

1.2 Industrial robots - definition and classification

1.2.1 Definition (ISO 8373:2012) and delimitation

The annual surveys carried out by IFR focus on the collection of yearly statistics on the production, imports, exports and domestic installations/shipments of **industrial robots (at least three or more axes)** as described in the ISO definition given below. Figure 1.1 shows examples of robot types which are covered by this definition and hence included in the surveys.

A robot which has its own control system and is not controlled by the machine should be included in the statistics, although it may be dedicated for a special machine. Other dedicated industrial robots should not be included in the statistics. If countries declare that they included dedicated industrial robots, or are suspected of doing so, this will be clearly indicated in the statistical tables. It will imply that data for those countries is not directly comparable with those of countries that strictly adhere to the definition of multipurpose industrial robots.

- Wafer handlers have their own control system and should be included in the statistics of industrial robots. Wafers handlers can be articulated, cartesian, cylindrical or SCARA robots. Irrespective from the type of robots they are reported in the application "cleanroom for semiconductors".
- Flat panel handlers also should be included. Mainly they are articulated robots. Irrespective from the type of robots they are reported in the application "cleanroom for FPD".

Examples of dedicated industrial robots that should not be included in the international survey are:

- Equipment dedicated for loading/unloading of machine tools (see figure 1.3).
- Dedicated assembly equipment, e.g. for assembly on printed circuit boards (see figure 1.3).
- Integrated Circuit Handlers (pick and place)
- Automated storage and retrieval systems (see figure 1.3).
- Automated guided vehicles (AGVs) (see "World Robotics Service Robots")

The submission of statistics on industrial robots is mandatory for IFR member associations. In some countries, however, data is also collected on all types of manipulating industrial robots, that is, both multipurpose and dedicated manipulating industrial robots. Optionally, national robot associations may therefore also submit statistics on all types of manipulating industrial robots, which will be included in the publication *World Robotics* under the respective country chapter.

Industrial robot as defined by ISO 8373:2012:

An automatically controlled, reprogrammable, multipurpose manipulator programmable in three or more axes, which can be either fixed in place or mobile for use in industrial automation applications

The terms used in the definition above are explained in more detail below:

- **Reprogrammable:** designed so that the programmed motions or auxiliary functions can be changed without physical alteration;

1 2 Industrial Robots Definition And Classification

Wolfgang Guggemos



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