



Instruction Manual for NEO-FLEX coupling

Thank you for purchasing a NEO-FLEX Coupling. It is important to correctly align each shaft where coupling halves are mounted in order to obtain long life performance by NEO-FLEX COUPLING

Cautions for safety

When using the product, read thoroughly the Instruction Manual and handle it correctly paying a sufficient attention to the safety. Safety precautions in this manual are classified into two categories: "Warning" and "Caution".

 Warning	Death or serious injury may result from misusing the product.
 Caution	Minor or moderate injury, as well as damage to the product may result from misusing the product.

Notice that although categories under "Caution", subjects discussed may lead to serious results depending on the situation. Make sure to follow the important contents written in "Warning" and "Caution".

And also the quality control is paid attention sufficiently. Preparing the unexpected accidents, enough consider the safety action.

This manual should remain with the NEO-flex Coupling at all time. To ensure safety, this manual should be kept as an easy reference to anyone using the units at all time.



Warning

- [General]
 - Make sure to install a safety cover.
 - Injury may occur, when a hand or finger touch the product due to the rotating parts. Make sure to put the safety cover to prevent the body from the rotating parts for preventing the danger.
 - Set a safety mechanism to stop the rotating parts immediately when the cover is lifted.
 - Transporting, installing, operating, maintaining or inspecting must be carried out by skilled and professional engineers. Injury or machine breakage may occur.
 - When the coupling is used with vehicles that carry human, set a safety device at the device side for the safety purpose. Bodily injury or machine breakage due to the runaway/falling may occur.
 - When the coupling is used for the lifting/lowering device, set a safety device at the device side in order to prevent from falling. Bodily injury or machine breakage due to falling may occur.
- [Transportation]
 - Never step under the product when it is elevated for transportation. Bodily injury due to the falling may occur.
- [Installation]
 - Wear the proper clothing and safety gear (safety glasses, gloves, safety shoes, etc.) when mounting or dismounting the coupling.
 - Make sure to turn off the power in advance, and prevent from the switch turning on suddenly.
 - Make sure to tighten the bolts securely and prevent the bolts from loosening completely.
 - Critical condition such as the breakage of the bolts may occur depending on the state of tightening of the bolts. Make sure to tighten the bolts certainly.
- [Operation]
 - Never approach or contact to the rotating parts (coupling, shaft, etc.) during operation. Getting into the machine or bodily injury may occur.
- [Maintenance and inspection]
 - Never approach or contact to the rotating parts (coupling, shaft etc.) when maintaining or inspecting during operation. Getting into the machine or bodily injury may occur.
 - Make sure to turn off the power in advance, and prevent from the switch turning on suddenly. In addition, make sure to stop the rotation of the drive or driven machine certainly.

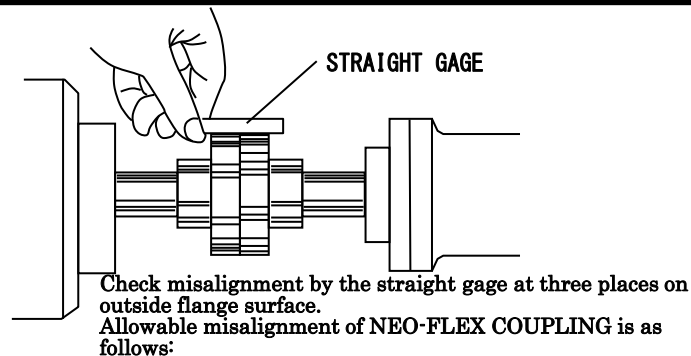


Caution

- [General]
 - Never use the coupling at the condition except for the product specification. Injury or machine breakage may occur.
 - Never use the broken coupling. Injury or machine breakage may occur.
 - Never remove the name plate attached to the product.
- [Upon delivery on the coupling]
 - In case the wooden crate, pay attention to the box nail when unpacking. Injury may occur.
- [Alteration]
 - Never do the alteration or remodeling except for the machining for boring, keyway and tap hole for set screw.
 - It declines the quality and function of the coupling, and becomes the cause of breakage, eventually it may damage the machine and injure the operator.
 - Alteration should be handled by expert and be followed with the operational process and caution.
- [Transportation]
 - Pay extra attention so that the equipment will not fall or rollover during the transportation.
 - In case the product is heavy, injury or throwing out the back may happen when handling by hands. Use the hoist with I-bolt. Remove the I-bolt after installation.
 - When hoisting the product to transport, confirm the mass of product and use the hoisting attachment with load less than the rated load of the hoisting attachment. Breakage, falling, injury and breakage of the equipment may occur.
- [Installation]
 - Never touch the inner diameter portion and the edge portion of any parts with bare hands. Injury may occur.
 - Regarding the alignment of the drive and driven shaft to which coupling are mounted, make sure to adjust within the recommended value on alignment in the instruction manual.
- [Operation]
 - Pay attention to keep hands and body away from the coupling and machine during operation. Injury may occur.
 - Stop the operation immediately when the abnormality happens. Breakage of equipment may occur.
- [Maintenance and inspection]
 - Wear an appropriate clothes and protective equipment (safety glass, gloves, safety shoes etc.)
 - Organize the surroundings, maintain and inspect under the safety condition to prevent the secondary accident.
 - Observe the Ordinance on Labor Safety and Hygiene 2-1-1 general standards.
 - Confirm periodically whether the mounting condition of the product (alignment etc.) is maintained as the recommended condition in the instruction manual.
- [Environment]
 - When scrapping the product, ask the professional to dispose it considering the load to the environment.

