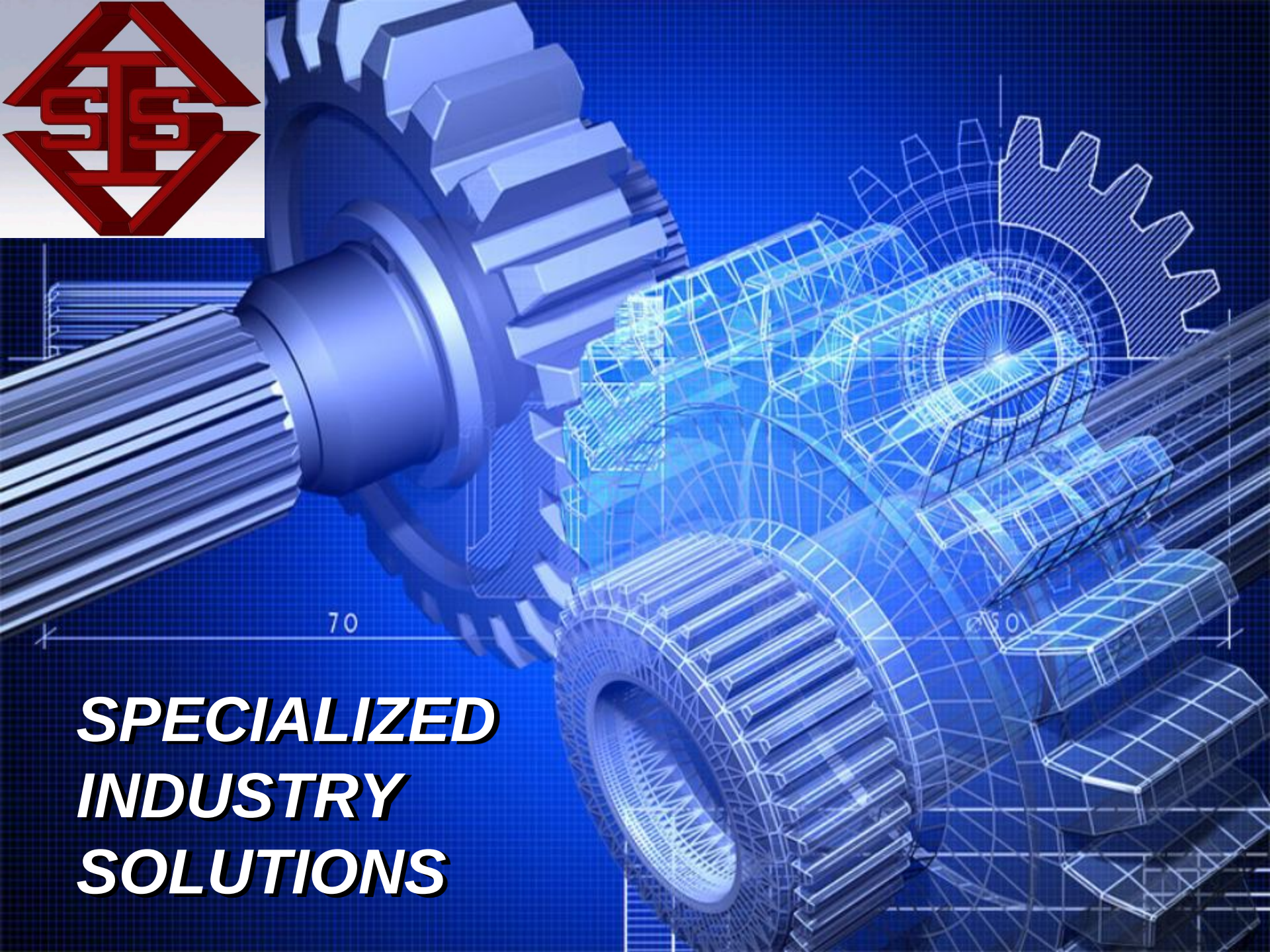


SPECIALIZED INDUSTRY SOLUTIONS

Company History and Overview

- SIS started in 2006 based on a localized need for specialized and innovative machines in the Upper Cumberland area. With our success, SIS has equipment in production throughout the Southeast and Mexico.
- Project Size Ranges: $5K to $800K
- Average Project Size: $50K to $75K
- Typical Project Delivery: ranges from 8-10 to 24-26 weeks
- Types of products assembled/tested by SIS machines include:

Automotive:	Consumer Products:
Fuel rails, injectors, and pumps	**Illumination components**
Engine covers, pistons, and blocks	**Water heater components**
Starters, alternators, ECU modules	**Pill bottles**
Filtration devices	**Paper products**
Windshields	
Ball studs and control arms	

Company Profile

- Sales
  2008 $2.1M, 2009 $900K,
  2010 $1.7M, 2011 $3.1M YTD
- 9500 sq ft (2,000 office space)
- (12) Full-Time Team Members
- (3) Milling Machines
- (1) Lathe
- (2) MIG/TIG Welding & Plasma Cutting Station
- (4) Fabrication and Cutting Machines
- (1) Custom Electrical Cabinet Build Area
- (2) Assembly Bays (allows for information containment)
- (2) Loading and Unloading Truck Docks

