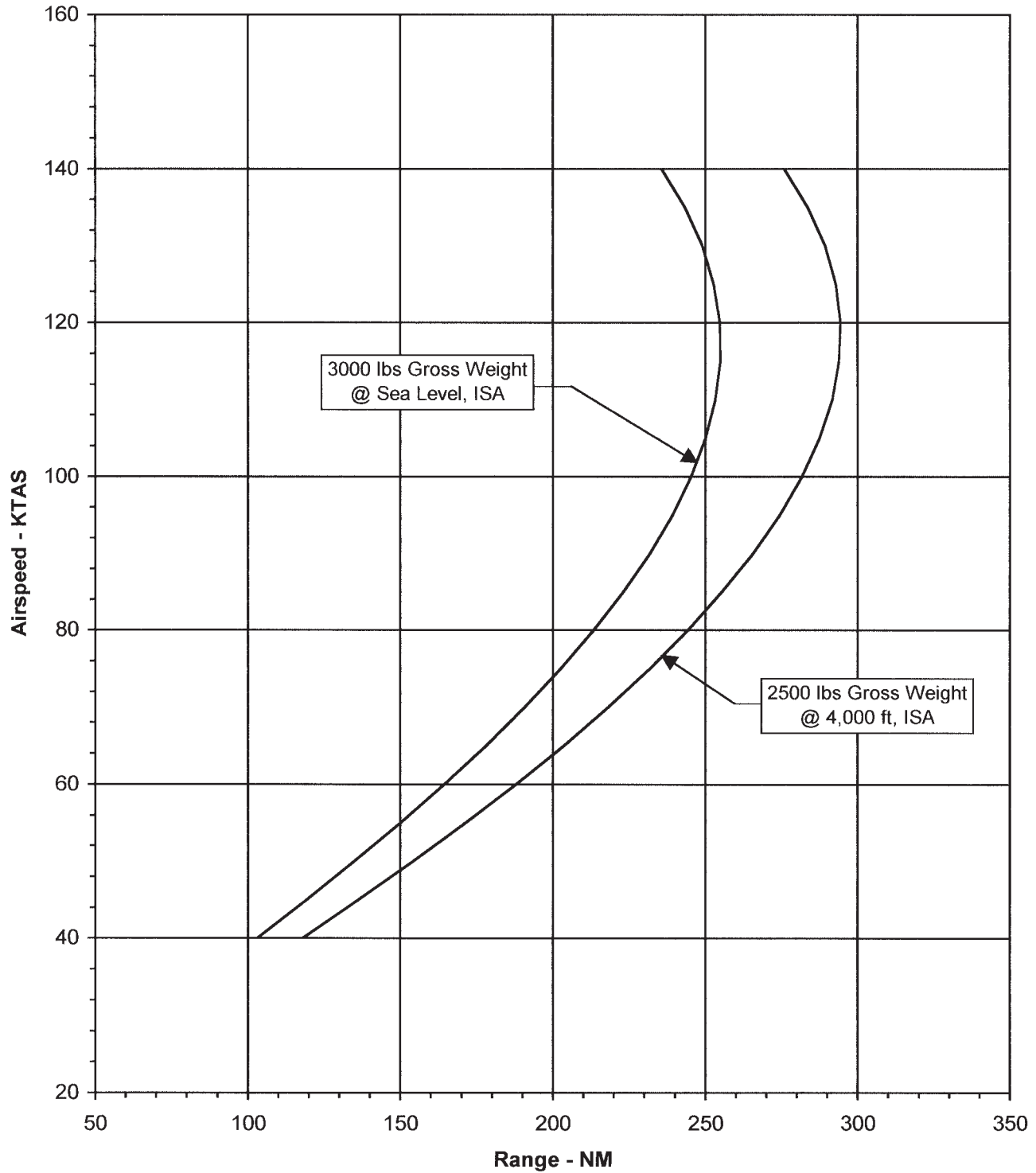
### 3.14 Payload vs Range (5000', ISA).



