

Congratulations on your purchase of a Stegmann encoder. All Stegmann encoders are 100% factory tested and have a full one-year warranty against defects in material and workmanship. These installation instructions are provided as a general guideline. Refer to the Stegmann datasheet for your particular model for further mounting details and drawings. These datasheets are available at www.stegmann.com or by contacting Stegmann directly at **(800) 811-9110**.

General Guidelines



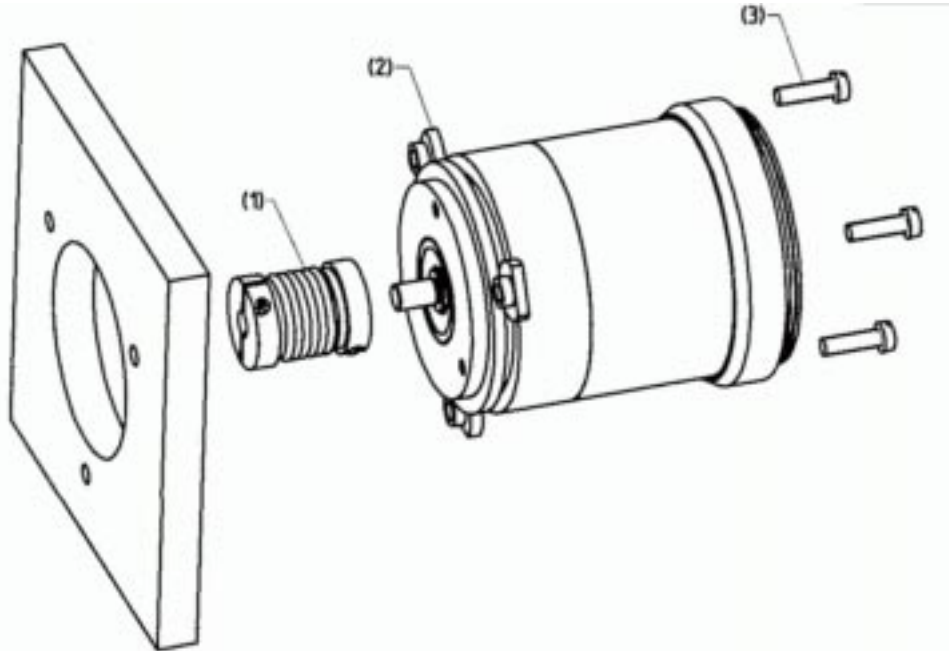
- ❑ **Do not shock encoder!**
- ❑ **Do not subject encoder to axial or radial shaft stresses!**
- ❑ **Do not disassemble the encoder!**
- ❑ **Do not use a rigid coupling!**
- ❑ **Do not machine the encoder or shaft!**
- ❑ **Do not use makeshift techniques to mount the encoder!**

Every installation is unique, so it is not possible to provide details to cover every situation. Following these guidelines, combined with common sense and care during installation, will insure that your quality Stegmann encoders last a long time.

Flexible couplings, servo cleats, mounting screws, mating connectors, and other installation hardware are not included with the encoder. However, these accessories are available from Stegmann and can be ordered separately. Contact Stegmann at **(800) 811-9110**.

DO NOT return any products to Stegmann without a Return Material Authorization. Contact Stegmann for assistance.

