Motion Control Industry Statistics Reporting Categories

For the purposes of gathering and reporting industry statistics in a consistent manner, we have broken the industry down into 10 reporting categories:

- Motion Controllers
- AC Motors
- PLCs
- Actuators & Mechanical Systems
- Electronic Drives (Amplifiers)
- Sensors & Feedback Devices
- AC Drives
- Other Ancillary Components
- Motors
- Support & Services

To help you determine how to categorize your products, each category is defined below. If you have a situation where you cannot break the components down into separate categories, report the total in the highest level category possible (and then consistently report this way in the future).
Motion Controllers:
Industrial Controls
Machine Controls
Programmable Controllers
Industrial PCs
Smart Drives (Intelligent Drives)

Included are:
Industrial controllers and machine controls used as motion controllers
Programmable controllers
PLC’s (Programmable Logic Controllers) - if used to control motion
Industrial PCs (IPCs)—if used as motion controller

What is not included?
Process controllers, etc.

PLCs:

Included are:
PLCs

What is not included?
PLCs that are used as motion controllers (report these under “Motion Controller” category)

Electronic Drives (Amplifiers):
DC Drives
AC & DC Brushless Drives
Multi-axis Drives
Stepper

Included are:
DC servo drives
AC & DC brushless drives
Multi-axis drives (include multi-axis power supply) Stepper drives

What is not included?
Inverter, vector drives (report these under “AC Drives” category)
**AC Drives:**
Inverter Drives
Vector Drives
AC Adjustable Speed Drives (used for control of induction motors)

**Motors:**
DC Brushed Motors
AC & DC Brushless Motors Servomotors with gearing mounted Direct Drive
Linear Motors
Steppers

*Included are:*
- DC brushed servo motors
- AC & DC brushless servo motors
- Motors with integrated gearing
- Direct drive motors
- Linear motors
- Stepper motors

*What is not included?*
- General purpose motors (fans, printers, etc.)
- Inverter, vector and spindle motors (report these under “AC Motors” category)

**AC Motors:**
Inverter
Vector
Variable Reluctance

*Included are:*
- AC inverter motors
- AC vector motors
- Spindle motors

*What is not included?*
- AC brushless servo motors (report these under “Motor” category)
Actuators & Mechanical Systems:
Mechanical Drives
Gearboxes (component)
Belt-drives
Rod and Rodless Actuators
Ballscrews, Acme, Roller Screws Actuators

Included are:
Screw and belt-drive actuators
Positioning slides/linear units
High precision stages/air bearing systems
Rollerscrew actuators
Gearboxes
Coupling/collars

What is not included?
Clutches and brakes, component level ball screws/lead screws, linear guides/bearings/shafting, fluidpower, articulated-arm and SCARA robots.

Sensors and Feedback Devices:
Sensors and Switches
Encoders and Resolvers
Hall Sensors

Included are:
Switches and sensors
Encoders and resolvers
Hall sensor feedback devices

What is not included?
Vision (report these under “Other Ancillary Components” category)
Other Ancillary Components:
Cable Track
Cables
Enclosures
Network and Field Bus Technology
Safety Products
Light Curtains
Guarding
HMI Panels
Power Supplies (logic back up)
Machine Vision Products

Support & Services:
Motion Software (application & motion software)
Assessment Services
Asset Management Services
Condition Monitoring
Network Services
On-site Support Services
Phone Support Services
Remote Monitoring and Diagnostic Services
Repair Services and Renewal Parts
Training Services

Some Gray Area Examples:
- PLCs used as motion controllers should be reported as motion controllers if delineation is possible
- Motors on actuators would count as actuator sales
- Linear motor driven stages and tables should be reported as actuator sales
- System sales (multiple categories as one part number) should be broken down into common building blocks for reporting whenever possible. When this is not possible, report highest dollar content portion
- Gearmotors are motors
- Smart motors are motors