# MD500E

## WITH C20R ENGINE

### 3.15 Speed for Best Range.

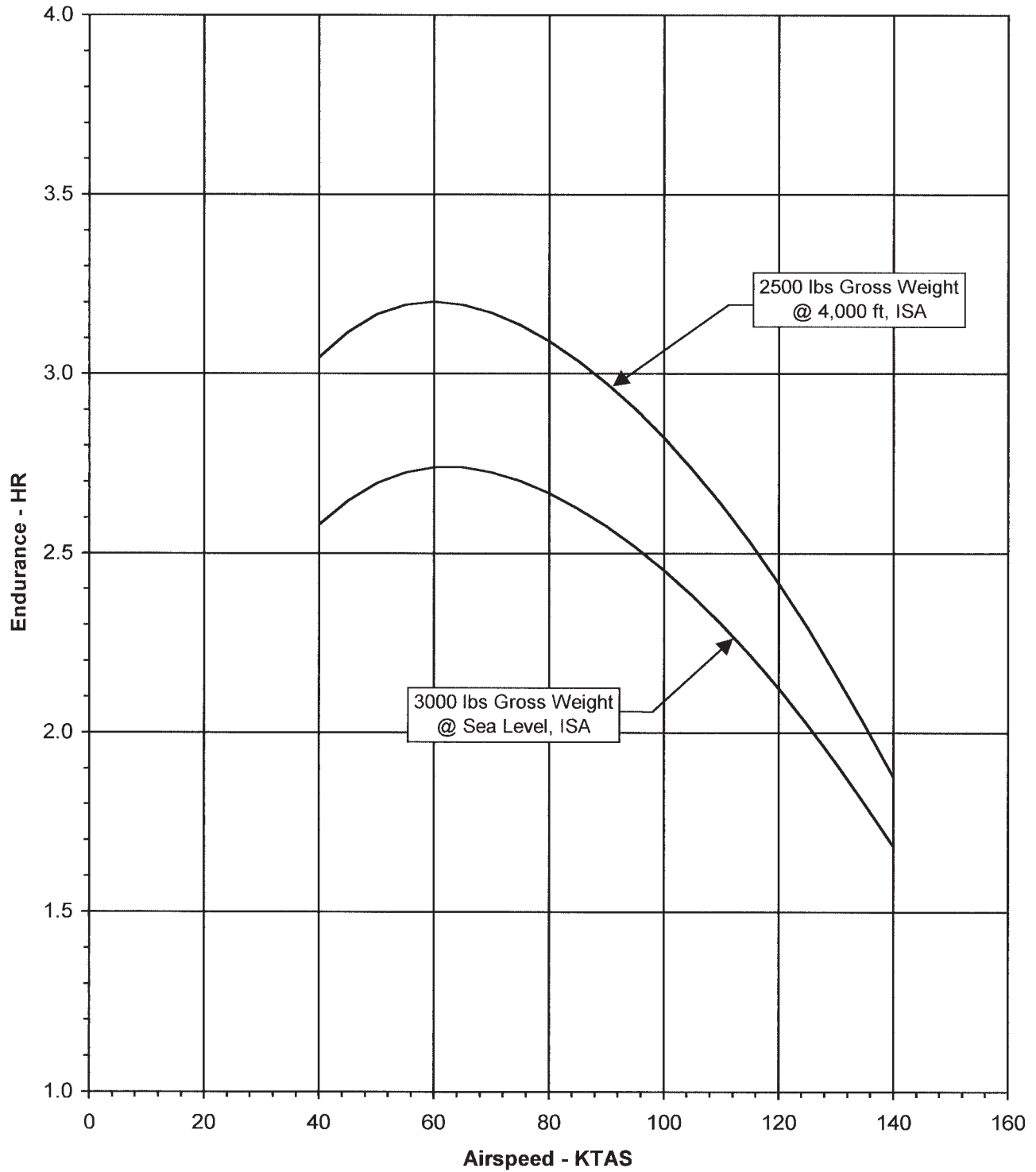




# MD500E

## WITH C20R ENGINE

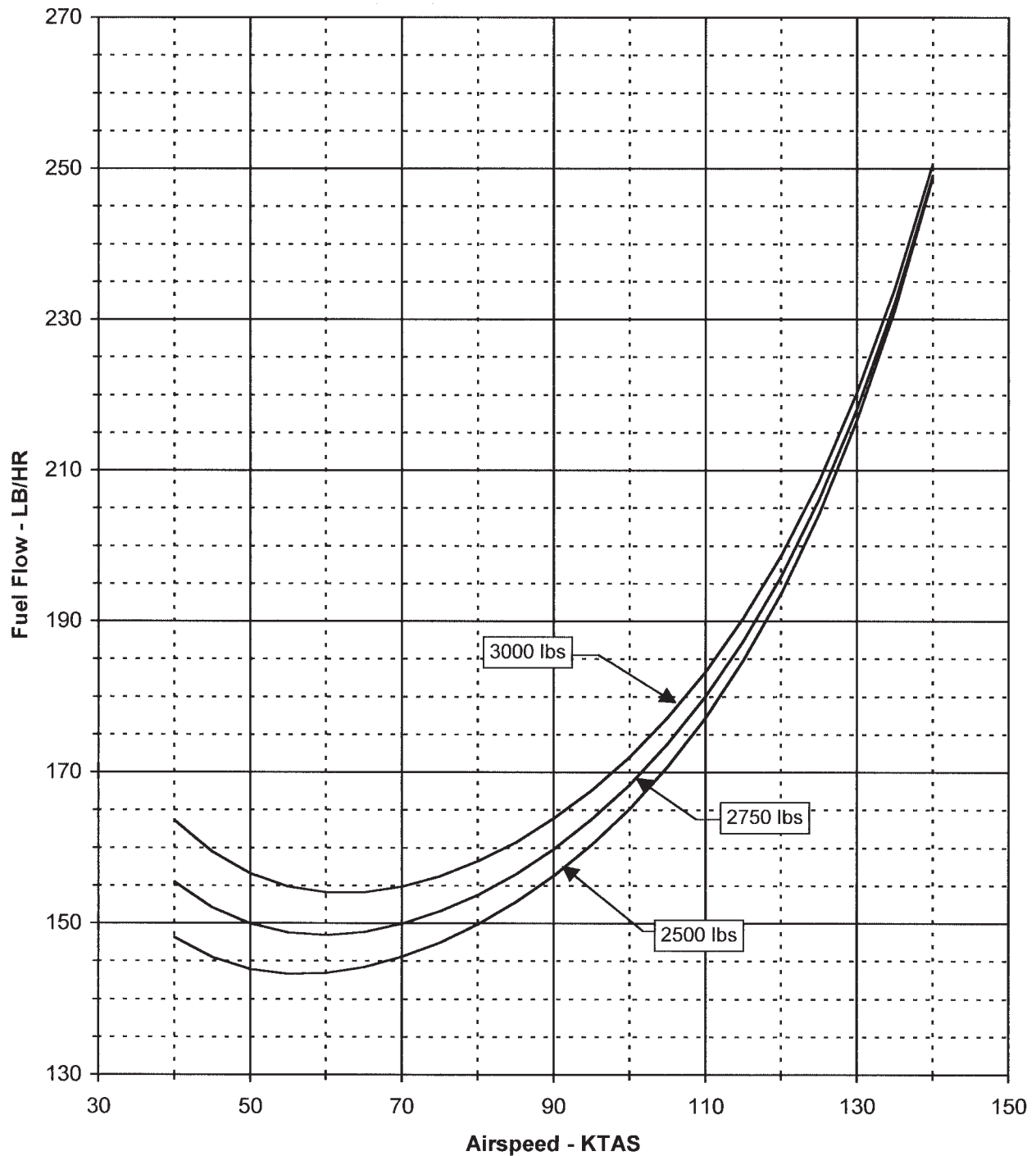
### 3.16 Speed for Best Endurance.



