Motion Analyzer 7.20 | Release Notes

New Products Added in Motion Analyzer 7.20

- VPF - Single Connector Food Grade Motors added

Products Updates in Motion Analyzer 7.20

- Frame 165 VPL Motors added
- Network Safety option added for K5500 in “Configure Axis BOM”
- Product compatibility for K300 and LC & LZ motors added
Motion Analyzer 7.10 | Release Notes

New Products Added in Motion Analyzer 7.10

- VPL Small Frame Motors added
- VPS Stainless Steel Motors added
- Elwood High Performance Motors added
- Kinetix 5500 Converter Kit for compatibility with MPL, MPM, MPF, MPS, MPAS Ball Screw, MPAR and MPAI

Products Updates in Motion Analyzer 7.10

- Linear Thruster (LDAT)
- Wittenstein Alpha
- Elwood SX- Explosion Proof Servo Motors
- Kinetix350 - MPAS Linear Motor Stages compatibility added
Motion Analyzer 7.00 | Release Notes

New Products added in Motion Analyzer 7.00

- Kinetix 5500 Drives
- VPL Motor Series

New Ease of Use Features in Motion Analyzer 7.00

- Motion Analyzer 7.00 does not require registration and activation.
- Products which have a shorter lead time / quicker delivery are marked in the Solution list under the column "Preferred Product".
- For Single Axis families, Axes are added directly under the project node, not under a Drives Group node.
New Products added in Motion Analyzer 7.00 Details:

1. Kinetix 5500 Drives and VPL Motor Series:
The Kinetix 5500 is a new drive developed by Rockwell Automation, providing full EtherNet/IP integrated motion and universal voltage input with a small cabinet footprint and reduced wiring. The Kinetix 5500 connects to the new Kinetix VPL servo motors through the SpeedTEC connector which combines power and feedback in a single cable. The Kinetix 5500 is also configurable as either a stand-alone drive or within a drive group, allowing for the sharing of both the AC supply and the DC Bus.

Kinetix VPL low-inertia motors feature single-turn or multi-turn high resolution encoders, and are available with 24V DC brakes. These compact brushless servo motors meet the demanding requirements of high-performance motion systems. Support for Kinetix 5500 – VPL Motor series in Motion Analyzer is described below:

i. Selecting VPL Motor Solution in an Axis:
VPL Motor series have been added on the “Motor” Page of the Axis View. User can select VPL series similar to the way other Motor series are selected.
ii. Selecting Kinetix 5500 Servo Drives:
On selecting VPL-Motor series on “Motor” page, the compatible Drive family Kinetix 5500 is available and selectable on the “Drive” Page.

iii. Configure Axis BOM for VPL– Kinetix 5500
Configure Axis BOM allows configuration of option and accessories for selected Motor and Drive.

iv. Creating Power Sharing Group for Kinetix 5500 Axes
To define a group of Axes which will share either AC or DC or both, a Power Sharing Group must be defined. Once a group is defined then the Power Sharing setting can be specified in the Power Supply and Accessories View,

- Multi Select (via CTRL + Click) Kinetix 5500 axes in the Explorer tree and then click on “Group” in the home ribbon tab. (This option is available only for Kinetix 5500 drive family.)

Button can be used to “Ungroup” the Axes under a Power Sharing group.
• In order to add additional drive groups, “Add Drive Group” can be used. (This button is available only when Power Sharing Drive Family – Kinetix 5500 is selected in the application.)

v. Power Supply/Accessories View for Kinetix 5500 Servo Drives
This view is accessible via “Power Supply / Accessories” button on the Ribbon.
The following new tabs have been added for the case of Kinetix 5500 family, which help select and configure Power sharing settings and Shunt – Capacitor selections.

- **Power Configuration**: For the case of Kinetix 5500, this tab allows selection of sharing type along with sharing configuration.

- **Converter and Shunt**: For DC sharing, this tab allows selection of Shunt plus Capacitor and analysis of the bus based on the current selection.
• Shunt: For AC Sharing or Stand Alone case, this tab allows selection of Shunt plus Capacitor and analysis of the bus based on the current selection. Auto select is limited to sizing a single Shunt or Capacitor. Shunt + Capacitor combinations are possible for Kinetix 5500 drives and these can be analyzed via Manual Selection.
New Ease of Use Features in Motion Analyzer 7.00

1. Motion Analyzer 7.00 does not require registration and activation.

2. Products which have a shorter lead time / quicker delivery are marked in the Solution list under the column “Preferred Product”.

3. For Single Axis families, axes are added directly under the project node, not under a Drives Group.
   For an application with Single Axis drive family, Axis doesn’t share AC or DC power. Therefore these Axes will be added as a Stand Alone Axis directly under the project node instead of a Drives Group.
SolidWorks Requirements

**Static Inertia Import** – 2011(all except SP1, SP2), 2012(SP1, SP2, SP3 and SP4)
**SolidWorks Simulation** – 2011(all except SP1, SP2), 2012(SP1, SP2, SP3 and SP4) with SolidWorks Motion add-in
**SolidWorks based Dynamic Simulation** – 2011(all except SP1, SP2), 2012(SP1, SP2 and SP3, SP4) with SolidWorks Motion add-in

On a Windows 7 machine, SolidWorks must be launched as an administrator (CTRL+SHIFT+Right Click -> Run as Administrator option on the shortcut) so as Motion Analyzer connects to the correct instance of SolidWorks.
Motion Analyzer System Requirements

Installing Motion Analyzer 7.00 – The Setup program checks for the availability of the minimum requirement of disk space / OS / Display resolution, etc. before continuing. List of various requirements is as follows:

1. **Operating System**
   The following operating systems are supported:
   - i. Windows XP - 32 Bit (SP2) (or greater)
   - ii. Windows XP - 64 Bit (SP2) (or greater)
   - iii. Windows Vista - 32 Bit
   - iv. Windows Vista - 32 Bit
   - v. Windows 7 - 32 Bit
   - vi. Windows 7 - 64 Bit

2. **Processor**
   Pentium IV Processor (or greater) is recommended.

3. **RAM**
   Minimum 1 GB RAM is recommended.

4. **Screen Resolution**
   Supported Screen Resolution is 1280 x 800

5. **Disk Space**
   Minimum disk space should be 500 MB.

6. **NET Framework**
   Present at following URL:

7. **East Asian Language installation on Windows XP machines**
   For Windows XP machines, East Asian Language should be installed to for Motion Analyzer to support Chinese Simplified Language. To install East Asian Language, follow the steps mentioned in the following article: [http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/int_pr_install_languages.mspx?mfr=true](http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/int_pr_install_languages.mspx?mfr=true)

   Motion Analyzer User Interface has been tested using “Microsoft YaHei” Chinese font. This font is available by default in Vista and Win 7 OS.