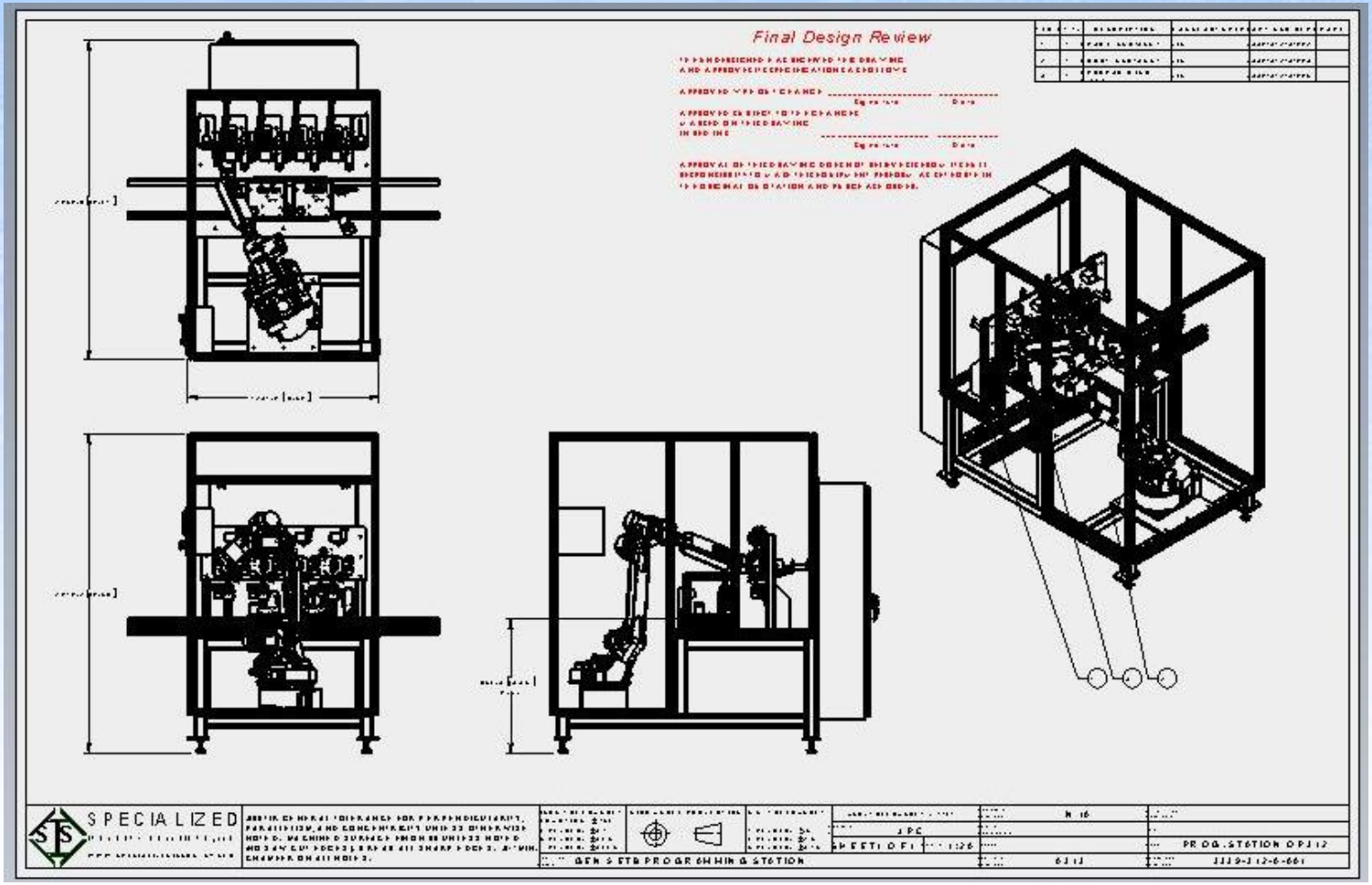
Design and Build

- Fully automated assembly/test lines
- Indexing dial machines
- Palletized conveyor systems
- Robotic assembly cells
- Multiple operational assembly/test stations
- Simple operation assembly/test stations
- Simple material handling conveyors
- Fixtures/tooling

