

DIN EN ISO 14577-5:2026-06 (E)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 5: Linear elastic dynamic instrumented indentation testing (DIIT) (ISO 14577-5:2022)

| Contents | | Page |
|--|--|-------------|
| Foreword..... | | iv |
| Introduction..... | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms, definitions and symbols | 1 |
| | 3.1 Terms and definitions..... | 1 |
| | 3.2 Symbols..... | 2 |
| 4 | Principle | 2 |
| 5 | Testing machine | 3 |
| 6 | Procedure of data evaluation and determination of materials parameter | 4 |
| | 6.1 General..... | 4 |
| | 6.2 Determination of dynamic indentation hardness, H_d | 4 |
| | 6.3 Designation of dynamic indentation hardness, H_d | 4 |
| | 6.4 Determination of dynamic reduced modulus, E_{rd} | 5 |
| | 6.5 Designation of dynamic reduced modulus, E_{rd} | 5 |
| 7 | Test procedure | 5 |
| 8 | Uncertainty of results | 6 |
| 9 | Test report | 7 |
| Annex A (informative) Estimation of dynamic behaviour of the actuator | | 8 |
| Annex B (informative) Estimation of uncertainty | | 9 |
| Bibliography | | 11 |