



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