

Your Vision, Our Future

Spotweld Transducers

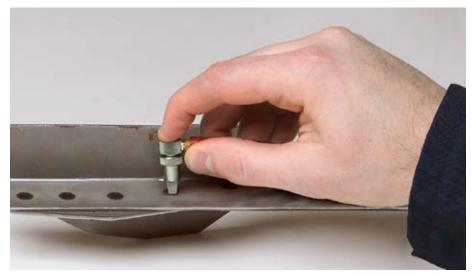
For Ultrasonic Testing



Olympus NDT ultrasonic spotweld transducers are specifically designed to provide optimal performance for nondestructive testing of numerous types of spotwelds, including those used in automotive and industrial applications. Ultrasonic inspection of spotwelds involves the analysis of what is known as the "ringdown" of sound within the weld nugget. Unlike many other direct measurement techniques, spotweld inspection looks at the characteristics of the multiple echoes returned from sound



energy ringing within the weld nugget. Echo spacing, sound attenuation, and intermediate echo detection are some of the indicators of weld quality that are analyzed by trained inspectors.



Ultrasonic spotweld inspection can quickly and nondestructively provide valuable information about weld quality.

PANAMETRICS-NDT[™]

Our new Panametrics-NDT transducers have excellent signal-to-noise ratios due to broadband design, which is critical for distinguishing good welds from poor welds. These transducers are available in a multitude of sizes in 0.5 mm increments to ensure that the proper transducers are available for a variety of weld nugget sizes. Element sizes are engraved with both English and metric units for worldwide use. The versatile design of these spotweld transducers allows them to be used with either a soft membrane captive water column or a hard tip delay line. Panametrics-NDT transducers, delay lines, and water columns are sold separately.

HARISONIC®

Olympus NDT also offers a series of PVDF (polymer) transducers from the Harisonic line specifically for use with custom captive water column systems. These polymer transducers are very high resolution transducers due to the very broad bandwidth of the PVDF elements. These Harisonic probes are only for use with captive water columns, which come standard with the purchase of the transducer.



PANAMETRICS-NDT TM Select either delay line or water column. (Transducers, delay lines, delay line retaining rings, water columns, and membranes need to be ordered separately.)									
TRANSDUCER	FREQUENCY MH7	DIAMETER (MM)	DIAMETER (INCHES)	DELAY LINE* Choose Appropriate Diameter	DELAY LINE BETAINING BING	WATER COLUMN			

TRANSDUCER PART NUMBER	FREQUENCY MHZ	DIAMETER (MM)	DIAMETER (INCHES)	DELAY LINE* Choose Appropriate Diameter		DELAY LINE RETAINING RING	WATER COLUMN Order Membranes (below)
V2325	15	2.5	0.098	SWDL-25 (2.5 mm)	SWDL-27 (2.7 mm)	SWRR-1	DLCW-1003
V2330	15	3	0.118	SWDL-30 (3.0 mm)	SWDL-32 (3.2 mm)	SWRR-1	DLCW-1003
V2335	15	3.5	0.138	SWDL-35 (3.5 mm)	SWDL-37 (3.7 mm)	SWRR-2	DLCW-2003
V2340	15	4	0.157	SWDL-40 (4.0 mm)	SWDL-42 (4.2 mm)	SWRR-2	DLCW-2003
V2345	15	4.5	0.177	SWDL-45 (4.5 mm)	SWDL-47 (4.7 mm)	SWRR-2	DLCW-2003
V2350	15	5	0.197	SWDL-50 (5.0 mm)	SWDL-52 (5.2 mm)	SWRR-2	DLCW-2003
V2355	15	5.5	0.217	SWDL-55 (5.5 mm)	SWDL-57 (5.7 mm)	SWRR-2	DLCW-2003
V2360	15	6	0.236	SWDL-60 (6.0 mm)	SWDL-62 (6.2 mm)	SWRR-2	DLCW-2003
V2365	15	6.5	0.256	SWDL-65 (6.5 mm)	SWDL-67 (6.7 mm)	SWRR-3	DLCW-3003
V2380	15	8	0.315	SWDL-80 (8.0 mm)	SWDL-82 (8.2 mm)	SWRR-3	DLCW-3003
V2425	20	2.5	0.098	SWDL-25 (2.5 mm)	SWDL-27 (2.7 mm)	SWRR-1	DLCW-1003
V2430	20	3	0.118	SWDL-30 (3.0 mm)	SWDL-32 (3.2 mm)	SWRR-1	DLCW-1003
V2435	20	3.5	0.138	SWDL-35 (3.5 mm)	SWDL-37 (3.7 mm)	SWRR-2	DLCW-2003
V2440	20	4	0.157	SWDL-40 (4.0 mm)	SWDL-42 (4.2 mm)	SWRR-2	DLCW-2003
V2445	20	4.5	0.177	SWDL-45 (4.5 mm)	SWDL-47 (4.7 mm)	SWRR-2	DLCW-2003
V2450	20	5	0.197	SWDL-50 (5.0 mm)	SWDL-52 (5.2 mm)	SWRR-2	DLCW-2003
V2455	20	5.5	0.217	SWDL-55 (5.5 mm)	SWDL-57 (5.7 mm)	SWRR-2	DLCW-2003
V2460	20	6	0.236	SWDL-60 (6.0 mm)	SWDL-62 (6.2 mm)	SWRR-2	DLCW-2003
V2465	20	6.5	0.256	SWDL-65 (6.5 mm)	SWDL-67 (6.7 mm)	SWRR-3	DLCW-3003

