

What's New

Updated May 11, 2023

December 5, 2022

Global Common Specifications

- SD-001 rev 05DE22, General Manufacturing Equipment Specification

September 27, 2022

Global Common Specifications

- SD-011 rev 27SE22, Specification for Safety Circuits
- SD-012 rev 27SE22, Design-In Health and Safety Specification
- SD-1048 rev 27SE22, Servo Driven Pressing Systems

June 3, 2022

Global Common Specifications

- SD-005 rev 03JN22, General Gage

May 12, 2022

Global Common Specifications

- SD-1047 rev 12MY22, Threaded Fastener Process Specification

January 24, 2022

Global Common Specifications

- SD-007 rev 24JA22, Approved Components List

January 10, 2022

Global Common Specifications

- SD-1037 rev 10JA22, ESD Requirements for Electronic Assembly Equipment and Part Handling in an EPA

November 18, 2021

Global Common Specifications

- SD-1044 rev 18NO21, General Requirements for Factory Floor Magnetic Particle Inspection Equipment

November 17, 2021

Global Common Specifications

- SD-1019 rev 17NO21, CMM Program Purchasing Specification

October 7, 2021

Global Common Specifications

- SD-000 rev 07OC21, Machinery and Equipment Specifications
- SD-1061 rev 07OC21, Machine Vision Application Requirements

August 27, 2021

Global Common Specifications

- SD-1052 rev 27AU21, Machine Controls Traceability Interface Studio 5000
- SD-1053 rev 27AU21, Studio 5000 Serial Generation
- SD-1054 rev 27AU21, Studio 5000 JFK Lot Tracking
- SD-1055 rev 27AU21, Studio 5000 Tool Life
- SD-1056 rev 27AU21, Machine Controls Traceability Interface Siemens PLC
- SD-1058 rev 27AU21, Machine Controls Traceability Interface Labview TCP Adaptor

June 09, 2021

Global Common Specifications

- SD-005 rev 03JN21, General Gage
- SD-010 rev 09JN21, Standard Equipment Specification

January 22, 2021

Global Common Specifications

- SD-002 rev 22JA21, Manufacturing Equipment Statistical Qualifications Requirements
- SD-003 rev 22JA21, General Drawings and Manuals Specification

December 10, 2020

Global Common Specifications

- SD-004 rev 10DE20, Electrical Specification for Industrial Machinery
- SD-013 rev 10DE20, Hydraulic Fluid Power Rules Relating to Systems - Addendum to ISO 4413
- SD-014 rev 10DE20, Pneumatic Fluid Power Rules Relating to Systems - Addendum to ISO 4414
 - All updated to common format.

March 2, 2020

Global Common Specifications

- SD-000 rev 02MR20, Machinery and Equipment Specifications
 - Update made to robot requirements in Section 4 for SV OFF / SV Disable.

November 21, 2019

Global Common Specifications

- SD-000 rev 15NO19, Machinery and Equipment Specifications
- SD-001 rev 15NO19, General Manufacturing Equipment Specification
- SD-007 rev 15NO19, Approved Components List

- Yearly review and update – specific attention to added REQUIRED Proximity Switches.

October 15, 2019

Global Common Specifications

- SD-000 rev 15OC19, Machinery and Equipment Specifications
- SD-003 rev 15OC19, General Drawing and Manuals Specification
- SD-010 rev 10OC19, Standard Equipment Specification

June 3, 2019

Global Common Specifications

- SD-000 rev 03JN19, Machinery and Equipment Specifications
- SD-1034 rev 03JN19, Machine Controls Traceability Interface
- SD-1036 rev 03JN19, ESD / Environmental Requirements for Electronic Assembly at Nexteer (formatting only)
- SD-1037 rev 03JN19, Requirements for Electronic Assembly Equipment and Part Handling in an EPA (formatting only)
- SD-1040 rev 03JN19, Fanuc Robot Specification

