

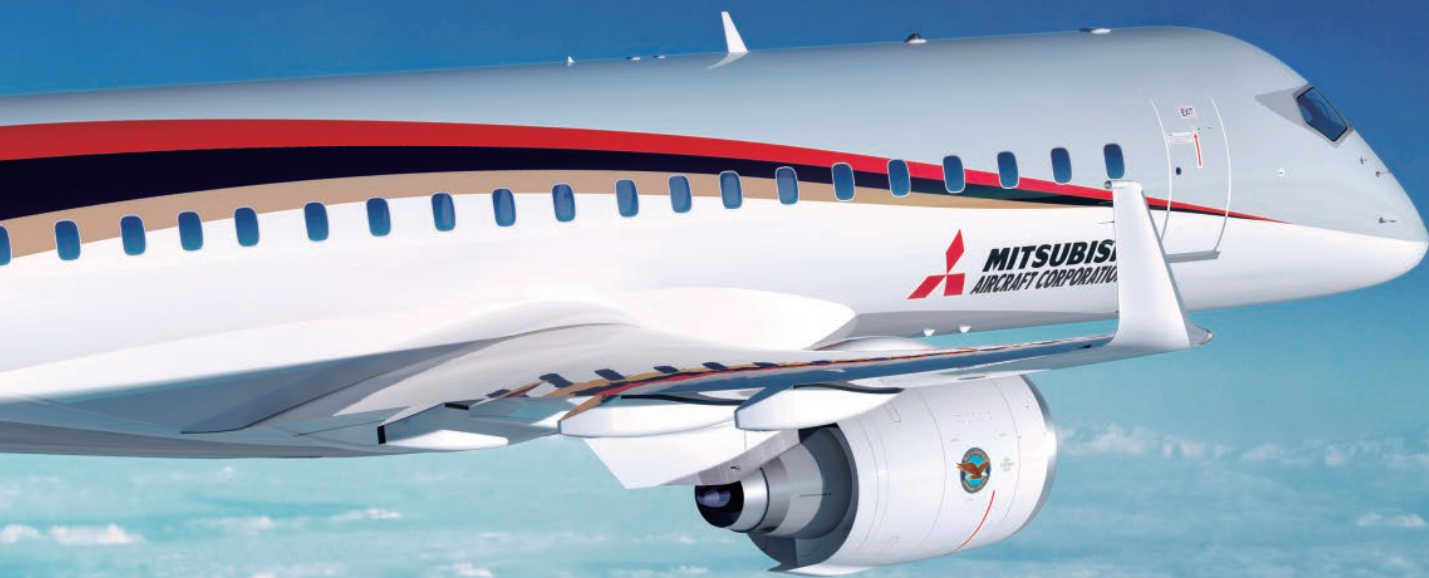
MRJ

Introducing the world's next great passenger jet  
The all-new MRJ



**Meet the MRJ.**  
The clean-sheet, next-generation commercial jet.





**Clean sheet design.** The most efficient, comfortable and reliable commercial jet to ever take flight.



**Efficiency**

Game changing technologies reduce operating costs by 20%



**Advanced Aerodynamics**

Industry-leading fuel efficiency



