# **PROSet.**<sup>™</sup> Plus Langston Saturn III FFG

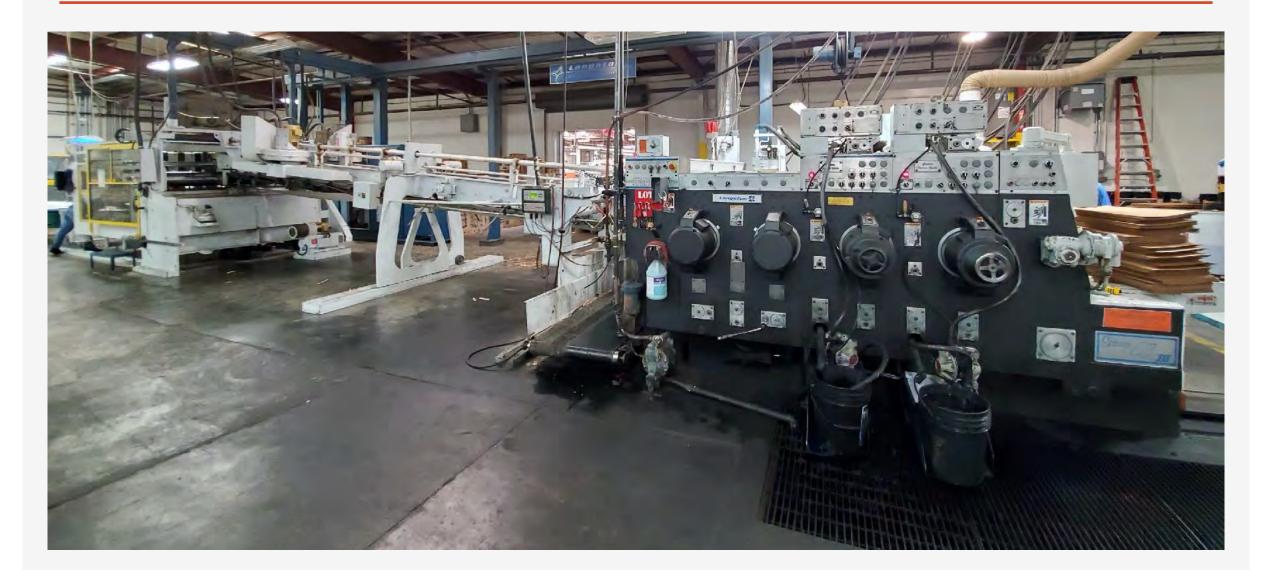
# Automatic Set-up & Machine Control Upgrade

CHICAGOELECTRIC

Job # B181009

May 2019

## **PROSet.**<sup>™</sup> **Plus** - Langston Saturn III FFG Upgrade



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#### Scope

#### Automatic Setup

- Upgraded from obsolete LMC Controller to an Allen-Bradley CompactLogix PLC
- Upgraded 21 Axes from incremental Encoders to Absolute Position Encoders with 12 bit resolution (4096 ppr)
- Upgraded from 21 individual cables to a "Single Cable" Network Topology

### Machine Control

- Single processor solution combining Auto Setup with machine control
- Upgraded from an obsolete PLC 5 to a CompactLogix PLC with Remote I/O
- 640 available I/O points with 4+ analog I/O

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#### **Operator Interface**

- Eliminated obsolete
  "Dual Screen" Console
- New Single 15"
   Touchscreen Console for Auto Setup and Machine Control in one
- Standard Industrial HMI– Not a PC





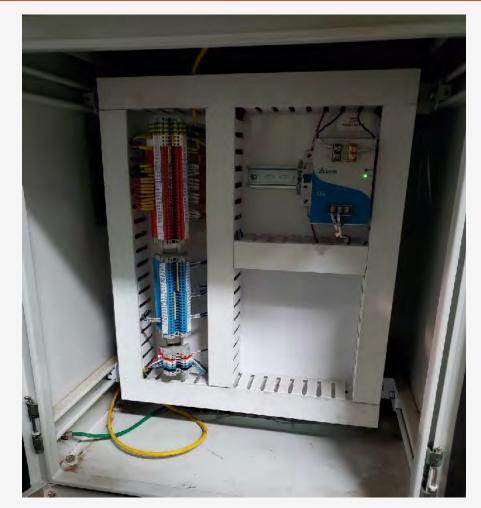
Before

After

## **Operator Console**



Old – with PC and Screen



Now – PC Free!

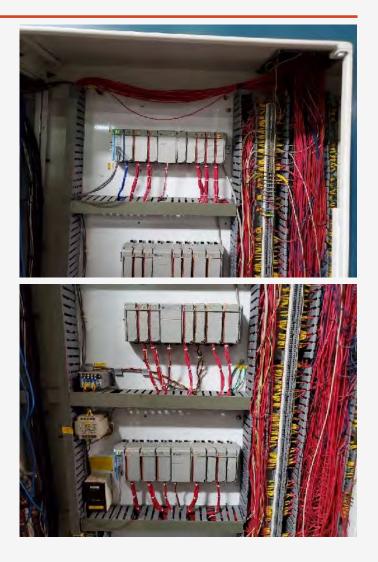
# **Machine Control PLC**



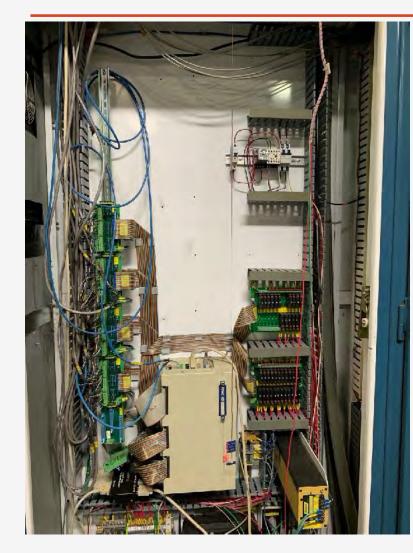
Obsolete PLC 5 racks for machine control replaced with CompactLogix Remote I/O Modules.

Before

After



## Auto Setup Controls Upgrade



Removed the obsolete Langston LMC and replaced it with CompactLogix PLC and High-Density relay outputs.

Before

After



## **New Absolute Position Encoders**

All position encoders are connected via a "Single Cable" network topology.



