

# ASTM International Technical Committee F45 on Robotics, Automation, and Autonomous Systems

## Scope

The scope of the committee shall be the development of standards for industrial/commercial robotics, automation, and autonomous systems (i.e.: terminology, practices, classifications, guides, test methods, and specifications). These standards are applicable to, but not limited to, automatic/automated/autonomous vehicles, robotic arms/manipulators, and the sensors used in these systems; for smart infrastructures, advanced manufacturing, logistics and other automation.

The Committee will encourage research in this field and sponsor symposia, workshops, and publications to facilitate the development of such standards. The work of this Committee will be coordinated with other ASTM technical committees and other national and international organizations having mutual or related interests.

## Technical Subcommittees

- F45.01 Environmental Effects
- F45.02 Docking and Navigation
- F45.03 Object Detection and Protection
- F45.04 Communication and Integration
- F45.90 Executive Subcommittee
- F45.91 Terminology

## Key Documents

- F3200 Standard Terminology for Driverless Automatic Guided Industrial Vehicles
- F3218 Standard Practice for Recording Environmental Effects for Utilization with A-UGV Test Methods
- F3244 Test Method for Navigation: Defined Space
- F3265 Standard Test Method for Grid-Video Obstacle Measurement
- F3327 Standard Practice for Recording the A-UGV Test Configuration
- F3381 Standard Practice for Describing Stationary Obstacles Utilized within A-UGV Test Methods

**Learn more about Committee F45**  
[www.astm.org/COMMIT/F45](http://www.astm.org/COMMIT/F45)



## Quick Facts

**Established** 2014  
**Number of Members** 60+  
**Number of Standards** 9  
**The standards are available in**  
Volume 15.08 in the *Annual Book of ASTM Standards*

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