

Phased Array - Probes and Accessories
for manual and mechanized testing

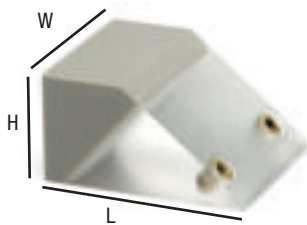
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Phased Array Probes with wedges



Probe 1481.251

Prüfköpfe						
Order No.	Elements	Element Pitch x Width	Frequency	Bandwidth	Plug Type	Cable length
1481.251	16	0,90 x 10 mm	2 MHz	75 %	IPEX	3 m
1481.2512	16	0,90 x 10 mm	2 MHz	75 %	Hypertronics	3 m
1481.551	16	0,75 x 10 mm	5 MHz	80 %	IPEX	3 m
1481.5512	16	0,75 x 10 mm	5 MHz	80 %	Hypertronics	3 m
1482.501	32	0,60 x 8 mm	5 MHz	80 %	IPEX	3 m
1483.551	64	0,60 x 10 mm	5 MHz	80 %	IPEX	3 m



Angle beam wedge 1814.131

Angle Beam Wedges						
Order No.	for probe type	Incidence Angle*	Material	Threads, Distances	Dimensions L x W x H	Water irrigation
1814.131	1481.xxx	50°	Perspex	M3, 22 mm	38 x 30 x 20 mm	-
1814.132	1481.xxx	50°	Perspex	M3, 22 mm	38 x 30 x 20 mm	yes
1814.221	1482.xxx	55°	Polystyrene	M3, 22 / 10 mm	53 x 30 x 27 mm	-
1814.222	1482.xxx	55°	Polystyrene	M3, 22 / 10 mm	53 x 30 x 27 mm	yes
1814.321	1483.xxx	55°	Polystyrene	M3, 38 / 26,5 mm	96 x 35 x 48 mm	-
1814.322	1483.xxx	55°	Polystyrene	M3, 38 / 26,5 mm	96 x 35 x 48 mm	yes

* Incidence angle of shear wave in steel



Delay line 1814.301

Delay lines for straight beam incidence						
Order No.	for probe type	Incidence Angle*	Material	Threads, Distances	Dimensions L x W x H	Water irrigation
1814.201	1482.xxx	0°	Polystyrene	M3, 22 mm / 10 mm	57 x 30 x 20 mm	-
1814.203	1482.xxx	0°	Polystyrene	M3, 22 mm / 10 mm	57 x 30 x 20 mm	yes
1814.301	1483.xxx	0°	Polystyrene	M3, 38 mm / 26,5 mm	70 x 35 x 15 mm	-
1814.302	1483.xxx	0°	Polystyrene	M3, 38 mm / 26,5 mm	85 x 35 x 30 mm	-
1814.303	1483.xxx	0°	Polystyrene	M3, 38 mm / 26,5 mm	85 x 35 x 30 mm	yes

* Incidence angle of longitudinal wave in steel

For testing on curved surfaces the wedges can be delivered with customer specific convex or concave radius.

Phased Array Probes for mechanized testing with water coupling



Probe 1598.649



Probe 1598.732



Probe 1598.679



Water Nozzle for probe 1598.666 and 1598.649 with customer specific radius, e.g. for mechanized testing of longitudinal tube welds

Probes									
Order No.	Elements	Element Pitch x Width	Frequency	Bandwidth	Cable length	Dimensions L x W x H	Radius	Ring Segment	Plug type
1598.666	16	1,40 x 8 mm	2 MHz	75 %	4 m	30 x 20 x 40 mm *)	-	-	Hypertronics
1598.649	32	0,70 x 8 mm	4 MHz	75 %	4 m	30 x 20 x 40 mm *)	-	-	Hypertronics
1598.732	64	1,0 x 15 mm	4 MHz	75 %	4 m	84 x 26 x 57 mm	-	-	Hypertronics
1598.731	128	1,0 x 15 mm	4 MHz	75 %	4 m	148 x 26 x 57 mm	-	-	Hypertronics
1598.679	64	0,9 x 12 mm	5 MHz	75 %	4 m	90 x 23 x 47 mm **)	60 mm	55°	Hypertronics

*) Housing dimension without flange

***) Height from apex of the curved transducer surface

The probes comply with the standards ASTM E2491-13 and DIN EN 16392-2:2014.
Further probes, wedges and water nozzles on request.

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TOFD Accessories



TOFD Caliper with 2 probes, 2 wedges, 2 probe cables and position encoder



TOFD Probe Holder

Order No.	Description
6148.510	TOFD Caliper with position encoder

TOFD Probes

Order No.	Description
6148.610	TOFD probe, 2 MHz, Ø 6 mm, M12, Lemo 00
6148.615	TOFD probe, 5 MHz, Ø 6 mm, M12, Lemo 00
6148.620	TOFD probe, 10 MHz, Ø 3 mm, M12, Lemo 00
6148.625	TOFD probe, 15 MHz, Ø 3 mm, M12, Lemo 00
1616.010	Coaxial cable Lemo 00 / Lemo 00, length 1 m

TOFD Wedges with water irrigation

Order No.	Description
6148.650	TOFD wedge, 45° longitudinal wave in steel
6148.655	TOFD wedge, 60° longitudinal wave in steel
6148.660	TOFD wedge, 70° longitudinal wave in steel

Combined testing with Phased Array and TOFD

Probe holders with double gimbal suspension



for Phased Array probes 1481.xxx



for TOFD wedges 6148.xxx



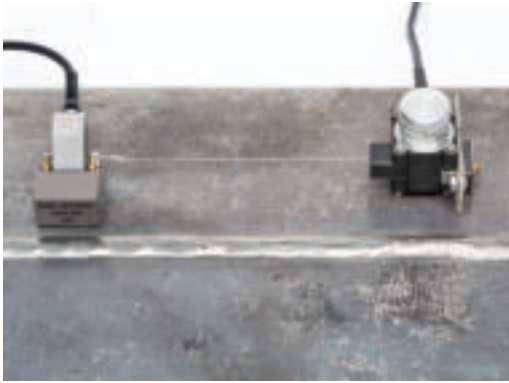
Scanner for manual testing of circumferential tube welds **with** position encoder and suspensions for 2 Phased Array probes and 2 TOFD probes



Scanner for manual testing of longitudinal tube welds **with** position encoder and suspensions for 2 Phased Array probes and 2 TOFD probes

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Accessories



Wire encoder with magnetic foot, scan length 500 mm, 40 pulses/mm, **Order No.1885.002**



Wheel encoder



Roller probe for circumferential testing of bars and tubes



Roller probe for longitudinal testing of bars and tubes



Roller probe for testing on plane surfaces

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