OmniLink 5100 AMC Automation & Monitoring Control

Company Name					Current Date		
Address					Surveyed By		
City		State		Zip Code	Phone Number		
Contact					FAX Number		
email]				
2. Press Informa	tion						
Property #		Manuf	acturer				
Press Model			Pre	ess Serial Number			
Frame Type			Year of	Manufacture			
Rated Tonnage			Press S	troke Length (inches)			
Shut Height							
This area is provided for specific details that will be helpful in producing the quote							
3. Operator Terminal and Resolver Components							
Operator Termir	Operator Terminal						
Resolver components				103626 Spring	Base 🔲 Lot of Cł	nain & Sprock	ets

OR

5000 Resolver Cable

1. Automation Control Configuration

2500 Resolver Cable

O Mechanical O Servo If Servo is selected PN 121680 will be quoted

5. High Speed Serial Bus Cable for connection of optional hardware modules.(NOTE! Use **only** the high speed serial bus cable supplied by Link. This cable has been chosen for its particular characteristics. Do not splice cable in (or out) of junction boxes between system components, use only unbroken runs. You may experience nuisance stops if you fail to heed this advice. High speed serial bus cable is used to connect all optional modules except for the Optional Base System Hardware Options listed above. Minimum order is 30 ft if you order a single optional hardware module. Make certain that you order enough cable to run from the Operator Terminal to the first optional module and to each successive module installed.

108642 High Speed Serial Bus Cable Specify the length required



4. Optional Speed Control and Display (only for Mechanical Configuration) If speed control is requested the following section must be complete. The required components will be quoted based on this information.

Option Requested

Analog I/O Speed/Load Board Required Part Number 120650

Instrument Transformer Required Part Number 107340

Choose one of the following Current Transformers based on the HP of the motor

6. Serial Feed Interface.

Link's serial feed interface allows feed parameters to be set by job and recalled by the Operator Terminal for an extensive number of servo feeds commonly used in press applications. Link has developed serial feed interfaces for many models and servo drive versions. Because feed manufacturers often change servo drive brands, the software within a given servo drive system or feed operator terminal, and have options that may affect serial feed interface, accurate information (as requested below) is necessary for Link to determine if serial feed interface is supported for a particular feed and, if so, the proper serial feed interface firmware and interconnect hardware for the feed. Based on the information provided below Link will quote the proper cable or cables and adapters required.

Option Requested				
Feed Manufacturer			Feed Model	
If Manufacturer or Model informations is not available or the feed has been retrofitted it is very important to provide the Drive Type and any other information you may think will be helpful in the quote process		not it be		

Feed Cable Length (determined by the distance between OIT location and the feed control)

7. Modbus / PLC Interface.

Link's PLC Interface Software allows the Automation Control Operator Terminal to interface with a PLC to provide special functions. The 806 OIT can send information and parameters to the PLC for its use in performing logic, and the 806 Operator Terminal can have screens configured to display information from the PLC. Modbus Interface allows information exchanged between the Automation Control and other intelligent systems.

Option Requested

Modbus Interface Part Number 109353

PLC Interface Part Number 108946

8. Die Protection

Model 5122 and 5123 modules provide digital die protection logic and input connections for either 8 or 16 sensors, respectively. Up to 5 modules can be used with the Automation Control for a maximum of 80 sensor inputs. The universal inputs accept sensors with NPN or PNP outputs as well as probes and mechanical contacts. Up to eight sensors may be individually connected through plugs in the faceplate. Alternatively, sensors may be wired directly to terminals inside the module enclosure or connected en mass through a cable to a quick connect receptacle.

Option Requested		Indicate the quantity of Die Protection Channels Requested				
Select Die Protection	n Module					
Additional Die Prot	ection Accessories					
Molded Cables, Junc	tion Boxes, and Cor	nnector Components. Please indicate the quantity of each item requested.				
108776 MC19-22 (6.5') Ca	able 108948 8	Port Junction Box with 19-Pin Connector				
108777 MC19-3 (9.8') Cal	ble 108775 /	AC 19 Male receptacle with Pigtail for field wiring				
108778 MC19-5 (16') Cab	le 108046	Straight connector Plug for field wiring				
108048 Right Angle conr	nector Plug for field wirir	g 108853 DMC19-8 , 19-Pin Receptacle & Terminal Assembly for 8 sensor				
109004 Enclosure for 108	3853	108854 DMC19-16 , 19-Pin Receptacle & Terminal Assembly for 16 sensor inputs				
109005 Enclosure for 108	3854					
9. PLS/Logic Modul	e & Enclosures					

Up to six PLS/Logic Modules can be used with the Automation Control. Each Logic Module provides Logic and power for up to 16 channels of PLS output and provides sockets to plug up to 2 output relay boards, each with 8 outputs, on top of the module. Select either one (8 outputs) or two (16 outputs) relay boards, electromechanical or solid state, for each module from the relay board list. Each PLS/Logic Module also

provides 16 logic inputs that can be used for sensor inputs to verify action of control components sequenced by the programmable limit switches and other logic functions

