





## **18,000** man hours

to complete a major heavy maintenance visit on an Airbus 320

From above, the hangar may

seem like a maze of wires, tools,

among cities of toolboxes, which

surround the three massive jets.

To any outsider, it may seem a bit

chaotic, but a closer look shows

The heavy-maintenance

department (with two locations

in Charlotte and Pittsburgh) is

like a doctor's office for planes.

from long-term inspections to

new galley mats — anything

from major surgery to a minor

"We have more than 400

mechanics and aviation profes-

sionals who work here," says

Frank Milillo, director of base

Clearly, the mechanics have

plenty of experience, but on

top of that they have their FAA

A&P (Airframe and Powerplant)

license, 80 hours of training per

specific aircraft, and yearly recur-

rent training.

maintenance at PIT. "The aver-

age seniority is around 27 years."

checkup.

Aircraft come here for anything

that it's all very organized.

sheet metal, parts, and pieces.

Workbenches are scattered

Fixing in Figures

170 average number of planes serviced at **PIT hangar yearly** 



24/7 hours a day and days a week that the hangar works

380 mechanics and inspectors at PIT

27 years average seniority of the mechanics at PIT



Certain tasks completed on an aircraft may have a requirement to be inspected again. "We have quality-control inspectors who double check the work of a mechanic whenever a flight critical system is worked on," Milillo says. "We use ultrasonic inspection to look for deep structural cracks. We use thermographic inspection to check for internal moisture that could cause damage to flight controls. And we also use eddy-current inspection to look for surface cracks in aluminum structure." The hangar pays strict attention to detail. Whenever a mechanic takes a part off an aircraft, the part is tagged, and a corresponding tag is placed in the spot



from which it was taken. Some planes are draped with little vellow tags. Then there's the wall of small parts that looks like a library's card catalog. Above the wall is a chart of every screw, nut, bolt and miscellaneous piece, along with the drawer and compartment number where each item is located.

## Hefty Achievement

We're not the only ones taking note of US Airways' maintenance team. Recently the airline was awarded the prestigious 2012 MRO of the Year Award for Airline Maintenance Excellence by Aviation Week and Overhaul & Maintenance magazine. The award is given to the world's top maintenancerelated companies. US Airways is recognized for reducing the number of aircraft out of service due to maintenance, significantly lowering deferred maintenance items, and for becoming the first airline to have its FAA-approved Safety Management System program validated by the International Air Transport Association's Operational Safety Audit.



LEADER OF THE PACK MEET: Bob Black **TITLE:** Lead Mechanic TIME WITH US AIRWAYS: 32 years

As a lead mechanic, Bob Black oversees a crew of 12 and coordinates work assignments to make sure planes meet their ETR (estimated time of readiness). That's one of the biggest challenges for Black, "There's a little anxiety because we all want to succeed," he says. "We're all driven to succeed." But with a strong team, the job becomes easier. "There is an absolute dedication of the guys that maintain these airliners." Black says.

His favorite part of the job happens once a job is complete. "After we get the plane all back together, I love watching it fly," Black says. "People that I'll probably never see in my entire life depend on the work that we do, and that is really cool."

## **LEARNING TO FLY** MEET: Joe Fleet

TITLE: A&P Mechanic TIME WITH US AIRWAYS: 28 years

Probably one of the nicest guys you'll ever meet, Joe Fleet knew instantly that he was going to work in the hangar. "I first started delivering mail here," he says. "I had never seen a place this big, and I thought, 'I'm going to work here someday.' "He has now been at the hangar for 24 years.

Although Fleet typically works on the wings, he keeps updated on all aspects. "You're always learning, and you need to continue so you don't become complacent," he says. "You have to keep learning to become proficient."

His favorite part of the job? "At the end of the day, I like the satisfaction of getting a job done well and to completion.



While the mechanics are trained on all aspects of an aircraft, most find a specialty. Some prefer to work on flight controls, others on avionics, while others enjoy sheet metal or composite repairs. Each plane has a checklist, which can easily contain thousands of items, showing every single part that must be inspected or worked on. Once a mechanic has completed an item, he or she signs off on the checklist.

In a place as detail-oriented as Hangar 5, every job, whether large or small, has a common focus: safety. "Our satisfaction is knowing that aircraft leave the hangar in pristine condition and that they are safe and reliable," Milillo says. "The safety of our passengers and crew is our absolute number-one priority."

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