# INSTRUCTION MANUAL FOR
# HOG-020/020D
## HOMOGENIZERS



## PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION

# Ⅰ、*OUTLINE*

Speed adjuster
(HQG-240 only)

Body

Body chuck

Holding screw

Pole

Head

Stand base

Controller
(HQG-240D only)

Power switch

Speed adjuster
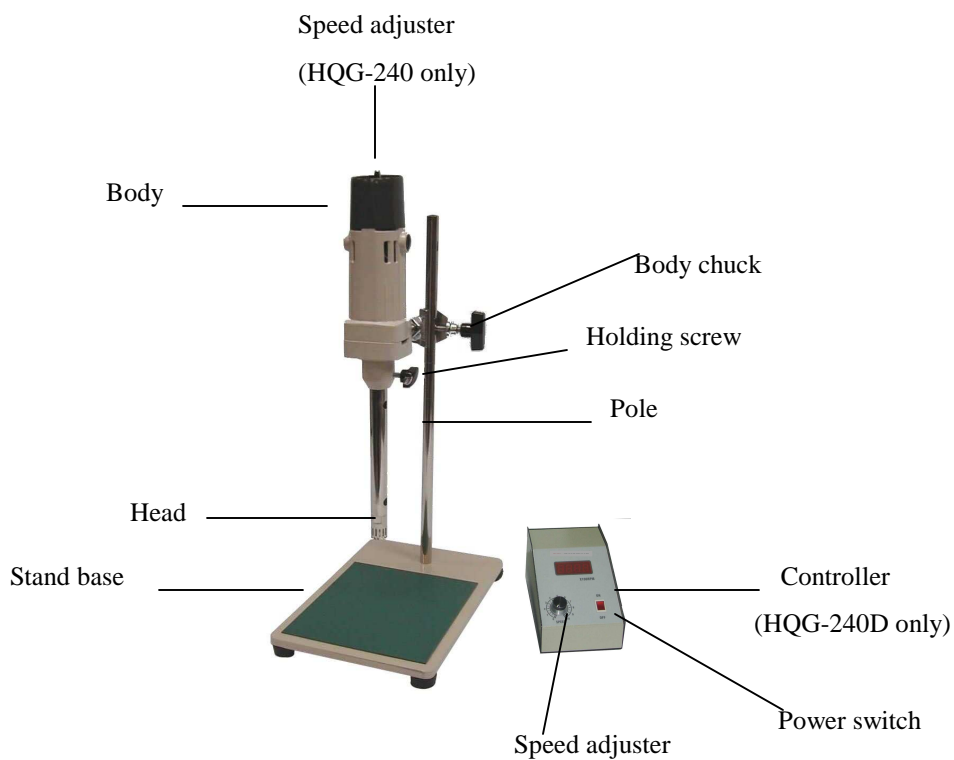
# Ⅱ、*SPECIFICATION*

| Model | HQG-240 / HQG-240D |
|---|---|
| Power | AC 110 / 220V , 50 / 60 Hz |
| Motor | AC 250W |
| Max. speed (rpm) | 26,000 |
| Driver | Electronic type |
| Safety device | Fuse |
| Coating | Medicine-resisting |
| Weight (kg) | 7 |

# III、 *OPERATION INTRODUCTION*

1.  Put container on stand base and keep distance between the head and bottom of container.

2.  Turn the speed button to the end of left side.

3.  Put plug into socket and then switch to be "ON" to start it.

4.  Adjust speed button to be proper speed per your demand.

5. When you stop it, please turn speed button to the end of left side.

6. Switch the key to be " OFF ".

# IV、 *ATTENTION*

1.  Do not start it without any material inside container.

2.  The speed has to match material's viscosity to avoid head at empty rotation.

3.  Bad fluid is not suitable to the instrument

4.  Heads are changeable, please loose the holding screw and take head off.

5.  After you clean or change head, please must fix and screw it tightly.

# V、 *INSPECTION*

When the machine is out of order, please check following possible facts:

1.  Fuse burns out or not。

2.  Carbon brushes at both sides of motor use out or contact improperly.

3. If carbon brushes use out, then take it off and renew it.

**If above have been checked and useless, please send the machine back to agent for**

**further examination and maintenance.**

# VI、 *APPLICATION OF HEADS*

| Model | Applicable range |
|---|---|
| I GP/2232 | To homogenize or mix on cell tissue in micro volume. |
| I GP/2472 | 1. To disperse plant or animal tissue.<br>2. To treat suspensions and emulsions.<br>3. Homogenizing and mixing.<br>4. Extraction function. |
| I GP/4222 | 1. To disperse plant or animal tissue.<br>2. To treat suspensions and emulsions.<br>3. Homogenizing and mixing.<br>4. Extraction function. |
| I GP/5222 | 1. To disperse organic and inorganic matters.<br>2. Homogenizing and mixing.<br>3. Extraction function. |