Captive Water Column Membranes (Includes O-Rings)

fits DLCW-1003		fits DLCW-2003		_	fits DLCW-3003		
PART NUMBER	DESC. (QTY.)	PART NUMBER	DESC. (QTY.)		PART NUMBER	DESC. (QTY.)	
DLCW-1003-MK25	25 Std.	DLCW-2003-MK25	25 Std.		DLCW-3003-MK25	25 Std.	
		DLCW-2003-MK50	50 Std.		DLCW-3003-MK50	50 Std.	
DLCW-1003-MK50	50 Std.	DLCW-2003-MKX25	25 Hvy. Duty		DLCW-3003-MKX25	25 Hvy. Duty	
DLCW-1003-MKX25	25 Hvy. Duty	DLCW-2003-MKX50	50 Hvy. Duty		DLCW-3003-MKX50	50 Hvy. Duty	
DLCW-1003-MKX50	50 Hvy. Duty	22011 2000 111000	55	-	22011 0000 111000	00	

PANAMETRICS-NDT

HARISONIC[®] (Purchase of transducer includes water column, one O-ring, and one membrane. Purchase of additional membranes is recommended.)

FREQUENCY MHz	SIZE (MM)
20	3.15
20	3.6
20	4
20	4.5
20	5
20	5.6
20	6.3
	20 20 20 20 20 20 20 20

PVDF WATER COLUMN	O-RINGS		MEMBRANES	
PART NUMBER	PART NUMBER	DESC. (QTY.)	Part Number	DESC. (QTY.)
UAV 2121	HAX-3134	10	HAX-3140	10
HAX-3131	HAX-3135	25	HAX-1991	25
HAX-3132	HAX-3136	10	HAX-3142	10
	HAX-3137	25	HAX-2002	25
UAX 2142	HAX-3138	10	HAX-3140	10
ПАЛ-3143	HAX-3139	25	HAX-3103	25
	WATER COLUMN PART NUMBER HAX-3131	WATER COLUMN O-RI PART NUMBER PART NUMBER HAX-3131 HAX-3134 HAX-3131 HAX-3135 HAX-3132 HAX-3136 HAX-3143 HAX-3138	WATER COLUMN O-RINGS PART NUMBER PART NUMBER DESC. (QTY.) HAX-3131 HAX-3134 10 HAX-3132 HAX-3135 25 HAX-3132 HAX-3136 10 HAX-3137 25 HAX-3143 HAX-3138 10	WATER COLUMN O-RINGS MEMB PART NUMBER PART NUMBER DESC. (QTY.) PART NUMBER HAX-3131 10 HAX-3140 HAX-3132 10 HAX-3140 HAX-3135 25 HAX-1991 HAX-3132 HAX-3136 10 HAX-3142 HAX-3137 25 HAX-2002 HAX-3140 HAX-3143 HAX-3138 10 HAX-3140

🙏 harisonic



www.olympusNDT.com

info@olympusNDT.com

OLYMPUS NDT 48 Woerd Avenue • Waltham, MA 02453 • USA Tel.: (1) 781-419-3900 • Fax: (1) 781-419-3980 12569 Gulf Freeway • Houston, TX 77034 • USA Tel.: (1) 281-922-9300 • Fax: (1) 952-487-8877 OLYMPUS NDT U.K. LTD. 12 Nightingale Close • Rotherham, South Yorkshire S60 2AB • UK OLYMPUS SINGAPORE PTE. LTD. 491B River Valley Road 12-01/04, Valley Point Office Tower, 248373 • Singapore OLYMPUS AUSTRALLA PTY. LTD. PO Box 985 • Mount Waverley, VIC 3149 • Australia