

DIN ISO 21940-13:2012-08 (E)

Mechanical vibration - Rotor balancing - Part 13: Criteria and safeguards for the in-situ balancing of medium and large rotors (ISO 21940-13:2012)

Contents	Page
National foreword	3
National Annex NA (informative) Bibliography	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	8
4 In-situ balancing	8
4.1 General	8
4.2 Reasons for in-situ balancing	8
4.3 Objectives of in-situ balancing	9
5 Criteria for performing in-situ balancing	9
6 Safeguards	10
6.1 Safety of personnel while operating close to a rotating shaft	10
6.2 Special operating envelope for in-situ balancing	10
6.3 Integrity and design of the correction masses and their attachments	10
6.4 Machinery-specific safety implications	10
7 Measurements	11
7.1 Vibration measurement equipment	11
7.2 Measurement errors	11
7.3 Phase reference signals	12
8 Operational conditions	13
9 Reporting	14
9.1 General	14
9.2 Report introduction	15
9.3 Vibration measurement equipment	15
9.4 Results	15
9.5 Text information	16
Annex A (normative) Precautions and safeguards for specific machine types during in-situ balancing	18
Annex B (informative) Example of an in-situ balancing report for a boiler fan 1 MW	19
Annex C (informative) Example of an in-situ balancing report for a large 50 MW turbine generator set	23
Bibliography	29