

Atlas Copco Tools & Assembly Smart Integrated Assembly

PROBLEM STATEMENT

Defense manufacturers face increasing requirements for assembly quality, process control, workforce efficiency, and production traceability. Manual assembly processes can introduce errors, inconsistent torque application, rework, and limited visibility into production data. Manufacturers require scalable solutions that improve quality while maintaining compliance with demanding aerospace and defense standards

TECHNOLOGY SOLUTION

Atlas Copco delivers Smart Integrated Assembly solutions that combine PF8000 controllers, intelligent assembly tools, station automation, operator guidance, vision systems, and ToolsControl software into a connected manufacturing platform. These solutions provide real-time process control, error-proofing, digital work instructions, and complete assembly traceability to support mission-critical manufacturing operations.

BENEFITS

Improved First-Pass Yield Reduced Rework and Assembly Defects Complete Fastening and Process Traceability Enhanced Workforce Productivity Faster Operator Training and Onboarding Improved Compliance with Quality Requirements Real-Time Production Visibility Increased Manufacturing Consistency Across Facilities Scalable Solutions for Aerospace, Defense, Shipbuilding, and Industrial Production Support for Continuous Improvement and Digital Manufacturing Initiatives

GRAPHIC

