

# CRJ1000 NextGen

The 100-seat CRJ1000\* NextGen\* aircraft is joining the most successful regional aircraft family in the world. Optimized for medium-haul regional routes, the CRJ\* NextGen family of aircraft combines the lowest operating cost in its class with proven reliability, enhanced cabin comfort, fleet commonality and reduced environmental impact.



**CRJ1000**  
NextGen

**BOMBARDIER**

# CRJ1000 NextGen



## AVIONICS INFO

- Rockwell Collins Pro Line 4 six-screen EFIS/EICAS suite enhanced with Pro Line 21 Replaceable Units (LRU)
- Dual gyro-compassing attitude heading reference systems (AHRS)
- Traffic alert & collision avoidance system (TCAS) and enhanced ground proximity warning system (EGPWS)
- Rockwell Collins digital weather radar

## ENGINE

|             |                                 |
|-------------|---------------------------------|
| Number      | 2 GE CF34-8C5A1 turbofans       |
| Thrust      | 13,630 lb. / 60.6 kN at takeoff |
|             | 14,510 lb. / 64.5 kN thrust APR |
| Flat Rating | ISA + 15.0 C                    |

## PERFORMANCE

### RANGE (225 LB. / 102 KG PER PAX., LRC, IFR WITH RESERVES)

|   |          |          |          |
|---|----------|----------|----------|
| CRJ1000 NextGen EL (100 pax. @ 31" pitch) | 909 NM   | 1,046 SM | 1,683 km |
| CRJ1000 NextGen (100 pax. @ 31" pitch)    | 1,345 NM | 1,548 SM | 2,491 km |
| CRJ1000 NextGen ER (100 pax. @ 31" pitch) | 1,535 NM | 1,766 SM | 2,843 km |

### SPEED

|                      |           |         |         |          |
|----------------------|-----------|---------|---------|----------|
| Maximum Cruise Speed | 0.82 Mach | 470 kts | 541 mph | 870 km/h |
| Normal Cruise Speed  | 0.78 Mach | 447 kts | 515 mph | 827 km/h |

### TAKEOFF FIELD LENGTH (ISA, SL)

|                    |           |         |
|--------------------|-----------|---------|
| CRJ1000 NextGen EL | 5,977 ft. | 1,822 m |
| CRJ1000 NextGen    | 6,549 ft. | 1,996 m |
| CRJ1000 NextGen ER | 6,820 ft. | 2,079 m |

### LANDING FIELD LENGTH (ISA, SL)

|                    |           |         |
|--------------------|-----------|---------|
| CRJ1000 NextGen EL | 5,756 ft. | 1,754 m |
| CRJ1000 NextGen    | 5,756 ft. | 1,754 m |
| CRJ1000 NextGen ER | 5,756 ft. | 1,754 m |

## CEILING

|                            |            |          |
|----------------------------|------------|----------|
| Maximum Operating Altitude | 41,000 ft. | 12,497 m |
|----------------------------|------------|----------|

## NOISE LEVEL (CRJ1000 NEXTGEN ER)

|                     |            |
|---------------------|------------|
| Flyover             | 85.8 EPNdB |
| Lateral             | 89.8 EPNdB |
| Approach            | 93.4 EPNdB |
| Margin to Chapter 4 | 3.2 EPNdB  |

## EMISSIONS (MARGINS TO CAEP4)

|                             |        |
|-----------------------------|--------|
| NO <sub>x</sub>             | 30.0 % |
| Smoke                       | 52.8 % |
| UHC (Unburned Hydrocarbons) | 97.7 % |
| CO                          | 64.8 % |

## EXTERNAL DIMENSIONS

|                           |                      |                     |
|---------------------------|----------------------|---------------------|
| Length                    | 128 ft. 5 in.        | 39.1 m              |
| Wingspan                  | 85 ft. 11 in.        | 26.2 m              |
| Wing Area (net)           | 833 ft. <sup>2</sup> | 77.4 m <sup>2</sup> |
| Height                    | 24 ft. 6 in.         | 7.5 m               |
| Fuselage Maximum Diameter | 8 ft. 10 in.         | 2.7 m               |

All data in this document is approximate, may change without notice and is subject to certain operating rules, assumptions and conditions. This document does not constitute an offer, commitment, representation, guarantee or warranty of any kind. The final configuration and performance of this aircraft, and any related commitment, representations, guarantee or warranty, shall be determined in a final purchase agreement.

\*Bombardier, CRJ, CRJ1000 and NextGen are Trademarks or registered Trademarks of Bombardier Inc. and its subsidiaries.