# VII、 *SPECIFICATION OF HEADS*

| Model | Circumference Speed (m/s) | Capacity (ml) | Size (mm) |
|---|---|---|---|
| I GP/2232 | 6.3 | 0.3~10 | φ7 x 130 |
| I GP/2472 | 11.3 | 2~250 | φ12 x 170 |
| I GP/4222 | 20.1 | 20~2000 | φ20 x 200 |
| I GP/522 | 29.9 | 100~3000 | φ30 x 250 |

TO OPEN AND SEPARATED

**I GP/2232**
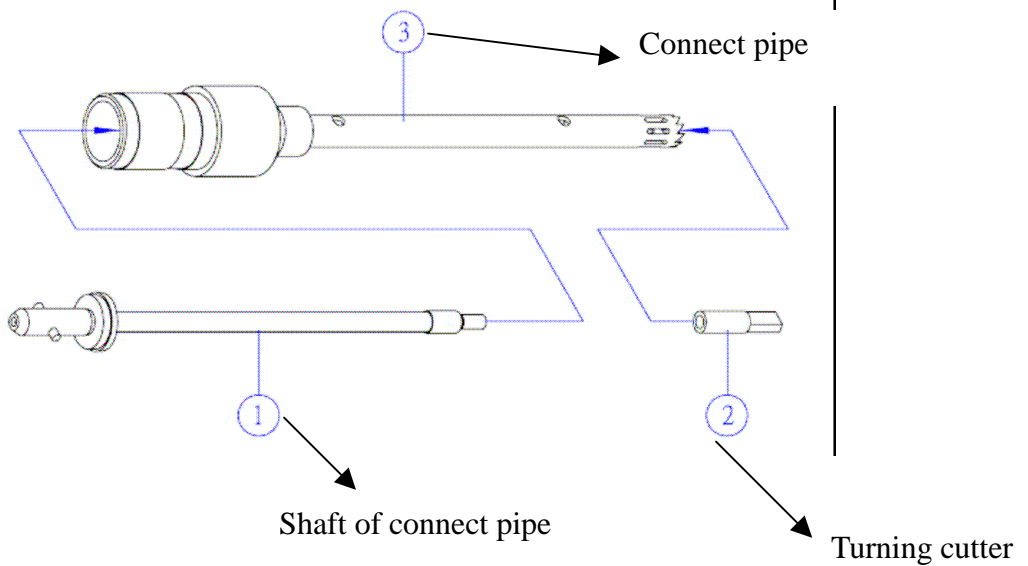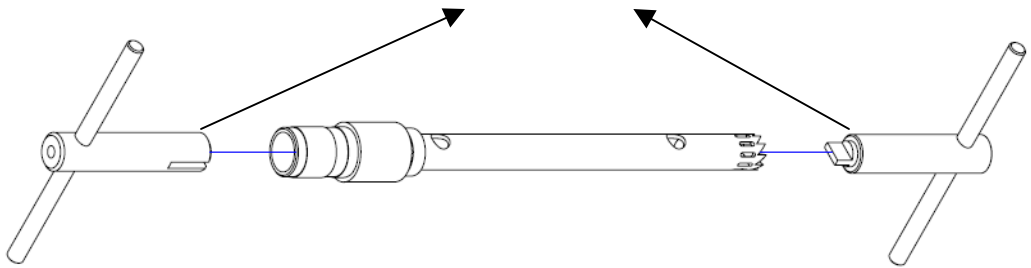
Insult the tools into the shaft
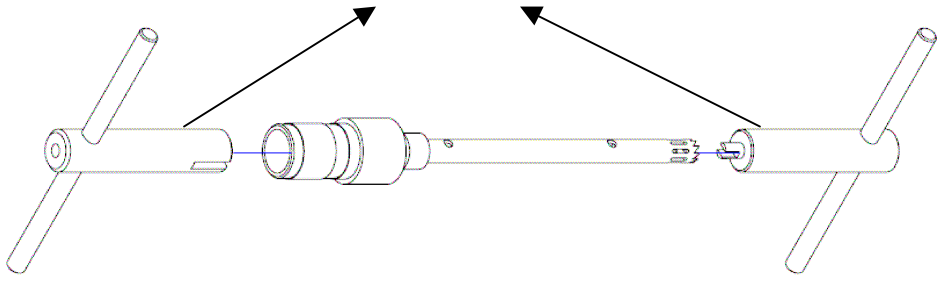
Turn the tools to open
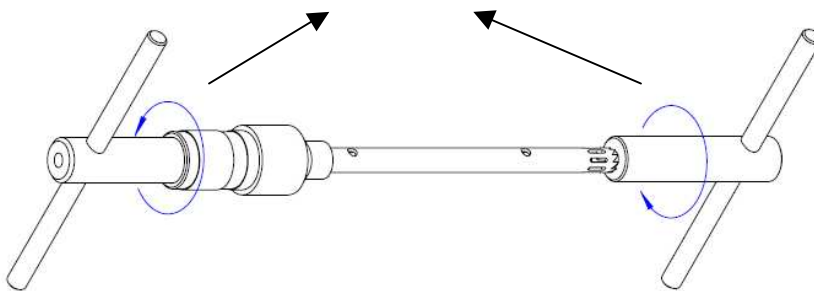
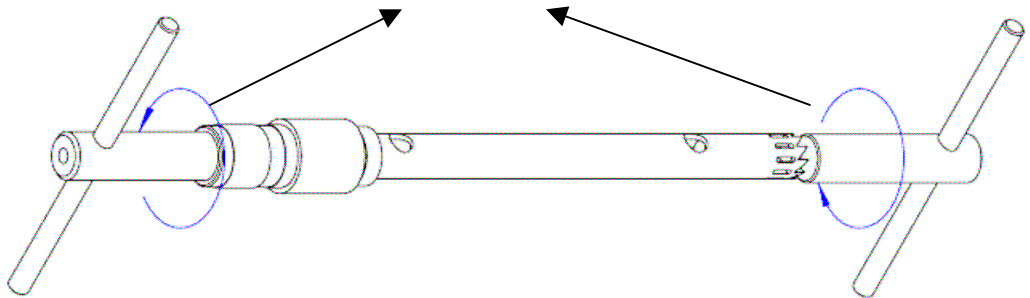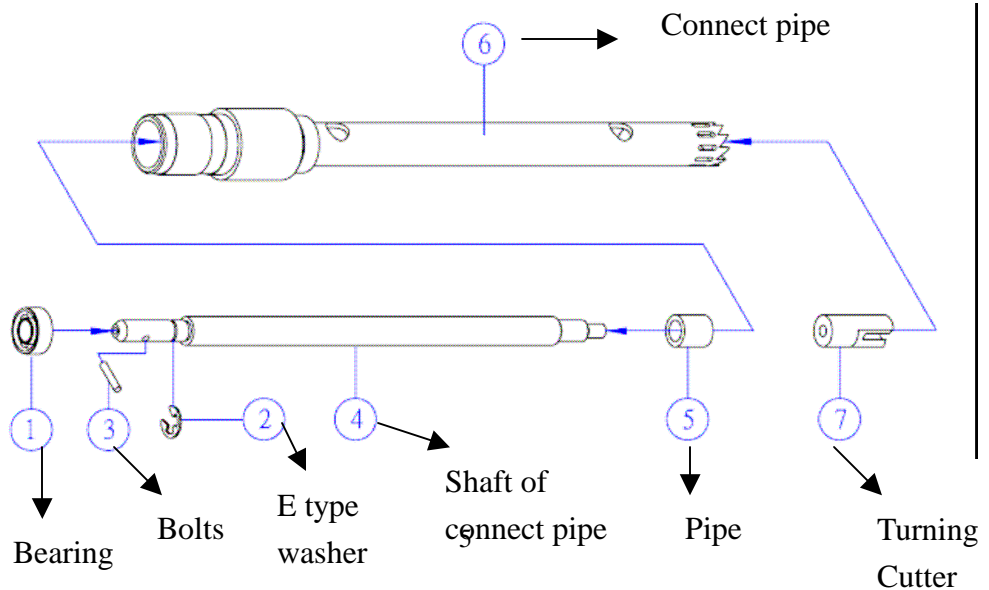After open the shaft , 3 main parts from shaft I GP/2232 as follows