Engineering Design Tools

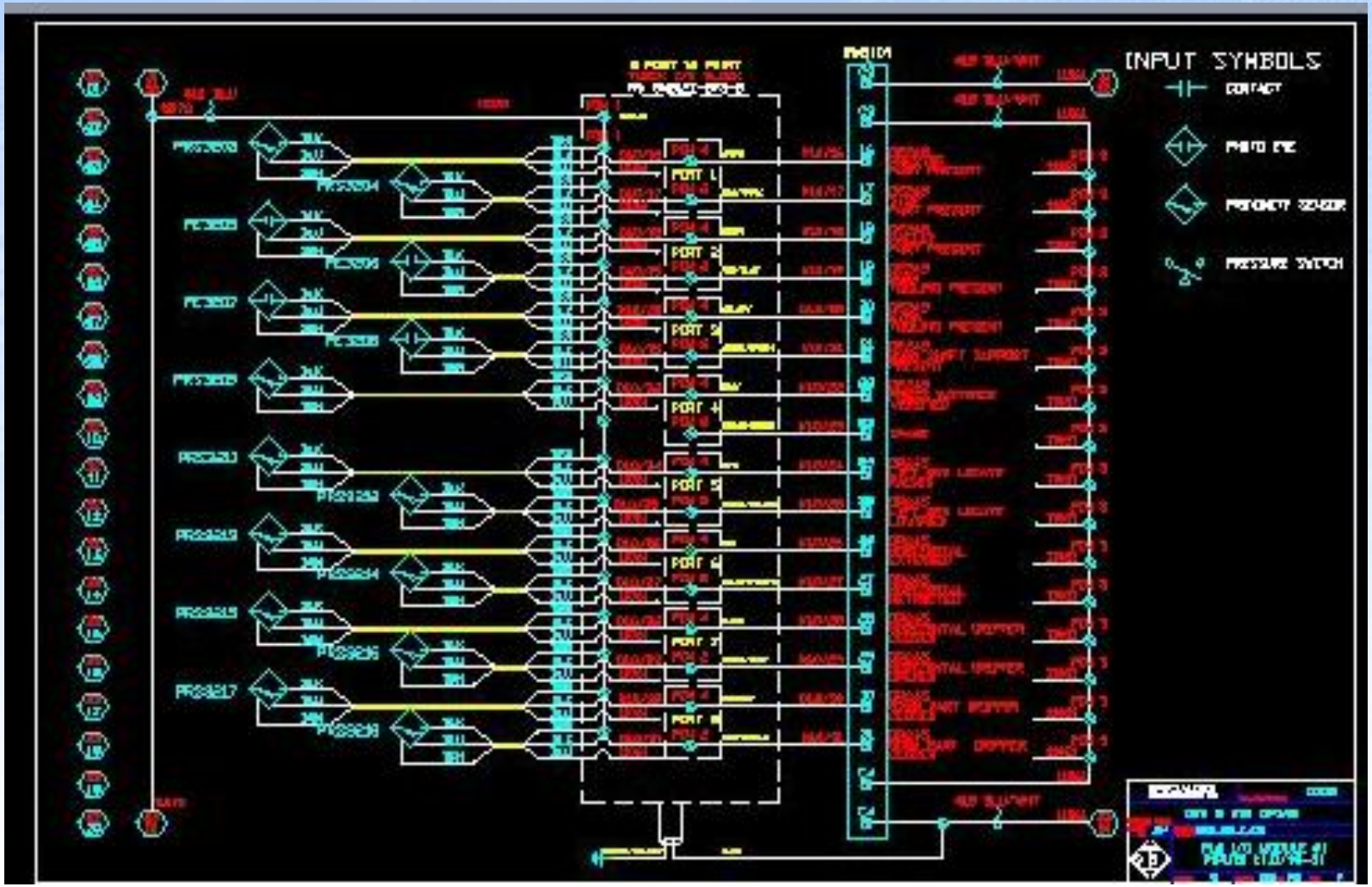
- Solid Works 2010 - Mechanical Design
- AutoCad 2004 – Electrical Design
- Microsoft Office Suite – Excel, PowerPoint, Publisher, Outlook, Word
- Microsoft Project Manager
- RSLogix 5, 500, 5000 – Allen-Bradley PLC’s
- CX1 Integrator – Omron PLC’s and Panels
- Various HMI Programming Software
- Various Robot/Vision Programming Software

