

Pilot's Operating Handbook

Valid to aircraft S/N:

P1001040

Pilot's Operating Handbook

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5.1 Takeoff distances

- Conditions:**
- Altitude: 0 ft ISA
 - Engine power: *max. takeoff*
 - Propeller: *min. pitch (max. RPM)*
 - Flaps: 15°

| RUNWAY SURFACE | Take-off run distance | | Take-off distance over 50 ft (15 m) obstacle | |
|----------------|-----------------------|-----|--|-----|
| | ft | m | ft | m |
| CONCRETE | 525 | 160 | 942 | 287 |
| GRASS | 630 | 192 | 1,086 | 331 |

5.2 Landing distances

- Conditions:**
- Altitude: 0 ft ISA
 - Engine power: *idle*
 - Propeller: *min. pitch (max. RPM)*
 - Flaps: 30°
 - Normal brake operation

| RUNWAY SURFACE | Landing distance over 50 ft (15 m) obstacle | | Landing run distance (braked) | |
|----------------|---|-----|-------------------------------|-----|
| | ft | m | ft | m |
| CONCRETE | 840 | 256 | 446 | 136 |
| GRASS | 833 | 254 | 443 | 135 |

5.3 Rate of climb

| Conditions: Engine: <i>max. takeoff</i> Propeller: <i>min. pitch</i> Flaps: 0° | Best rate of climb speed V_y (IAS) | | Rate of climb V_z | |
|---|--------------------------------------|------|---------------------|-----|
| | knot | km/h | fpm | m/s |
| Altitude | | | | |
| 1000 ft | 62 | 115 | 912 | 4.6 |
| 3000 ft | 62 | 115 | 801 | 4.1 |
| 5000 ft | 62 | 115 | 687 | 3.5 |
| 7000 ft | 62 | 115 | 620 | 3.2 |
| 9000 ft | 62 | 115 | 478 | 2.4 |

5.4 Cruise speeds

| Altitude | Engine speed | IAS | | CAS | | TAS | | MAP | Fuel consumption | |
|----------|--------------|------|------|------|------|------|------|-------|------------------|----------|
| | | knot | km/h | knot | km/h | knot | km/h | | in Hg | l/h |
| ft | rpm | knot | km/h | knot | km/h | knot | km/h | in Hg | l/h | US gal/h |
| 1,000 | 4,500 | 83 | 154 | 82 | 152 | 85 | 157 | 24.3 | 15.0 | 3.97 |
| | 4,800 | 93 | 172 | 91 | 169 | 94 | 174 | 24.6 | 16.5 | 4.36 |
| | 5,000 | 100 | 185 | 97 | 180 | 101 | 187 | 25.1 | 17.9 | 4.73 |
| | 5,300 | 105 | 194 | 102 | 189 | 106 | 196 | 26.2 | 20.6 | 5.44 |
| | 5,500 | 111 | 206 | 107 | 198 | 112 | 207 | 26.8 | 22.7 | 6.00 |
| | 5,700 | 116 | 215 | 112 | 207 | 117 | 217 | 28.4 | 27.0 | 7.13 |
| 3,000 | 4,500 | 80 | 148 | 79 | 146 | 84 | 156 | 22.2 | 14.4 | 3.80 |
| | 4,800 | 87 | 161 | 86 | 159 | 91 | 169 | 23.3 | 16.1 | 4.25 |
| | 5,000 | 93 | 172 | 91 | 169 | 97 | 180 | 23.8 | 17.5 | 4.62 |
| | 5,300 | 100 | 185 | 97 | 180 | 104 | 193 | 24.5 | 20.2 | 5.34 |
| | 5,500 | 103 | 191 | 100 | 185 | 107 | 198 | 25.0 | 21.1 | 5.57 |
| | 5,700 | 109 | 202 | 105 | 194 | 114 | 211 | 26.2 | 26.1 | 6.89 |
| 5,000 | 4,500 | 69 | 128 | 70 | 130 | 75 | 139 | 21.2 | 14.1 | 3.72 |
| | 4,800 | 77 | 143 | 77 | 143 | 82 | 152 | 21.9 | 15.8 | 4.17 |
| | 5,000 | 84 | 156 | 83 | 154 | 90 | 167 | 22.2 | 17.2 | 4.54 |
| | 5,300 | 93 | 172 | 91 | 169 | 100 | 185 | 22.9 | 19.7 | 5.20 |
| | 5,500 | 99 | 183 | 96 | 178 | 105 | 194 | 23.3 | 21.4 | 5.65 |
| | 5,700 | 107 | 198 | 104 | 193 | 113 | 209 | 24.1 | 24.7 | 6.53 |
| 7,000 | 4,500 | 65 | 120 | 66 | 122 | 72 | 133 | 19.7 | 13.5 | 3.57 |
| | 4,800 | 73 | 135 | 73 | 135 | 81 | 150 | 20.1 | 15.4 | 4.07 |
| | 5,000 | 77 | 143 | 77 | 143 | 86 | 159 | 20.6 | 16.8 | 4.44 |
| | 5,300 | 83 | 154 | 82 | 152 | 92 | 170 | 20.9 | 19.0 | 5.02 |
| | 5,500 | 88 | 163 | 87 | 161 | 98 | 181 | 21.6 | 20.8 | 5.49 |
| | 5,700 | 95 | 176 | 93 | 172 | 106 | 196 | 22.5 | 24.0 | 6.34 |
| 9,000 | 4,500 | 58 | 107 | 60 | 111 | 68 | 126 | 18.2 | 13.0 | 3.43 |
| | 4,800 | 69 | 128 | 70 | 130 | 80 | 148 | 18.7 | 14.7 | 3.88 |
| | 5,000 | 74 | 137 | 74 | 137 | 85 | 157 | 19.1 | 16.2 | 4.28 |
| | 5,300 | 82 | 152 | 81 | 150 | 93 | 172 | 19.8 | 18.5 | 4.89 |
| | 5,500 | 86 | 159 | 85 | 157 | 97 | 180 | 20.2 | 20.1 | 5.31 |
| | 5,700 | 92 | 170 | 90 | 167 | 104 | 193 | 21.0 | 23.0 | 6.08 |