

ISO/TR 27609:2007-06 (E)

Vibration in hand-held tools - Vibration measurement methods for grinders - Evaluation of round-robin test

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Symbols and abbreviated terms | 1 |
| 3 | Method | 3 |
| 4 | Description of two test methods evaluated | 3 |
| 4.1 | Unbalance disc test method | 3 |
| 4.2 | Grinding test method | 4 |
| 5 | Results | 4 |
| 5.1 | General | 4 |
| 5.2 | Spread of methods | 5 |
| 5.2.1 | Unbalance disc test | 5 |
| 5.2.2 | Grinding test | 8 |
| 5.2.3 | Correlation between no-load and grinding vibration | 10 |
| 5.3 | Unbalance disc test for simulating real grinding | 12 |
| 5.4 | Measurements repeated over time | 13 |
| 6 | Conclusion | 14 |
| 6.1 | Unbalance disc test | 14 |
| 6.2 | Grinding test | 14 |
| 6.3 | Repeatability | 14 |
| Annex A (informative) | Test instructions -- "Instruction for participants in the 2003 round-robin test on grinders. The aim is to evaluate the proposed changes to ISO 8662-4:1994 in document ISO/TC 118/SC 3/WG 3 N211" | 15 |
| Annex B (informative) | Diagrams | 21 |
| Annex C (informative) | List of grinders and laboratories | 28 |
| Bibliography | | 29 |