

## Contributing to the development of the Japanese aviation industry

### PW1200G engine assembly and test project for MRJ

#### The pursuit of trust and efficiency on the production line

Towards production ramp-up of PW1200G engine assembly for Mitsubishi Regional Jet (MRJ), we have been working on the establishment of assembly techniques and test methods to evaluate engine performance, configuration management, scheduling and the creation of most efficient production methods. We have finished establishing the production line, which is scheduled to start engine assembly in 2016. We will continue with improvement efforts beyond that and also further evolve the production area.



## Hiroshi Kurihara

Assistant Manager  
Engineering & Management Team,  
Assembly & Maintenance Section,  
Production Dept.,  
Mitsubishi Heavy Industries Aero Engines, Ltd.  
(MHIAEL)

Joined Nagoya Guidance & Propulsion Systems Works in 2004. Engaged in quality assurance operations in relation to the manufacture and maintenance of engines for both commercial airlines and the Ministry of Defense. Since April 2015, he has been responsible for production technology and production control. As Team Chief, he coordinates the entire project.

#### Towards the completion of PW1200G engines for the MRJ

##### 2010 – August 2015 Preparing for production

Improvement of production area, selection of jigs and tools and preparation of test cell.

##### August 2015 – Module assembly

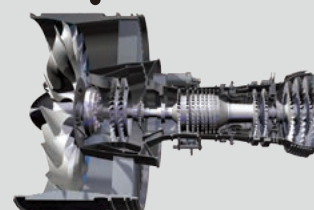
Assembly of each module that forms the engine.

##### 2016 – Engine assembly

Start assembly of the first engine, which MHIAEL is responsible for its final assembly and test.

##### Launch of production ramp-up

Start assembly for production ramp-up, have engines tested at test cell and conduct shipments.



It is important to communicate with mechanics and test operators

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#### —What is your role in the project?

At the Assembly & Maintenance Section, we work on production planning, production engineering and assembly/maintenance of airplane engines. The Engineering & Management Team establishes new processes for configuration management, assembly workflow and test procedures, and improves production tools for assembly and test cell. We also promote activities to create a manufacturing environment that enables all employees to create good products at the lowest cost in the shortest period of time. As a leader, I am in charge of the total coordination of the project.

#### —What do you keep in mind when working?

I very much emphasize communication with mechanics and test operators to quickly identify problems and to promptly solve them. In addition, I try to encourage everyone to take part in information sharing meetings with manufacturing partners and social meetings with experts so that we enjoy our work as engineers and maintain motivation to lead the aviation industry in Japan.

#### —What difficulties have you faced in your work?

I always feel a great deal of pressure in terms of flight safety. I constantly consider the best way to ensure safety, and I believe this is a crucial thing to think about as a person involved in the aviation industry.

#### —Please tell us your goals for the future.

I want to ensure on-time delivery of our 1st engine and steadily prepare for subsequent production ramp-up. As our plant is the first production base of engines for commercial aircraft in Japan and only the sixth in the world, I want to create a working environment that is worthy of this. As a member of civil aviation manufacturer, I hope to contribute to the development of aviation industry in Japan by working collaboratively with aviation authorities.



### What kind of person is Mr. Kurihara?

Positive and bright person who  
inspires those around him

Mr. Kurihara's senior

**Toshiaki Tsuruga**  
Senior Assistant Manager,  
Assembly & Maintenance  
Section,  
Production Dept.



When Mr. Kurihara talks about engines, the way his eyes sparkle tells us that he really feels satisfied and motivated with his work. He is always positive and shares his ideas on any problems we face, by saying for example, "We can do it this way!" He is a really promising leader for the future who can and does lead the team to pursue our goal.