**Passenger Experience**

Widest economy seat and no middle seat



**Lowest Environmental Impact**  
The greenest jet in its class



**Most Advanced Flight Deck**  
Latest avionics technology

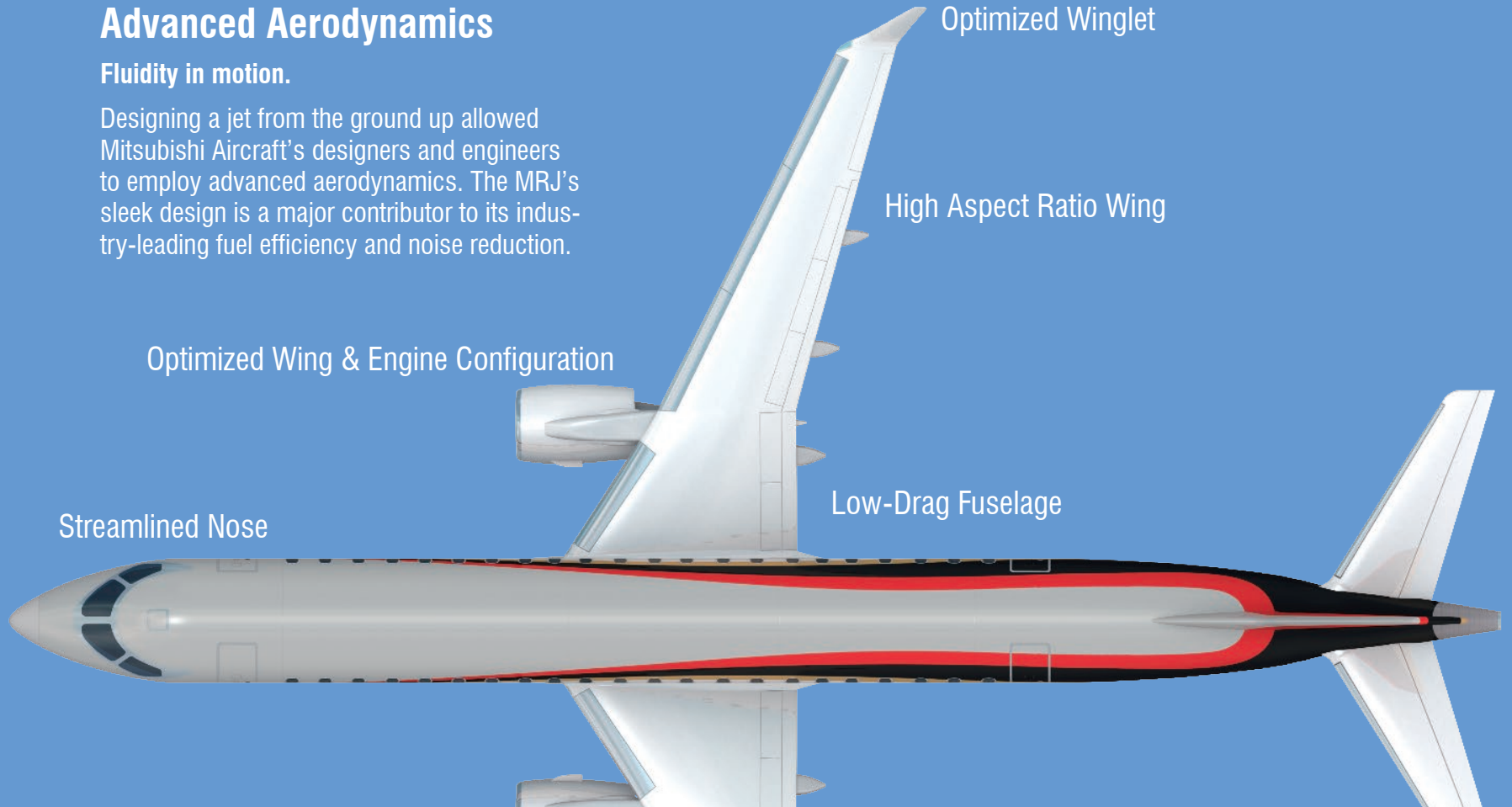


**Legendary Japanese Quality/Reliability**  
Rigorous quality controls ensure no detail is overlooked

## Advanced Aerodynamics

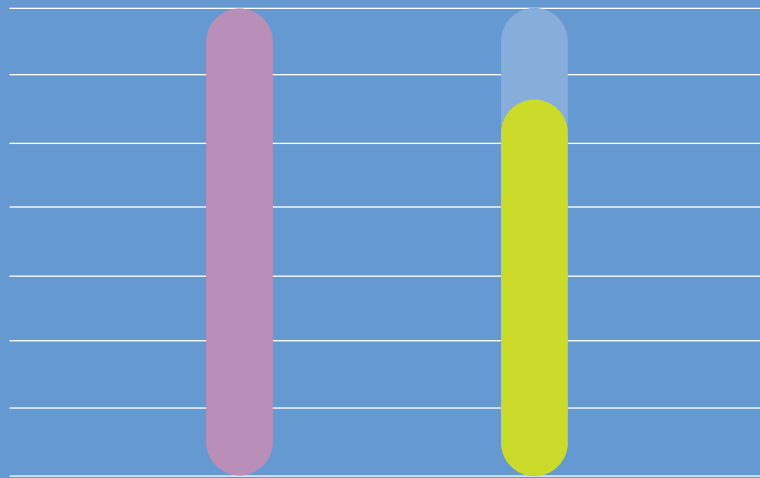
### Fluidity in motion.