January 11, 2019

Global Common Specifications

- SD-000 rev 11JA19, Machinery and Equipment Specifications
- SD-002 rev 11JA19, Manufacturing Equipment Statistical Qualifications Requirements

November 12, 2018

Global Common Specifications

- SD-000 rev 12NO18, Machinery and Equipment Specifications
- SD-001 rev 12NO18, General Manufacturing Equipment Specification
- SD-005 rev 12NO18, General Gage Specification
- SD-010 rev 12NO18, Standard Equipment Specification

July 20, 2018

Global Common Specifications

- SD-000 rev 28JU18, Machinery and Equipment Specifications
- SD-001 rev 28JU18, General Manufacturing Equipment Specification
- SD-007 rev 28JU18, Approved Components List
- SD-012 rev 28JU18, Design-In Health & Safety Specification

Toolkits, Templates and Forms

- Lockout Placard Toolkit rev 28JU18 *NEW
- CLS Toolkit rev 28JU18 *NEW

June 4, 2018

Global Common Specifications

- SD-000 rev 04JN18, Machinery and Equipment Specifications
- SD-005 rev 14MY18, General Gage Specification
 - Updated requirements for Kappa Studies
 - Deleted reference to SPC5

October 5, 2017

Global Common Specifications

- SD-010 rev 05OC17, Standard Equipment Specification
 - Updated Machine Controls
 - Added Reference to SD-1041 and SD-1042 for structured Part programming
 - Added Site Code Requirements for Drawing and Manual File Names

July 27, 2017

Global Common Specifications

- SD-000 rev 27JL17, Machinery and Equipment Specifications
- SD-003 rev 27JL17, General Drawing and Manuals Specification
 - Added Solidworks information
 - Added Wuhan and Morocco site codes

March 24, 2017

Global Common Specifications

- SD-1040 rev 09MR17, Fanuc Robot Specification
 - Initial Release

March 6, 2017

Global Common Specifications

- SD-000 rev 28FE17, Machinery and Equipment Specifications
- SD-007 rev 27FE17, Approved Components List
 - Updated electrical components
- SD-1032 rev 21FE17, Programmable Logic Controller Application Specification
- SD-1033 rev 23FE17, RFID Application Specification
- SD-1041 rev 31JA17, CNC Lathe Program Structure Specification
 - Initial Release
- SD-1042 rev 31JA17, CNC Mill Program Structure Specification
 - Initial Release

Toolkits, Templates, and Forms

- PLC_HMI_Template_Files_rev_2017_02_21.zip
 - Includes a What's New - Logic Specification SD-1032 and PLC Files document

August 22, 2016

Global Common Specifications

- SD-000 rev 22AU16, Machinery and Equipment Specifications
- SD-003 rev 22AU16, General Drawing and Manuals Specification
 - Corrected Multiple Formatting errors from 01MY16 revision
- SD-1035 Obsolete, PLC Type Traceability Considerations Guideline
 - Obsolete, Rockwell MicroLogix PLC's no longer permitted for traceability applications.

June 5, 2016

Toolkits, Templates, and Forms

- Standardized Work Instruction
 - Updated Forms

May 2, 2016

Global Common Specifications

- SD-000 rev 01MY16, Machinery and Equipment Specifications
- SD-002 rev 31MR16, Manufacturing Equipment Statistical Qualification Requirements
 - QCL (Quality Control Level) capability requirements revised
- SD-003 rev 01MY16, General Drawing and Manuals Specification
 - Added Indonesia site code
 - Added Title Block naming clarification
 - Updated Controls Drawings Standards

ME Folders/CAD Drawings Online

- ME Folders Online process guidelines, rev 15FE16
 - Format clarification for Title Block hyphen between Folder Type and Drawing Number.

January 13, 2016

Global Common Specifications

- SD-000 rev 13JA16, Machinery and Equipment Specifications
- SD-1034 rev 13JA16, Machine Control Traceability Interface
 - Rewrite of Previous SD-1034, Machine Control Interface Guideline into specification.

