

The general purpose phased array **characterization block** has been especially designed to suit the needs of phased array ultrasonists. Facing the lack of appropriate tools on the market, HARFANG Microtechniques Inc. decided to launch a characterization block allowing the evaluation of performances characteristics of phased array ultrasonic examination.

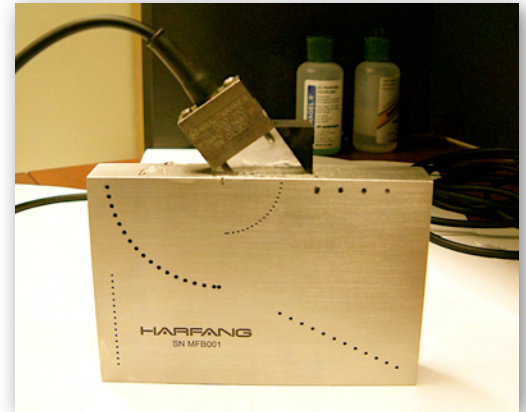
Characterization block

general purpose phased array characterization block

Advantages of the Characterization block

Many standard reference blocks can do the job, but rare are those really made for phased array. Why be embarrassed with up to five blocks when you can replace all them by one?

- Good to practice and understand phased array features
- Build DAC curves
- Reference to detect long-term changes in the characteristics of an instrument
- Determination of beam profile
- Evaluation of beam steering capability
- Evaluation of linear and angular resolution
- Evaluation of focusing ability



Main Features:

- Designed for phased array
- Four series of side drilled holes
- Four additional angled holes
- Polished with HARFANG and serial number written on it
- Small size and low weight
- Available in carbon steel, stainless and aluminium

Applications:

- Instrument performances evaluation
- Customers demonstration
- Focusing calibration
- Quality of signal verification
- Build DAC curves

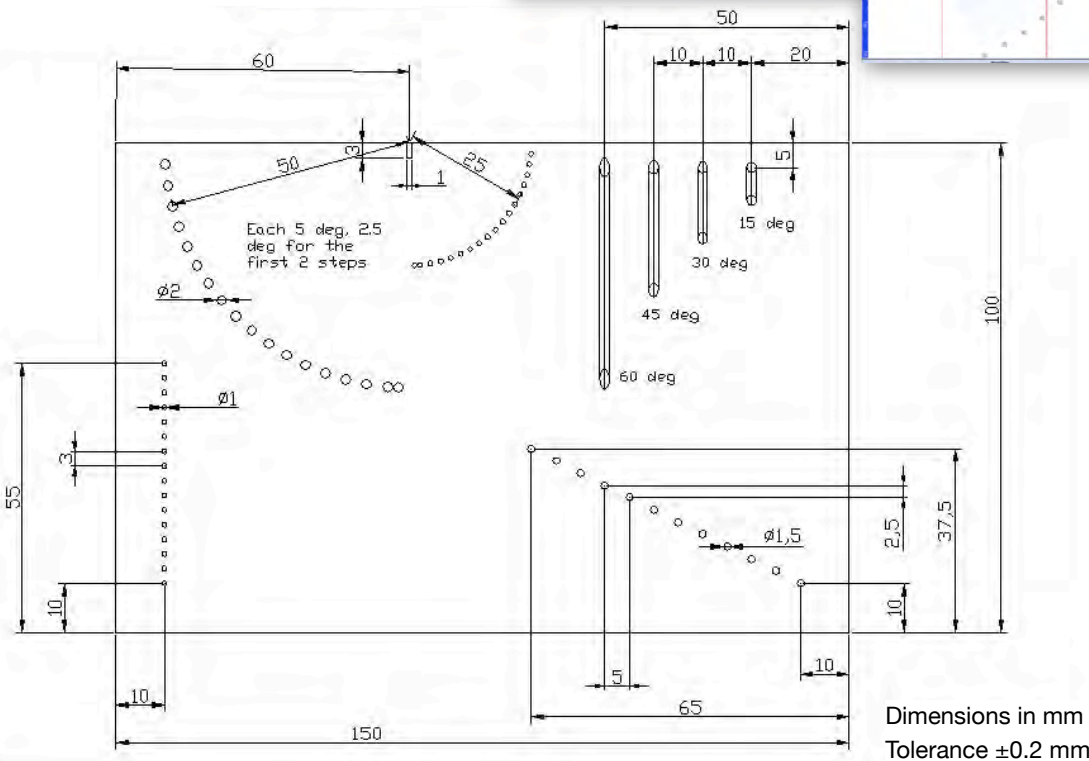
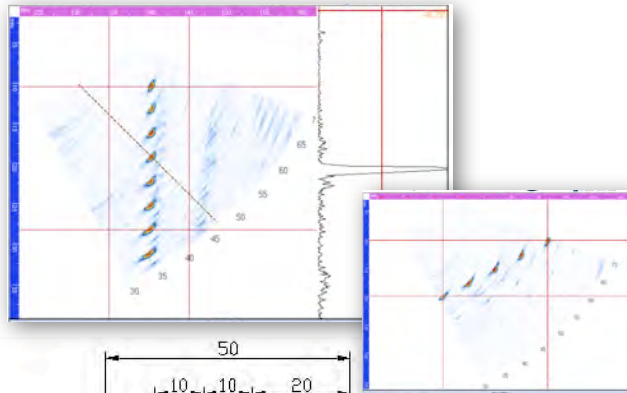


CHARACTERIZATION BLOCK PRODUCT SPECIFICATIONS

FOUR SERIES OF SIDE DRILLED HOLES	
Curved series	25 mm from fixed point, 18 holes of 1 mm diameter
	50 mm from fixed point, 18 holes of 2 mm diameter
Parallel series	10 mm from side/bottom, 16 holes of 1mm diameter
Angled series	Angled at either 30° or 60° from surfaces, 12 holes of 1.5 mm diameter
FOUR ADDITIONAL ANGLED HOLES	
Angles	4 holes of 2 mm diameter at 15°, 30°, 45° and 60°
GENERAL	
Weight	3 kg
Dimensions (W x H x D)	150 mm x 100 mm x 25 mm

X-32 Imaging

Using the **X-32** you can use the **characterization bloc** to build DAC curves, test different types of focusing or the quality of the signals depending on the settings. It is the perfect demonstration block, not too big, multi-functional, really made for phased array.



All specifications subject to change without notice. Please validate with HARFANG before ordering.

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The **X-32** is a multi-channel, high-performance, portable NDT flaw detector using phased array imaging. It's the result of the latest available technology and of the creativity and innovation of HARFANG Microtechniques Inc. The X-32 offers very high resolution and powerful software features to efficiently perform manual and encoded UT inspections, which is designed to meet the most demanding requirements of NDT.

Main Features:

- 32 active channels for transmission and reception
- Up to 128 channels in total with M-box option
- Integrated with 4 independent scans being displayed simultaneously
- 50 to 200V square pulsing
- Up to 2000 focal laws (beams)
- With 40 GB internal storage hard-disk, it can make a real-time continuous recording of the inspection
- A/B/D/S (sectorial), L (linear) and Top real-time and analysis views
- Reporting and analysis capabilities
- Multi-language display

Other Applications:

- Nuclear power generation
- Windmill
- Welding
- Heavy industry
- Aerospace industry
- Petrochemical industry
- Automotive components



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