



SAFRAN
Messier-Bugatti-Dowty

Case Study

Messier-Bugatti

Productivity Improvement at 30,000 Feet

Solution delivered by Parsec Certified Partner

YPSYS
time for real performance



Aerospace Industry

"Within three months of deploying TrakSYS™, we were able to identify root causes of the production problems, prioritize them by their impact, and focus on measurably improving production capacity."

Christophe Joubert
Production Manager

Utilized TrakSYS™ Features & Functions



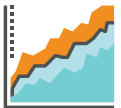
Planning & Scheduling



Performance Management



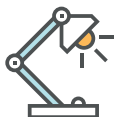
Workflow Management



Historian



Quality & SPC



Task Management



Regulatory Compliance



eLog Book



Traceability



Messier-Bugatti had limited visibility into their production capacity, and had difficulty estimating if they could handle new orders.

Company Overview

Messier-Bugatti, a Safran Group company, is the world leader in aircraft landing and breaking systems with more than 7,000 employees. The company provides innovative braking, steering, landing and monitoring systems that are used on more than 25,000 aircraft worldwide ranging from commercial to military with over 700 million Euros in annual revenue¹. Messier-Bugatti also holds a 51% global market share for aircraft carbon braking systems with more than 6,800 aircraft³.

In addition to component manufacturing Messier-Bugatti also designs, develops, supports, repairs and overhauls aircraft systems including; taxiing systems, landing

gear, wheels and brakes, steering and monitoring systems².

With a large range of products created and designed, Messier-Bugatti had a complex operation that spanned more than 3 continents, including 10 repair stations servicing all world-wide clients¹.

Headquartered in Vélizy, France, Messier-Bugatti had locations reaching from Singapore to Seattle ranging from carbon disk repairs and refurbishment to complete turnkey landing and steering systems. Messier-Bugatti had a very large and complex operation and needed something to drive productivity improvements.

TrakSYS™ was selected because it met all the Messier-Bugatti project requirements. Specifically, Messier-Bugatti pointed out the following as major factors for choosing TrakSYS™:

- Open and configurable
 - Modular and scalable
 - Web-based reporting
 - Powerful, expandable, fast to deploy, and very economical
 - Ability to continue deployment (modify and expand) using internal resources
 - The confidence in Parsec's experience and product support
 - Impressed by the configurability of TrakSYS™ and the support provided by Parsec and its certified partner, YPSYS
 - The solutions scalability allowed for future projects to require no changes in solution software
 - Simple yet powerful
 - Clear value in the data provided to each workstation
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TrakSYS™ Solution Approach

With production and repair locations spanning the globe, Messier-Bugatti had a large operation with many systems and regulations in place. They needed something that could maintain their high level of quality and compliance and give them visibility into their capacity.

Challenges:

- Implementing the Messier-Bugatti continuous improvement initiatives including 5S, SMED, and LMI.
- Clear visibility of the production value stream as part of the Lean Manufacturing Program.
- Accurate production planning and scheduling across many sites.
- Accuracy and consistency of production data to determine true utilization and capacity of assets.
- Production data analysis (specifically for improving performance).

Goals

- Availability of timely and correct information to more effectively plan, schedule, and execute production orders.
- Putting in place the tools needed for successful execution of the Continuous Improvement initiatives.
- Have a clear understanding of production capacity and bottlenecks in real-time.
- Effectively involving operators and stakeholders to improve commitment to operational excellence for better asset performance.
- Improve production capacity, reduce production lead time (unit production time).
- Achieve ROI during the first year after deployment.