SolidWorks – Mechanical Design



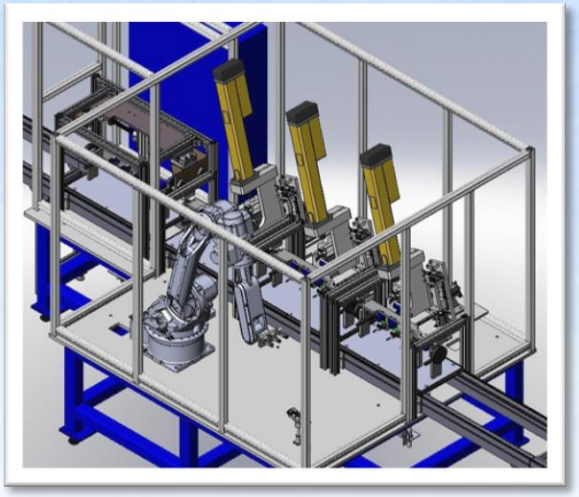
Back

AutoCad – Electrical Design



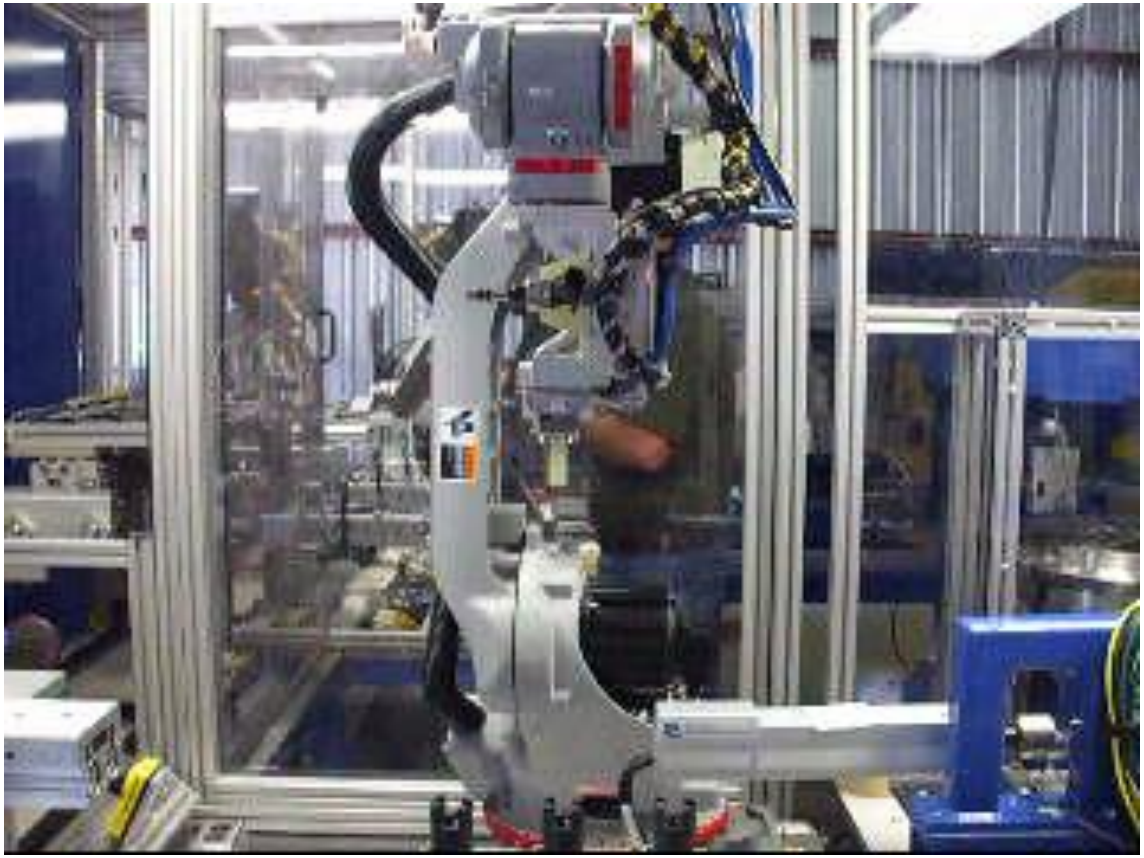
3D Mechanical Design

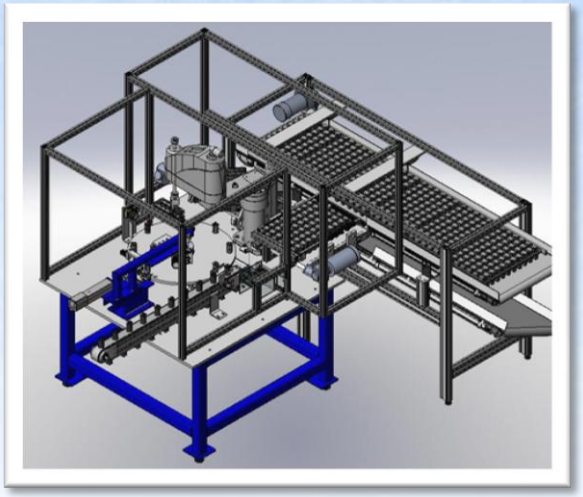
Robotic Part Handling and Servo Pressing



