

# DIN EN 13389:2010-10 (E)

## Food processing machinery - Mixers with horizontal shafts - Safety and hygiene requirements (includes Amendment A1:2009)

---

| <b>Contents</b>  |  | <b>Page</b> |
|--|--|-------------|
| Foreword .....   |  | 3           |
| Introduction .....   |  | 4           |
| 1 <b>Scope</b> .....   |  | 5           |
| 2 <b>Normative references</b> .....  |  | 5           |
| 3 <b>Terms, definitions, mode of operation and description</b> .....   |  | 6           |
| 4 <b>List of significant hazards</b> .....   |  | 8           |
| 5 <b>Safety and hygiene requirements and/or protective measures</b> .....  |  | 11          |
| 6 <b>Verification of safety and hygiene requirements and/or protective measures</b> .....  |  | 18          |
| 7 <b>Information for use</b> .....   |  | 20          |
| <b>Annex A (normative) Noise test code for mixers with horizontal shafts (Grade 2 of accuracy)</b> .....   |  | 23          |
| <b>Annex B (normative) Principle of design to ensure the cleanability of mixers with horizontal shafts</b>   |  | 25          |
| <b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive Machinery 98/37/EC, amended by 98/79/EC</b> ..... |  | 41          |
| <b>Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/CE" .....</b>                             |  | 42          |
| <b>Bibliography</b> .....  |  | 43          |