

Accelerometer Mounting Accessories

Description

Accelerometer Mounting Accessories are provided by SKF Condition Monitoring Custom Products to assist our customers with the installation of permanently installed accelerometers. These accessories will simplify acquiring the various components required to complete the job quickly and properly.

The following list itemizes the accessories that may be required for an accelerometer installation:

- Accelerometer Mounting Pads
- Acrylic Epoxy Bypacs
- Silicone Dielectric
- Accelerometer Mounting Studs
- Piloted End Mill Spot Reamers
- NEMA 4X Junction Boxes
- Liquid Tight Connectors
- Ceramic Wire Nuts
- Tie Wraps
- Spiral Wrap

CMCP200 Accelerometer Mounting Pads

Accelerometer Mounting Pads are used for glue (epoxy) mounting accelerometers to a prepared surface. Mounting pads are stainless steel and are 1" (2.54cm) in diameter, and either 1/4" (0.64cm) or 3/8" (0.95cm) thick.

The pads are lapped on one side to provide an ideal mounting surface for the accelerometer attachment. The pads are tapped with a 1/4"x28 UNF hole for accelerometer mounting.

The 1/4" thick version is recommended for low clearance installations or when using the combination epoxy and stud mounting method. The 3/8" thick version is recommended for

CMCP200	XX	Description
	01	1" Dia. x 1/4" Thick
	02	1" Dia. x 3/8" Thick

installing ring mode accelerometers.

Ordering Information

CMCP210 Acrylic Adhesive Bypacs

Acrylic 406/17 Adhesive Bypacs are an easy to use solution for gluing Accelerometer Mounting Pads to a prepared surface area on a bearing housing. The adhesive is prepared inside the Bypac by removing the plastic separator and kneading together the two adhesive components. A corner of the bag is then removed to allow easy dispensing of the mixture. Each Bypac will glue (1-2) Accelerometer Mounting Pads. A Material Safety Data Sheet (MSDS) for this product will be supplied upon request. Shelf life is

CMCP210	406/17 Adhesive Bypac
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CMCP212 Silicone Dielectric

High frequency applications require that a thin coating of Silicone Dielectric be applied between the accelerometer and the mounting surface before mounting the accelerometer to the proper torque. The dielectric helps insure the transmittal of high frequency vibration across the mounting interface. When an accelerometer is installed in harsh or moist environments, Silicone Dielectric is also recommended for additional sealing of the accelerometer's connector.

Each one ounce tube of Silicone dielectric will install approximately 50 - 100 accelerometers. When also used as a connector sealant, each tube will accommodate approximately 15-25 accelerometers.

Ordering Information

CMCP212	Silicone Dielectric, 1 oz.
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CMCP230 Accelerometer Mounting Studs

Accelerometer mounting studs are used to mount the 1/4" mounting pads directly to the tapped bearing housing in combination with epoxy. The 3/4" long stud provides the proper length for mounting the pad to the bearing surface and in turn the stud to the accelerometer. Allen studs are made of stainless steel and have 1/4"x28 UNF threads. Allen head studs are provided in packs of (10) ten.

Ordering Information

CMCP230	10 Mounting Studs
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CMCP701 Piloted End Mill Spot Reamer

Piloted End Mill Aircraft Spot Reamers are used to mill a 1" (2.54cm) smooth flat area on bearing housings. The flat area will accept a stud mounted, or a glue (epoxy) mounted accelerometer to a mounting pad. A 7/32" drill and pilot along with the end mill are included in each kit. The 7/32" drilled hole can then be tapped with a 1/4"-28 UNF starter and bottom tapped for stud mounted accelerometers.

Ordering Information

CMCP701	Piloted End Mill
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CMCP220 Accelerometer Adhesive Mount Kit

The CMCP220 Kit provides all the items necessary for adhesive mounting of 10,32, 64, or 128 accelerometers.

Ordering Information

CMCP200	XX	XX	Description
	10		10 Accelerometer Kit
	32		32 Accelerometer Kit
	64		64 Accelerometer Kit
	128		128 Accelerometer Kit
		01	1/4" Mounting Pads
		02	3/8" Mounting Pads

Accelerometer Mounting Accessories

CMCP260 NEMA 4X Junction Box

NEMA 4X Fiberglass Junction Boxes are designed for use in corrosive environments. Screw covers are hinged on one side and provided with an oil resistant "O" ring gasket. The fiberglass box is easily drilled to accept water resistant cable entries. The boxes are gray in color and are provided with stainless steel screws and mounting feet.

Ordering Information

CMCP260	XX	Description
	01	6"H x 6"W x 4"D
	02	8"H x 6"W x 4"D
	03	10"H x 8"W x 6"D

CMCP261 Liquid Tight Strain Relief Connectors

The CMCP261 are used for making direct accelerometer or transducer extension cable entries into a CMCP260 Junction Box. Long cable runs or cables other than actual extension cables should be installed in conduit. Connectors are constructed of Polyamide and provide both environmental sealing and strain relief. The connectors are temperature rated from minus 40°F to +212°F (-60°C to +100°C). They are pressure rated to 150 PSIG.

Ordering Information

CMCP261	XX	Min. OD	Max. OD
	01	0.08" (2mm)	0.20" (5mm)
	02	0.16" (4mm)	0.31" (8mm)
	03	0.20" (5mm)	0.35" (9mm)
	04	0.28" (7mm)	0.47" (12mm)
	05	0.35" (9mm)	0.70" (18mm)
	06	0.51" (13mm)	0.78" (20mm)

CMCP270 Ceramic Wire Nuts

Ceramic wire nuts are recommended for paper machine applications to connect accelerometer extension cables to the CMCP400 20 AWG instrument cable. The wire nuts have no metal parts and are not subject to corrosion.

Ordering Information

CMCP270	Pack of 100 Ceramic Wire Nuts

CMCP271 Tefzel® Tie Wraps

Tefzel tie wraps are when high temperatures and harsh environments are a factor. Tefzel tie wraps are rated for -50°F to +302°F (-46°C to +150°C).

Ordering Information

CMCP271	XX	Description
	01	4" Small
	02	7.25" Medium
	03	14.5" Large

CMCP272 Spiral Wrap

Spiral Wrap is recommended for instrument wire protection where it is subject to bending or abrasion. The material is polyethylene.

Ordering Information

CMCP272	XX	Description
	01	3/8" x 80'
	02	1/2" x 65'

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