



**SERVO INSPECTION CHECKLIST**

Date

Customer/Plant:			
Work Cell Identification/Location:			
Servo Type:			
Rail-Type/Size:	Aluminum	Steel	2" 4" 6" 8"
What type of hangers?		How many hangers?	
Bridge? Yes No Single Dual	Notes:		
What type of load? Direct Cantilevered	Notes:		
Application:			Cycle time:

Item to be Checked	Date Checked	Checked by	Discrepancies
<b>General</b>			
Create a back-up of current KSH unit.			
Inspect and review mechanical components for wear or damage			
<b>Load Trolley or Hanging Point</b>			
Visually inspect for wear, damage or missing components and safety cable			
<b>Controls</b>			
Inspect and review control components such as power cable, motor cable connections, termination points and inspect control cables for wear and missing cable clamps.			
<b>Incoming Power Cable</b>			
Visually inspect for wear, damage or missing components			
<b>Power Contactor</b>			
Visually inspect for wear, damage or missing components			
<b>24 VDC Power Supply</b>			
Visually inspect for wear, damage or missing components			

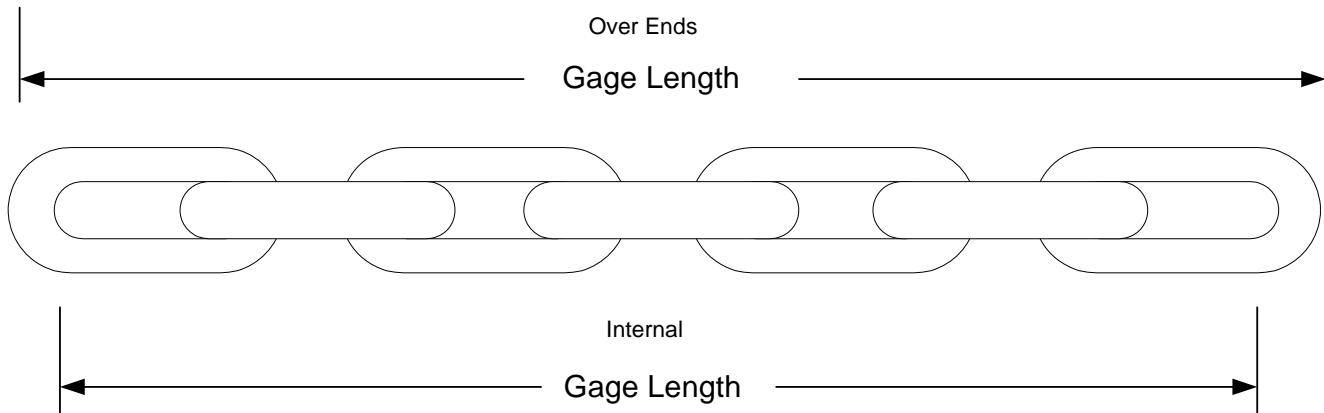


<b>Servo Drive Unit</b>			
Visually inspect for wear, damage or missing components			
<b>Cables, Power, Encoder &amp; Brake</b>			
Visually inspect for wear, damage or missing components			
<b>Shunt</b>			
Visually inspect for wear, damage or missing components			
<b>Control Relays</b>			
Visually inspect for wear, damage or missing components			
<b>Power &amp; Control Terminals &amp; Wiring</b>			
Visually inspect for wear, damage or missing components			
<b>M12 I/O Cables</b>			
Visually inspect for wear, damage or missing components			
<b>Coil &amp; Str 19-Pin Cables</b>			
Visually inspect for wear, damage or missing components			
<b>Operator Control Interface</b>			
Visually inspect for wear, damage or missing components			
<b>In-Line, Fixture Handle or Up/Dn Pendant</b>			
Visually inspect for wear, damage or missing components			
<b>Lift &amp; Float L/C's</b>			
Test components Balance components Adjust components			
<b>Confirm the Operation of the KSH Unit</b>			
Visually inspect for wear, damage or missing components			
<b>Motor-Keyway</b>			
Remove and inspect for damage, re-lube shaft Replace if needed			
<b>Chain</b>			
Clean chain before inspection to permit full length inspection.			
Attach load and operate unit. Observe chain. If load chain jumps, binds or is noisy, inspect chain and mating parts for wear, distortion or other damage			
With load on the hook, check load chain for wear and elongation by measuring a specified length (see figure 1) of chain as follows:			
Select an unworn and unstretched length of chain. The number of links selected must be an odd number of links and should be 12 to 24 inches in length.			
Measure the gage length of the unworn and unstretched length of chain using a caliper type device.			
Measure the gage length of the same number of links in a used section of load chain.			



Conduct a link by link inspection for visible gouges, nicks, weld splatter, corrosion, and distorted links.			
Slacken the load chain and move adjacent links to one side and inspect for inter-link wear at link contact points. If inter-link wear is observed, measure the thickness of the link at the contact point.			

Figure 1



- **Replace the load chain if the used gage length is 1½% longer than the unused gage length.**
- **If wear is greater than 5% of the original wire diameter of the chain, the load chain must be replaced.**
- **Nominal wire diameter for large chain is 5.0mm (.197") and nominal pitch is 15.1mm (.594").**
- **Nominal wire diameter for small chain is 4.0mm (.157") and nominal pitch is 12.0mm (.472).**

<b>Load Hooks</b>			
Bent or distorted components; more than 5% wear in hook throat, wear greater than 5% of the original diameter on bolts or pins, loose or damaged locking gates, any visible twisting of the hook or eye			
<b>Optional Method</b>			
Using "Quick Check" gage, place chain under tension and check <u>each</u> link			