



LINK ELECTRIC & SAFETY CONTROL CO.

444 McNally Drive · Nashville, TN 37211
Phone (615) 833-4168 · Fax (615) 833-8029

PART REVOLUTION POWER PRESS CONTROL SURVEY SHEET

COMPANY NAME: _____ DATE: M/ D/ Y
 STREET ADDRESS: _____ SURVEYED BY: _____
 CITY: STATE: _____ POSTAL CODE: _____
 QUOTE SENT TO _____ PHONE NO: _____
 TECHNICAL CONTACT (IF DIFFERENT): _____ FAX NO: _____

What Type of New Control Is Recommended? Omnilink 5000 SS-501 SS-501-PB
 Incoming Line Voltage: 208 230 460 575 Other:

Machine Classification Information

Power Presses

Property #: _____ Manufacturer: _____ Model: _____
 Press Serial Number: _____ Year of Manufacture (Estimate): _____
 Frame Type: OBI OBS GAP Straight side with tie rods Straight side with welded uprights
 Other (describe): _____
 Rated Tonnage: _____ Tons Press Stroke Length is: _____ Inches
 Press Shut Height: _____ Inches Press Drive System Overdrive Underdrive

Press Brakes

- Friction Clutch with Mechanical Linkage
- Air-Over-Air System
- Straight Air Cylinder
- Shoe Brake Band Brake
- Air Clutch Hydraulic
- Bending Punching Only

Motor Information

1. Main Flywheel Drive Motor Is: 3 Phase AC Other: _____
 Motor is Rated at: _____ Hp Full Load Amps: _____ Motor RPM Is: _____
 Starter is: Reversing: Non reversing:
 Is New Main Motor Starter Needed? Yes No
 If No, Explain: _____
 Is Solid State "Soft" Start Required? Yes No
 Zero Speed Provisions: Yes No
 Existing Zero Speed Switch: Mechanical Electronic (*Print Req'd.)
 New Electronic Zero Speed Detector?



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Stroking Speed Is: Fixed: Variable:

- A. If Fixed, the Speed Is: _____ Strokes per Minute:
- B. If Variable, the speed Varies from _____ to _____ Strokes per Minute

The Method of Varying the Speed Is:

- I. Mechanical Variable Speed System (Reeves Type Drive)
 Manually Adjustable (e.g. W/ Hand Crank)
 Electrically Adjustable W/ 1 PH Mtr _____ 3 PH Mtr

- II. Existing Eddy Current Drive
 Make _____ Model _____
 Controller to Mount in New Control Enclosure? Yes No
 Dimensions: _____ H X _____ W X _____ D
 Controller Has Integral Power Supply Transformer
 Link to Provide transformer for E.C. Control
 Leave Space for:
 Speed Pot Yes No
 Strokes per Minute Meter Yes No
 Amp Meter Yes No
 Current Transformer Yes No if Yes Size _____ H X _____ W _____ D

- III. D.C. Variable Speed Drive (*Print Required for Quoting)
- IV. A.C. Variable Frequency Drive (*Print Required for Quoting)

2. Shut Height Adjustment Is Done How?

- Manually
- Pneumatically (Air Adjust)
 Slide Adjust Pushbuttons Required? Yes No
- Electrically
 3 Phase AC Motor Other: _____
 Is New Starter Required? Yes No
 If Yes, HP _____ Full Load Amp _____ RPM
 If No, Explain _____

3. Motors Other than Lube or Grease Pump Motors (Which Are Covered in Lube Section)

- A. Function _____ Reversing _____ Non-reversing
 HP _____ Full Load Amps _____ RPM
 New Starter required? Yes No If No, Explain: _____
 Start and Stop Pushbuttons Required? Yes No If No, Explain _____



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- B. Function Reversing Non-reversing
 HP Full Load Amps RPM
 New Starter required? Yes No If No, Explain
 Start and Stop Pushbuttons Required? Yes No If No, Explain

Lube System Information

4. Does the Press have an Automatic Recirculating Oil Lubrication (lube) System?
 Yes No

If Yes:

