

DIN EN ISO 13588:2013-11 (E)

Non-destructive testing of welds - Ultrasonic testing - Use of automated phased array technology (ISO 13588:20 12)

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4	Testing levels	5
5	Information required prior to testing	7
5.1	Items to be defined prior to procedure development	7
5.2	Specific information required by the operator before testing	7
5.3	Written test procedure	7
6	Requirements for personnel and equipment	8
6.1	Personnel qualifications	8
6.2	Equipment	8
7	Preparation for testing	8
7.1	Volume to be inspected	8
7.2	Verification of test set-up	9
7.3	Scan increment setting	9
7.4	Geometry considerations	9
7.5	Preparation of scanning surfaces	9
7.6	Temperature	9
7.7	Couplant	9
8	Testing of base material	10
9	Range and sensitivity settings	10
9.1	Settings	10
9.2	Checking of the settings	11
9.3	Reference blocks	11
10	Equipment checks	12
11	Procedure qualification	12
12	Weld testing	12
13	Data storage	13
14	Interpretation and analysis of phased array data	13
14.1	General	13
14.2	Assessing the quality of the phased array data	13
14.3	Identification of relevant indications	13
14.4	Classification of relevant indications	13
14.5	Determination of location and length of an indication	14
14.6	Indication assessment	14
14.7	Evaluation against acceptance criteria	14

15	Test report	14
Annex A (informative)	Typicalreferenceblocksandreferencereflectors	16
Bibliography		20