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DIN 5480-15

DIN

ICS 21.120.10

Supersedes
DIN 5480-15:1974-09**Involute splines based on reference diameters –
Part 15: Inspection**Passverzahnungen mit Evolventenflanken und Bezugsdurchmesser –
Teil 15: Qualitätsprüfung

Document comprises 38 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.



Previous editions

DIN 5480-15: 1974-09

1 Scope

This standard applies to involute splines and spline joints in accordance with DIN 5480-1 and DIN 5480-2. It defines the acceptance testing of such splines and describes the gauges to be used and their verification.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

DIN 3960, *Definitions, parameters and equations for involute cylindrical gears and gear pairs*

DIN 3961, *Tolerances for cylindrical gear teeth — Principles*

DIN 3967, *System of fits — Backlash, tooth thickness allowances, tooth thickness tolerances — Principles*

DIN 5480-1, *Involute splines based on reference diameters — Part 1: General*

DIN 5480-2, *Involute splines based on reference diameters — Part 2: Nominal and inspection dimensions*

DIN ISO 1101, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 4156 series, *Straight cylindrical involute splines — Metric module, side fit*

ISO 5459:1981-11, *Technical drawings — Geometrical tolerancing — Datums and datum-systems for geometrical tolerances*

3 Definitions and symbolic designations and units

3.1 Definitions

For the purposes of this standard, the following terms and definitions apply.

3.1.1 space width/tooth thickness

3.1.1.1

actual space width/actual tooth thickness

space width/tooth thickness measured on the pitch circle, excluding all individual deviations

3.1.1.2

effective space width/effective tooth thickness

space width/tooth thickness as maximum material requirement, including all superimposed individual deviations

3.1.1.3

actual centre point

centre of all tooth flanks, excluding all individual deviations