Designing a jet from the ground up allowed Mitsubishi Aircraft's designers and engineers to employ advanced aerodynamics. The MRJ's sleek design is a major contributor to its industry-leading fuel efficiency and noise reduction.



## Fuel burn per trip

20%+ less with MRJ



Current Regional Jet

MRJ

Fuel Used  
(500 nm trip length)

## Efficiency – 20% Lower Operating Cost

The lowest cost to operate of any aircraft in its class.

With the MRJ, game-changing efficiency now comes standard. Thanks to Pratt & Whitney's PurePower® Geared Turbofan™ engine technology and advanced aerodynamics, it costs less to fly. Since it was designed with optimized maintenance and high commonality in mind, it costs less to keep flying, too. Your bottom line is looking up.

## Fuel Efficiency

Highest fuel efficiency.

The MRJ's new engines, its advanced aerodynamics and high aspect ratio wing all equate to a jet that uses 20 percent less fuel than comparable commercial jets.

## Maintenance

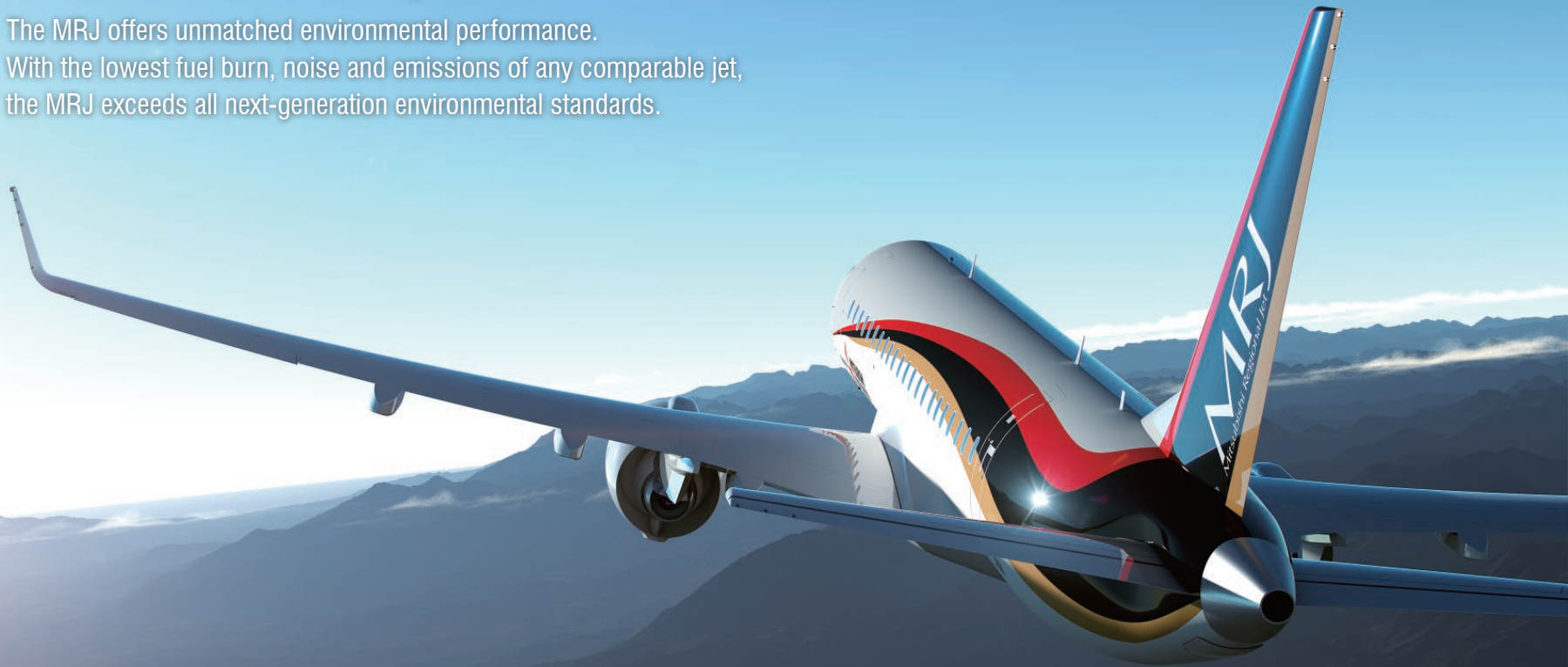
Double-digit maintenance cost reduction.