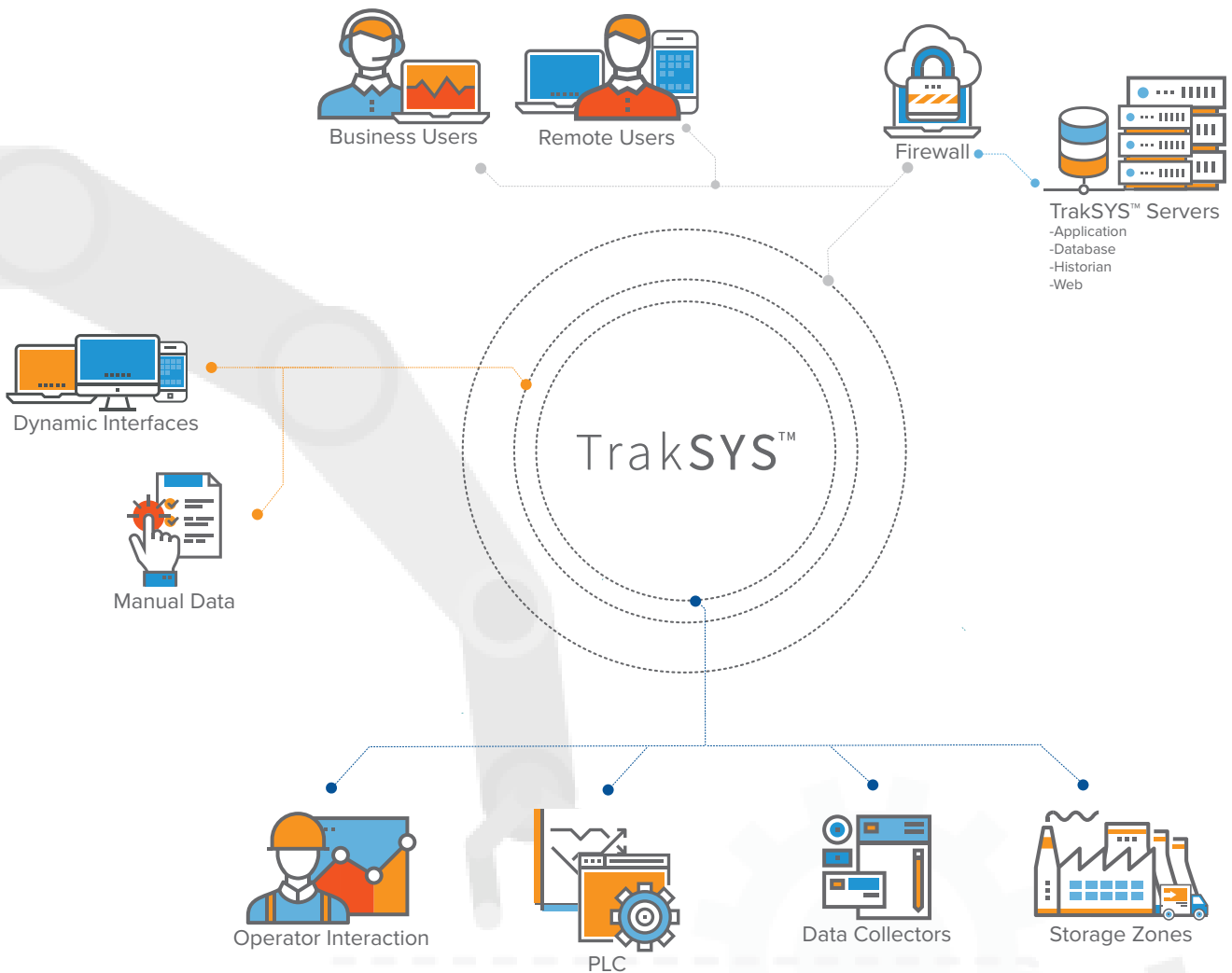


Figure 1 - Messier-Bugatti Architecture

Messier-Bugatti TrakSYS™ Architecture

- TrakSYS™ was deployed on one server dedicated to the Application, Database, and Web.
- 12 CNC machines and their control systems were connected to the TrakSYS™ Server over an Ethernet LAN using OPC communication.
- 12 EVENTTrak™ operator interface nodes throughout the facility to enable interaction with the systems (e.g., view information, reports, enter observations, categorize events, etc.).
- Plant-wide user workstations to view production and performance information via standard browser technology.

Messier-Bugatti needed a system that could garner visibility into unscheduled downtime causation.

TrakSYS™ Solution Results

After the deployment of TrakSYS™, Messier-Bugatti was able to:

Replace

Outdated Manual Time Tracking Processes

Daily

Reports ready for Management

Track

Serial Numbers, Time Durations, Labor Hours etc.

Expand

TrakSYS™. Started on 2 Lines, and Expanded to 12

Identified

Major Causes of Short Stops

Improved

Daily Production Time by One Hour Per CNC Machine

ROI

Was Achieved in Less than 3 Months

Determine

Correct Resource Allocations and Utilizations

Benefits Achieved with TraksSYS™ Solution

- Understanding actual capacity and utilization of assets and infrastructure.
- Created a global information flow that was real-time, agile, efficient, and readily available for continuous improvement with informed decisions at all sites.
- Created schedules for asset improvement tasks to better extend resource utilization.
- Calculating process lead times correctly and reducing late delivery.
- Improved manufacturing processes while reducing production costs and adhering to all compliance regulations.
- Reduce downtime considerably by understanding causation of frequent value chain short stops.



About Parsec

Parsec is the developer of TrakSYS™, a proven operations management software application and solution platform designed to significantly improve manufacturing processes. Parsec is committed to providing best-in-class products and solutions to our worldwide community of clients to assist them in optimizing their manufacturing operations. There are thousands of TrakSYS™ licenses in use around the globe in a wide variety of Industries.

TrakSYS™ helps manufacturers to maximize asset utilization and efficiency, increase capacity with no new capital equipment, reduce production costs, decrease lead time, and improve profitability. For more information about Parsec and TrakSYS™, please visit the corporate website at www.parsec-corp.com.

Sources

1. (n.d.). Retrieved November 25, 2015, from <https://en.wikipedia.org/wiki/Messier-Bugatti-Dowty>
2. Company. (n.d.). Retrieved November 25, 2015, from <http://www.safanmbd.com/company>
3. Messier-Bugatti-Dowty S.A.: Private Company Information. (n.d.). Retrieved November 25, 2015, from <http://www.bloomberg.com/research/stocks/private/snapshot.asp?privcapId=5523235>

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