

4. Trouble Shooting

Trouble	Check	Remedy
Motor does not run.	Power switch of power pack is OFF.	Turn power switch of power pack ON.
	Carbon brushes are consumed.	Replace carbon brushes to specified ones.
	Collet chuck of handpiece is in open position.	Close collet chuck of handpiece.
Hand switch does not work.	Handpiece is controlled by external signal on power pack.	Control handpiece by external signal. Avoid controlling by external signal.
	Foot switch is connected.	Control by foot switch only.
Overheating while motor is running.	Dust, etc. are stuck on handpiece.	Remove dust, etc.
	Handpiece is used with excessive load.	Use motor within range of white LED indicating range of use on load meter.
High vibration and / or abnormal noise from handpiece.	Same malfunction is occurred in low rotation speed.	Ask for repairing.

If you still have a trouble after applying remedy, malfunction is considered. Ask for repairing.
If you have any question or need further assistance, please contact the store you purchased or us.

The logo for Minimo, featuring the word "Minimo" in a bold, white, sans-serif font with a registered trademark symbol (®) to the upper right of the letter 'o'. The logo is set against a black background.

CLAMP JOINT

ET51 MG03

OPERATION MANUAL

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Products are subject to change without notice.

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 **MINITOR CO., LTD. JAPAN**

Introduction

Thank you for purchasing Minimo ONE Series Clamp Joint.

Read this manual carefully for your safety prior to use. Along with this manual, read manuals of Motor, Power Pack and foot switch, if used, carefully for your understanding of each function. Keep this manual in place reach to easily. Download this manual from our website if lost.

Precautions

- This manual indicates symbols and signal words intending to avoid dangerous operation and handling for potential hazards and accident that could result in personal injury or damage to the product.

Warning and Caution

Possible hazards and damages by wrong handling are classified as Warning and Caution in accordance with seriousness of risk.



Warning

Operation causing of significant and dangerous accident possibly resulting in death or serious injury.



Caution

Operation possibly causing of injury or physical damage on the product.

Warning

- Do not press ON button on DC MOTOR selector and hand selector while collet chuck is in open.
 - Motor may be overheated by energization in condition that motor is locked and may cause of fire and / or malfunction.
- Confirm if handpiece works properly after turning DC MOTOR selector or hand selector on.
 - May cause of fire and / or electric shock by overheating motor in case motor was not working.
 - Cause motor does not work: collet chuck in open, malfunction of handpiece, motor or power pack, etc.
- Wear protective glasses for eye protection and respirator to prevent from dust.
 - May cause of unexpected damage due to chip and dust.
- In case abnormal noise, smoke and / or bad smell occurred, turn power switch off and unplug AC power cord.
 - May cause of fire and / or electric shock.
- Do not disassemble and / or remodel.
 - May cause of fire, electric shock and / or malfunction.
 - May cause of significant influence on safety and performance.
- Communication spark may occur while motor is rotating. Do not use the products near inflammable and explosive material such as thinner and gasoline.
 - May cause of fire and / or malfunction.
- Hold motor (handpiece) tight when turning switch on.
 - May cause of injury and damage on tool by bouncing of motor (handpiece).
- Do not touch rotating object such as Sentan Tool, collet chuck, etc. during operation.
 - May cause of injury and damage on tool.

Caution

- Do not use this product under environment generating corrosive gas . (chlorine gas, hydrogen sulfide, sulfuric acid gas, etc.)
 - May cause of fire, electric shock and / or malfunction.
- Use this product in condition without condensation. May cause of electric shock.
- Use this product within temperature from 0°C to 40°C.
- Keep this product away from children.
- Do not drop and / or hit this product. Do not allow children to operate this product.
- Prevent dust, oil, water, etc. from entering inside. If liquid and / or foreign substances entered, turn power switch off, unplug AC power cord and ask us for repairing.
- Turn power switch off and unplug AC power cord for your safety while replacing carbon brushes and other parts.

1. Features

The clamp joint ET51, is reinforced housing provides extra rigidity for clamping. Suitable for use with the automatic machinery. Install between the head and the motor.

The 1/4 reduction ratio gear joint, MG03, is suitable for low revolution and high torque application.

- ◇ Allowable revolving speed
 - ET51 : 35,000min⁻¹
 - MG03 : 30,000min⁻¹
- ◇ Applicable heads are
 - ET51 & MG03 : H013, H023, H033, H043, H213, H223, H233, H313
- ◇ Applicable motor are
 - ET51 : KM113H, KM113M, KM113, KM113L, KM213H, KM213, KM213L, KM113G, KX313
 - MG03 : KM113M, KM113, KM113L, KM213H, KM213, KM213L, KM113G, KX313

2. Installation

2-1. Attaching to the motor

- 1) Insert the clamp joint onto the motor with placing the claw of head in a groove of the motor.
- 2) Tighten the joint ring to secure the head in position.

2-2. Attaching the head the clamp joint

- 1) Insert the head onto the clamp joint with placing the claw of head in a groove of the clamp joint.
- 2) Tighten the joint ring to secure the clamp joint in position.

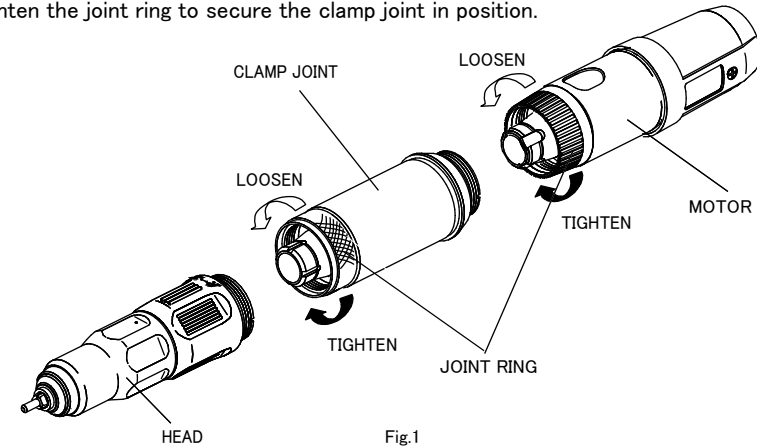


Fig.1



■ For your safety, disconnect from the motor to the power pack when attaching or detaching from the clamp joint & head the motor.

3. Sizen

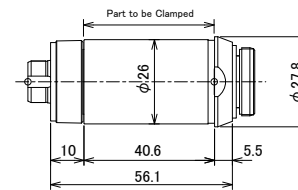


Fig.2 ET51

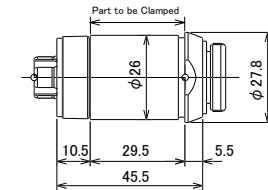


Fig.3 MG03



■ Connected motor and head must use the applications. There is a possibility that the product breaks down when inapplicable head and motor are used.