From the outset, building a plane with a higher reliability of systems and components was the priority. The MRJ employs state-of-the-art technologies proven to get the job done. Its Geared Turbofan™ engine architecture requires 60 percent fewer turbine airfoils than conventional turbofan engines and reduces maintenance time and cost.

# Environment

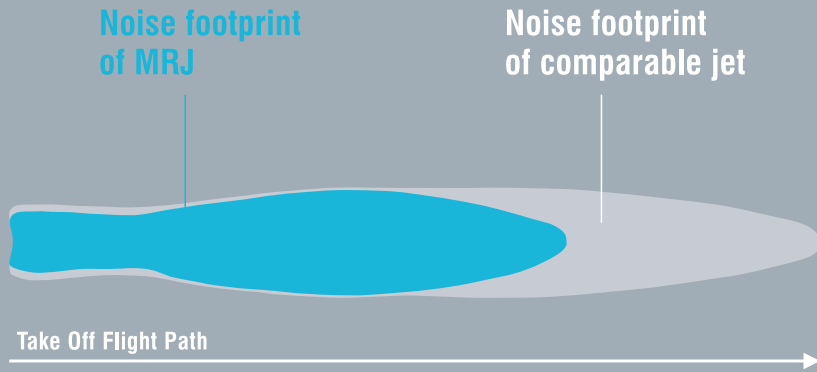
**Driven to minimize environmental impact.**

The MRJ offers unmatched environmental performance. With the lowest fuel burn, noise and emissions of any comparable jet, the MRJ exceeds all next-generation environmental standards.





## 40% noise area reduction over comparable jet

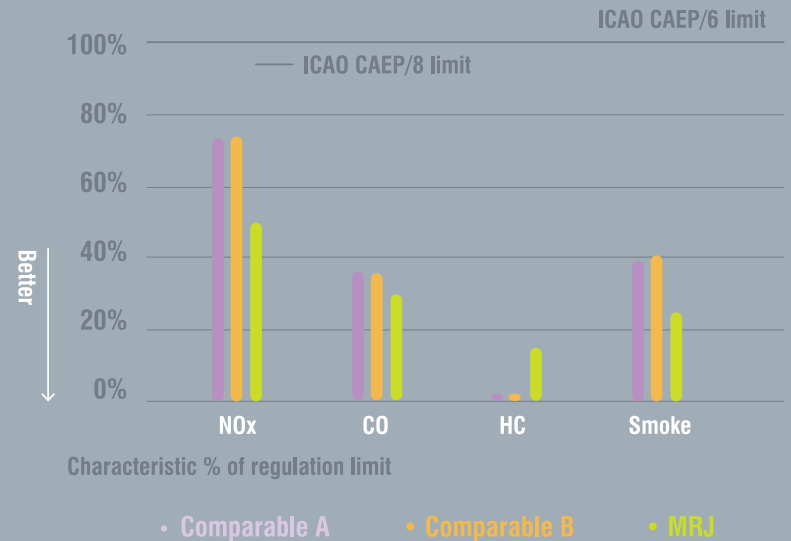


## Lowest Noise Around Airports

New engines and advanced aerodynamics help the MRJ achieve a 40 percent reduction in noise area compared to similar regional jets. Its Effective Perceived Noise in Decibels (EPNdB) is already much lower than the future ICAO CAEP Chapter 14 noise standard.