December 15, 2015

Global Common Specifications

- SD-007 rev 10DE15, Approved Components List
 - Corrected Updated Fluid Power formatting error and missing information. 10DE15 Changes are highlighted in green. 12OC15 Changes are highlighted in yellow.

ME Folders/CAD Drawings Online

- ME Folders Online process guidelines, rev 09DE15
 - Format clarification for Title Block

October 26, 2015

Global Common Specifications

- SD-000 rev 15OC15, Machinery and Equipment Specifications
- SD-003 rev 15OC15, General Drawing and Manuals Specification
 - Added Site Code requirement to Drawing Name prefix
 - Added Wuhu site code
- SD-007 rev 12OC15, Approved Components List
 - Updated Fluid Power and Electrical Sections
 - Added 3nine Mist Separators for Saginaw to Mechanical Section
- SD-010 rev 15OC15, Standard Equipment Specification
 - Added 3nine Mist Separators for Saginaw Equipment
 - Update Site Codes
 - Added Site Code requirement to Drawing Name prefix
- GM 1720 rev 5 07JA15, General Motors Global Lubrication Standard LS-1
 - Added to Nexteer Data Exchange site with permission to distribute from General Motors.
- GM 1721 rev 6 01JA11, General Motors Maintenance Lubricant Standard LS-2
 - Added to Nexteer Data Exchange site with permission to distribute from General Motors.

ME Folders/CAD Drawings Online

- ME Folders Online process guidelines, rev 26OC15

July 23, 2015

Global Common Specifications

- SD-000 rev 23JL15, Machinery and Equipment Specifications
- SD-002 rev 01JL15, Manufacturing Equipment Statistical Qualification Requirements
 - Added CMM Reference Publication
- SD-004 rev 15JN15, Electrical Specification for Industrial Machinery
 - Added Ethernet Cabling requirements

Toolkits, Templates, and Forms

- PLC and HMI Screen Templates, revised 22JN15
 - Updated Templates
 - Combined PLC and HMI Screen Template Files into one ZIP file.

April 27, 2015

Toolkits, Templates, and Forms

- MEAutoCADTktN300 rev 16AP15, AutoCAD Toolkit for version 2015

ME Folders/CAD Drawings Online

- ME Folders Online process guidelines, rev 21AP15

March 24, 2015

Global Common Specifications

- SD-000 rev 16MR15, Machinery and Equipment Specifications

- SD-003 rev 16MR15, General Drawing and Manual Specification
 - Added Chongqing and Liuzhou sites sections 2.2.1 – 2.2.3
 - Updated AutoCAD format to 2012 section 3.2.1
 - Updated NX file format to NX7.5 or NX9.0 section 3.3.2

Product Design

- Added a new category called “Product Design”
- Added NX9.0 PD Supplier Toolkit

February 10, 2015

ME Folders/CAD Drawings Online

- X3012 Request for Folder Form revised 09FE15
- X3386 ME Folder Request for Change Form revised 09FE15

Global Common Specifications

- SD-000 rev 09FE15, Machinery and Equipment Specifications
- SL 1.0 rev 01MR12, Nexteer Automotive Sound Level Specification

Dec 5, 2014

Global Common Specifications

- SD-017 rev 02DE14, Design-In Ergonomics
 - Previous version of Specifications (reference only)
- SD-017 rev 06NO09, Design-In Ergonomics

July 31, 2014

Global Common Specifications

- SD-000 rev 14JL14, Machinery and Equipment Specifications
- SD-004 rev 14JL14, Electrical Specification for Industrial Machinery
- SD-1020 rev 14JL14, Human Machine Interface Application Specification
- SD-1032 rev 14JL14, Programmable Logic Controller Application Specification

Toolkits, Templates, and Forms

- HMI Templates, revised 14JL14
- PLC Templates, revised 14JL14
 - Previous version of Specifications (reference only)
 - Note: Updates to the complete list; updated to each previous version.

