



- A** PLC Logic
 - ▷ Recipe Monitoring
 - ▷ I/O Force Monitoring
 - ▷ Asset Fault Tracking
 - ▷ Asset Production Status
 - ▷ Time Synchronization
 - ▷ Battery Status
 - ▷ PLC Edits
 - ▷ FOL Stack Count
 - ▷ FOL Reject Count
 - ▷ FOL Empty Pallet Cart Announce
 - ▷ EOL Full Rack Announce
 - ▷ Lube Cycle Timing
 - ▷ Operator Interface Tracking (LS, HMI, PB)
 - ▷ Recovery Bottlenecks
- B** PLC I/O (New and Existing Wired I/O)
 - ▷ Vibration Sensing
 - ▷ Temperature Sensing
 - ▷ Pressure
 - ▷ Counter-Balance PSI
 - ▷ Cushion PSI
 - ▷ Strain Measuring
 - ▷ Tonnage Thru Stroke
 - ▷ Tonnage Peak
 - ▷ Current Monitoring
 - ▷ Magnetic Belt Control
 - ▷ Fluid Levels
 - ▷ Vacuum Management
 - ▷ Evacuation Time Consistency
- C** BirdsEye Process Analysis System
 - ▷ LEAN Manufacturing Feedback
 - ▷ Secure Architecture
 - ▷ Uses existing infrastructure
 - ▷ Unlimited User Count
 - ▷ Graphical User Interface
 - ▷ Web/PC/Android/API
 - ▷ TEXT/EMAIL Alerting (Automatic Issue Escalation)
 - ▷ Connects to any PLC
 - ▷ Requires minimal logic
 - ▷ Requires minimal memory
 - ▷ Utilizes minimal network Bandwidth
 - ▷ Connects thru any Network
 - ▷ Has Detailed Infrastructure Diagnostics
 - ▷ Recipe Based SPC
 - ▷ Highly Scalable
 - ▷ Real-time and Historical
 - ▷ Facilitates Centralized Monitoring (Centers of Expertise)
- D** IIoT (Battery Powered, Wireless I/O)
 - ▷ Vibration (Motors, Pumps, Gear Boxes)
 - ▷ Temperature (Motors, Pumps, Drives)
 - ▷ Pressure
 - ▷ Strain
- E** Energy
 - ▷ VFD Energy/Cycle
 - ▷ Servo RMS
 - ▷ Servo Peak Position Error
- F** Repeatability
 - ▷ Clutch/Brake (Clutch Wear, Brake Wear)
 - ▷ Cycle Time (Belt Tension)
 - ▷ Energy/Cycle
- G** Robot
 - ▷ Wrist Strain
 - ▷ Energy/Cycle
 - ▷ Vacuum

NOTES:

1 DART, HART, SURECROSS, ZIGBEE, ET AL. WIRELESS DEVICES MAY INTERFERE WITH OTHER WIFI DEVICE COMMUNICATIONS.

2 BATTERY OR 24VDC POWERED.

3 SOME DEVICES HAVE MULTI-SENSOR TYPES.

Line Example2 [02/22/19 13:58]

	CONFIDENTIAL	DESIGNED BOYER	DATE 01/28/19	DETAILED BOYER	DATE 01/28/19	CHECKED *	DATE *	APPROVED *	DATE *	TITLE	SECTION	SHEET NUMBER
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