Option Requested

120242 5100 PLS/Logic Module (each module supports 2 relay boards with 8 outputs each.) If PLS 17-32 are ordered the appropriate number of Logic Boards will be quoted.						
108840 5100-5A Electromechanical PLS 1-8	108841 5100-5A Electromechanical PLS 9-16					
108842 5100-5A Electromechanical PLS 17-24	108843 5100-5A Electromechanical PLS 25-32					
108844 5100-5A Solid State PLS 1-8	108845 5100-5A Solid Statel PLS 9-16					
108846 5100-5A Solid State PLS 17-24	108847 5100-5A Solid State PLS 25-32					
If Solid State relays are required please indicat the number of AC and/or DC relays required. Solid State PLS are recommended for speeds above 200 SPM. AC DC						

10. Tonnage & Analog Signal Monitor Module

One module can be used with the Automation Control. Choose an enclosure from the Multiple Module Enclosures on the last page of this price list, or no enclosure if you wish to mount modules in your own enclosure. If you choose a Link enclosure, Link will mount your modules before shipping.

Option Requested

900521 Omnilink II Tonnage and Analog Signal Monitor Module (Provides 4 strain gage inputs for four channel tonnage monitor or two channel tonnage monitor and two in-die strain sensors.)

10. (cont.) Tonnage & Analog Signal Monitor Module

109495 Optional 5100-8C PLS and Digital Die Protection Board (Provides 4 PLS Drives for external solid state relays and 4 digital die protection inputs.)

109467 Optional 5100-8A Analog Signal Monitor Board (Provides four channels for generic analog sensor input. Sensors may be strain sensors, analog proximity sensors, optic sensors, VDT sensors and the sensor sensor input.

LVDT sensors, pressure sensors, etc., with 4-20ma or various voltage span outputs. Also provides four programmable outputs to drive external solid state relays, two programmable inputs, and power supply connections for these outputs and inputs.)

35'	5	50'	75'	100'	Strain Gage Enclosures and Drill fixture kit will be quoted unless otherwise noted.
-----	---	-----	-----	------	---

11. Auto Setup Module(s)

Up to 4 of these modules can be used with the Automation Control. Each Automatic Setup Module has a standard Base Autoset Module that can accept optional circuit boards to automatically set slide positions and air pressures for counterbalance, cushions, etc..

Each 5100-14 module can control:

One position adjust system, four air systems, and a hydraulic overload.

OR

• Two position adjust systems, two air systems, and a hydraulic overload.

Up to four 5100-14 Auto Setup modules can be installed in a system. This allows up to 2 slides, 2 counterbalances, 2 hydraulic overloads, and 16 cushions to be controlled on a press.

Option Requested

900664 5100-14 Automatic Setups Base Module (required for Auto Sets)

121281 5100-14A Air Adjust Circuit Board

121283 5100-14C Rotary Shut Height Adjust Circuit Board

If 5100-14A is requested you must select an air valve from the drop down list below.

Auto Setup Air Valve Assembly Options

If 5100-14C is requested you must select a wiring kit option from the drop down list below

121559 Multi-Turn Rotary Encoder Shut Height Unit

900670 Rotary Encoder Mounting Bracket with Lot of Chain & Sprockets

Auto Shut Height Wiring Kit Option

12. MULTI-MODULE ENCLOSURES

900522 Enclosure 12" x 10" x 8"

900540 Enclosure 13" x 18" x 8.75"

900522- OmniLink II Multi-Module Enclosure (12"x10"x8")Provides mounting space for: Up to three modules of the 5100-10 Auto-Set or 5100-8 Tonnage Monitor & Analog Signal form factor, or,One PLS/Logic Module and either a 5100-10 Auto-Set Module or a Tonnage Monitor & Analog Signal Module or,A Tonnage Monitor & Analog Signal Module and up to two Solid State Relay Modules for 4 relays each.

900540-OmniLink II Multi-Module Enclosure (13"x18"x8.75") Provides mounting space for: Up to six modules of the 5100-10 Auto-Set or 5100-8 Tonnage Monitor & Analog Signal form factor or, One PLS/Logic Module, a 5100-10 Auto-Set Module, a Tonnage Monitor & Analog Signal Module and two Solid State Relay Modules for 4 relays each or, Two PLS./Logic Modules and up to two modules of the5100-10 Auto-Set or 5100-8 Tonnage Monitor & Analog Signal form factor if no Solid State Relay Modules are used with the 5100-8 or, Up to two PLS/Logic Modules, a 24V Power supply for inputs to the PLS/Logic module, and Din-Rail Connector Terminals for the power supply.

Black Max Light Curtains

	Provide make and model of			
Light Curtains Required?	existing light curtains used			
How Many Light Curtians]			
LL_MAX LITES	LL- MAX Brackets	Mirrors		
LL_MAX REMOTE] LL-MAX REMOTE Brackets	How Many M	Airrors	

Proper brackets will be quoted for mirrors and remote segments



