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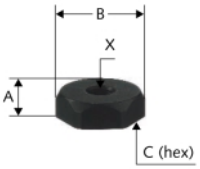
Mounting Accessories

Type 8400...
8500....
8600...

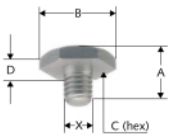
Accelerometer Mounting Accessories

Description
The most important consideration when installing an accelerometer on a test structure is to have a quality mounting surface for attachment. The primary goal is to achieve a maximum useable frequency response for performing a vibration measurement. Since the condition of the mounting surface affects transmissibility, a variety of adhesive mounting pads, clips, magnetic bases, studs and triaxial cubes with accurately prepared mounting surfaces are available for use in a wide range of applications.

Adhesive Mounting Pads
Provide ground isolation for the accelerometer. They are attached to the test surface with an adhesive usually on surfaces less than ideal for direct mounting of the accelerometer. Pads are used in applications where multiple locations are to be measured using only one accelerometer.



Types
8434 ... 8438

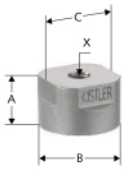


Types
8439...8440

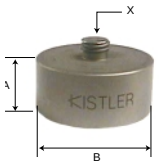
TYPE	A	B	C	D	THD. X	WT. (grams)	RECOMMENDED SENSORS
8434	0.19	0.49	0.44	—	5-40	1.25	8636, 8730, 8791
8436	0.19	0.62	0.56	—	10-32	1.96	8202, 8274, 8702, 8704, 8774, 8776, 8784, 8786
8438	0.31	0.83	0.75	—	¼-28	5.78	8203, 8710, 8712, 8752, 8795 (w/ 8410 stud)
8439	0.2	0.28	0.25	0.06	M3	0.18	8614, 8694
8440	0.2	0.28	0.25	0.06	4-40	0.18	8614, 8694

Note: All types are hard anodized aluminum. Types 8434, 8436, and 8438 are used when ground isolation of an accelerometer is desired or in applications where it is not practical or feasible to provide a threaded mounting hole. The pad is secured by application of an adhesive, i.e. Loctite, to its specially designed mounting surface. Types 8439 and 8440 are used when ground isolation or stud mounting with the contact surface is desired.

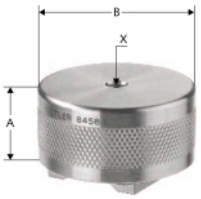
Magnetic Mounting Bases
Offer a convenient but temporary attachment to a test structure. A dual rail unit is available for mounting on curved surfaces. Magnetic bases find use in applications requiring vibration monitoring of large rotating machinery.



Types
8450 ... 8452



Types 8456



Type 8458

	A	B	C	THD X.	Holding Force (lbf)	WT (grams)	RECOMMENDED SENSORS
8450	0.30	0.50	0.437	5-40	6	6	8636, 8730
8452	0.44	0.70	0.625	10-32	12	19	8202, 8274,8290, 8702,8704, 8774, 8776, 8784, 8786, 8795
8456	0.44	0.98	-	¼-28 stud	30	57	8203, 8710,8712, 8752
8458	1.06	1.86	-	¼-28 hole	40	102	8203, 8710, 8712, 8752

Note: All types are 17-4 PH stainless steel. Types 8450A, 8452A, 8456 and 8458 are used when quick and easy attachment, to and from the object to be measured is desired. The 8458 is designed for curved surfaces.

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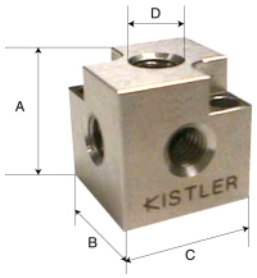
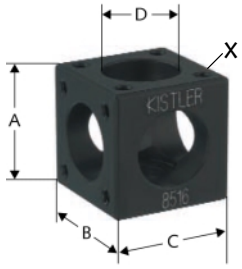
Triaxial Mounting Cubes for Piezoelectric Accelerometers
Allow two or three single axis accelerometers to be precisely mounted to perform biaxial or triaxial acceleration measurements. Cube attachment to the test surface can either be by stud or adhesive for some types. Accelerometer attachment to the cube can be in similar manner.



	A	B	C	D	THD X.	WT (grams)	Material	RECOMMENDED SENSORS
8502	1.00	1.00	1.00	1.00	10-32	117	303 St stl.	8202, 8284,8286, 8702,8704, 8774,8784, 8786
8504	0.57	0.57	0.57	0.55	10-32	20	303 St stl.	8044, 8742,8743, 8774
8506	1.13	1.13	1.13	1.15	1/4-28	158	303 St stl.	8203, 8710,8712
8508	0.25	0.25	0.25	-	-	2.0	17-4 PH St stl.	8614
8510	0.57	0.57	0.57	0.56	5-40	19	316 St stl.	8636, 8730
8514	0.68	0.68	0.68	0.725	10-32	35	303 St stl.	8202, 8702, 8704, 8774
8524	0.44	0.44	0.44	-	10-32	2.8	Al. anodized	8274, 8774, 8776
8526	0.44	0.44	0.44	-	-	2.8	Al. anodized	8276, 8776

Types 8502 through 8526 are used when orthogonal measurements in the three principle axes are desired.
Type 8514 mounting screw holes are counter-bored; top of socket head screws are below accelerometer mounting surface.