June 30, 2014

Global Common Specifications

- SD-000 rev 30JN14
- SD-007 rev 06JN14
- SD-013 rev 01JN14
- SD-014 rev 01JN14
- SD-1033 rev 20DE13

- SD-1034 rev 21MR14
- SD-1039 rev 31MR13 – Traceability Systems Bill Of Process

March 4, 2014

Global Common Specifications

- SD-000 rev 04MR14
- SD-001 rev 01NO13
- SD-002 rev 03JA14
- SD-010 rev 01NO13
- SD-011 rev 18DE13
- SD-1038 rev 31MR13 – Specification for the Application of Automatic Operator-Interface Safety Doors

Toolkits, Templates, and Forms

- Risk Assessment Toolkit rev 24JA14

May 21, 2013

Global Common Specifications

- SD-1036 rev 09JA13 – ESD Environmental Requirements for Electronic Assembly at Nexteer
- SD-1037 rev 09JA13 – ESD Requirements for Electronic Assembly Equipment and Part Handling in an EPA

January 4, 2013

Toolkits, Templates, and Forms

- Note: Note added that AutoCAD toolkits are specifically designed for AutoCAD 2008 and 2012 only.

December 4, 2012

Global Common Specifications

- SD-000 rev 27NO12 – Machinery and Equipment Specifications
- SD-002 rev 27NO12 – Manufacturing Equipment Statistical Qualifications Requirements

October 24, 2012

Global Common Specifications

- SD-000 rev 15OC12 – Machinery and Equipment Specifications
- SD-001 rev 15OC12 – General Manufacturing Equipment Specification
- SD-007 rev 15OC12 – Approved Components List
- SD-1035 rev 21AU12 – PLC Type Traceability Considerations Guideline

ME Folders/CAD Drawings Online (TC Eng formally iMAN)

- ME Folders Online process guidelines, rev 07 30 12

Toolkits, Templates, and Forms

- SD-1020 Allen Bradley FTView v6.0 rev 31AU12 - HMI Screens Application Files/Templates (referenced in SD-1020)

- SD-1032 Allen Bradley Logic Template rev 15OC12 - PLC Logic Template Files (referenced in SD-1032)

May 23, 2012

ME Folders/CAD Drawings Online (TC Eng formally iMAN)

- DS3012 Request for Folder Form 11JA10.xls
- DS3386 ME Folder Request for Change, rev 22FE12

May 17, 2012

Global Common Specifications

- SD-017 rev 06NO09 – Design-In Ergonomics
- SD-1020 rev 02DE11 – Human Machine Interface Application Specification
- SD-1033 rev 30NO11 – RFID Part Tracking Guideline.

Toolkits, Templates, and Forms

- X2518 DPL Template rev 14MY12 - Drawing Parts List Template and Associated Training
- SD-1020 Allen Bradley FTVIEW v5.1 - HMI Screens Application Files/Templates (referenced in SD-1020)
- SD-1020 Allen Bradley FTVIEW v6.0 - HMI Screens Application Files/Templates (referenced in SD-1020)
- SD-1032 Allen Bradley Logic Template rev 26AP12 - PLC Logic Template Files (referenced in SD-1032)

August 5, 2011

Toolkits, Templates, and Forms

- DS3012 Request for Folder Form 11JA10.xls

January 25, 2011

- Nexteer Border Requirements – Important / Please read attached Policy Letter dated January 25, 2011.

Global Common Specifications

- SD-000 rev 17DE10 – Specification references updated
- SD-007 rev 17DE10 – See attached SD-007 rev 17DE10 Changes.pdf
- SD-012 rev 17DE10 – Formally DA-2006
 - Design-In Health & Safety Specification, section 3 (Risk Assessment) updated. For additional impact on of risk assessment changes, reference attached SD-011 Safety Circuit Specification changes.
- SD-1032 rev 17DE10 – Programmable Logic Controller Application Specification.
 - SD-000 requires compliance to this specification.
- SD-1033 rev AU10 – RFID Part Tracking Guideline.
 - This document applies when referenced in the Manufacturing Equipment Specification (T-Spec).
- SD-1034 rev 17DE10 – Traceability Interface Guideline.
 - This document applies when referenced in the Manufacturing Equipment Specification (T-Spec).