# MD500E

## WITH C20R ENGINE

### 3.17 Fuel Flow, Sea Level, ISA (15°C).

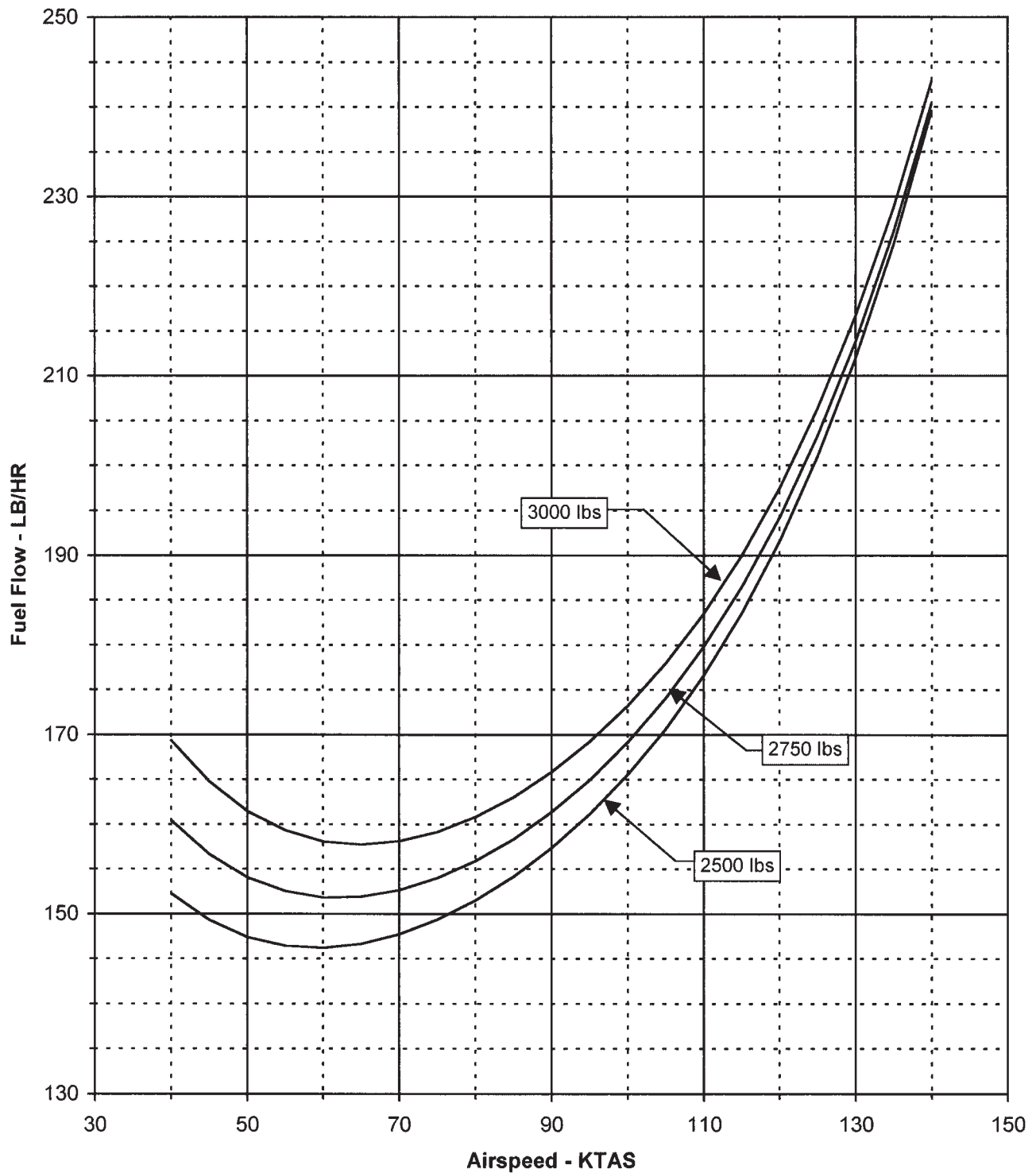


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20R ENGINE

### 3.18 Fuel Flow, Sea Level, ISA +20°C (35°C).

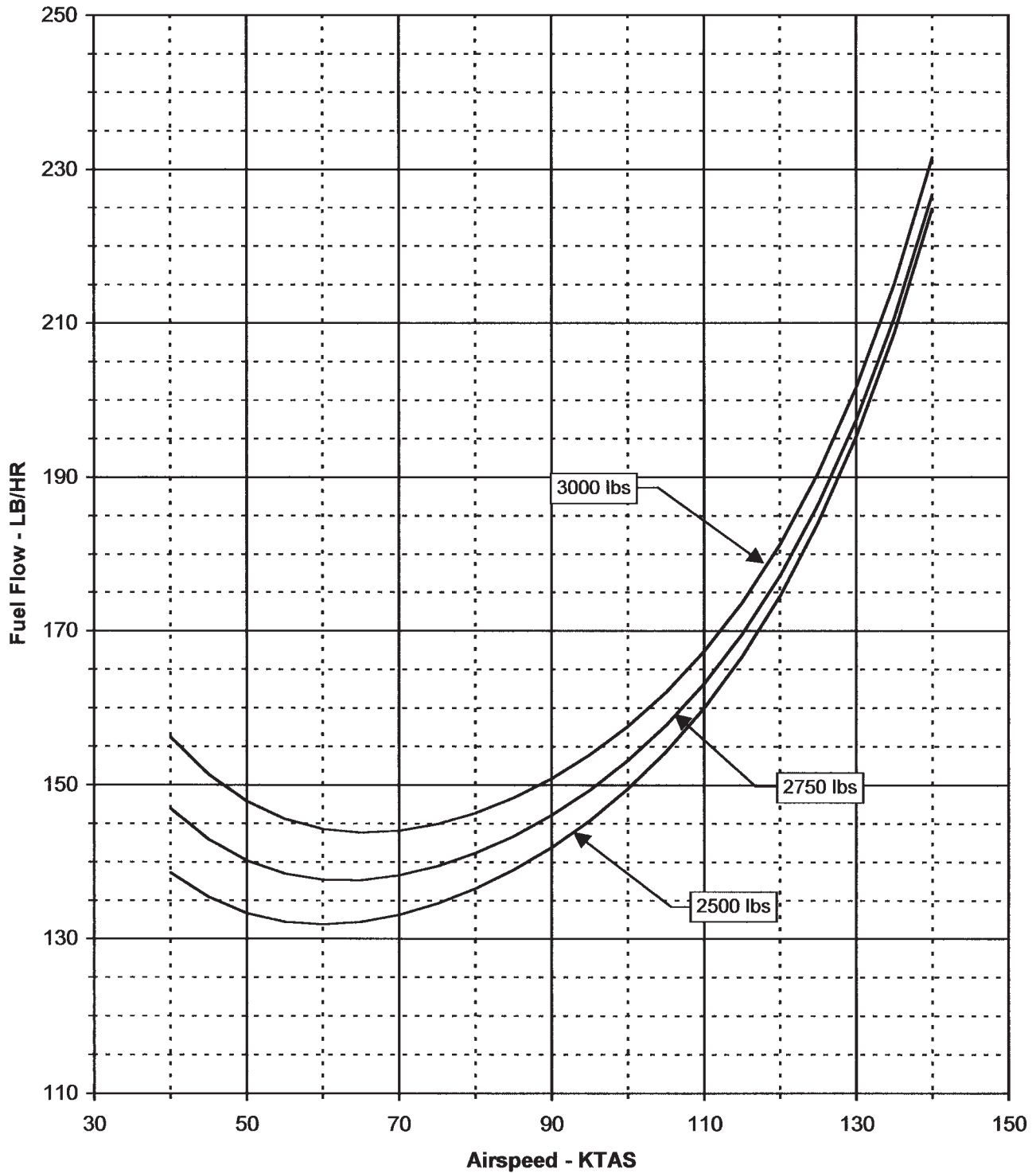


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20R ENGINE

### 3.19 Fuel Flow, 4,000 feet, ISA (7°C).

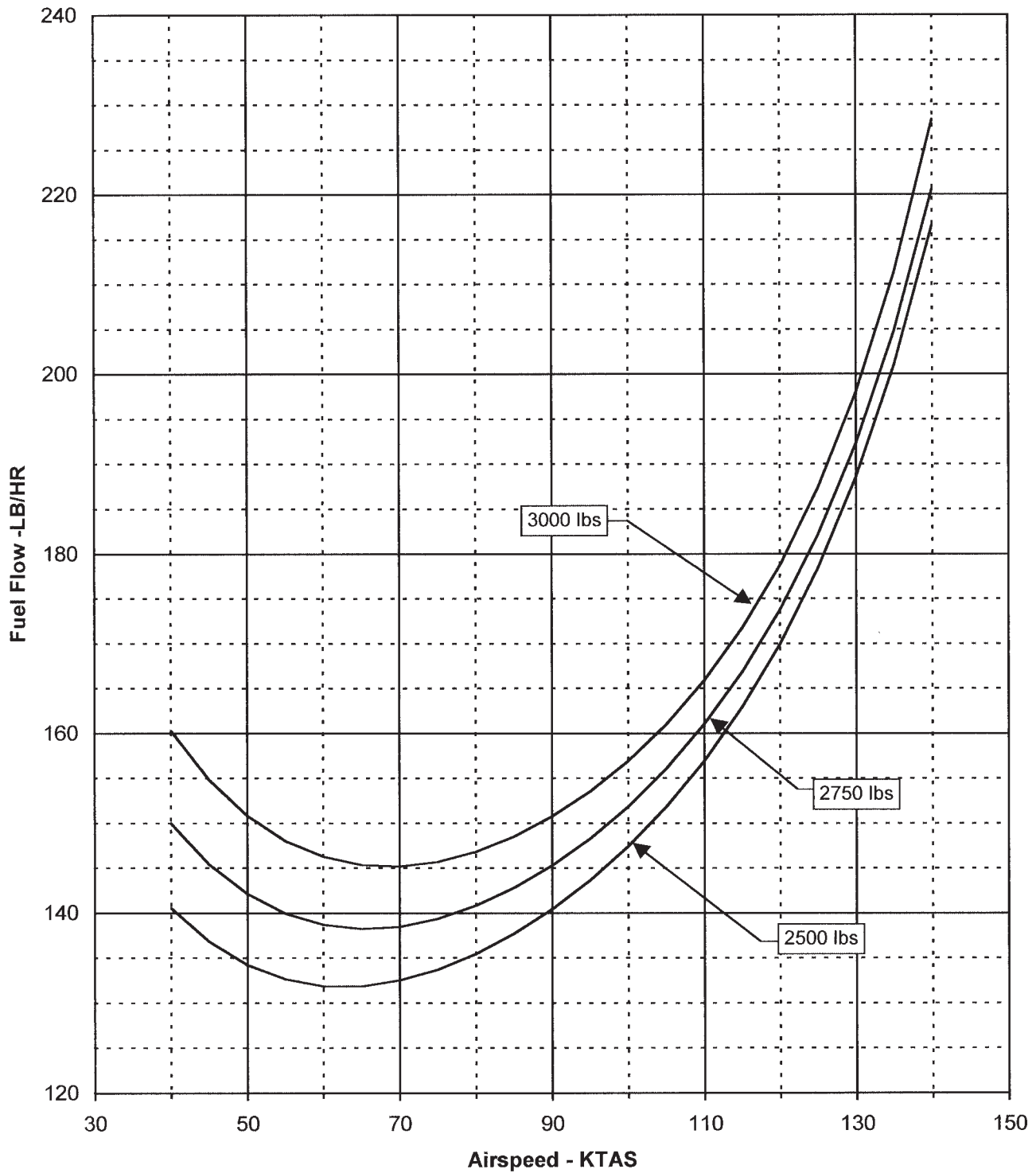


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

# MD500E

## WITH C20R ENGINE

### 3.20 Fuel Flow, 4,000 feet, ISA +20°C (27°C).



Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 10 ampere electrical load.