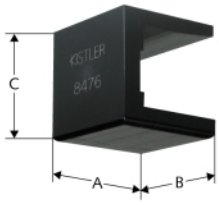
K-Beam™ Mounting Cubes for Capacitive Accelerometers
Allow two or three single axis accelerometers to be precisely mounted to perform biaxial or triaxial acceleration measurements. Cube attachment to the test surface can either be by stud or adhesive for some types. Accelerometer attachment to the cube can be in similar manner.



	A	B	C	D	THD X.	WT (grams)	RECOMMENDED SENSORS
8516	1.00	1.00	1.00	0.594	4-40	20	8305, 8324
8518	1.00	1.00	1.00	0.594	4-40	26.3	8310, 8312
8530	1.30	1.30	1.30	0.870	4-40	38	8330

Note: material all types have a hard Anodized Aluminum block

Mounting Clips
Provide a convenient way to install single axis cube shaped accelerometers on a test structure. Attached using adhesive, they find use in large multichannel modal measurements. Mounting clips can be paired allowing two accelerometer to be oriented to perform a biaxial measurement.



	A	B	C	D	WT (grams)	RECOMMENDED SENSORS
8474	0.768	0.700	0.730	5.00	5	8772
8476	1.00	1.00	1.00	1.00	10	8690
8478	0.790	0.760	0.828	7.00	7	8632

Note: material all types are Black Delrin

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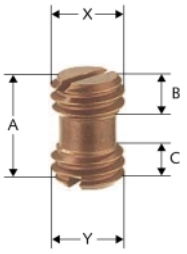
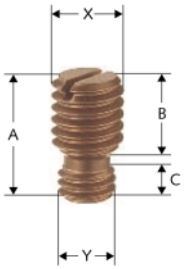
Mounting Studs & Stud Adaptor

Stud mounting is the preferred mounting of an accelerometer to a test structure. With properly prepared mounting surfaces, mounting torque correctly observed, it yields the broadest useable frequency range. Studs are available in different thread sizes; with English and Metric threads at opposite ends or as a thread converting insert. Types 8402 through 8421 are used to form a rigid connection between the accelerometer and the test object.

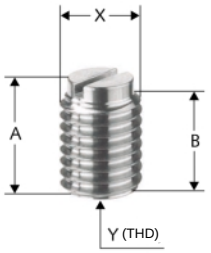
	A	B	C	THD. X	THD. Y	Material	RECOMMENDED SENSORS
8402	0.28	0.10	0.10	10-32	10-32	BeCu	8202, 8284,8290, 8692,8702, 8704 8770, 8762,8776, 8784,8786, 8795
8404	0.28	0.10	0.10	10-32	10-32	17-4 PH	8044
8410	0.25	0.08	0.13	1/4-28	10-32	BeCu	8203, 8710,8712



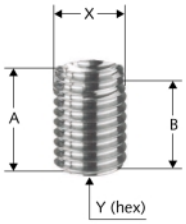
	A	B	C	THD. X	THD. Y	Material	RECOMMENDED SENSORS
8411	0.43	0.25	0.13	10-32	M6	BeCu	8202, 8702, 8704, 8762, 8770, 8774, 8784, 8786, 8795, 8798
8416	0.26	0.13	0.09	5-40	10-32	316 St Stl	8636
8418	0.28	0.15	0.09	5-40	M6	316 St Stl	8636
8421	0.52	0.25	0.18	M8	1/4-28	BeCu	8203, 8710, 8712, 8752



	A	B	THD. X	THD. Y	Material	RECOMMENDED SENSORS
8414	0.375	0.32	1/4-28	10-32	17-4 PH	8710, 8712, 8752

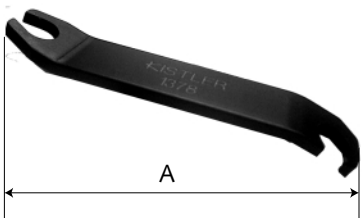


	A	B	C	THD. X	THD. Y	Material	RECOMMENDED SENSORS
8412	0.375	-	-	1/4-28	-	18-8 St. Stl.	8203, 8710,8712, 8752
8420	0.375	-	-	5-40	-	18-8 St. Stl.	8636



Removal Wrench for miniature accelerometer

	A	RECOMMENDED SENSORS
1378	2.50	8778



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