Toolkits, Templates, and Forms

- MEAutoCADTktN110 rev 28AP10
- DPL Template DS2518 rev 01MR10
- Risk Assessment Toolkit rev 04JA11

December 17, 2009

Global Common Specifications

- Note: All Nexteer Automotive Specifications are Global Common ("GC" removed)
- SD-000 rev 06NO09 – Specification references updated
- SD-001 rev 06NO09 – Sections 2.4, 3.19, 5.4 and Appendix A (10) updated
- SD-002 rev 06NO09
- SD-003 rev 06NO09 – Sections 2.1.3 and 6.2.3 updated
- SD-004 rev 06NO09
- SD-005 rev 06NO09
- SD-007 rev 06NO09 – Added SMC ISO valves, Festo 63mm bore cylinders and Rockwell PanelView Plus Compact HMI's
- SD-010 rev 06NO09 – Sections 4.4, 5.7 and Appendix A (11) updated
- SD-011 rev 06NO09 – see attached SD-011 rev 06NO09 Changes.pdf
- SD-012 rev 06NO09 – formally DA-2006, Design-In Health & Safety Specification, section 3 updated
- SD-013 rev 06NO09 – formally DA-2002, Hydraulic Fluid Power Rules – Addendum
- SD-014 rev 06NO09 – formally DA-2003, Pneumatic Fluid Power Rules – Addendum
- SD-015 rev 06NO09 – formally Delphi Lean Equipment Design
- SD-016 rev 06NO09 – formally DA-2005, Lean Equipment Controls Design
- SD-017 rev 06NO09 – formally Delphi Design-In Ergonomics Guidelines
- SD-1020 rev 06NO09
- SD-1022 rev 06NO09
- SD-1032 rev 06NO09

ME Folders/CAD Drawings Online (TC Eng formally iMAN)

- ME Folders Online process guidelines, rev 16OC09
- Tooling Drawing Example, rev 09DE09
- Controls Drawing Example, rev 16DE09
- DS3386 ME Folder Request for Change, rev 09DE09

Toolkits, Templates, and Forms

- MEAutoCADTktN101, rev 16DE09
- DPL Template DS2518, rev 09DE09
 - Previous Version Specifications (reference only)
 - Note: The previous version of each specification will be available here.

August 11, 2009

Toolkits, Templates, and Forms

- ME Folders Online Process Guideline, rev 10AU09

June 24, 2009

- SD-000-GC rev 08JN09 – see attached SD-000-GC rev 31JN09 Changes.pdf
- SD-001-GC rev 31MY09 – see attached SD-001-GC rev 31JN09 Changes.pdf
- SD-003-GC rev 31MY09 – see attached SD-003-GC rev 31JN09 Changes.pdf
- SD-004-GC rev 31MY09 – see attached SD-004-GC rev 31JN09 Changes.pdf

- SD-005 rev 08JN09 – Criteria for linearity study and measurement system for Kappa study.
- SD-007-GC rev 31MY09 – see attached SD-007-GC rev 31JN09 Changes.pdf
- SD-010-GC rev 31MY09 – see attached SD-010-GC rev 31JN09 Changes.pdf

February 6, 2009

- SD-000 Rev 02FE09 – SD-002 & SD-005 revision dates updated.
- SD-002 Rev 02FE09 – Document all characteristics not verified at machine qualification.
- SD-005 Rev 10DE08 – Linearity Study Requirements added.

November 10, 2008

- SD-000 Rev 10NO08 – SD-002 revision date updated.
- SD-002 Rev 21OC08 – Cpk indices increased to 1.67, QCI references added and KCC references removed.

October 21, 2008

Toolkits, Templates, and Forms (formally Toolkits and Templates)

- Excel Drawing Parts List Template, revised 10/09/08
 - Note: DPL will work on Excel 2000, 2003, and 2007. Auto filtering and sorting is now available on the index page.