## 2001 ESTIMATED DIRECT OPERATING COST

### 4.0 Direct Operating Cost.

Estimated Direct Operating Cost Per Hour

(Based upon year 2001 US \$)

|  | C20 B<br>Engine  | C20 RS<br>Engine |
|--|------------------|------------------|
| ■ Fuel and Lubricants <sup>1</sup> :                             |                  |                  |
| Fuel @ \$2.06* per gallon @ approx. 25/27 gallons per hour ..... | \$ 51.50         | 55.62            |
| Lubricants @ 3% of fuel .....                                    | 1.55             | 1.67             |
| <b>Total Fuel Cost</b> .....                                     | <b>\$53.05</b>   | <b>\$57.29</b>   |
| ■ Airframe Maintenance and Spares <sup>2</sup> :                 |                  |                  |
| Maintenance labor costs:   |                  |                  |
| Scheduled (.15 Manhours/Flight Hours) @ \$58.00/Hour* .....      | \$ 8.70          |                  |
| Unscheduled (.26 Manhours/Flight Hours) @ \$58.00/Hour* .....    | 15.08            |                  |
| Spares Cost:   |                  |                  |
| Scheduled (Inspection) Parts: Used during periodic               |                  |                  |
| inspection i.e. filters, seals, o-rings, etc. ....               | \$ 5.78          |                  |
| On-Condition/Unscheduled Part .....                              | 20.11            |                  |
| Reserves: Component Overhaul (TBO) .....                         | 26.48            |                  |
| Reserves: Limited-Life Parts .....                               | 25.29            |                  |
| <b>Total Airframe Cost</b> .....                                 | <b>\$ 101.44</b> | <b>\$101.44</b>  |
| ■ Engine <sup>3</sup> :  |                  |                  |
| Scheduled maintenance labor and parts .....                      | \$ 3.00          | 3.00             |
| Reserve for engine overhaul, spares and accessories .....        | 44.86            | 43.76            |
| <b>Total Engine Cost</b> .....                                   | <b>\$47.86</b>   | <b>\$46.76</b>   |
| ■ <b>Total Direct Operating Cost</b> <sup>4</sup> .....          | <b>\$202.35</b>  | <b>\$205.49</b>  |

\* Fuel Cost and labor rate is based on Conklin & deBecker book, "The Aircraft Cost Evaluator" dated Spring 2000.

<sup>1</sup> Average cost while operating under the following conditions:

Gross Weight: 10% less than maximum certified

Speed: Maximum Range Speed, 118 KIAS

Altitude: 1,000 feet on a standard day

<sup>2</sup> Overhaul costs (Projected) are based on participation in factory exchange program.

<sup>3</sup> Engine fleet maintenance costs provided by Rolls Royce Engine Company.

<sup>4</sup> Indirect costs such as insurance, hangar, salary, etc., are excluded.

Data Subject to Change Without Notice

*Cost figures shown are extrapolated from a broad data base and are intended for example purposes only. Actual costs will vary, depending on local operating conditions, pricing and supplier practices. We encourage you to compare these figures with other manufacturers', using the same unit costs for fuel, labor, etc.*

# MD500E

## TOTAL COST OF OPERATION WORKSHEET

### Direct Operating Cost per Hour

#### Fuel and Lubricants

Fuel @ \$\_\_\_\_\_ per gallon @ approx. \_\_\_\_\_ gallons per hour .....\$ \_\_\_\_\_

Lubricants @ \_\_\_\_\_ % of fuel .....\$ \_\_\_\_\_

**Total Fuel Cost** .....\$ \_\_\_\_\_ (A)

#### Airframe Maintenance and Spares

Scheduled maintenance labor rate @ \$\_\_\_\_\_ per hour

(Maintenance man-hour/flight hour=\$\_\_\_\_\_) .....\$ \_\_\_\_\_

Unscheduled maintenance labor rate @ \$\_\_\_\_\_ per hour

(Maintenance man-hour/flight hour=\$\_\_\_\_\_) .....\$ \_\_\_\_\_

Scheduled (Inspection) Parts: .....\$ \_\_\_\_\_

On-Condition/Unscheduled Part .....\$ \_\_\_\_\_

Reserves: Component Overhaul (TBO) .....\$ \_\_\_\_\_

Reserves: Limited-Life Parts .....\$ \_\_\_\_\_

**Total Airframe Cost** .....\$ \_\_\_\_\_ (B)

#### Engine

Scheduled maintenance labor rate @ \$\_\_\_\_\_ per hour

(Maintenance man-hour/flight hour=\$\_\_\_\_\_) .....\$ \_\_\_\_\_

Unscheduled maintenance labor rate @ \$\_\_\_\_\_ per hour

(Maintenance man-hour/flight hour=\$\_\_\_\_\_) .....\$ \_\_\_\_\_

Reserves for engine overhaul and spares .....\$ \_\_\_\_\_

**Total Engine Cost** .....\$ \_\_\_\_\_ (C)

Total Direct Maintenance/Spares Cost (B+C).....\$ \_\_\_\_\_

■ **Total Direct Operating Cost** (A+B+C) .....\$ \_\_\_\_\_ (D)

### Fixed Operating Cost

#### Depreciation

Hull insurance .....\$ \_\_\_\_\_

Liability insurance.....\$ \_\_\_\_\_

Pilot salary .....\$ \_\_\_\_\_

Hangar rental.....\$ \_\_\_\_\_

**Total Annual Fixed Operating Cost** .....\$ \_\_\_\_\_ (E)

Total Hours (\_\_\_\_\_) flown annually (F)

**Total Fixed Operating Cost Per Hour** (E÷F) .....\$ \_\_\_\_\_ (G)

**Total Direct Operating Cost Per Hour** (from above) .....\$ \_\_\_\_\_ (D)

■ **Total Hourly Fixed Operating Cost** (D+G) .....\$ \_\_\_\_\_



# MD500E

## COMPONENT MAINTENANCE SCHEDULE

### LIMITED-LIFE PARTS

| <i>Component</i>              | <i>Finite Time (hr)</i> |
|-------------------------------|-------------------------|
| Main Rotor Blade              | 3,530                   |
| Blade Pin                     | 7,600                   |
| Main Rotor Hub                | 8,900                   |
| Pitch Housing/MR              | 9,100                   |
| Retention Strap/MR            | 2,770                   |
| Bolt-Lead Lag/MR              | 6,120                   |
| Lead Lag Link/MR              | 11,080                  |
| Drive Shaft                   | 5,020                   |
| Mast                          | 10,450                  |
| Transmission Coupling         | 4,300                   |
| T/R Drive Shaft               | 13,900                  |
| T/R Transmission Input Shaft  | 12,000                  |
| T/R Transmission Output Shaft | 7,290                   |
| T/R Blade                     | 5,140                   |
| T/R Hub                       | 3,450                   |
| T/R Retention Strap           | 5,100                   |
| Tail Boom Bolts               | 21,950                  |
| Tail Boom                     | 10,300                  |
| Vertical Stabilizer           | 12,700                  |
| Horizontal Stabilizer         | 7,700                   |
| Idler Bellcrank               | 6,500                   |

### OVERHAUL SYSTEMS

| <i>Component</i>     | <i>Finite Time (hr)</i> |
|----------------------|-------------------------|
| Transmission/MR      | 5,000                   |
| M/R Swashplate       | 2,770                   |
| M/R Hub              | 2,770                   |
| Overrunning, Clutch  | 1,800                   |
| T/R Transmission     | 4,800                   |
| Starter, Generator   | 1,200                   |
| Blower Bearings      | 1,200                   |
| Blower Belt          | 1,200                   |
| Landing Gear Dampers | 1,000                   |

# **MD500 SERIES**

## **MDHI PRODUCT SUPPORT PLAN**

With the launch of the new helicopter company, MD Helicopters, Inc. announces its new Product Support Plan. Named *The MDHI Support Plan 2000*, it signifies MDHI's commitment to satisfy the operators of its products now and well into the next century.

