

# Anark Core MBEWorks™

Unleash the Model Based Enterprise™



## What is the Model Based Enterprise?

*“Model Based Enterprise is a fully integrated and collaborative environment founded on 3D product definition detailed and shared across the enterprise; to enable rapid, seamless, and affordable deployment of products from concept to disposal.”*

Model-Based-Enterprise.org

In short, MBE is a process characterized by reusing a single source of CAD models for all downstream processes and customers. This process must begin with a fully annotated, “CAD agnostic” digital master model—the **3D Technical Data Package**—that captures and communicates the “true” design intent.

## Unleash the Model Based Enterprise with Anark Core MBEWorks™

**Create and Open** 3D Technical Data Packages and other MBE documents *from and into* SolidWorks with Anark Core MBEWorks.

### Technical Data Packages (TDPs)

- Complete 3D product definition
- Replaces 2D drawings
- ASME Y14.41 Visual Response

### Request for Quotes

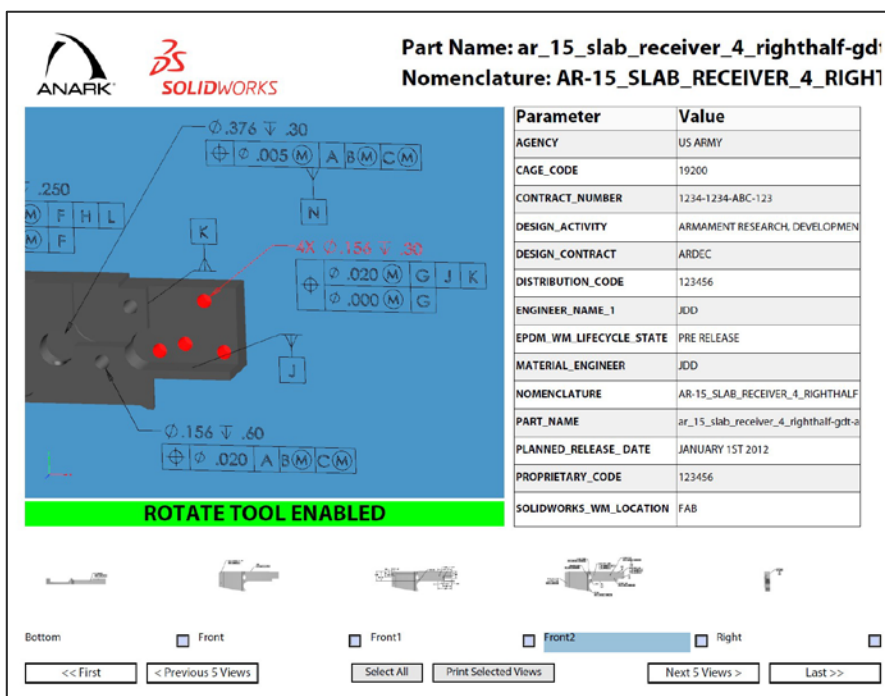
- Provides self-contained RFQ package
- Highlights critical design requirements
- Receive bids electronically

### Digital Work Instructions

- Animated work steps
- 3D MBD and annotations
- Lightweight and easy to distribute

### Inspection Documents

- Highlights key inspection characteristics
- Compare measured vs. design specifications
- Sign and submit measurements to SPC systems



3D PDF Technical Data Package created with Anark Core MBEWorks

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## Reduce Costs Across the Model Based Enterprise

- Eliminates costs to create and maintain 2D engineering drawings
- Provides a zero-cost platform to view and interact with MBD/MBE models and data
- Supports new DoD MBE requirements
- Open native 3D PDF TDPs directly into SolidWorks

## Publish 3D MBE to PDF and HTML

Anark Core MBEWorks™ converts SolidWorks 2012 & 2013 parts and assemblies with 3D dimensions, tolerances, GD&T, and other 3D notes into high-resolution 3D PDF and HTML documents containing manufacture-quality BREP geometry, interactive associativity between features (ASME Y14.41 “visual response” characteristics), and “machine readable” semantic definitions for each component.

