



MTS-Test Workmanship Standards

Workmanship Standards Number: 04-01

Rev: B

- 1.1 Name: Normative Standards for Computer Aided Design
- 1.2 Workmanship Standards Category: Computer Aided Design
- 1.3 Purpose/Description (why/when/how):
Collection of the normative standards applicable to the Computer Aided Design Category

Contents

- 1.4 Solidworks modeling/drawing standards
- 1.5 3DVIA modeling standards
- 1.6 MicroStations drawing standards
- 1.7 Importing CAD data to Solidworks
- 1.8 DBWorks practices/standards

1.4 Solidworks modeling/drawing standards

Acceptable Standard	Description
ASME Y14.100	Engineering Drawing Practices
ASME Y14.1	Decimal Inch Drawing Sheet Size and Format
ASME Y14.2	Line Conventions and Lettering
ASME 14.3	Multi and Sectional View Drawings
ASME Y14.5	Dimensioning and Tolerancing
ASME Y14.6	Screw Thread Representation
ASME Y14.8M	Casting and Forgings
ASME Y14.41	Digital Product Definition Data Practices
MTS-Model file parts	Naming/numbering conventions
MTS-Model file parts	Origin Planes and Axis
MTS-Model file parts	Sketches
MTS-Model file parts	Dimensions, Relations and Tolerances
MTS-Model file parts	Features



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MTS-Model file parts	Color/Texture
MTS-Model file parts	Sheet metal parts
MTS-Model file parts	Configurations
MTS-Model file parts	Design tables

1.5 3DVIA modeling standards

Acceptable Standard	Description
ASME Y14.41	Digital Product Definition Data Practices
MTS-MBD/3DVIA	Using the configuration specific spreadsheet
MTS-MBD/3DVIA	How to use the MBD tool
MTS-MBD/3DVIA	Guide for synchronizing the 3DVIA file to SAP
MTS-MBD/3DVIA	3DVIA reference guide
MTS-MBD/3DVIA	Getting started w/3DVIA Composer Player
MTS-LDD assemblies	Minimum information
MTS- LDD assemblies	BOM
MTS- LDD assemblies	Fasteners
MTS- LDD assemblies	Standard notes
MTS- LDD assemblies	Tabulated drawings with 3DVIA files

1.6 MicroStation drawing standards

Acceptable Standard	Description
ASME Y14.100	Engineering Drawing Practices
ASME Y14.1	Decimal Inch Drawing Sheet Size and Format
ASME Y14.2	Line Conventions and Lettering
ASME 14.3	Multi and Sectional View Drawings
ASME Y14.5	Dimensioning and Tolerancing
ASME Y14.6	Screw Thread Representation

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ASME Y14.8M

Casting and Forgings

1.7 Importing CAD data to Solidworks

Acceptable Standard	Description
MTS-Importing CAD data	From I-Deas
MTS-Importing CAD data	From outside vendor or customer

1.8 DBWorks practices/standards

Acceptable Standard	Description
MTS-DBWorks	General
MTS-DBWorks	Searches
MTS-DBWorks	Data Entry card
MTS-DBWorks	Save an assembly as a part
MTS-DBWorks	Vendor parts
MTS-DBWorks	Export a file for vendor or customer
MTS-DBWorks	E-Drawings

2 REVISION HISTORY & APPROVAL

REVISION HISTORY			
Rev	Description of Change	Author	Effective Date
A	Initial release	S. Jordheim	12/19/2012
B	Added Hyperlinks	B.Haapala	1/14/2013

APPROVAL OF CURRENT REVISION		
Name / Function	Signature	Date

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Stephen Jordheim / Workmanship Standard Process Owner	(signed approval on file)	
Marv Westermann / Workmanship Standard Co-pilot	(signed approval on file)	