3D Mechanical Design

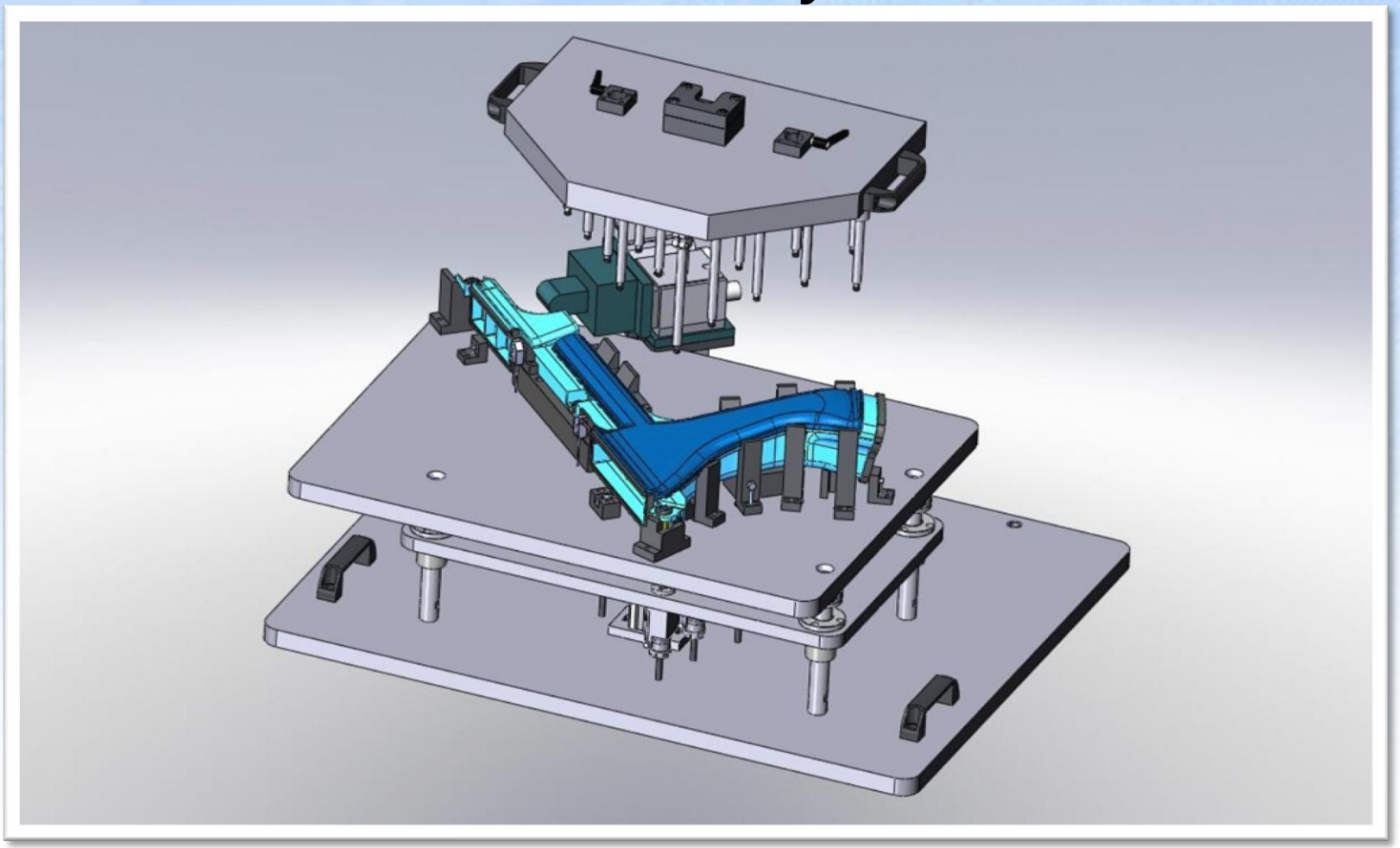
Robotic Assembly Station





3D Mechanical Design

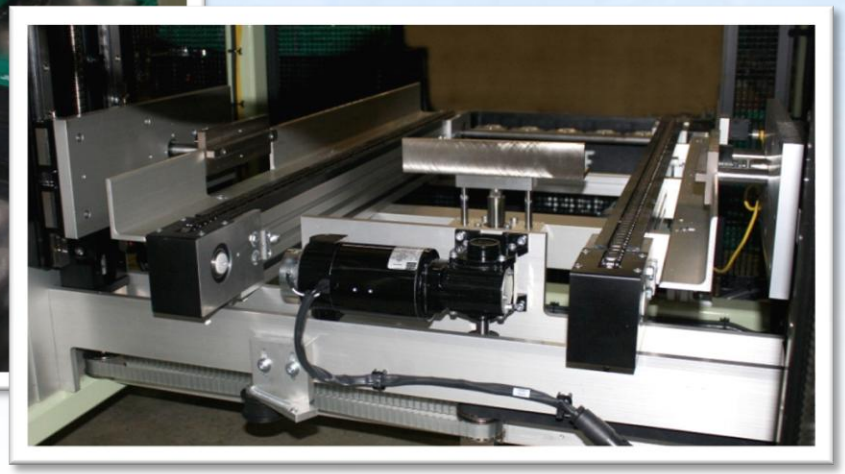
Plastic Part Assembly Fixture



3D Mechanical Design

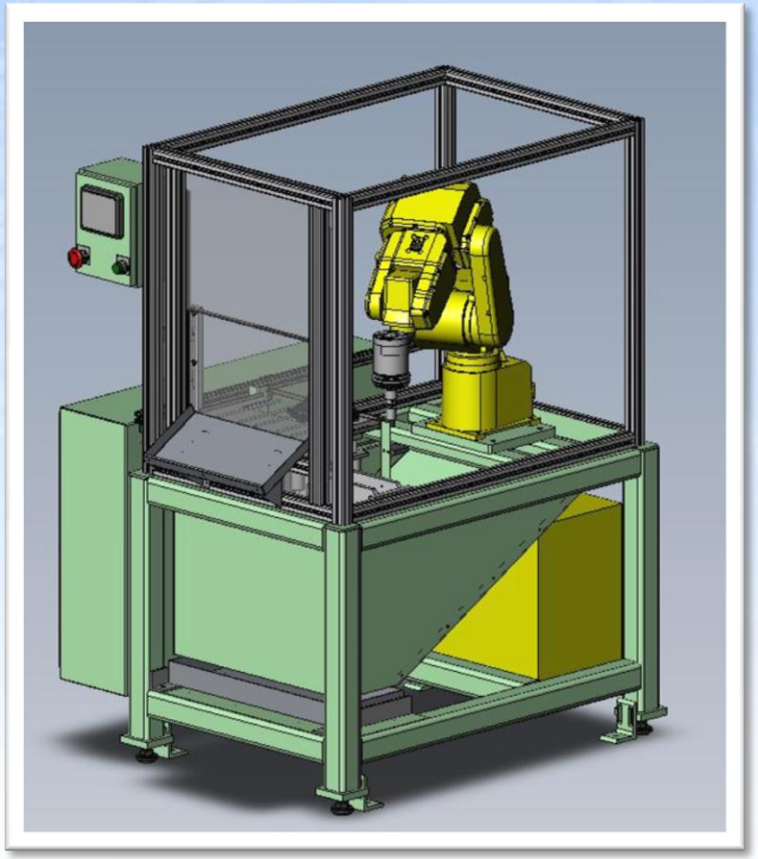
Servo Driven Tote Palletizer & Piston Unload