**40% noise reduction compared to current regional jet.**

## MRJ exceeds the latest ICAO CAEP standards



## Across-the-board Reductions

With significant reductions in environmental emissions, the MRJ is the greenest jet in its class and years ahead of ICAO CAEP/8 standard.

**Greenest in class already meets the latest environmental ICAO CAEP/8 standard.**

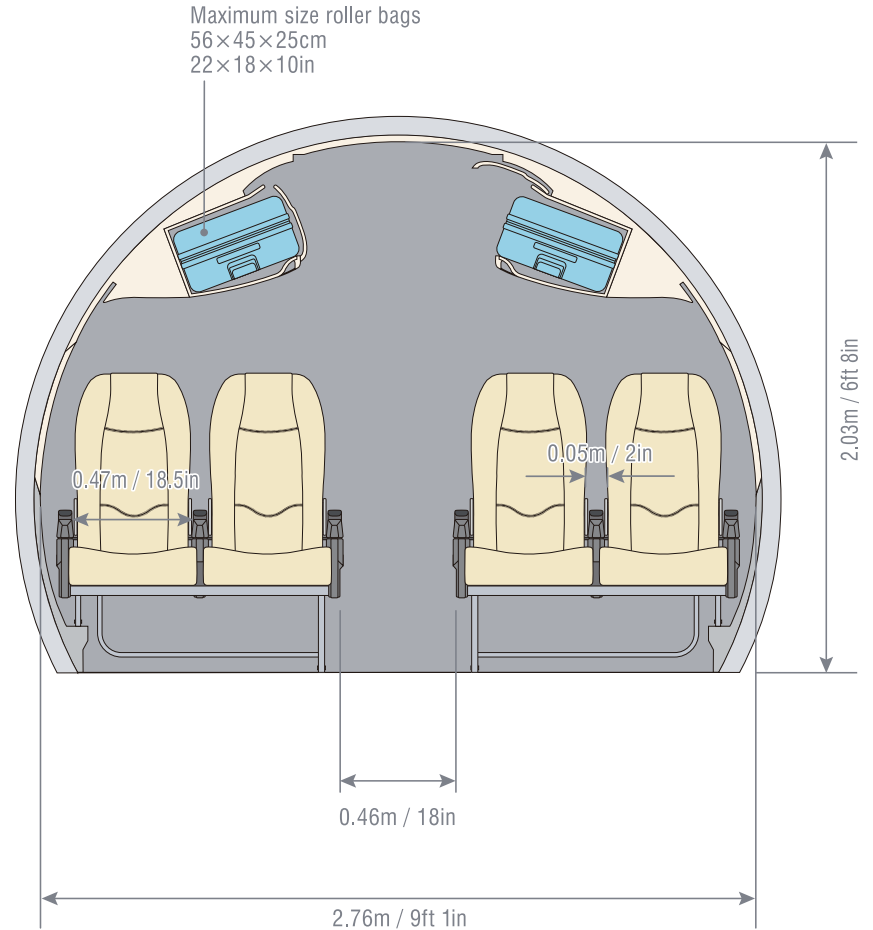




## Most Spacious Cabin

Greater comfort and space.

- Widest Economy Class Seat – 18.5in
- No Middle Seat
- Tallest Cabin
- Widest Cabin
- Large Overhead Bins
- Slim-Seat Space and Comfort



# Flight Deck Arrangement



## Newest Flight Deck

### A new view on the horizon.

The most advanced, full fly-by-wire, flight deck available today is right at home aboard the MRJ. Featuring the Pro Line Fusion® system, the latest in avionics technology from Rockwell Collins, the MRJ's flight deck maximizes situational awareness with four 15-inch landscape LCDs that deliver unprecedented clarity and information.

