

ISO 1938-1:2026-05 (E)

Geometrical product specifications (GPS) - Dimensional measuring equipment - Part 1: Plain limit gauges of linear size

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 2 |
| 3.1 | Limits | 2 |
| 3.2 | Gauge types | 3 |
| 3.3 | Characteristics and function of gauges | 6 |
| 4 | Abbreviated terms and symbols | 7 |
| 5 | Design characteristics for gauges | 8 |
| 6 | Metrological characteristics | 9 |
| 6.1 | General | 9 |
| 6.2 | Metrological characteristic relative to the type of limit gauge (GO gauge or NO GO gauge) | 10 |
| 7 | Maximum permissible limits (MPL) on metrological characteristics | 14 |
| 7.1 | General | 14 |
| 7.2 | Values for calculation of MPL for limit gauges for internal features of size | 14 |
| 7.3 | Values for calculation of MPL of limit gauges for external features of size | 16 |
| 7.4 | Values for calculation of MPL of limit gauges | 18 |
| 8 | Proving conformance with specification for limit gauges | 21 |
| 9 | Verification of dimensional specification of a workpiece with limit gauges | 21 |
| 10 | Marking | 23 |
| | Annex A (informative) General principles and application of limit gauging | 24 |
| | Annex B (informative) Description of the specific use of the various gauge types and the associated uncertainty | 26 |
| | Annex C (informative) Relationship to the GPS matrix model | 29 |
| | Bibliography | 30 |