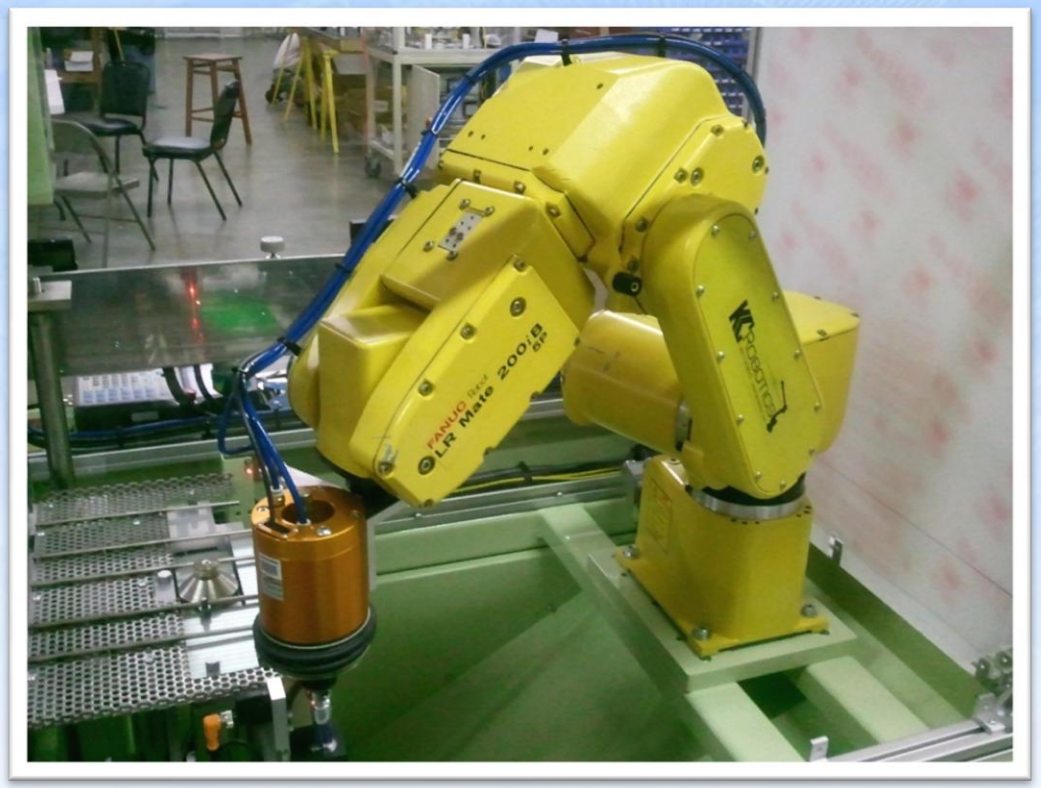
Tote loaded with pistons is unloaded utilizing servo driven components and a vision system.



3D Mechanical Design

Robotic De-Flashing





Casting is loaded into fixture then the robot moves the brush over the casting to remove excess flashing.

