

INTEGRATED PRODUCTION

Aircraft engine parts and precision parts for the aerospace industry

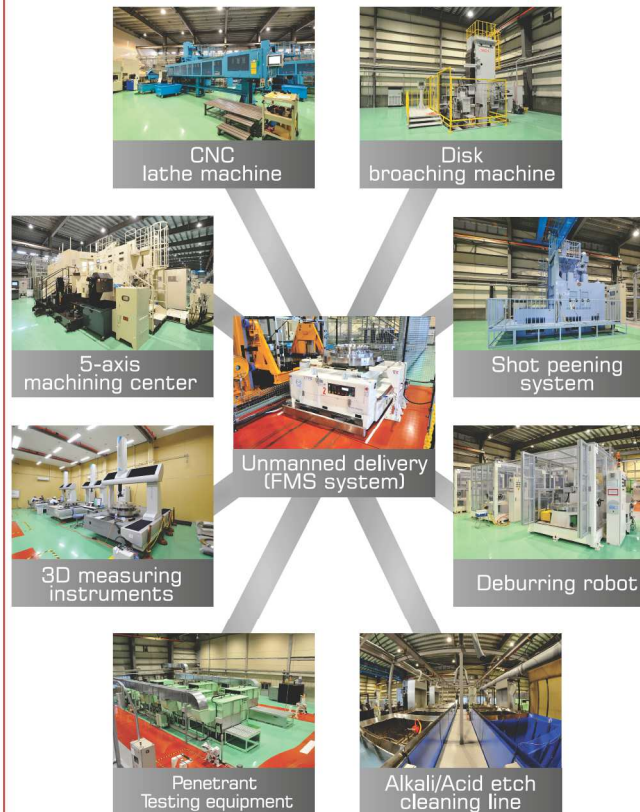
- Thoroughly managed **Quality and Just in time delivery** through the integrated production process
- **Granted NADCAP accreditation** for Aircraft Quality System and Non-destructive testing (PT)
- Improve flexibility and reliability of **various processes** through a unique industrial consortium in Japan



* The above is an example.
Collaboration with cooperating companies enabling our flexibility and reliability of various processes.

Unmanned production carried by FMS system

The FMS system contributes greatly to the prevention of human errors and cost reduction of the production process.



Engine parts manufactured

TRENT 1000	Combustor Case
TRENT XWB	Stub shaft Disk
TRENT	Front Case
GENx	Combustor Case
PW1100G	Compressor Ring Shroud
PW4000	Combustor Case

Main Facility

- **5-axis Machining Center [X301]:**
YASDA, MAKINO, MORI (FMS available)
x1500 y1400 z1400 mm, etc.
- **CNC lathe machine [X10]:**
VTLex1100 (FMS available) etc.
φ1350×L835 mm
- **Disk broaching machine:**
Horizontal 160KN SV-16025MNC
(turbine disk grooving)
- **Shot peening system:**
Air blast machine
(Direct pressure carriage type DMD-111)
- **Deburring robot:**
FANUC 6-axis robot M-710iC/50
- **Alkali/Acid etch cleaning line:**
W1500×D1400×H850 mm
- **Penetrant Testing equipment:**
L1400×W1400×H550 mm
- **Magnetic particle Testing bench:**
φ400×L1300 mm
- **Radiographic testing bay:**
φ1056mm / 450kV
- **3D measuring instruments (CMM):**
Body:Global Advantage etc.
x1500 y2200 z1000 mm