

STANDARDS FOR INDUSTRIAL ROBOTS

Getting It Right The First Time



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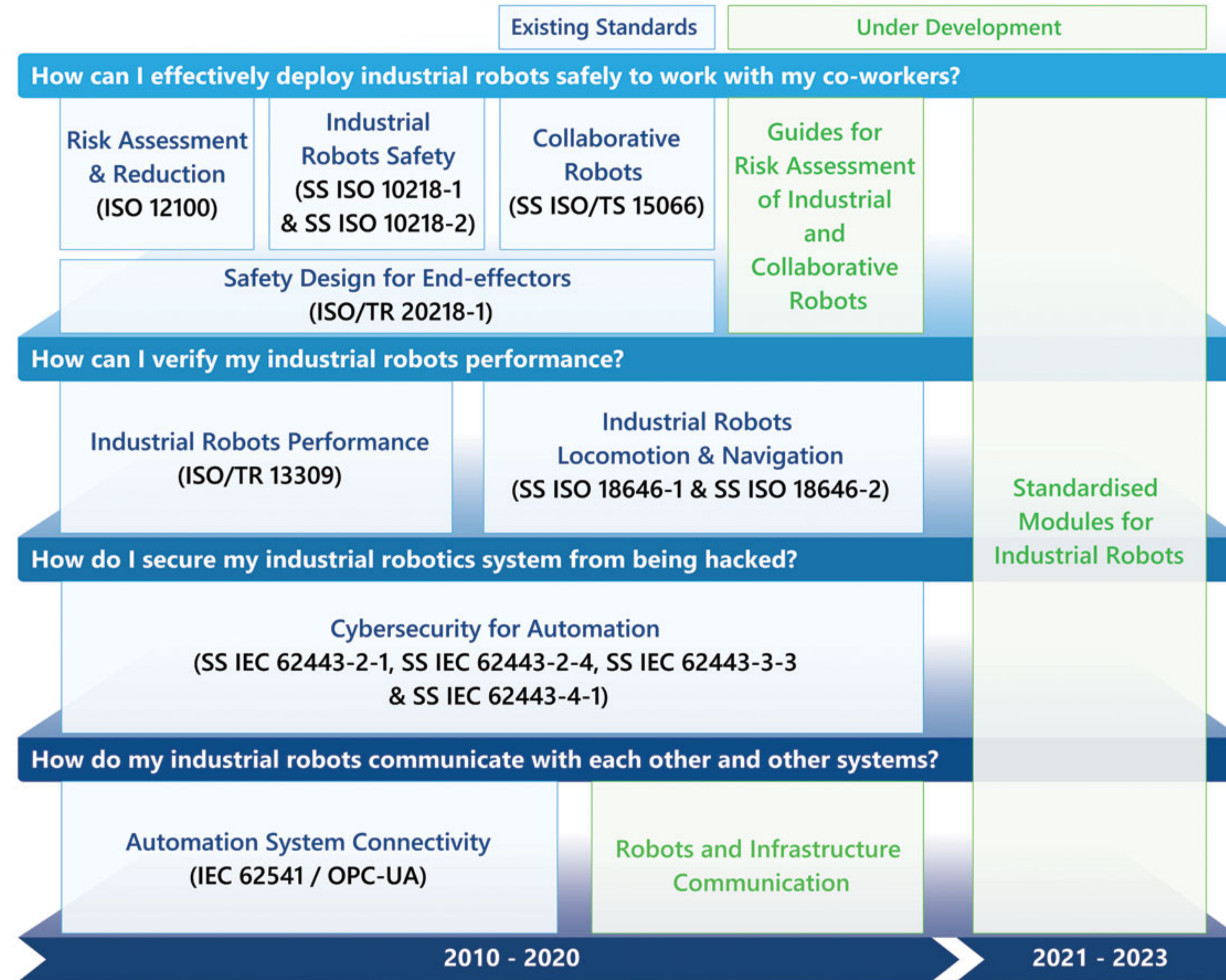


Why Follow Standards?

- Addresses real problems such as safety and reliability
- Represents industry best practices
- Developed by industry in partnership with other stakeholders
- Increases user confidence in robots

Easier Market Access

- Facilitates market access by meeting standards required in different markets
- E.g. CE marking (Europe) uses standards such as ISO 10218
- Testing & Certification for robots are provided by certification bodies

Safer Deployment


In Singapore, a risk assessment must be conducted to evaluate safety and health risks posed to any person in the workplace.

The following standards are commonly used:

- ISO 12100 for principles of risk assessment and risk reduction
- ISO 10218 for industrial robots (Approved Code of Practice recognized by the Workplace Safety and Health Council)
- ISO TS 15066 for Collaborative robots

Clearer Purchasing Requirements

- Ensures that robots purchased can meet requirements for safety, reliability and performance
- Scan the QR code for the Standards for Industry 4.0 tool



STANDARDS FOR SERVICE ROBOTS

Getting It Right The First Time





Why Follow Standards?

- Addresses real problems such as safety and reliability
- Represents industry best practices
- Developed by industry in partnership with other stakeholders
- Increases user confidence in robots

Easier Market Access

- Facilitates market access by meeting standards required in different markets
- E.g. CE marking (Europe) uses standards such as ISO 13482
- Testing & Certification for robots are provided by certification bodies

Safer Deployment

In Singapore, a risk assessment must be conducted to evaluate safety and health risks posed to any person in the workplace.

The following standards are commonly used:

- ISO 12100 for principles of risk assessment and risk reduction
- ISO 13482 for personal care robots
- ISO TS 15066 for Collaborative robots

Clearer Purchasing Requirements

- Ensures that robots purchased can meet requirements for safety, reliability and performance
- Scan the QR code for the Standards for Industry 4.0 tool