3D Mechanical Design

Lubricant Application

Lubricant is applied to internal threads

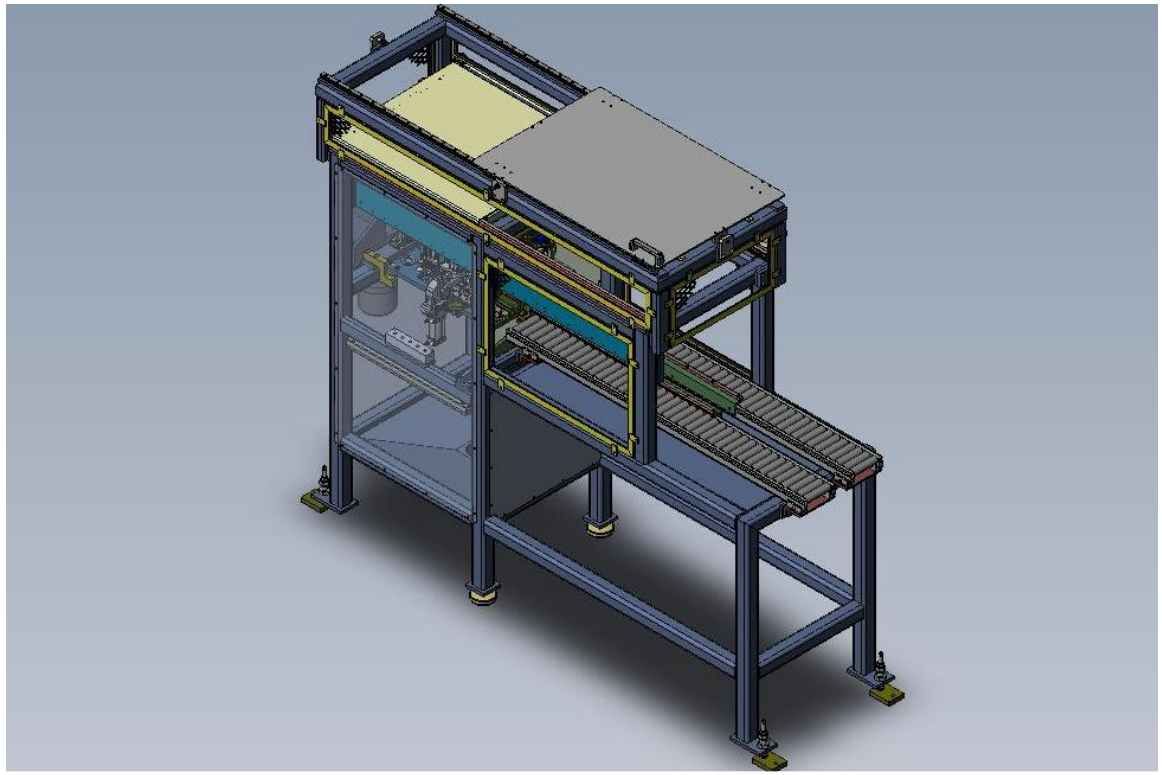
3D Mechanical Design

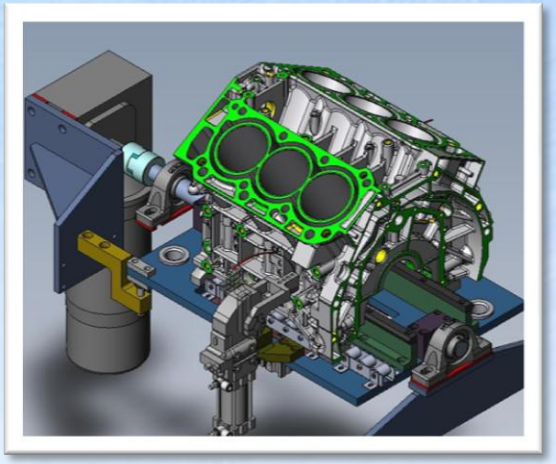
Leak Tester

Casting is loaded into fixture and clamped into position. The casting is then pressure tested.

3D Mechanical Design

Engine Block Wash Station





After machining the engine block is loaded into position. The block is rotated as coolant is blown away.

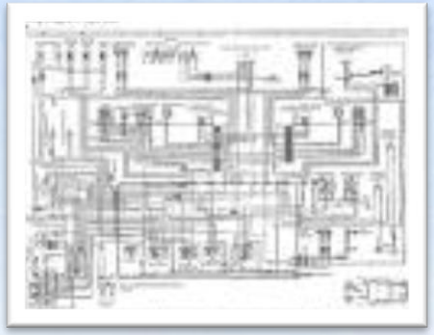
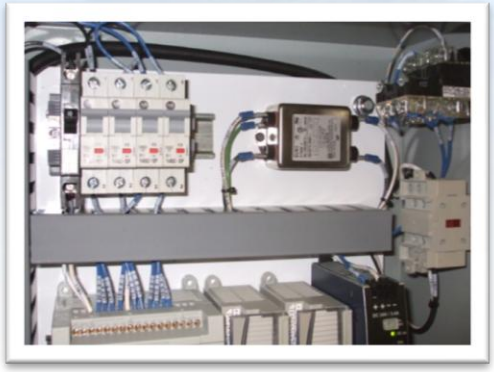
Electrical Design

- Power distribution layouts
- I/O schematics
- Panel layouts
- Safety circuits
- PLC programming
- Interface panel programming

Electrical Design

- Electrical Distribution Panel Build/Layout and Design
- Motor Control Panel Build/Layout and Design
- Electrical Cabinet Panel Build/Layout and Design




Name Brand Components

- Omron – PLC/HMI/Sensors/Safety
- Allen-Bradley –PLC/HMI/Servo/Safety Components
- Proface – HMI Screens
- Keyence –Vision/Sensors/Barcode Readers/Safety Products
- Pilz and Allen-Bradley – Safety PLCs
- Promess and FEC-Servo Press Technology
- CTS and ATEK- Leak Testers
- Cognex – Vision/Bar Code Readers
- Motoman- Robots and Positioners
- IAI-Actuators and SCARA Robots
- Camco-Positioners
- Bosch-Palletized Systems, Screw Drivers, Servo Motors
- Hytrol-Conveyors
- Rivet Forming-Bal-Tec, Orbit Form, and VSI_
- Altas Copco, GSE, and CP Screw Driving
- Yaskawa and Allen-Bradley -Servo Components
- Banner-Safety Products
- Domino-Ink Jet/Label Printers/Laser Printers
- Telesis-Contact Markers
- Kistler-Sensors
- Schmidt and BTM-Pneumatic Presses

