

TOFD Wedges

Phoenix produces a wide range of Time of Flight Diffraction wedges manufactured from durable plastic, brass or stainless steel. The wedges fit the universal Metric Threaded probes (M12, M20 and M30) and are suitable for use with the Phoenix range of TOFD probes.

- All TOFD wedges are supplied with M3 irrigation channels as standard



Technical Specification

- Sound Velocity: 2320m/s.
- Beam angles specified are for longitudinal waves.
- Nozzle fits a 2.5-3mm tube.
- Gimbal centre is 7.00mm from wedge base.
- Gimbal is 5mm Ø x 3.85mm long (hex 3mm key).
- All wedges are irrigated as standard and can be coupled with couplant gel or water as required.

Wedge Product Code	Beam Angle	Thread Size	To Fit Probe Types	W x L (mm)	Wedge Delay		Emission point (mm from front)
					mm	µs	
WTOFI 12/45	45°	M12	M12 DTOF and CDTOF 3-6mm Ø	30 x 20	7.1	3.06	8
WTOFI 12/60	60°						
WTOFI 12/70	70°				7.0	3.01	
WTOFI 20/45	45°	M20	M20 DTOF and CDTOF 9-12mm Ø	30 x 30	8.1	3.42	13
WTOFI 20/60	60°						
WTOFI 20/70	70°				3.25		
WTOFI 30/45	45°	M30	M30 DTOF and CDTOF 20mm Ø	40 x 45	7.5	3.25	20
WTOFI 30/60	60°						
WTOFI 30/70	70°						

Wedges can be contoured to suit any surface profile - Diameter and direction must be stated.

Accessories

- Wear Plates or Couplant Skids must be ordered with the wedge as the addition of M3 x 5 deep hole is required. Wear plates are available for the front and rear of the wedge.
- Side Skids are available but incompatible with tool-post applications.