### **6.0 The MDHI Support Plan 2000**

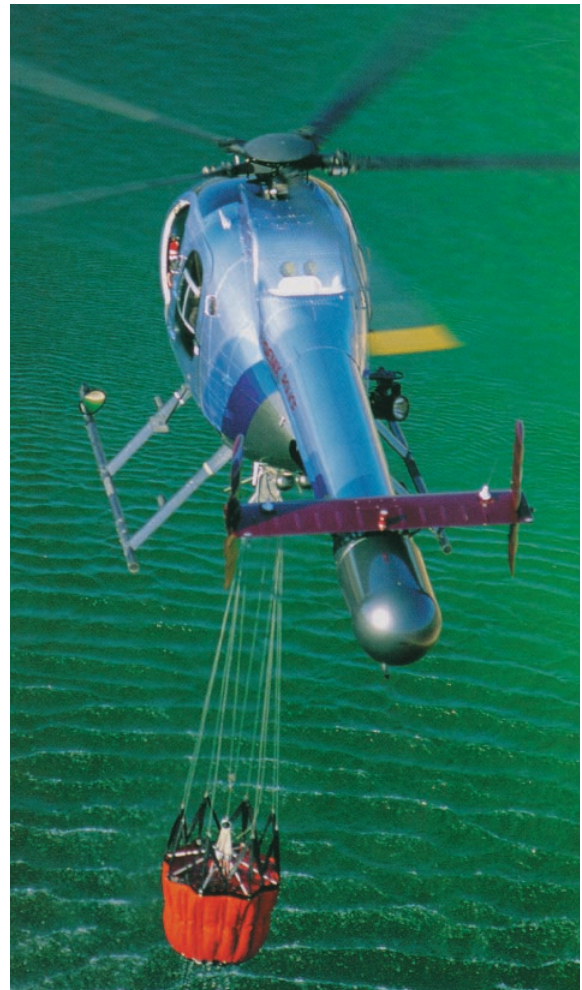
MDHI is dedicated to a successful fielding of its new helicopters and to improve the support it currently offers operators of its commercial helicopters. The following items highlight how the MDHI helicopters will be the best-supported aircraft of its type anywhere in the world.

#### *Operator Input*

Input from many of our existing fleet operators has been actively solicited by our support team. We have created Customer Satisfaction Advisory Teams, composed of operators from all over the world who are chartered to work together with MDHI technical representatives to lower operating costs, and to improve our products and the way we support them. As a result of this improved level of two-way communication, many improvements suggested by our customers are being included in our production, publications, and maintenance procedures.

#### *Training*

MDHI offers pilot and maintenance training to our new customers at no extra charge. Customers will be trained at the MDHI Commercial Training Center by our staff of specially trained pilots and technical representatives. At the training center, we stress hands-on experience in both our flight and ground schools. The materials we use for our school are continually updated to reflect the latest product and maintenance developments by our technical staff.



# **MD500 SERIES**

## **MDHI PRODUCT SUPPORT PLAN**

### *Initial Fielding*

All new aircraft customers will be greeted at their facility by a Customer Support Technical Representative who is trained specifically on the operation and maintenance of MDHI helicopters. These Technical Representatives are backed up by a factory team of MDHI Product Support Engineers who can be called upon at any time to support specific technical issues or questions that may arise. The Technical Representatives will spend as much time with the customers as required to familiarize them with their new aircraft.

### *Regular Maintenance*

Follow-up visits by our Customer Support Technical Representatives will be performed as required at the regularly scheduled maintenance periods. This provides the customer with the latest maintenance information, and provides the factory with feedback on the operation, reliability and maintainability of their new aircraft. In addition, we plan to offer all models maintenance and parts manuals on CD-ROM.

### *Direct Operating Costs*

The operating costs of MDHI helicopters are planned to be clearly the lowest in their classes. The plan is to keep the parts costs down, maximize the reliability of the helicopter systems, and minimize maintenance hours. This is accomplished by “benchmarking” all of these areas against the existing fleet of MD 500® helicopters, already one of the most reliable turbine helicopter lines in the world. Every part, system and maintenance procedure has undergone scrutiny before being incorporated on new production aircraft.

### *Spare Parts*

The MDHI recognizes the importance of timely deliveries of spare parts to our customers. A thorough review of spare parts utilization has been conducted with the intent to significantly improve turnaround time of AOG spares. Additionally, we will increase our activities in using customer advanced spares requirement notification to eliminate known spare part requirements. On-line spares ordering and statusing is in our near future. Additionally, we have established a MDHI Support Center in Europe, where a significant inventory of spare parts, exchange components and tools are maintained.

# MD500 SERIES

## TRAINING

### 7.0 Training

The MDHI Commercial Training Center offers cost-effective factory designed training courses for MD 500 series pilots and maintenance crews. This training, given by senior instructors with extensive experience in our products, provides our customers/students with the detailed knowledge of our products that will increase safety, reduce insurance costs and result in more efficient operation of the aircraft. Training is customarily conducted at our facility in Mesa, but offsite training at the customer's facility can also be arranged. We can also arrange for pilot training in the customer's aircraft, as long as MDHI's insurance requirements are met before training begins.



#### *Pilot Training*

The transition flight training course is designed to familiarize a rated helicopter pilot with the operation of the MD 500 series helicopter. This five-day course introduces the student to all the associated company publications as well as detailed explanations of all aircraft systems and daily/preflight inspection procedures. The ground school, including the exam and exam review, requires 16 to 20 hours to complete. The student will be expected to pass an exam demonstrating basic knowledge of the aircraft. The flight training syllabus includes five hours of instructor time and is broken down into four flight lessons:

- Normal Operations (pattern and hover work)
- Normal Operations and emergency procedures
- Heavy Weight Performance
- Emergency Procedures (autorotations)

Recurrent pilot training consists of a two-day refresher course for any pilot who has previously attended the transition flight training course. Ground school includes a closed-book exam, review of AD's and notices, and a daily/preflight inspection review. A BFR (biennial flight review) can also be given in conjunction with this course and includes review of FAR Part 91 and an open book exam. Flight training consists of three hours of intensive emergency procedures review.

