1. **Revision Log**

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| Revision Log | | | | | |
| Revision Level | Revision Date | Section | Description | | Revised By |
| REL | 4/18/17 | ---- | Initial Release | | GR |
| A | 8/7/18 | 6.0 | Updated mainstay document numbers to match what is in SharePoint | | VC |
| B | 9/4/19 |  | Mass updates, complete re-write to standard | | NT |
| C | 12/1/23 | Header | Replaced GHSP logo with newer version | | B. Balok |
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| Approval: | | CN: RS, FS | | MX: JH | |
| US: JA | | Other (as req’d): DRW | |

1. **Purpose:** 
   1. To define the global standard for the use of Indexers within GHSP manufacturing facilities.
2. **Scope:**
   1. This global standard applies to all GHSP manufacturing facilities.
3. **Definitions:** N/A
4. **References:**
   1. CP-WI-MFG-X301-Global Standard Production Equipment Safety, Ergonomic, and Delivery Checklist
   2. CP-WI-MFG-X307-Global Standard Electric Actuator
   3. CP-WI-MFG-X319-Global Standard Electrical Schematics HMI and PLC
5. **Method:**
   1. **Indexer Selection**
      1. Preferred Brands

*Selection outside the preferred brand requires approval by the Advanced Process Engineer and Global Standards Team*

* + - * CDS (Cam Driven Systems)
      * Weiss
      * Festo
    1. All indexers must be servo driven.
    2. All attempts are to be made to design out pinch points around the indexer and dial plate. If a pinch point is still present, the indexer must have a built-in clutch or brake system that auto unlocks after the dial plate stops. This would be controlled by a Safety PLC.
  1. **Servo Motor Selection**
     1. It is recommended to use supplied OEM recommended Servo Motor
     2. For applications where the user needs to select a Servo Motor to be used with the indexer, it is recommended to use the preferred brands described in the CP-WI-MFG-X307-Global Standard Electric Actuator.
  2. **PLC and HMI Programming**
     1. For indexer PLC/HMI programming practices please refer to CP-WI-MFG-X319-Global Standard Electrical Schematics HMI and PLC.
  3. **Handling**
     1. Indexers should be carried out by means of eyebolts to minimize risk of damaging the equipment.
  4. **Lubrication Free**
     1. Whenever possible a Lubrication Free indexer should be used to minimize maintenance to the equipment.
  5. **Installation**
     1. Indexers should be installed in a way that allows proper airflow.
  6. **Drive**
     1. Input shaft and drive gear should be connected so there is absolute absence of torsional backlash and accurate concentricity.
  7. **Repeatability**
     1. Manufacturers offer repeatability data in order to choose the right indexer for the proper application and table size.
     2. After equipment is assembled, a repeatability study (datum verification) for position and flatness must be completed, at each station. This must be completed prior to the equipment sign off at the Supplier.
  8. **Maintenance**
     1. Indexer should be mounted in a way that provides proper clearance in case there is a need to service or repair the unit or its components.

1. **Records:** N/A