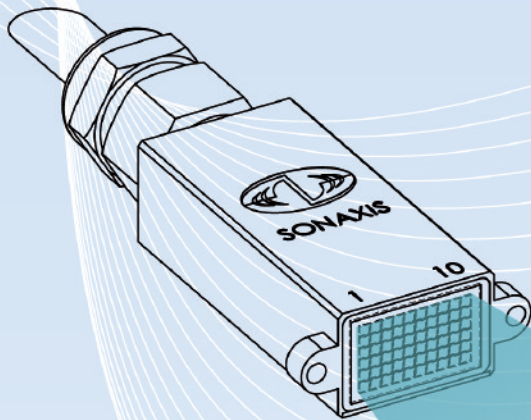


# Matrix (2D) Phased Array Transducers



64 element 2D phased array probe

- Ultrasonic Matrix (2D) Phased Array Transducers are dedicated to multi-angle inspections or 3D image reconstructions. Whenever a defect orientation is unknown, it is recommended to use the Matrix 2D Phased Array Technique which is capable of steering the beam in any direction and with any angle.
- Ultrasonic Matrix (2D) Phased Array transducers are available in the immersion or contact inspection technique. They are manufactured with the piezo-composite technology and can be plane, curved (convex or concave), or transversely focussed.
- These transducers can be provided with specific wedges, irrigation chambers, cables or adaptors and any accessory that may be needed for the industrial application.

Standard configurations are :

Frequency (MHz)	Minimum Pitch (mm)	Minimum Radius of curvature (mm)	Number of elements
1	1,6	40	16 - 32 - 64 - 128 - 256 - <b>512 - 1024</b>
2	0,8	25	16 - 32 - 64 - 128 - 256 - <b>512 - 1024</b>
3	0,8	10	16 - 32 - 64 - 128 - 256 - <b>512 - 1024</b>
5	0,6	10	16 - 32 - 64 - 128 - 256 - <b>512 - 1024</b>
7	0,6	10	16 - 32 - 64 - 128 - 256 - <b>512 - 1024</b>
10	0,5	5	16 - 32 - 64 - 128 - <b>256 - 512 - 1024</b>
15	0,5	5	16 - 32 - 64 - 128 - <b>256</b>
<b>20</b>	<b>0,5</b>	<b>5</b>	<b>16 - 32 - 64 - 128 - 256</b>

**New**