Typical Mounting Installations



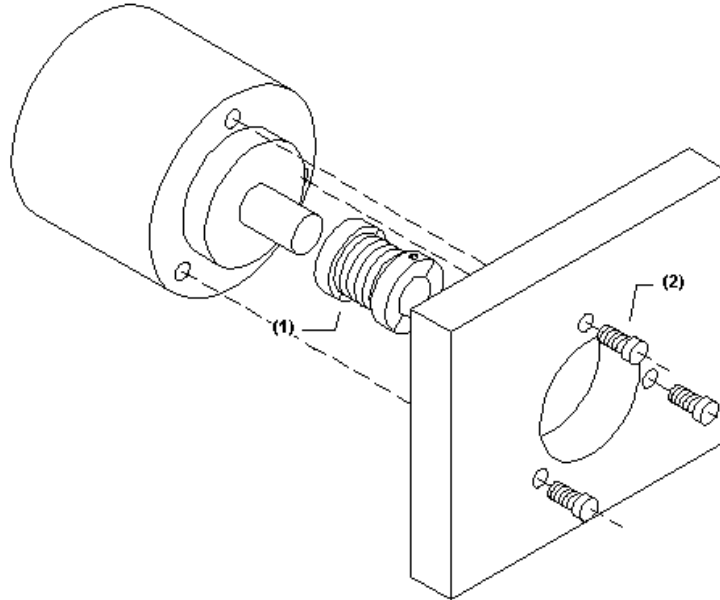
Encoders with servo mount

1. Lock the drive shaft on the machine side.

Never directly connect the encoder shaft to the machine. Always use a flexible coupling.

2. Mount the coupling (1) on the encoder. Take care that it does not touch the encoder face.
3. Attach the servo clamps (2) with screws (3) to the mounting surface. Do not tighten screws.
4. Rotate servo clamps (2) so that the encoder can be pushed into the pilot.
5. Push encoder into the pilot, and rotate servo clamps (2) into the servo groove and tighten them slightly.
6. Fix the coupling (1) to the drive shaft making sure to minimize any angular or parallel misalignment so that they are within the tolerances of both the coupling and the encoder.
7. Tighten all 3 screws on the servo clamps.

Typical Mounting Installations



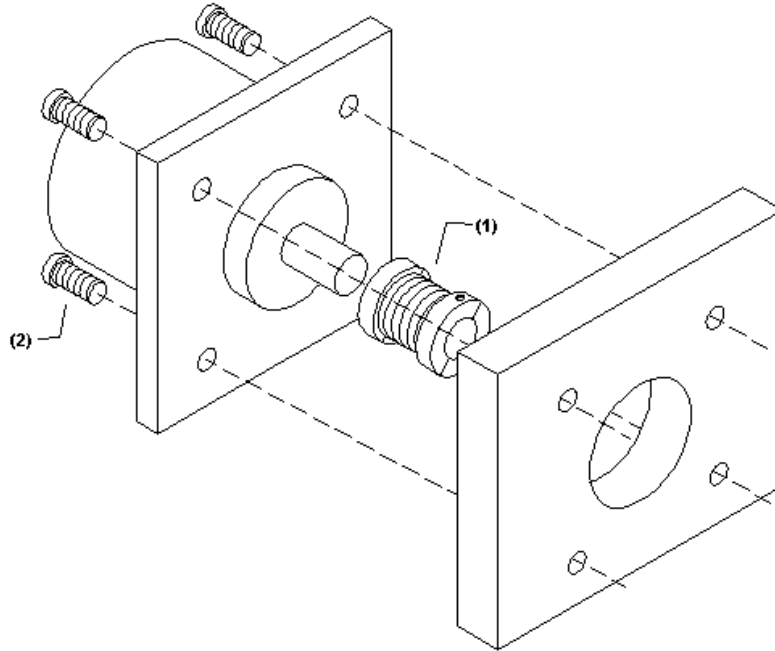
Encoders with face flange mount

1. Lock the drive shaft on the machine side.

Never directly connect the encoder shaft to the machine. Always use a flexible coupling.

2. Mount the coupling (1) on the encoder. Take care that it does not touch the encoder face.
3. Push the encoder with mounted coupling (1) into the pilot.
4. Fix the coupling (1) to the drive shaft making sure to minimize any angular or parallel misalignment so that they are within the tolerances of both the coupling and the encoder.
5. Fix encoder to mounting surface with proper screws.