© 2009 Bombardier Inc. / Printed in Canada June 2009

## GENERAL

|             |        |
|-------------|--------|
| Flight Crew | 2      |
| Cabin Crew  | 2 or 3 |
| Passengers  | 100    |

## INTERNAL DIMENSIONS

|                                  |                        |                      |
|----------------------------------|------------------------|----------------------|
| Cabin Length                     | 77 ft. 6 in.           | 23.60 m              |
| Cabin Maximum Width (Centerline) | 8 ft. 4 in.            | 2.55 m               |
| Cabin Width (Floor Level)        | 7 ft. 1 in.            | 2.16 m               |
| Cabin Aisle Height               | 6 ft. 2 in.            | 1.89 m               |
| Cabin Volume                     | 3,320 ft. <sup>3</sup> | 94.01 m <sup>3</sup> |
| Overhead Bin Volume per Pax      | 1.5 ft. <sup>3</sup>   | 0.042 m <sup>3</sup> |
| Cargo Volume                     | 686 ft. <sup>3</sup>   | 19.4 m <sup>3</sup>  |
| Floor Area                       | 541.4 ft. <sup>2</sup> | 50.3 m <sup>2</sup>  |

## DOORS & EXITS

| PASSENGER DOOR   | HEIGHT                | WIDTH                | HEIGHT TO SILL       |
|------------------|-----------------------|----------------------|----------------------|
| LH FWD           | 5 ft. 10 in. / 1.78 m | 3 ft. / 0.91 m       | 5 ft. 8 in. / 1.73 m |
| CARGO DOOR       | HEIGHT                | WIDTH                | HEIGHT TO SILL       |
| LH AFT           | 2 ft. 9 in. / 0.84 m  | 3 ft. 7 in. / 1.09 m | 7 ft. 7 in. / 2.31 m |
| LH FWD (2 DOORS) | 1 ft. 8 in. / 0.51 m  | 3 ft. 6 in. / 1.07 m | 4 ft. 3 in. / 1.28 m |
| SERVICE DOOR     | HEIGHT                | WIDTH                | HEIGHT TO SILL       |
| RH FWD           | 4 ft. / 1.22 m        | 2 ft. / 0.61 m       | 5 ft. 8 in. / 1.73 m |
| OVERWING EXITS   | HEIGHT                | WIDTH                |                      |
| LH / RH          | 3 ft. 7 in. / 1.09 m  | 1 ft. 8 in. / 0.51 m |                      |

## WEIGHTS

### MAXIMUM RAMP WEIGHT

|                    |            |           |
|--------------------|------------|-----------|
| CRJ1000 NextGen EL | 86,468 lb. | 39,222 kg |
| CRJ1000 NextGen    | 90,500 lb. | 41,050 kg |
| CRJ1000 NextGen ER | 92,300 lb. | 41,867 kg |

### MAXIMUM TAKEOFF WEIGHT

|                    |            |           |
|--------------------|------------|-----------|
| CRJ1000 NextGen EL | 85,968 lb. | 38,995 kg |
| CRJ1000 NextGen    | 90,000 lb. | 40,824 kg |
| CRJ1000 NextGen ER | 91,800 lb. | 41,640 kg |

### MAXIMUM LANDING WEIGHT

|                    |            |           |
|--------------------|------------|-----------|
| CRJ1000 NextGen EL | 81,500 lb. | 36,968 kg |
| CRJ1000 NextGen    | 81,500 lb. | 36,968 kg |
| CRJ1000 NextGen ER | 81,500 lb. | 36,968 kg |

### MAXIMUM ZERO FUEL WEIGHT

|                    |            |           |
|--------------------|------------|-----------|
| CRJ1000 NextGen EL | 77,500 lb. | 35,154 kg |
| CRJ1000 NextGen    | 77,500 lb. | 35,154 kg |
| CRJ1000 NextGen ER | 77,500 lb. | 35,154 kg |

### OPERATING WEIGHT EMPTY

|  |            |           |
|--|------------|-----------|
|  | 51,100 lb. | 23,179 kg |
|--|------------|-----------|

### MAXIMUM PAYLOAD

|                    |            |           |
|--------------------|------------|-----------|
| CRJ1000 NextGen EL | 26,400 lb. | 11,975 kg |
| CRJ1000 NextGen    | 26,400 lb. | 11,975 kg |
| CRJ1000 NextGen ER | 26,400 lb. | 11,975 kg |

### CARGO WEIGHT

|  |           |          |
|--|-----------|----------|
|  | 7,180 lb. | 3,257 kg |
|--|-----------|----------|

## Bombardier Commercial Aircraft

123 Garratt Boulevard  
Toronto, Ontario, Canada  
M3K 1Y5

Phone: +1 416-375-4027  
Facsimile: +1 416-375-4529  
www.crjnextgen.com

**BOMBARDIER**