- 1 Primary Flight Display
- 2 Multi Function Window
- 3 CPDLC
- 4 Cat IIIa Head Up Display
- 5 Standby Flight Instrument System
- 6 Multifunction Keyboard Panel and Trackball

## New Generation Features

Cat IIIa Head Up Display

CPDLC (FANS 1/A+ and ATN)

MultiScan™ Weather Radar with Predictive Wind Shear

Vertical Situational Display

RNP AR Approach

SBAS/WAAS/EGNOS Capability

LPV (Localizer Performance with Vertical Guidance)

ADS-B Out (Automatic Dependent Surveillance – Broadcast Out)

## Legendary Japanese Quality and Craftsmanship



### Craftsmanship

Quality and craftsmanship are part of our DNA.

At the core of Mitsubishi Aircraft Corporation is a tradition of craftsmanship and engineering excellence. Now our passion for innovation and commitment to sustainability are on display for the world to see in the all-new MRJ – conceived, designed and engineered to be the best.



### Built in Japan

Precision and pride.

Kaizen is a Japanese philosophy for continuous improvement – a key driver of Japan's global prominence in manufacturing and our pursuit of constant innovation in aviation technology and performance.



### Quality

Reliability for the long haul.

Crafting a marvel of modern engineering like the MRJ demands teamwork and collaboration from the CEO to the assembly line. Rigorous quality controls ensure no detail is overlooked. The result is a commercial jet that's built to last.



## Customer Support

**World-class customer support from day one.**

We are continuously working with customers to ensure they receive the support they need and expect at entry into service. Maximum availability and lower maintenance costs are achieved with 24/7 technical support that includes optimized spare parts management programs, global flight and technical training programs, the latest standard for online technical data, airplane health management and more.

Our customer support program is made possible through our unique relationships with proven partners such as Boeing, CAE, Deloitte and Saab. We are committed to constantly improving MRJ customer support services to add value to your fleet and improve your operational performance.

