



# Case Study



ADI marks top-line assemblies and detailed sub-components with JETEC's Flex-A-Jet mobile marking station.

## INDUSTRY

Aerospace & Defense manufacturing

## LOCATION

Valencia, CA

## COMPANY TYPE

A PCC Aerostructures company

## SIZE

\$10-50M annual revenues\*

## PREVIOUS MARKING METHOD

Hand stamping

## JETEC SYSTEM

Flex-A-Jet 5400

## INKJET PRINTER

Videojet Excel High Res

\* Estimated revenues reflect Aerospace Dynamics International

## AEROSPACE DYNAMICS INTERNATIONAL

Aerospace Dynamics International ("ADI") is broadly recognized as one of the world's most respected suppliers of large complex machined parts and assemblies in the aerospace industry. ADI is a provider of major structural components on most commercial and military aircraft commissioned in the past 20 years.

ADI's production capabilities include landing gear, wing-folds and detailed parts for top level assemblies. Acquired by PCC in 2014, ADI's customers include major OEMs such as Airbus, Boeing, Lockheed Martin and Spirit Aerosystems.

## THE CHALLENGE

To meet OEM parts marking specifications, ADI was hand stamping parts.

*"In many cases, we were building stamps by hand because it was faster than ordering them. However making and using stamps was tedious, additional work for our production floor team."*

- Production Manager

Marks were frequently smudged and blurry. New employees who weren't familiar with hand stamping processes and the required ink drying time would spend a lot of time doing rework.

While conducting research into aerospace parts marking solution providers, ADI reached out to JETEC. Through conversations, JETEC learned that ADI's parts marking goals included:

- The ability to mark both small components and large top-line assemblies,
- A system that could scale as ADI's production operations grew,
- Solutions that were Boeing 5307 and Lockheed EMAP compliant, and
- A low cost per mark



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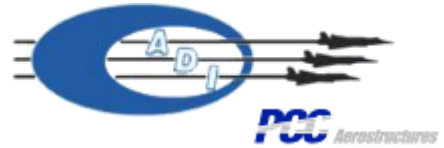
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Marking problems, solved.



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## THE SOLUTION

*"Once we received the marked samples, it became clear that JETEC's solution would offer us the marking consistency and flexibility that we wanted."*

- Marking Supervisor, ADI

ADI was familiar with aerospace ink jet printing through internal conversations it had with other PCC subsidiaries. Based on the size of ADI's large components and top-line assemblies, JETEC recommended the mobile marking station, Flex-A-Jet 8400. Flex-A-Jet provides part marking capabilities in a mobile format that can be wheeled to components and marked using a handheld gun. Flex-A-Jet was delivered with JETEC's industry leading IMS inkjet marking system software, which expands the capabilities of printers to include Windows Fonts, barcodes, 2D codes, logos and images.

## THE RESULTS

With Flex-A-Jet and fast drying inks, JETEC was able to eliminate ADI's previous smudging and smearing issues and associated re-work. ADI reports that marking parts has become much easier and the [Flex-A-Jet] has helped improve the efficiency of their production operations.

*"We use our production floor more efficiently and no longer need to store large parts while we wait for hand stamps to arrive or dry."*

*"The team at JETEC has been very helpful, patient and detailed when teaching us to use the machine. JETEC's IMS software is easy to use—we trained our new operator once, and she now creates the majority of our marking programs."*

- Production Manager, ADI



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*"We've recently engaged JETEC to help us create a marking process involving zero-gravity arms to expand our parts marking capabilities to include parts that can't be placed on a surface."*

JETEC has been solving marking problems for Aerospace & Defense and Electronics' OEMs, and their contract manufacturers, for over 25 years. Our equipment is used by global Tier 1 OEMs, single site CNC machine shops and everyone in between. We offer a suite of standardized and custom inkjet-based product marking systems as well as stand-alone inkjet printers, fluids, software and services. To learn more, visit us on the web at [www.jetec.com](http://www.jetec.com) or call +1.949.477.6161. JETEC. Marking problems, solved.