

ISO 11690-2:2020 (E)

Acoustics — Recommended practice for the design of low-noise workplaces containing machinery — Part 2: Noise control measures

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Technical aspects of noise control
5	Noise control at source
5.1	General
5.2	Noise control at source by design
5.3	Information on noise emission
5.4	Use of low-noise machines
5.5	Modification or replacement of machine components
5.6	Low noise working and production technologies
5.7	Maintenance of machines and noise control devices
6	Noise control on the transmission path
6.1	Noise control by means of a proper spatial arrangement of the noise sources
6.2	Use of noise control devices
6.3	Noise control by use of sound-absorbing materials
6.4	Sound propagation in structures and noise control measures
7	Noise control at the work station
8	Verification methods
8.1	General
8.2	Sound sources
8.3	Noise control devices
8.4	Workroom
8.5	Specified positions, work stations
9	New technologies
Annex A	(informative) Modification or replacement of machine components
A.1	Restriction of noise generation and transmission
A.2	Reduction of noise radiation
Annex B	(informative) Arrangement of sound sources
B.1	General
B.2	Location of high-noise sources together in order to minimize their effect on remote work stations
B.3	Location of the noisiest sources
B.4	Arrangement of ancillary tasks
B.5	Use of remote control
Annex C	(informative) Enclosures
Annex D	(informative) Silencers

Annex E (informative) Noise barriers and screens in rooms

Annex F (informative) Acoustical treatment of surfaces

F.1 Rooms with a diffuse field

F.2 Rooms with a non-diffuse field

F.3 Practical hints on surface treatment

Annex G (informative) Structure-borne sound insulation

Annex H (informative) Airborne sound insulation of partitions

Annex I (informative) Noise control at the work station

Annex J (informative) Example of a new technology

J.1 Technique

J.2 Applications

Page count: 31