

# ISO 2017-1:2005-02 (E)

## Mechanical vibration and shock - Resilient mounting systems - Part 1: Technical information to be exchanged for the application of isolation systems

---

| Contents  | Page |
|---|------|
| Foreword .....  | iv   |
| Introduction .....  | v    |
| 1 Scope .....   | 1    |
| 2 Normative references .....  | 1    |
| 3 Terms and definitions .....   | 2    |
| 4 Purpose of vibration isolation (why isolate mechanical systems) .....                         | 2    |
| 5 What is to be isolated .....  | 3    |
| 5.1 Source isolation .....  | 3    |
| 5.2 Receiver isolation .....  | 3    |
| 6 Applicability of vibration isolation (when to isolate structures or mechanical systems) ..... | 3    |
| 7 Measurement and evaluation of vibration conditions .....                                      | 4    |
| 8 Information for the choice of an isolation mounting system .....                              | 4    |
| 9 Information to be supplied by the producer of the source or receiver .....                    | 4    |
| 9.1 General .....   | 4    |
| 9.2 Information to be supplied by the source producer .....                                     | 5    |
| 9.3 Information to be supplied by the receiver producer .....                                   | 6    |
| 10 Information to be supplied by the customer .....   | 7    |
| 10.1 Information to be supplied by the user of the source .....                                 | 7    |
| 10.2 Information to be supplied by the user of the receiver .....                               | 8    |
| 11 Information to be provided by the supplier of the isolation system .....                     | 8    |
| 11.1 Physical data of the isolation system .....  | 8    |
| 11.2 Dynamic behaviour .....  | 9    |
| 11.3 Durability .....   | 9    |
| 11.4 Environmental data .....   | 9    |
| 11.5 Maintenance data .....   | 10   |
| 12 Guidelines for the validation of isolation performance .....                                 | 10   |
| Annex A (informative) Elements for vibration isolation .....                                    | 11   |
| Bibliography .....  | 17   |