

DIN ISO 16063-22:2015-04 (E)

Methods for the calibration of vibration and shock transducers - Part 22: Shock calibration by comparison to a reference transducer (ISO 16063-22:2005 + Amd.1:2014)

Contents		Page
National foreword		3
National Annex NA (informative) Bibliography		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Uncertainty of measurement	7
5	Apparatus	8
5.1	General considerations	8
5.2	Anvil shock calibrators (100 m/s ² to 100 km/s ²)	8
5.3	Hopkinson bar shock calibrators	13
5.4	Oscilloscope	14
5.5	Waveform recorder with computer interface	14
5.6	Computer with data-processing capability	15
5.7	Filters	15
5.8	Other requirements	15
6	Ambient conditions	15
7	Preferred accelerations and pulse durations	15
8	Method	16
8.1	Test procedure	16
8.2	Data acquisition	16
8.3	Signal processing	16
9	Reporting the calibration results	20
Annex A (normative) Expression of uncertainty of measurement in calibration		21
Annex B (informative) Uncertainty examples -- Expression of uncertainty of measurement in calibration		24
Annex C (informative) Dispersion in bars"		27
Bibliography		29