A. Lube Pump Type

- 120 VAC Single Phase (Amperage)
 3 Phase AC HP Amps RPM
 Lube Solenoid

- B. Is There a Lube Controller or Lube timer? Yes No

If Yes, Manufacturer Model

Is Controller to Mount Inside of New Enclosure? Yes No

If Yes, Size Is: H X W X D Inches

Is Electrical Hook-up Drawing Available? Yes No

- C. What Sensors are Used to Monitor for Lube Faults? (Multiple Sensors Are Commonplace):

- Low Lube Pressure High Lube Pressure
 Low Lube Level Sensor Closed by Lube Flow
 Sensor That Pulses (Opens and Closes) by Lube Flow

5. Does the Press Have a Pulsed Grease Lubrication System? Yes No

If Yes:

A. Grease Pump Type

- 120VAC Single Phase (Amperage)
 3 Phase AC HP Amps RPM
 Greased Lube Solenoid

- B. Is There a Grease Lube Controller or Timer? Yes No

If Yes, Manufacturer Model

Is Controller to Mount Inside of New Enclosure? Yes No

If Yes, Size Is: H X W X D Inches

Is Electrical Hook-up Drawing Available? Yes No

- C. What Sensors Are Used to Monitor for Grease Lube Faults?

- Sensor Closed by Grease Flow
 Sensor That Pulses (Opens and Closes) by Grease Flow
 Low Grease Level Limit Switch
 Other:



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Requirements for New Control

6. Size of Existing Control Enclosure H X W X D

Any Size Restrictions on New Enclosure?
 (Provide Sketch If Necessary in Space Provided at End of Survey)

Type of New Enclosure required

- Standard Nema 12 with Through-the door Disconnect (Hinged Left)
- Nema 12 with Flange Mount Disconnect
 - Flanged right, Hinged Left (Standard Configuration)
 - Flanged Left, Hinged right (Non-Standard Configuration)
- Console
 - Front Door Only Both Front and Rear Doors
- Sub-panel **Only** H X W
- Card Rack Assembly Only
- Other - Describe And/or Attach Photo or Sketch

7. Mounting: Main Control enclosure to Be Located Where?

- Right End of Press
 - Left End of Press
 - Front of Press
 - Floor-standing Control Enclosure on Legs
- Approximately How High Will Bottom of Main Enclosure Be off of Floor?
 (Info Required for Ergonomic Considerations)

8. Operator switches, Lights, Etc. to be Located Where?

- Right Side of Main Enclosure
 - Left Side of Main Enclosure
 - Door of Main Enclosure
 - Located in Remote Enclosure
- Special Requirements for Remote

NOTE: ALL OMNILINK QUOTES WILL PROVIDE FOR EITHER REMOTE OR CONSOLE MOUNTING OF OIT

- Sloped Front of console
- Shipped Loose (Ft Length GF OIT Cable (For OmniLink Only))

9. Does the Press Have a Flywheel Brake? Yes No

If Yes, Is this Flywheel Brake

- A. Mechanically (Manually) Operated
- B. Pneumatically Operated (with an Electrically Operated Air valve That Keeps The Brake Disengaged When Main Motor Is Running)

Is There an Air Pressure Switch or Other Interlock to Drop Power to Main Motor Starter If

the

Flywheel Brake Should Unintentionally Engage Yes No



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10. Does the Press have an Air Cushion That Requires Automatic Lubrication? Yes (*) No

11. Is the Press Equipped with Die Clamps? Yes (*) No

12. Is the Press Equipped with a Hydraulic Overload System? Yes (*) No

13. What Instrumentation Is Used on the Press and Needs to Be Provided for?

Totalising Parts Counter

Link to Provide New? Yes No

Batch Control Counter

Link to Provide New? Yes No

Other

14. How many Operator Stations?

15. Method of Actuation Requirements

New Palm-buttons Required? Yes No

What Configuration Is Required for Palmbutton Run Stations?