Typical Mounting Installations



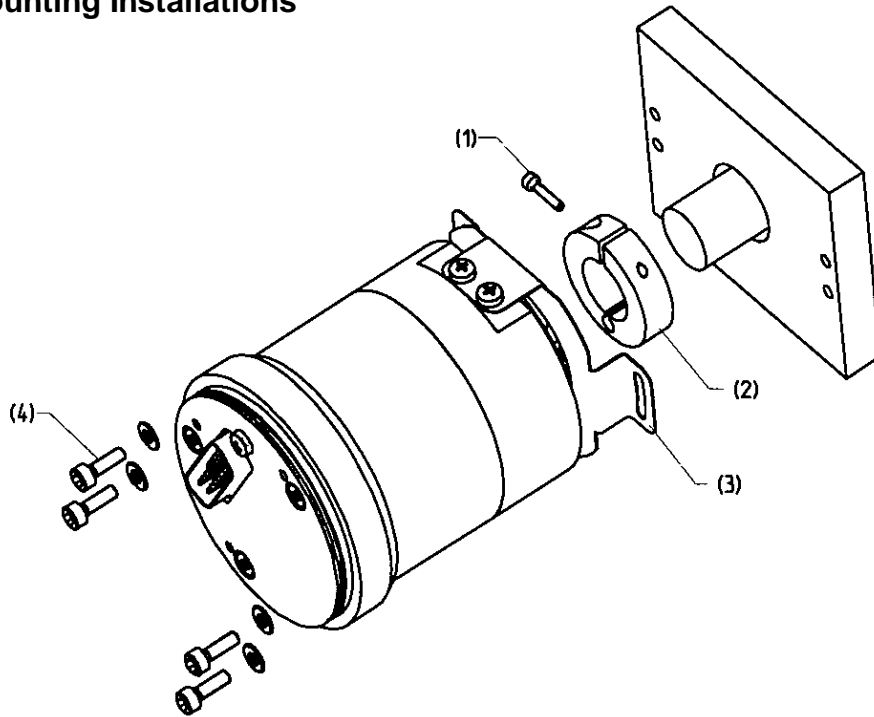
Encoders with square flange mount

1. Lock the drive shaft on the machine side.

Never directly connect the encoder shaft to the machine. Always use a flexible coupling.

2. Mount the coupling (1) on the encoder. Take care that it does not touch the encoder face.
3. Push the encoder with mounted coupling (1) into the pilot.
4. Fix the coupling (1) to the drive shaft making sure to minimize any angular or parallel misalignment so that they are within the tolerances of both the coupling and the encoder .
5. Fix encoder to mounting surface with proper screws.

Typical Mounting Installations



Encoders with blind or through hollow shafts

1. Loosen the socket-head screw (1) on the clamping ring (2)
2. Slide the encoder onto the mating shaft until the flex mount (3) rests on the machine surface

The encoder should slide freely onto the shaft; if not, do not force. Check the shaft for interferences such as gouges, burrs, rust or size.

If mounting holes already exist; proceed to Step 6.

3. Hold encoder firmly and mark the proper mounting holes, two mounting holes at the top and bottom of the cutouts on each side.
4. Slide the encoder off. Drill and tap the marked holes to accept screws.
5. Slide the encoder back onto the shaft until the flex mount (3) rests on the machine surface
6. Attach the encoder with screws (4).
7. Tighten the clamping ring screw (1).



Electrical Connections

Cable

- ❑ *Shielded cable* is recommended for all encoder installations.
- ❑ Separate conduits should be run for each encoder and these conduits should not be shared with other equipment.
- ❑ Do not run cable near equipment operating under heavy loads such as motors, drives, or solenoids.
- ❑ *Never* disconnect or connect the encoder while power is being applied.
- ❑ *Grounding* the encoder through both the machine and at the connector is not advised. Connect the shield at the input device only.
- ❑ Any unused encoder signal wires must be individually insulated and tied back

Encoder Specifications

- ❑ *Power*, being DC, is referred to as supply, power source, +Us, or +Vcc.
- ❑ *Common*, is referred to as ground, 0V, or GND.
- ❑ **Follow the wiring connections given on encoder or on the datasheet for your specific encoder. If there are any questions please don't hesitate to contact the customer service department at (800) 811-9110**

Contact Information

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02/25/02



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