\* For Start Up Team and Field Service Representatives

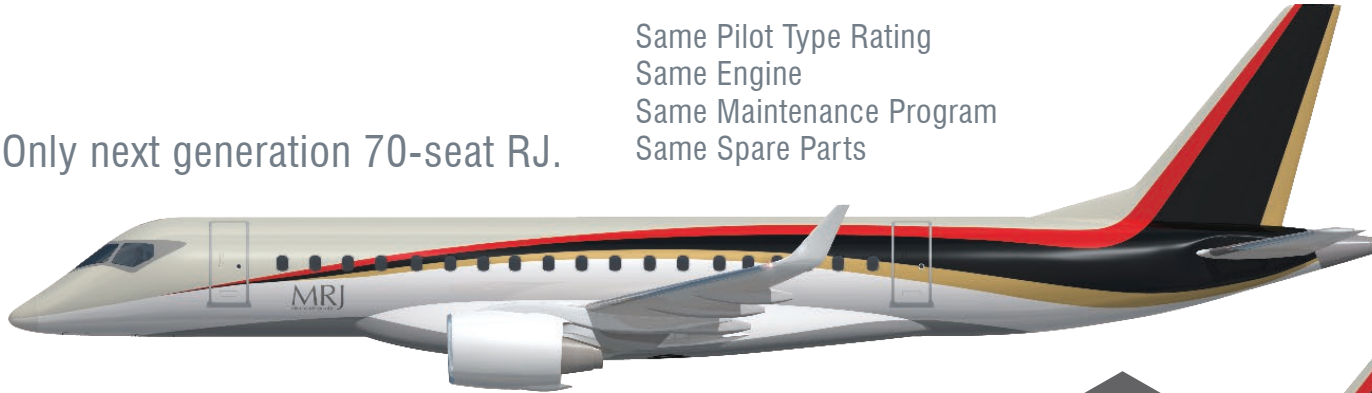
\*\* For Spare Parts Provisioning Plan





**MRJ70** Only next generation 70-seat RJ.  
76 Seats

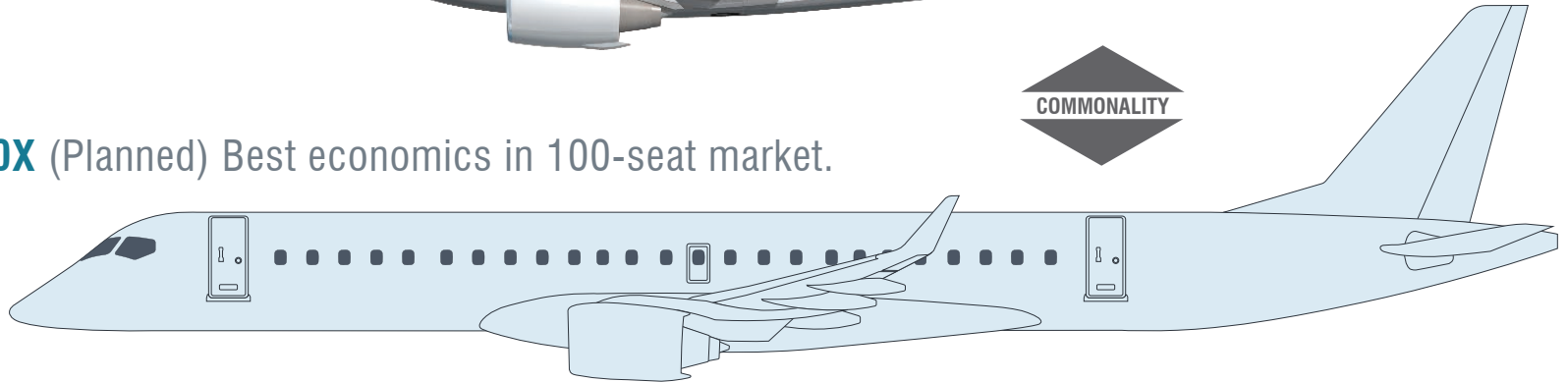
Same Pilot Type Rating  
Same Engine  
Same Maintenance Program  
Same Spare Parts



**MRJ90** Feeder operation, market opener.  
88 Seats

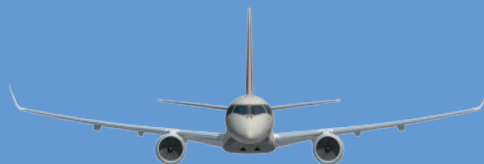


**MRJ100X** (Planned) Best economics in 100-seat market.  
100 Seats



\*Typical single class at 31" pitch

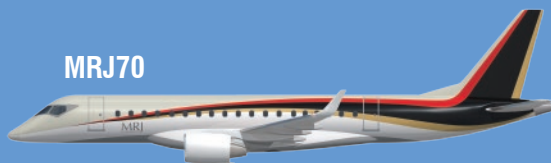
MRJ90 / MRJ70  
29.2m / 95ft 10in



33.4m / 109ft 8in



MRJ70



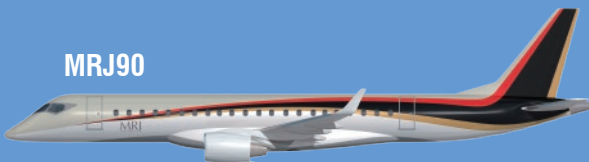
10.4m / 34ft 2in



35.8m / 117ft 5in



MRJ90



10.4m / 34ft 2in



MRJ90



MRJ70



# Specifications

## MRJ90 VARIANTS

		MRJ90STD	MRJ90ER	MRJ90LR
Passengers		88 (Typical Single Class at 31" Pitch)		
Cargo Compartment	m <sup>3</sup> (ft <sup>3</sup> )	18.2 (644)		
Engine		Pratt & Whitney PurePower® PW1217G Engine		
Engine Thrust	kN (lbf)	78.2 (17,600) x 2		
Maximum Takeoff Weight	kg (lb)	39,600 (87,303)	40,995 (90,378)	42,800 (94,358)
Maximum Landing Weight	kg (lb)	38,000 (83,776)	38,000 (83,776)	38,000 (83,776)
Maximum Zero Fuel Weight	kg (lb)	36,150 (79,697)	36,150 (79,697)	36,150 (79,697)
Range @ 88PAX x 102kg (225lb)	km (nm)	2,120 (1,150)	2,870 (1,550)	3,770 (2,040)
Maximum Operating Mach Number		0.78	0.78	0.78
Maximum Operating Altitude	m (ft)	11,900 (39,000)	11,900 (39,000)	11,900 (39,000)
Takeoff Field Length (MTOW, SL, ISA)	m (ft)	1,490 (4,890)	1,600 (5,250)	1,740 (5,710)
Landing Field Length (MLW, Dry)	m (ft)	1,480 (4,860)	1,480 (4,860)	1,480 (4,860)