2 Guarded Black Run Buttons, 1 red E-stop Button

2 Guarded Black Run Buttons, 1 red E-stop Button, 1 Yellow Top Stop

How Are Palmbuttons to Be Mounted?

in "FS" Style Mounting Boxes (Option for SS-501 Controls Only)

in Standard Run-bar(s) with Following Options:

Direct Machine Mount

Mount on T-stand (Pedestal & Base)

Prewired with Feet of so Cable

With Phoenix Heavycon Connectors

(Receptacles and Dummy Plugs Mounted in Separate Enclosures Unless Otherwise Specified)

Other (Describe)

Number of additional red E-stop Palmbuttons required?

Number of Additional Yellow Top Stop Palmbuttons Required?

Prior Action Buttons Located Where? (Choose One) Sta 1 Run-bar MOS

For Omnilink 5000 Quotes: Inch Buttons Located At: Sta 1 Run-bar MOS

Is Footswitch Actuation required in Single Stroke Mode? Yes No



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16. Special Operation Modes required:

- Automatic Single Stroke (Omni-Link Only, Not Available in Model 501)
- Maintained Continuous; Type Fast Stop Maintained Continuous; Type Top Stop
- Times Inch Continuous on Demand (Omni-Link, Not Available in Model 501)
- Other (describe)

17. New Link-lite(s) Required? Yes No If No, Why?

How Many Required?

Please List Location, Scan, Etc., for each Link Lite. (Use Last Sheet If Req'd.)

Link Lite #1 Location Model Scan Distance (feet) # of Mirrors Req'd Remote Segment req'd (305 only)	Link Lite #1 Location Model Scan Distance (feet) # of Mirrors Req'd Remote Segment req'd (305 only)
Link Lite #3 Location Model Scan Distance (feet) # of Mirrors Req'd Remote Segment req'd (305 only)	Link Lite #4 Location Model Scan Distance (feet) # of Mirrors Req'd Remote Segment req'd (305 only)

Is Muting of Link-lites Required in Upstroke? Yes No
 If Omnilink, Mute in What Modes? All Inch Single Auto None

Link-lite Mounting Brackets required? Yes No How Many?
 Straight Floor-standing
 Type: Machine Mount Swing Arm Customer to Furnish
 90°

Are Barrier Guards Used on the Press? Yes No

18. Rotary Cam Limit Switch Required? (501's) Yes No If No, Why?

If Yes, How Many Switch Positions? (Check One) 4 6 8 Other
 If System 2500 is required, is resolver to mount in rotary cam switch? Yes No
 Is Access to End of Main crankshaft available for 1-to-1 Coupling of Cam Switch or Resolver/Encoder? Yes No
 Resolver cable length (Check One) 35' 50' 75' 100'

18a. For Omnilink Quotes, How Many PLS Channels Required? (Check One) 8 16



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19. Is a System 2500 PLS Required? Yes No , How many PLS Channels 8 16
If Yes, Mount OIT Where?

If Yes, Mount Logic Unit Where?

Resolver cable length (Check One) 35' 50' 75' 100'

Is Top Stop Advance feature required? Yes No

20. Tonnage Monitoring (System 1100 for SS-501 Quotes, TSM Module for Omnilink 5000 Quotes)

Is Tonnage Monitoring Required? Yes No

How Many Channels? Two Four

Strain Gage Cable Length (list qty of each length 35' 50' 75' 100')

21. For Omnilink Quotes: Is Die Protection Module Required? Yes No

Are Remote Connection Box(es) required inputs 1-8 inputs 9-16

22. Link to Provide New Die Block Plugs and Receptacles? Yes No

How Many? To Mount Where?

