Process Application & Consulting Services

The ABB Process, Application and Consulting Services group (PACS) provides services aimed at improving the performance of our customer’s existing automation equipment while reducing operating costs. Productivity experts are readily available to identify and implement process improvements for Robotics, Paint, Body-in-White, Material Handling, Powertrain, Press and Arc Welding automation systems. PACS also offers a variety of standard products to improve system operation and can provide expertise in Industrial IT and Lean Manufacturing techniques.

PRODUCT OFFERINGS

- **Asset Management Audits & Assessments** - Regular audits are important to a successful maintenance or continuous improvement program. In order to better understand how specific corrective or preventive actions can improve the Overall Equipment Effectiveness (OEE) of your process, we can analyze the following key areas of your operation:
  - Operational status of equipment
  - Individual process performance
  - Personnel performance and productivity
  - Physical environment in which you operate
  - Health assessments of the equipment

Our productivity experts collect the data, analyze it and prepare detailed reports that include prioritized recommendations for improvement.

Audits can be designed to examine key operational issues such as:

- Lean manufacturing techniques
- Adherence of safety and environmental regulations and procedures
- Review of software programs, backup procedures and frequency
- Downtime analysis and collection of information from service logs
- Review of preventive maintenance documentation, procedures and frequency
- Evaluation of machine program and cycle time for maximum efficiency
- Individual meeting with operators, service personnel, and management about key areas of concern in system performance
- Review of quality metrics such as FTQ, FTC, defects, re-work, etc. and recommendations for improvement.

www.abb.com/robotics
Implementation Services - ABB specializes in the project management and execution of its audit recommendations.

System Reconfiguration - System reconfiguration can be performed to adapt your existing systems to new production requirements such as:
- Layout changes
- Simulations
- Modifications driven by new product/materials
- Adaptation to changing safety/environmental requirements.

Asset Relocation, Re-Installation & Production Start-Up Services – Our experts can assist you with the relocation of your automation equipment. They will tag and identify all equipment, coordinate packaging, removal and freight. Once the equipment has arrived at its new destination, our experts can assist with unpackaging of the equipment, re-installation and validation of operation. They can also provide software programming assistance and training of new operators.

Standard Products:
- Network Servers - for remote file management.
- Remote Operator Panels - moves controller functions and teach pendant to a location more accessible to operators.
- Servo Disconnects - allow personnel to enter work envelope by removing motor power while leaving power to controller.
- Bullseye TCP Calibration Devices - decreases downtime, scrap, and rework caused by an inaccurate tool center point.
- Protective Covers - for robot arms.
- Top or Side Mount Air Conditioners - for all controller types.
- Teach Pendant Cable Reels - prevents damage and organizes the cable.

Industrial Technology Software:
- Webware - provides production monitoring via the Internet.
- Robot Studio - for simulation and offline programming.