## MRJ70 VARIANTS

		MRJ70STD	MRJ70ER	MRJ70LR
Passengers		76 (Typical Single Class at 31" Pitch)		
Cargo Compartment	m <sup>3</sup> (ft <sup>3</sup> )	18.2 (644)		
Engine		Pratt & Whitney PurePower® PW1215G Engine		
Engine Thrust	kN (lbf)	69.3 (15,600) x 2		
Maximum Takeoff Weight	kg (lb)	36,850 (81,240)	38,995 (85,969)	40,200 (88,626)
Maximum Landing Weight	kg (lb)	36,200 (79,807)	36,200 (79,807)	36,200 (79,807)
Maximum Zero Fuel Weight	kg (lb)	34,000 (74,957)	34,000 (74,957)	34,000 (74,957)
Range @ 76PAX x 102kg (225lb)	km (nm)	1,880 (1,020)	3,090 (1,670)	3,740 (2,020)
Maximum Operating Mach Number		0.78	0.78	0.78
Maximum Operating Altitude	m (ft)	11,900 (39,000)	11,900 (39,000)	11,900 (39,000)
Takeoff Field Length (MTOW, SL, ISA)	m (ft)	1,450 (4,760)	1,620 (5,320)	1,720 (5,650)
Landing Field Length (MLW, Dry)	m (ft)	1,430 (4,700)	1,430 (4,700)	1,430 (4,700)

# Interior Arrangement

No over-wing exits, flexible interior layout.

## MRJ90

Typical Single Class  
88 Economy-class Seats / 31" Pitch



## MRJ70

Typical Single Class  
76 Economy-class Seats / 31" Pitch



## MRJ90

Maximum Capacity  
92 Economy-class Seats / 29" Pitch



## MRJ70

Maximum Capacity  
80 Economy-class Seats / 29" Pitch



## MRJ90

Typical Dual Class  
9 Business-class Seats / 36" Pitch 72 Economy-class Seats / 30" Pitch



## MRJ70

Typical Dual Class  
9 Business-class Seats / 36" Pitch 60 Economy-class Seats / 30" Pitch



## The MRJ Range Capability

The MRJ has more than enough range capability to cover any regional network in the world.



ISA, 85% Annual Wind, LRC @ 37,000ft, Alternate 100nm, 5% Airways Allowance  
Payload : Full Passenger, Typical Single Class, 102kg (225lb) per Passenger

# Mitsubishi Heavy Industries (MHI), Japan

## Our Technologies, Your Tomorrow

The parent company of Mitsubishi Aircraft Corporation, MHI has more than 130 years of experience designing and engineering hundreds of products. A huge technological advantage when building a brand-new, next-generation regional jet aircraft.



**Space Systems**



**Commercial Aircraft**  
(Major Sub-Assemblies)



**Thermal Power Systems**



**Land Transportation Systems**



**Shipbuilding & Ocean Development**



**Chemical Plant & Infrastructure**

## Company Profile

Mitsubishi Aircraft Corporation commenced operation in April 2008, after the MRJ program-launch announcement in March 2008. The MRJ is a next-generation regional jet developed by Mitsubishi Aircraft based on technology cultivated by Mitsubishi Heavy Industries, Ltd. (MHI) through its experience designing and engineering hundreds of products.

## Our Capital Investors



Mitsubishi Corporation

**TOYOTA**

Sumitomo Corporation



MITSUI & CO.



TOKIO MARINE  
NICHIDO

**JGC CORPORATION**



MITSUBISHI  
ELECTRIC

**MITSUBISHI RAYON**



Development Bank of Japan

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