August 26, 2008

Toolkits, Templates and Forms (formally Toolkits and Templates)

- SD-1020 Proface HMI Templates, revised 8/25/08
- SD-1020 Allen Bradley HMI Templates, revised 8/25/08
- SD-1032 Allen Bradley Logic Templates, revised 8/25/08
- Excel Drawing Parts List Template, revised 8/25/08
- DS3012 Request for Folder Form, revised 3/31/04
 - Note: This form is the request to Steering Reprographics to make drawing folder available
- DS3386 ME Folder Request for Change Form, revised 8/25/08
 - Note: This form is to be included when submitting Drawing Folder Sheet Updates

June 19, 2007

- Excel Drawing Parts List Template, revised 6/13/07
 - Note: Revised to show the correct revision level in the parts list sheets.

May 25, 2007

- SD-000 Rev 15MY07 – Revised section 3 to add Mexico plants electrical utilities.
 - Note: SD-000 is now used for all North American sites
- SD-000-POL Rev 08MR07 – Revised revision dates of SD-002, SD-005, DA-2006 and DEG. SD-004-POL and SD-007-POL have been deleted. Added SD-007 Global Common Approved Components List.
- SD-000-CHI Rev 15AP07 – Revised revision dates of SD-001, SD-002, SD-005, DA-2006 and DEG. SD-003-CHI, SD-004-CHI, SD-007-CHI, SD-008-CHI and SD-009-CHI have been deleted. Added SD-007, Global Common Approved Components List and SD-104 International Electrical Specification for Industrial Machinery Addendum to IEC 60204.

- Excel Drawing Parts List Template, revised 5/22/07
 - Note: Revised to allow 9 digit equipment number.

October 5, 2006

- SD-000 Rev 15SE06 -- Revised revision dates for SD-001, SD-002, SD-003, SD-005, DA-2004, DA-2006 and DEG. SD-004 and SD-007 have been deleted. SD-007-NA, SD-1020, and SD-1022 have been added.
- SD-001 Rev 15SE06 -- Country of destination language requirements, support software issues and fault current detail added.
- SD-002 Rev 02AU06 -- Section 9.1 (True Position) and 10.11 (True Position Calculations) added.
- SD-003 Rev 15SE06 -- Revisions to support: 1) electronic operation & service manuals; 2) AutoCAD versions supported; and 3) machine mounted control components detailed on machine DPL parts list.
- SD-004 is now obsolete and all control requirements are documented in DA-2004 Version 3, April 2004.
- SD-005 Rev 01FE05 -- Reviewed / Updated to reflect current practices.
- SD-007-NA Rev 15SE06 -- This is the new North American Regional "Approved Components List" and replaces SD-007, SD-007-GMT900, SD-007-P12 and SD-007-MEX.
- DA-2004 Version 3, April 2004 – current version of corporate specification adopted by Delphi Steering.
- DA-2006 Version 2.1, September – updated for use globally across Delphi Corp.
- DEG (Design-In Ergonomic Guideline) – Latest revision.

February 2, 2006

- SD-1020, Human Machine Interface Application Specification, revised 12/15/05
- Delphi S HMI Screens Application Files/Templates (referenced in SD-1020), 01/10/06

December 15, 2005

- Excel Drawing Parts List Template, revised 11/28/05
 - Note: Form 3386 has been revised. Several problems with the template have also been corrected.

August 23, 2005

- Delphi S AutoCAD Toolkit (referenced in SD-003) Note: For AutoCAD versions 2000, 2002, 2005
 - Note: This is the latest version of the AutoCAD Toolkit and is compatible with AutoCAD 2005.
- SD-1022, Label Error Proofing Requirements for New Assembly Systems, 5/23/05

January 17, 2005

- Excel Drawing Parts List Template, revised 12/8/04
 - Note: All Excel Drawing Parts List, new or revised, submitted to Delphi-S after 2/15/05 shall use the latest version of the template (i.e. 12/8/04). The revision date can be found on the left footer of all sheets, including form 3386).