23. Are There Other systems on the Press That must Be Incorporated into the Press Control or Interlocked with the Press Control? Yes (*) No

If Yes, Describe

Clutch/brake System

24. The Clutch/brake system Is Actuated

Pneumatically (Air Valve(s))

Hydraulically (Hydraulic Valve(s))

Electromagnetically

25. Is the Brake Mechanism Inherently Self-engaging? (Engaged by springs and requiring Externally Derived Force or Pressure to Disengage) Yes No

26. Is the Clutch Mechanism Inherently Self-disengaging? (Engaged by Externally Derived Force or Pressure and Disengaging When Such Force or Pressure Is Removed) Yes No

27. Type: *Separate* clutch and Brake Mechanism (Go to #29 & #30)
 Combination Clutch/brake Mechanism (Go to #28)



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28. If the Clutch/brake Mechanism Is an Air Operated *Combination* Unit:

Is a New Ross Valve with E-P Monitor Required? Yes No

If Yes, What Size? 1/2" 3/4" 1" 1-1/4" Other

If No, Is Existing Valve Dual Solenoid? Yes No

If Dual, Does the Valve Incorporate a Valve Monitor? Yes No

If Yes, Describe Valve Monitor

(Go to Next Section)

29. If the clutch and brake Mechanisms Are *Separate* Air Operated Units And:

A. **One Valve Operates Both clutch and Brake**

Is a New Ross Valve with E-P Monitor Required? Yes No

If Yes, What Size? 1/2" 3/4" 1" 1-1/4" Other

If No, Is existing Valve Dual Solenoid? Yes No

If Dual, Does the Valve Incorporate a Valve Monitor? Yes No

If Yes, Describe Valve Monitor

Does Press Have an Auxiliary Clutch Valve? (E.g. Some Versions) Yes No

B. **Separate Valves for Clutch and brake**

Is a New Ross Valve with E-P Monitor Required? Yes No

If Yes, What Size? 1/2" 3/4" 1" 1-1/4" Other

If No, Is existing Valve Dual Solenoid? Yes No

If Dual, Does the Valve Incorporate a Valve Monitor? Yes No

If Yes, Describe Valve Monitor

For Brake Valve:

Is a New Ross Valve with E-P Monitor Required? Yes No

If Yes, What Size? 1/2" 3/4" 1" 1-1/4" Other

If No, Is existing Valve Dual Solenoid? Yes No

If Dual, Does the Valve Incorporate a Valve Monitor? Yes No

If Yes, Describe Valve Monitor

30. If the clutch and Brake Mechanisms Are Separate Air Operated Units, Is Any External Timing Used to Prevent Clutch and Brake Overlap? Yes(*) No

If Yes, Describe Timing Method Used

Basic Pneumatic Information

31. Does the Press Have a Functional Air Operated Counterbalance? Yes No

32. Does the Press Have Functional Air Operated Die Cushions? Yes No

If Yes, Are There Cushion Locks? Yes No



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33. New Air Pressure Switches Are Required For:
 Counterbalance Clutch/brake (How Many Clutch/Brake Switches?)
 Flywheel Brake Die Cushions Additional (How Many)
34. Is New Filter/regulator/Lubricator Required for Air supply? Yes No
35. Is New Filter/regulator/Lubricator Required for Counterbalance? Yes No
36. Is New L-O-X Valve Required for Lock-out & Tag-out of Air Line? Yes No
If Yes, Size: 1/2" 3/4" (standard) 1" 1 1/4"

Current Auxiliary Equipment Used with Press

37. Does the Press Have Any of the Following existing auxiliary equipment?
 Tonnage Monitor Die Protection Programmable Limit Switch
38. Is Auto Setup Required Optional
 For Air Counter balance
 For Air Cushion
For Automatic Shut Height Adjustment (Rotary)
39. List and Describe Any Auxiliary Equipment Items Present on the Press but Not Covered in r
Preceding Questions.
40. Are Power Receptacles Required in the New Press Control for Any Auxiliary Equipment?
Yes No
If Yes, Describe: (Voltage, Amps, Location, Fusing. What Equipment Plugs into Receptacles) (This
information is imperative to enable proper sizing and quoting)



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Notes, Sketches and Special Instructions (i.e. Gears, Enclosures, Etc.)

A large, empty rectangular box with a thin black border, intended for providing notes, sketches, or special instructions.

Items in Survey Marked by Asterisk (*) Are Among Those That May Require a Copy of the Existing Press Control Electrical Prints in Order to Provide a Detailed Quote.