## Open 3D PDF TDP docs into SolidWorks

Anark Core MBEWorks™ opens native 3D PDF TDP documents directly into SolidWorks 2012 & 2013 and transforms these 3D PDFs into their equivalent SolidWorks Solids, associative 3D MBD data (i.e. 3D GD&T), engineering Views and engineering Custom Properties. That is, the complete Product Definition within the 3D PDF TDP is transformed into a complete Product Definition within SolidWorks now suitable for additional production activities.

Anark MBEWorks for SolidWorks is the most cost-effective solution for generating MBE documents, and enables your organization to join the model based enterprise paradigm shift. *Win more contracts!*

## Anark Core MBEWorks System Requirements

- SolidWorks 2012 SP4 or higher
- Intel Core 2 Duo, i5, or i7, 2 GHz or faster
- NVIDIA Quadro FX 1800 or newer
- 4 GB RAM
- 5+ GB free disk space
- 32-bit or 64-bit versions of Microsoft Windows® XP Professional SP2, Microsoft Vista®, or Windows® 7
- Microsoft .NET 3.5 SP1 (installed if not present)
- OpenGL 3.0 or later

**Part Name:** ar\_15\_slab\_receiver\_4\_righthalf-gd  
**Nomenclature:** AR-15\_SLAB\_RECEIVER\_4\_RIGH1

Parameter	Value
AGENCY	US ARMY
CAGE CODE	11000
CONTRACT NUMBER	1234-1234-ABC-123
DESIGN ACTIVITY	ARMAMENT RESEARCH DEVELOPMENT
DESIGN CONTRACT	ADRC
DISTRIBUTION CODE	123456
ENGINEER NAME_1	JDO
EPOM, WM, LIFECYCLE STATE	PRE RELEASE
MATERIAL ENGINEER	JDO
NOMENCLATURE	AR-15_SLAB_RECEIVER_4_RIGHTHALF
PART NAME	ar_15_slab_receiver_4_righthalf-gd
PLANNED RELEASE DATE	JANUARY 1ST 2012
PROPRIETARY CODE	123456
SOLIDWORKS_WM_LOCATION	FAB

**Routing Name (PN):** Assemble Trailer Hitch  
**Operation #:** OP010

**First Article Inspection Document**

**Part Name:** chertool\_gplate  
**Part Drawing Number:** 1209513  
**Rev Number:** 1001  
**Serial Number:** 125-555-9908-23

**Date:** 9/30/2011  
**Idg Num:** 1

**KEY CHARACTERISTIC TOLERANCES**

Linear Dimension Dim_43	Linear Dimension Dim_49	Linear Dimension Dim_45
5.51	0.01	0.01

**INSPECTED DIMENSIONS**

These are the instructions for Linear Dimensions

Linear Dimension Dim_43	Tolerance	Measurement	Deviation
5.51	0.01	5.51	0.00

Inspector's Name: Paul Perreault

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## About Anark

Anark Corporation provides powerful enterprise software and solutions to manufacturing organizations that need to cost-effectively utilize their 3D CAD data and manufacturing information for design collaboration, manufacturing work instructions, visualization, and technical documentation applications.

Anark has an unrivaled track record for delivering successful PLM and 3D visualization solutions for the industry's most demanding and innovative customers. Anark helps market leaders such as **Boeing, Cessna, Pratt & Whitney, Lockheed Martin, Rockwell Collins, Sikorsky, Ericsson, B & W**, and the **US Department of Defense** unlock the potential of their 3D design assets and manufacturing information to save money, accelerate product development, and to collaborate and communicate more effectively and securely.

For more information, please visit [www.anark.com](http://www.anark.com) or contact us at [solutions@anark.com](mailto:solutions@anark.com)