# **MD500 SERIES**

## **TRAINING**

### *Maintenance Training*

The Airframe Maintenance Course is designed to familiarize a licensed A & P mechanic with the maintenance and inspection of all major systems on the aircraft. This 2-week course will require the student to learn and demonstrate the skill and knowledge required to safely perform selected maintenance tasks on the MD 500 series. The 1-week course is available to selected students with prior knowledge of MD products (the 500 series aircraft). The 80-hour syllabus is comprised of the following sections:

- Intro to helicopter design
- Landing gear
- Fan assembly
- Rotor assembly, controls and rigging
- Lubrication/fuel
- Engine controls
- Airframe
- Drive system
- Anti-torque
- Track and balance
- Powerplant
- Electrical systems

### *Other Training*

The other types of training that are currently available to 500 series customers are:

- Instructor pilot training
- Maintenance test flight pilot training

# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Airspeed/Time</b> | <i>lb</i> | <i>kg</i> |
|----------------------|-----------|-----------|
| ASTROTECH LC-6 CLOCK | 0.3       | 0.1       |
| DAVTRON N877 CLOCK   | 0.2       | 0.1       |
| HEATED PITOT         | 0.4       | 0.2       |

| <b>Altitude</b>                   | <i>lb</i> | <i>kg</i> |
|-----------------------------------|-----------|-----------|
| KRA10-00 RADAR ALT W/KI250 IND    | 4.4       | 2.0       |
| KRA405B-15 RADAR ALT W/KNI416 IND | 10.5      | 4.8       |
| UNITED 5035 ENCODING ALTIMETER    | 3.7       | 1.7       |
| UNITED 5120 BLIND ENCODER         | 2.0       | 0.9       |
| UNITED 7130-C41 IVSI              | 2.5       | 1.1       |

| <b>Altitude/Heading</b>                           | <i>lb</i> | <i>kg</i> |
|---|-----------|-----------|
| AIM ATTITUDE GYRO 510-1B                          | 3.1       | 1.4       |
| AIM DIRECTIONAL GYRO 205-1BL                      | 3.0       | 1.4       |
| EHS 40 ELECTRONIC FLIGHT INSTRUMENT SYSTEM        | 23.9      | 10.8      |
| KCS55A-01 COMP SYS WKI525A HSI, KA51B             | 10.3      | 4.7       |
| KI229-00 RADIO MAGNETIC INDICATOR                 | 2.0       | 0.9       |
| MID-CONTINENT 9510 3-INCH TURN AND BANK INDICATOR | 1.6       | 0.7       |
| UNITED 9551 2-INCH TURN AND BANK INDICATOR        | 1.4       | 0.6       |



# MD500 SERIES

## OPTIONAL EQUIPMENT

| Comm/Intercom                                      | lb   | kg   |
|--|------|------|
| FLIGHT TRAILS AVIONICS MASTER SWITCH               | 1.5  | 0.7  |
| FLIGHT TRAILS COPILOT ICS FOOT SWITCH              | 0.5  | 0.2  |
| FLIGHT TRAILS CYCLIC REMOTE FREQ SWITCH ONLY       | .3   | 0.1  |
| FLIGHT TRAILS REAR SEAT TRANSMIT                   | 2.5  | 1.1  |
| HEADSET BOSE SERIES II                             | 1.1  | 0.5  |
| HEADSET BOSE SERIES X                              | 1.1  | 0.5  |
| HEADSET DAVID CLARK H10-56                         | 1.1  | 0.5  |
| HEADSET WIRE HARNESS (W/O ICS) W/ADAPTS            | 2.0  | 0.9  |
| KFM985 FM TRANSCEIVER                              | 3.0  | 1.4  |
| KHF990-00 HF SYSTEM WITH BELLY MOUNTED ANT         | 22.5 | 10.2 |
| KMA24H-71 AUDIO CONTROL/INTERCOM (5-PLACE)         | 3.1  | 1.4  |
| KMA24H-71 DUAL AUDIO CONTROL/INTERCOM              | 6.2  | 2.8  |
| KY196A-30 TRANSCEIVER                              | 5.2  | 2.4  |
| KY196A-30 TRANSCEIVER W/CYCLIC REMOTE SWITCH       | 5.5  | 2.5  |
| MOTOROLA DVP-DVS ENCODER                           | 0.0  | 0.0  |
| NAT 138 FMNPX HIGH BAND TRANSCEIVER                | 3.1  | 1.4  |
| NAT 150 VHF HI BAND TRANSCEIVER                    | 8.5  | 3.9  |
| NAT 403-00 UHF TRANSCEIVER                         | 0.0  | 0.0  |
| NAT 806 UHF 800MHZ BAND TRANSCEIVER                | 6.0  | 2.7  |
| NAT AA22-163 100 WATT PA AND SIREN                 | 21.6 | 9.8  |
| NAT AA22-163 220 WATT PA AND SIREN                 | 21.4 | 9.7  |
| NAT AA34-200 UNIVERSAL RADIO INTERFACE             | 0.0  | 0.0  |
| NAT AA94-SSD DUAL CHANNEL AUDIO CONTROLLER         | 2.3  | 1.0  |
| NAT AA95-512 SINGLE CHANNEL AUDIO CONTROLLER       | 2.5  | 1.1  |
| NAT AA95-512 SINGLE CHANNEL AUDIO DUAL CONTROLLERS | 5.0  | 2.3  |
| NAT AA97-400 SINGLE CHANNEL AUDIO CONTROLLER       | 2.5  | 1.1  |
| NAT AMS44 DUAL CHANNEL AUDIO CONTROLLER            | 2.8  | 1.3  |
| NAT CC250 COMMUNICATIONS CONTROLLER                | 3.0  | 1.4  |
| NAT CC450 COMMUNICATIONS CONTROLLER                | 2.5  | 1.1  |
| NAT DTE12-001 DATA ENCODER KEYBOARD                | 0.8  | 0.4  |
| NAT TH250-7NN MASTER CONTROL HEAD                  | 0.0  | 0.0  |
| NAT TH350-2 MASTER CONTROL HEAD                    | 3.0  | 1.4  |
| PROVISIONS C1000-10 FLEXCOMM CONTROL HEAD          | 0.0  | 0.0  |
| PROVISIONS C5000-1 FLEXCOMM CONTROL HEAD           | 0.0  | 0.0  |
| TECHNISOF TFM-403 FM COMM                          | 4.5  | 2.0  |
| TFM-138 VHF HIGH BAND TRANSCEIVER                  | 3.1  | 1.4  |
| WULFSBERG C1000-10 FLEX COMM CONTROL HEAD          | 2.6  | 1.8  |
| WULFSBERG RT138F-0 TRANSCEIVER                     | 7.5  | 3.4  |
| WULFSBERG RT30-0 TRANSCEIVER (WIDEBAND)            | 8.3  | 3.8  |
| WULFSBERG RT406F-0 TRANSCEIVER                     | 7.5  | 3.4  |
| WULFSBERG RT5000-01 TRANSCEIVER                    | 27.2 | 12.3 |
| WULFSBERG C5000-1 FLEX COMM CONTROL HEAD           | 4.2  | 1.9  |



# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Comm/Nav</b>                            | <i>lb</i> | <i>kg</i> |
|--|-----------|-----------|
| Emergency LOC TRANS, ARTEX-100HM           | 6.9       | 3.1       |
| Emergency LOC transmitter pointer 3000     | 4.0       | 1.8       |
| FOXTRONICS 3050 wide band antennna         | 0.0       | 0.0       |
| KDF806-00 ADF w/KFS586 freq selector       | 5.0       | 2.3       |
| KI202-00 VOR/LOC indicator                 | 1.3       | 0.6       |
| KI203-00 VOR/LOC indicator                 | 1.0       | .5        |
| KI204-02 VOR/LOC/GS indicator              | 3.0       | 1.4       |
| KI206-04 VOR/LOC/GS indicator              | 3.0       | 1.4       |
| KI208-00 VOR/LOC indicator                 | 2.4       | 1.0       |
| KI209-01 VOR/LOC/GS indicator              | 1.2       | 0.5       |
| KN53-00 NAV receiver w/GLS                 | 3.0       | 1.4       |
| KN62A-01 DME                               | 2.6       | 1.2       |
| KN63-04 DME w/KDI 572 indicator            | 3.6       | 1.6       |
| KN75-02 glideslope receiver                | 1.6       | 0.7       |
| KR22-00 marker beacon receiver             | 1.6       | 0.7       |
| KR87-16 ADF                                | 6.8       | 3.1       |
| KR87-16 ADF W/KI227-00 IND                 | 8.2       | 3.7       |
| KT70-00 S-MODE TRANSPONDER                 | 5.2       | 2.4       |
| KT71-00 A AND C-MODE DIGITAL TRANSPONDER   | 4.0       | 1.8       |
| KT76A-01 A AND C-MODE TRANSPONDER          | 4.2       | 1.9       |
| KX155-39 NAV/COMM TRANSCEIVER              | 7.9       | 3.6       |
| KX155-39 NAV/COMM W/KI208 VOR IND          | 9.7       | 4.4       |
| KX155-43 NAV/COMM TRANSCEIVER W/GLS        | 7.9       | 3.6       |
| KX155-43 NAV/COMM W/GS W/KI209 VOR/GLS IND | 9.7       | 4.4       |
| KX165-25 NAV/COMM W/GS W/KI206 VOR/GLS IND | 10.6      | 4.8       |
| <b>Controls</b>                            | <i>lb</i> | <i>kg</i> |
| FLIGHT CONTROLS-DUAL, LH COMMAND           | 10.4      | 4.7       |
| FLIGHT CONTROLS-DUAL, RH COMMAND           | 10.4      | 4.7       |
| <b>Electrical System</b>                   | <i>lb</i> | <i>kg</i> |
| BATTERY -500E SAFT HEAVY DUTY, 17 AMP      | 14.1      | 6.4       |
| BATTERY -500N/530FF HD, SAFT               | 0.0       | 0.0       |
| BATTERY -520N NOSE MOUNTED                 | 8.0       | 3.6       |
| BATTERY -LEAD ACID KIT AND BATTERY         | 23.0      | 10.4      |
| FLIGHT TRAILS 28V RECP FRONT AND REAR      | 0.0       | 0.0       |
| KA-33 AVIONICS COOLING FAN                 | 2.2       | 1.0       |
| VOLTMETER-DAVTRON M450 DIGITAL BATTERY     | 0.0       | 0.0       |
| WECO GENERATOR COOLER SCOOP KIT            | 0.0       | 0.0       |
| WECO 165 AMP STARGER GENERATOR             | 0.0       | 0.0       |

# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Engine</b>                                  | <i>lb</i> | <i>kg</i> |
|--|-----------|-----------|
| ENGINE COMPRESSOR ANTI-ICE                     | 0.0       | 0.0       |
| ENGINE OIL EXHAUST BREATHER                    | 0.0       | 0.0       |
| FACET OIL FILTER - MD530FF                     | 3.7       | 1.7       |
| HOBBS COLLECTIVE RUNNING TIME METER            | 0.5       | 0.2       |
| MIST ELIMINATOR                                | 4.2       | 1.9       |
| PARTICLE SEPARATOR                             | 13.0      | 5.9       |
| SYSTRON DONNER FIRE DETECTION SYSTEM           | 0.0       | 0.0       |
| <b>Environmental</b>                           | <i>lb</i> | <i>kg</i> |
| AERO-AIRE BOOST FAN                            | 0.0       | 0.0       |
| AIR CONDITIONING, INTEGRATED FLIGHT SYSTEMS    | 88.8      | 40.3      |
| HEATER/DEFOGGER                                | 8.1       | 3.7       |
| <b>Exterior Accessories</b>                    | <i>lb</i> | <i>kg</i> |
| BREEZE CARGO HOOK, MD 500 SERIES               | 6.3       | 2.9       |
| ONBOARD SYSTEMS CARGO HOOK                     | 7.0       | 3.2       |
| ONBOARD SYSTEMS CARGO HOOK LOAD WEIGHT SYSTEM  | 5.0       | 2.3       |
| PROVISIONS FLIR 4000-SAFIRE BELLY MOUNT        | 20.0      | 9.1       |
| PROVISIONS FLIR REAR MONITOR MOUNT             | 0.0       | 0.0       |
| PROVISIONS ULTRA 7000 FLIR -NOSE MOUNTED       | 10.0      | 4.5       |
| PROVISIONS ULTRA 7000 FLIR -LEFT SIDE MOUNTED  | 10.0      | 4.5       |
| PROVISIONS ULTRA 7000 FLIR -NOSE MOUNT         | 20.0      | 9.1       |
| PROVISIONS ULTRA 7000 FLIR -RIGHT SIDE MOUNTED | 10.0      | 4.5       |
| WATER PROOF COVER                              | 0.0       | 0.0       |
| WIRE STRIKE KIT, MD 500 SERIES                 | 17.0      | 7.7       |
| FLOAT LIGHT KIT                                | 4.8       | 2.2       |
| NIGHTSCANNER 400K CPWR SEARCHLIGHT             | 23.0      | 10.4      |
| NIGHTSCANNER, IR LENS KIT                      | 0.8       | 0.4       |
| NIGHTSCANNER, SUPER 800K CPWR                  | 24.1      | 10.9      |
| NIGHTSCANNER, SUPER, IR LENS KIT               | 0.8       | 0.4       |
| PROVISIONS SX16 SEARCHLIGHT LEFT SIDE MOUNTED  | 30.0      | 13.6      |
| PROVISIONS SX16 SEARCHLIGHT NOSE MOUNTED       | 30.0      | 13.6      |
| PROVISIONS SX16 SEARCHLIGHT RIGHT SIDE MOUNTED | 30.0      | 13.6      |
| PROVISIONS SX5 SEARCHLIGHT LEFT SIDE MOUNTED   | 23.5      | 10.7      |
| PROVISIONS SX5 SEARCHLIGHT NOSE MOUNTED        | 23.3      | 10.6      |
| PROVISIONS SX5 SEARCHLIGHT RIGHT SIDE MOUNTED  | 23.5      | 10.7      |
| SX16 SEARCHLIGHT LEFT SIDE MOUNTED             | 65.0      | 29.5      |
| SX16 SEARCHLIGHT NOSE MOUNTED                  | 65.0      | 29.5      |
| SX16 SEARCHLIGHT RIGHT SIDE MOUNTED            | 65.0      | 29.5      |
| SX5 SEARCHLIGHT LEFT SIDE MOUNTED              | 14.8      | 6.7       |
| SX5 SEARCHLIGHT NOSE MOUNTED                   | 14.8      | 6.7       |
| SX5 SEARCHLIGHT RIGHT SIDE MOUNTED             | 14.8      | 6.7       |

# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Fuel System</b>                                 | <i>lb</i> | <i>kg</i> |
|--|-----------|-----------|
| AIRFRAME FUEL FILTER                               | 5.3       | 2.4       |
| FARGO 21 GAL (79L) AUX FUEL TANK                   | 44.5      | 20.2      |
| POVISIONS FARGO 21 GAL (79L) AUX FUEL TANK         | 8.0       | 3.6       |
| ROBERTSON 38.5 GAL (146L) AUX FUEL TANK            | 56.0      | 25.4      |
| PROVISIONS ROBERTSON 38.5 GAL (146L) AUX FUEL TANK | 9.0       | 4.1       |
| SELF SEALING FUEL CELLS                            | 21.2      | 9.6       |
| SHADIN DIGIDATA FUEL AIR DATA SYSTEM               | 2.4       | 1.1       |
| <b>Gear/Handling</b>                               | <i>lb</i> | <i>kg</i> |
| EMERGENCY FLOATS, AIR CRUISERS                     | 152.0     | 68.9      |
| EMERGENCY FLOATS, APICAL INDUSTRIES                | 115.0     | 52.2      |
| EXTENDED LANDING GEAR                              | 9.5       | 4.3       |
| FLIGHT TRAILS CREW HANDLES (4)                     | 5.0       | 2.3       |
| FLIGHT TRAILS SKID MIRROR                          | 2.0       | 0.9       |
| WINTERIZED H/D DAMPERS SET (4)                     | 0.0       | 0.0       |
| <b>Interior Trim/Lights/Seats</b>                  | <i>lb</i> | <i>kg</i> |
| D BENCH SEAT WITH CUSHIONS                         | -1.0      | -0.5      |
| D BENCH SEAT WITH MESH                             | -9.0      | -4.1      |
| FLIGHT TRAILS CONSOLE FACE PLATE                   | 0.0       | 0.0       |
| FLIGHT TRAILS NVG LIGHTING COMPATABILITY           | 6.0       | 2.7       |
| FLIGHT TRAILS OAT GAUGE LIGHT                      | 0.0       | 0.0       |
| FLIGHT TRAILS POST LIGHT MODIFICATION              | 0.0       | 0.0       |
| FLIGHT TRAILS SLANT PANEL                          | 3.0       | 1.4       |
| INTERIOR -SOUNDPROOF IN SPECIAL COLOR              | 119.9     | 54.4      |
| INTERIOR -LEATHER SEATS, PANELS, TRIM, MD 500      | 20.0      | 9.1       |
| INTERIOR -BASIC MILITARY BLACK                     | 30.0      | 13.6      |
| INTERIOR -BASIC MILITARY GRAY                      | 30.0      | 13.6      |
| INTERIOR -SOUNDPROOF IN BEIGE                      | 119.9     | 54.4      |
| INTERIOR -SOUNDPROOF IN GRAY                       | 119.9     | 54.4      |
| INTERIOR -SOUNDPROOF IN OPTIONAL COLORS            | 0.0       | 0.0       |
| INTERIOR -VELOUR PANELS IN BEIGE                   | 36.0      | 16.3      |
| INTERIOR -VELOUR PANELS IN GRAY                    | 36.0      | 16.3      |
| SEATS -BLACK MESH 2+1                              | -22.2     | -10.1     |
| SEATS -BLACK MESH 2+2                              | -23.7     | -10.8     |
| VINYL INTERIOR TRIM PANELS                         | 0.0       | 0.0       |

# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Interior Accessories</b>                   | <i>lb</i> | <i>kg</i> |
|---|-----------|-----------|
| CABIN LIGHTER/28-VOLT UTILITY OUTLET          | 0.0       | 0.0       |
| COCKPIT UTILITY-MAP GOOSENECK LIGHT - NVG     | 3.1       | 1.4       |
| COCKPIT UTILITY-MAP LUMINATOR LIGHT - NON-NVG | 3.1       | 1.4       |
| COCKPIT UTILITY-MAP LUMINATOR LIGHT - NVG     | 3.1       | 1.4       |
| FLIGHT TRAILS INSTRUMENT PANEL MAP CASE       | 0.5       | 0.2       |
| FLIGHT TRAILS LH FWD MAP CASE                 | 0.3       | 0.1       |
| LITTER KIT RIGHT HAND                         | 66.0      | 29.9      |
| ROTOR BRAKE LH COMMAND                        | 6.7       | 3.0       |
| ROTOR BRAKE RH COMMAND                        | 6.7       | 3.0       |

| <b>Nav Special</b>              | <i>lb</i> | <i>kg</i> |
|---------------------------------|-----------|-----------|
| ARGUS 5000 MOVING MAP DISPLAY   | 3.5       | 1.6       |
| ARGUS 7000 MOVING MAP DISPLAY   | 0.0       | 0.0       |
| FLIGHT TRAILS GPS-VOR SWITCH    | 0.3       | 0.1       |
| GARMIN 155 XL GPS               | 4.3       | 2.0       |
| GARMIN 250 XL GPS/COMM          | 5.3       | 2.4       |
| GARMIN GNS-430 MAP/COMM/VOR/GPS | 7.8       | 3.5       |
| GARMIN GNS-530 MAP/COMM/VOR/GPS | 9.8       | 4.4       |
| KLN90B-01 GPS NORTH AMERICA     | 8.4       | 3.8       |
| KLN90B-01 GPS INTERNATIONAL     | 8.4       | 3.8       |
| KLX135-00 GPS NORTH AMERICA     | 0.0       | 0.0       |
| KLX135-01 INTERNATIONAL         | 0.0       | 0.0       |
| MAGELLAN 5000 SKY-NAV GPS       | 3.0       | 1.4       |
| RYAN ATS-7000 TCAD              | 4.0       | 1.8       |
| RYAN ATS-9900 TCAD              | 5.0       | 2.3       |

# MD500 SERIES

## OPTIONAL EQUIPMENT

| <b>Paint</b>                                | <i>lb</i> | <i>kg</i> |
|---|-----------|-----------|
| HIGH VISIBILITY MAIN ROTOR BLADE PAINT      | 0.4       | 0.2       |
| PAINT 0 COLOR PRIMER ONLY 500 SERIES        | -20.0     | -9.1      |
| PAINT 2 COLOR AMBASSADOR                    | 0.0       | 0.0       |
| PAINT 2 COLOR CUSTOM 2                      | 0.0       | 0.0       |
| PAINT 2 COLOR DIPLOMAT                      | 0.0       | 0.0       |
| PAINT 2 COLOR ENVOY                         | 0.0       | 0.0       |
| PAINT 2 COLOR STATESMAN                     | 0.0       | 0.0       |
| PAINT 2 COLOR VICEROY                       | 0.0       | 0.0       |
| PAINT 3 COLOR AMBASSADOR                    | 0.0       | 0.0       |
| PAINT 3 COLOR CUSTOM 3                      | 0.0       | 0.0       |
| PAINT 3 COLOR DIPLOMAT                      | 0.0       | 0.0       |
| PAINT 3 COLOR ENVOY                         | 0.0       | 0.0       |
| PAINT 3 COLOR STATESMAN                     | 0.0       | 0.0       |
| PAINT 3 COLOR VICEROY                       | 0.0       | 0.0       |
| PAINT 4 COLOR AMBASSADOR                    | 0.0       | 0.0       |
| PAINT 4 COLOR CUSTOM 4                      | 0.0       | 0.0       |
| PAINT 4 COLOR DIPLOMAT                      | 0.0       | 0.0       |
| PAINT 4 COLOR ENVOY                         | 0.0       | 0.0       |
| PAINT 4 COLOR STATESMAN                     | 0.0       | 0.0       |
| PAINT 4 COLOR VICEROY                       | 0.0       | 0.0       |
| PAINT 5 COLOR AMBASSADOR                    | 0.0       | 0.0       |
| PAINT 5 COLOR CUSTOM 5                      | 0.0       | 0.0       |
| PAINT 5 COLOR DIPLOMAT                      | 0.0       | 0.0       |
| PAINT 5 COLOR ENVOY                         | 0.0       | 0.0       |
| PAINT 5 COLOR STATESMAN                     | 0.0       | 0.0       |
| PAINT 5 COLOR VICEROY                       | 0.0       | 0.0       |
| <b>Windows/Canopy</b>                       | <i>lb</i> | <i>kg</i> |
| MEEKER QUICK RELEASE ENGINE BAY DOORS       | 2.1       | 1.0       |
| MEEKER QUICK RELEASE DOOR HINGES (4) MD 500 | 7.0       | 3.2       |
| PARAVION LEFT FRONT DOOR OPENER             | 1.2       | 0.5       |
| PARAVION LEFT REAR DOOR OPENER              | 1.2       | 0.5       |
| PARAVION RIGHT FRONT DOOR OPENER            | 1.5       | 0.7       |
| PARAVION RIGHT REAR DOOR OPENER             | 1.5       | 0.7       |
| TECH TOOL LF COMFORT W/POP OUT VENTS        | 0.0       | 0.0       |
| TECH TOOL LF COMFORT W/SLIDE                | 0.0       | 0.0       |
| TECH TOOL LR COMFORT W/POP OUT VENTS        | 0.0       | 0.0       |
| TECH TOOL LR COMFORT W/SLIDE                | 0.0       | 0.0       |
| TECH TOOL RF COMFORT W/POP OUT VENTS        | 0.0       | 0.0       |
| TECH TOOL RF COMFORT W/SLIDE                | 0.0       | 0.0       |
| TECH TOOL RR COMFORT W/POP OUT VENTS        | 0.0       | 0.0       |
| TECH TOOL RR COMFORT W/SLIDE                | 0.0       | 0.0       |



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