

Company: \_\_\_\_\_ Contact: \_\_\_\_\_

## CUSTOM MACHINE WORKSHEET

Project: \_\_\_\_\_

<b>MECHANICAL</b>	X-axis	Y-axis	Z-axis	Ø-axis	notes
Manual/Motorized					
Travel					
Load (horz/vert)					
Resolution					
Positional accuracy					
Repeatability					
Mechanical accuracy					
Deflection under load					
Move distance(s)					
Move time(s)					
Maximum speed/accel					
Duty cycle/Life					
Bellows					
Yaw, pitch and roll					
Brakes, dampers...					
Environmental					
Reduction ratio					
Motor torque required					
Motor shaft speed					
Inertia ratio					

Mounting considerations (sketch)

### DRIVES & CONTROLS (describe)

Must do:

Should do:

Optional:

<p>CONSIDER THESE:</p> <ul style="list-style-type: none"> <li>• operator interface</li> <li>• interface type (PC, PLC...)</li> <li>• programming (who, how)</li> <li>• program storage (EEPROM...)</li> <li>• I/O requirements</li> <li>• feedback (inc, abs, analog...)</li> <li>• initial setup procedures</li> <li>• teach mode</li> <li>• jog/joystick mode</li> <li>• scaling (user units)</li> <li>• homing, limits</li> <li>• flexibility</li> <li>• expandability</li> <li>• delivery</li> <li>• input voltage</li> <li>• power loss</li> <li>• UL/CSA/CE/NEMA</li> </ul>	
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## INTEGRATION & MACHINE PARAMETERS

	Qty	Notes
<b>FRAME</b> structural framework stainless paint isolation pads maximum machine dimensions machine guarding		
<b>MECHANICAL FIXTURING</b> fabricated components commercial components additional (customer supplied)		
<b>PNEUMATICS</b> solenoid valves filters, regulators, lubricators fittings, hose		
<b>ELECTRICAL HARDWARE</b> panel/enclosure wiring components 5V/ 24V control circuit I/O modules, relays isolation transformer circuit breakers terminal blocks disconnects switches (E-stop, Run...) counters/timers sensors		
<b>CONTROL COMPONENTS</b> PLC's PC's operator interfaces motion controls, amplifiers, motors		
<b>CONTROL SOFTWARE</b> motion programming menu/interface software data acquisition		
<b>TRAINING</b>		
<b>INSTALLATION</b> personnel qualifications desired operational date		