

# DIN EN ISO 13766-2:2018-12 (E)

Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety (ISO 13766-2:2018)

---

## Contents

Page

<b>European foreword</b> .....	<b>3</b>
<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC machinery aimed to be covered</b> .....	<b>4</b>
<b>Foreword</b> .....	<b>5</b>
<b>Introduction</b> .....	<b>6</b>
<b>1 Scope</b> .....	<b>8</b>
<b>2 Normative references</b> .....	<b>8</b>
<b>3 Terms, definitions and abbreviated terms</b> .....	<b>9</b>
<b>4 General principles</b> .....	<b>10</b>
<b>5 EMC phenomena</b> .....	<b>10</b>
5.1 General.....	10
5.1.1 Performance criteria for complete machines.....	11
5.1.2 Performance criteria for safety-relevant ESA.....	11
5.2 Immunity of machinery.....	11
5.2.1 Immunity of machinery to radiated electromagnetic fields from off-board sources.....	11
5.2.2 Immunity to radiated electromagnetic fields from on-board sources.....	12
5.2.3 Immunity to electrical transients on supply and other lines of machinery.....	12
5.2.4 Immunity of machinery exposed to ESD.....	12
5.3 Immunity of ESA.....	12
5.3.1 Immunity of ESA to radiated electromagnetic fields from off-board sources.....	12
5.3.2 Immunity of ESA to radiated electromagnetic fields by on-board sources.....	13
5.3.3 Immunity of ESA to electrical transients on lines.....	13
5.3.4 Immunity of ESA exposed to ESD.....	13
<b>6 Test report</b> .....	<b>13</b>
<b>Annex A (informative) Installation and maintenance aspects</b> .....	<b>14</b>
<b>Bibliography</b> .....	<b>15</b>