MITSUBISHI ELECTRIC

COGNEX

Pro-face AGP3000 SERIES

MOTOMAN a YASKAWA company

Rexroth Bosch Group

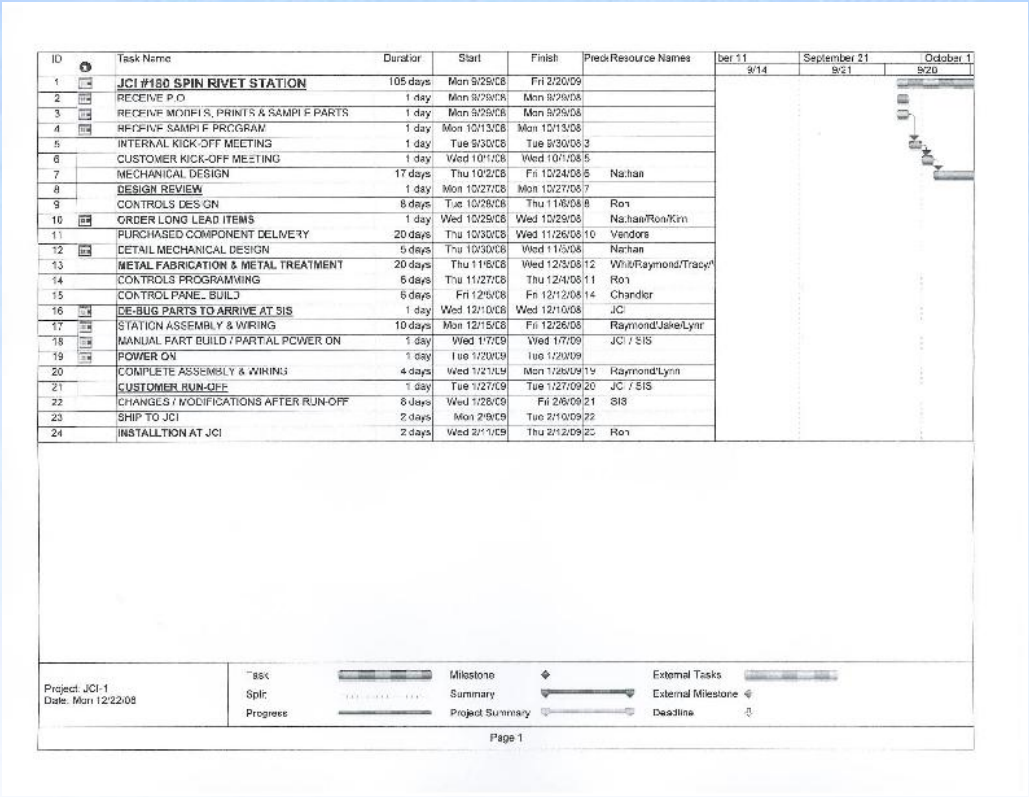
Allen-Bradley

Project Documentation

- Proposal and concept drawing
- Project schedule
- 3D mechanical assembly and part models
- Dimensional mechanical drawings
- Electrical drawings
- PLC and HMI programs
- Operational sequence
- Bills of materials
- Spare parts lists
- Purchased component literature
- Preventative maintenance schedule

Project Milestones

- Project kick-off meeting
- Preliminary mechanical design review
- Final mechanical and electrical design review
- Equipment demonstration prior to shipment
- Installation
- Equipment demonstration after install



ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	JCI #180 SPIN RIVET STATION	105 days	Mon 9/29/08	Fri 2/20/09		
2	RECEIVE P.O.	1 day	Mon 9/29/08	Mon 9/29/08		
3	RECEIVE MODELS, PRINTS & SAMPLE PARTS	1 day	Mon 9/29/08	Mon 9/29/08		
4	RECEIVE SAMPLE PROGRAM	1 day	Mon 10/13/08	Mon 10/13/08		
5	INTERNAL KICK-OFF MEETING	1 day	Tue 9/30/08	Tue 9/30/08	3	
6	CUSTOMER KICK-OFF MEETING	1 day	Wed 10/1/08	Wed 10/1/08	5	
7	MECHANICAL DESIGN	17 days	Thu 10/2/08	Fri 10/24/08	6	Nathan
8	DESIGN REVIEW	1 day	Mon 10/27/08	Mon 10/27/08	7	
9	CONTROLS DESIGN	8 days	Tue 10/28/08	Thu 11/6/08	8	Ron
10	ORDER LONG LEAD ITEMS	1 day	Wed 10/29/08	Wed 10/29/08		Nathan/Ron/Kim
11	PURCHASED COMPONENT DELIVERY	20 days	Thu 10/30/08	Wed 11/26/08	10	Vendors
12	DETAIL MECHANICAL DESIGN	5 days	Thu 10/30/08	Wed 11/5/08		Nathan
13	METAL FABRICATION & METAL TREATMENT	20 days	Thu 11/6/08	Wed 12/3/08	12	Whit/Raymond/Tracy
14	CONTROLS PROGRAMMING	5 days	Thu 11/27/08	Thu 12/4/08	11	Ron
15	CONTROL PANEL BUILD	6 days	Fri 12/5/08	Fri 12/12/08	14	Chandler
16	DE-BUG PARTS TO ARRIVE AT SIS	1 day	Wed 12/10/08	Wed 12/10/08		JCI
17	STATION ASSEMBLY & WIRING	10 days	Mon 12/15/08	Fri 12/26/08		Raymond/Jake/Lynn
18	MANUAL PART BUILD / PARTIAL POWER ON	1 day	Wed 1/7/09	Wed 1/7/09		JCI / SIS
19	POWER ON	1 day	Tue 1/20/09	Tue 1/20/09		
20	COMPLETE ASSEMBLY & WIRING	4 days	Wed 1/21/09	Mon 1/26/09	19	Raymond/Lynn
21	CUSTOMER RUN-OFF	1 day	Tue 1/27/09	Tue 1/27/09	20	JCI / SIS
22	CHANGES / MODIFICATIONS AFTER RUN-OFF	8 days	Wed 1/28/09	Fri 2/6/09	21	SIS
23	SHIP TO JCI	2 days	Mon 2/9/09	Tue 2/10/09	22	
24	INSTALLTION AT JCI	2 days	Wed 2/11/09	Thu 2/12/09	23	Ron

Contact Information