Installation

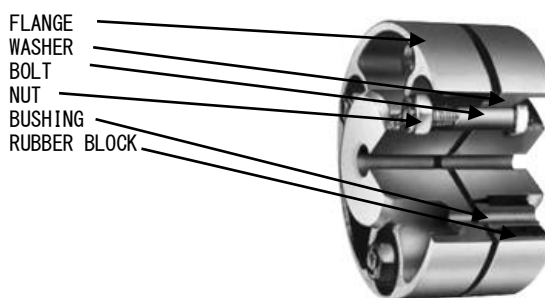
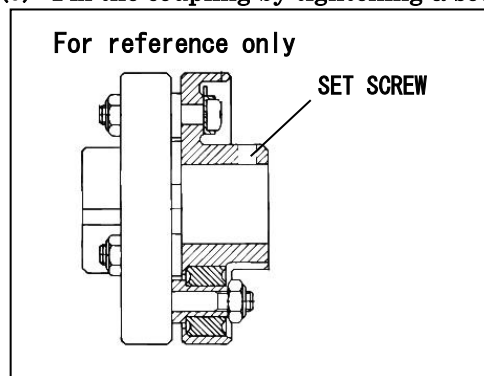
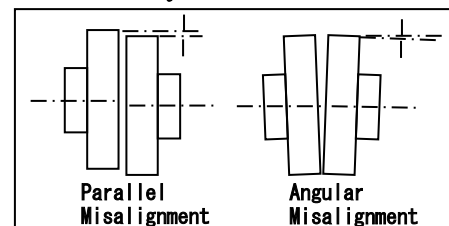
- (1) Mount coupling halves on each shaft and fix them by a key, if there is enough space for bolt inserting into the flanges later on.
(If there is not enough space, insert the bolts before mounting the coupling halves on the shafts.)
- (2) Check alignment of coupling halves by a straight gage as illustrated:



Max. allowable Misalignment

	Size of Coupling							
	NF303	NF403	NF503	NF603	NF703	NF804	NF904	NF1004
Angular	2°	2°	2°	2°	2°	2°	2°	2°
Parallel	0.3mm	0.3mm	0.45mm	0.7mm	0.8mm	0.9mm	0.9mm	1.0mm

- (3) After fixing the relative machines, check alignment of the shafts by the same way as item No.2.
- (4) Locate coupling halves properly a bush-hole to face a no-bush-hole of the flange.
Insert a bolt from no-bush-hole side to bush-hole end, and tighten the nut to connect the coupling halves.
When inserting the bolt, attach a washer to the bolt head to prevent bolt from rotating.
- (5) Fix the coupling by tightening a set screw.



Warranty

1. Warranty period without charge

18 month effective the date of shipment or 12 months effective the first use of Goods, including installation of Goods to Buyer's equipment or machines-whichever comes first.

2. Warranty coverage

Should any damage or problem with the Goods arise within the warranty period, given that the Goods were operated and maintained under instructions provided in the manual, Seller would repair and replace at no charge once the Goods are returned to Seller. The following are excluded from the warranty.

- (1) Any costs related to removing Goods from the Buyer's equipment or machines to repair or replace parts.
- (2) Costs to transport Buyer's equipment or machines to the Buyer's repair shop.
- (3) Costs to reimburse any profit loss due to any repair or damage and consequential losses caused by the Buyer.

3. Warranty with charge

Seller will charge any investigation and repair of Goods caused by:

- (1) Improper installation by failing to follow the instruction manual.
- (2) Insufficient maintenance or improper operation by the Buyer.
- (3) Incorrect installation of Goods to other equipment or machines.
- (4) Any modifications or alterations of Goods by the Buyer.
- (5) Any repair by engineers other than the Seller or those designated by the Seller.
- (6) Operation in an inappropriate environment not specified in the manual.
- (7) Force Majeure or forces beyond the Seller's control such as natural disasters and injustice done by a third party.
- (8) Secondary damage or problem incurred by the Buyer's equipment or machines.
- (9) Defected parts supplied, or specified by the Buyer.
- (10) Incorrect wiring or parameter setting by the Buyer.
- (11) The end of life cycle of the Goods under normal usage.
- (12) Loss or damage not liable to the Seller.

4. Dispatch Service

Service to dispatch a Seller's engineer to investigate, adjust or test Seller's Goods is at the Buyer's expense.