③ ⟶ Connect pipe

① ⟶ Shaft of connect pipe

② ⟶ Turning cutter

TO OPEN AND SEPARATED

# I GP/2472

Insult the tools into the shaft

Turn the tools to open

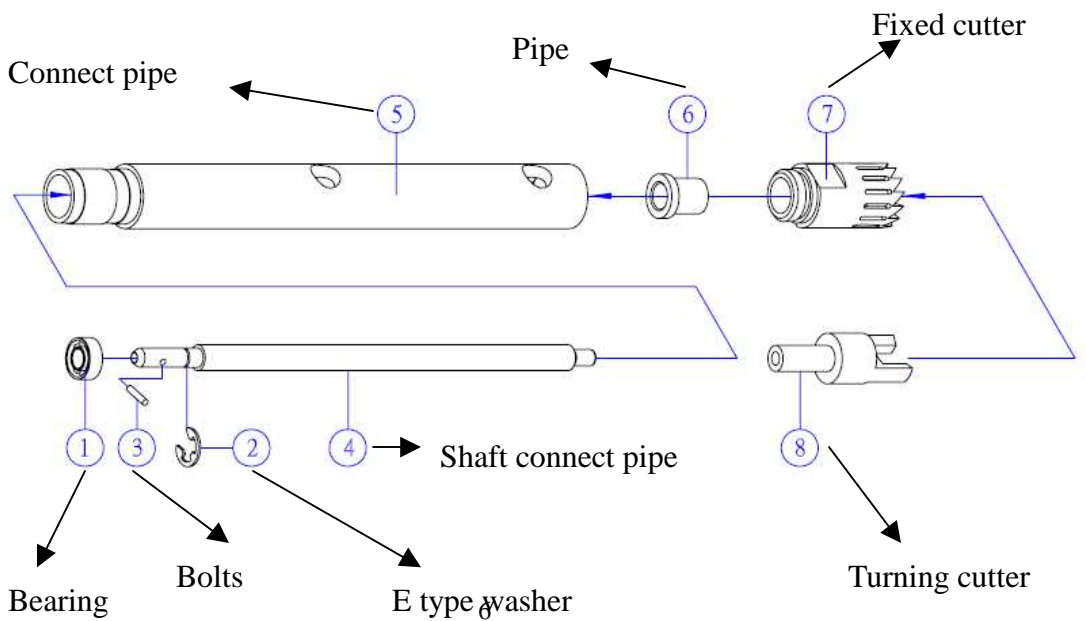After open the shaft , 7 main parts from shaft I GP/2472 as follows

6 → Connect pipe

1 Bearing

3 Bolts

2 E type washer

4 Shaft of connect pipe

5 Pipe

7 Turning Cutter

TO OPEN AND SEPARATED

**I GP/4222**    Insult the tools into the shaft

Turn the tools to open
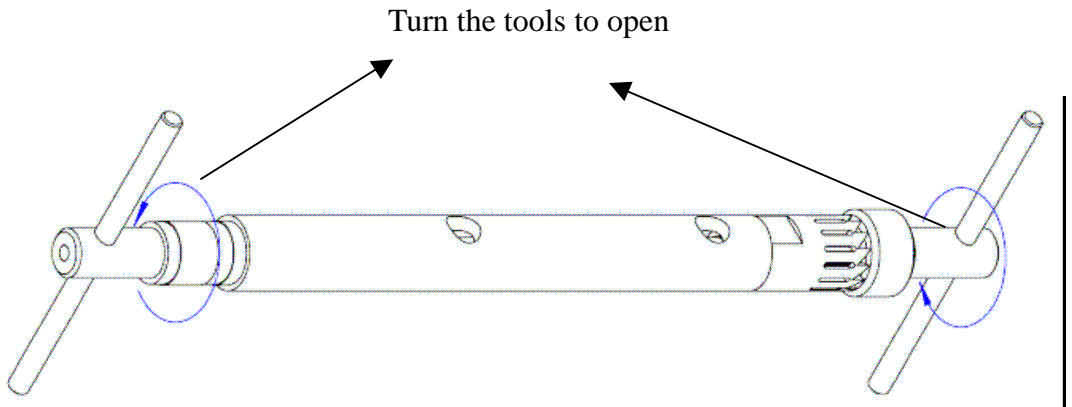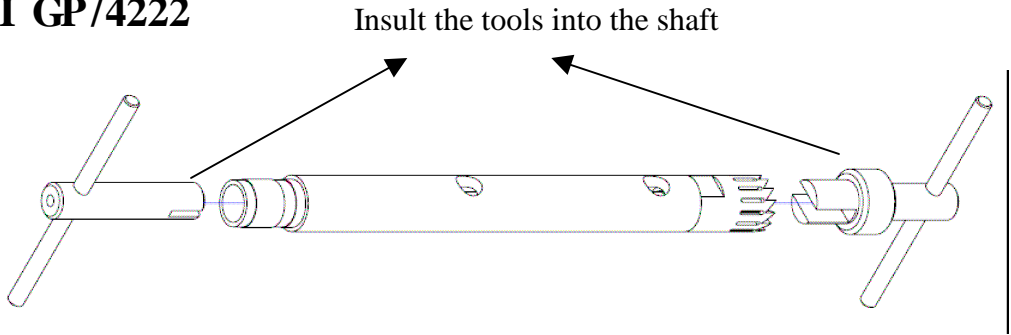
After open the shaft ,   8   main parts from shaft I GP/4222 as follows

Fixed cutter

Pipe

Connect pipe

⑤        ⑥        ⑦

①  ③    ②    ④ → Shaft connect pipe        ⑧

Bearing      Bolts        E type washer        Turning cutter

TO OPEN AND SEPARATED

# I GP/5222

Insult the tools into the shaft

Turn the tools to open
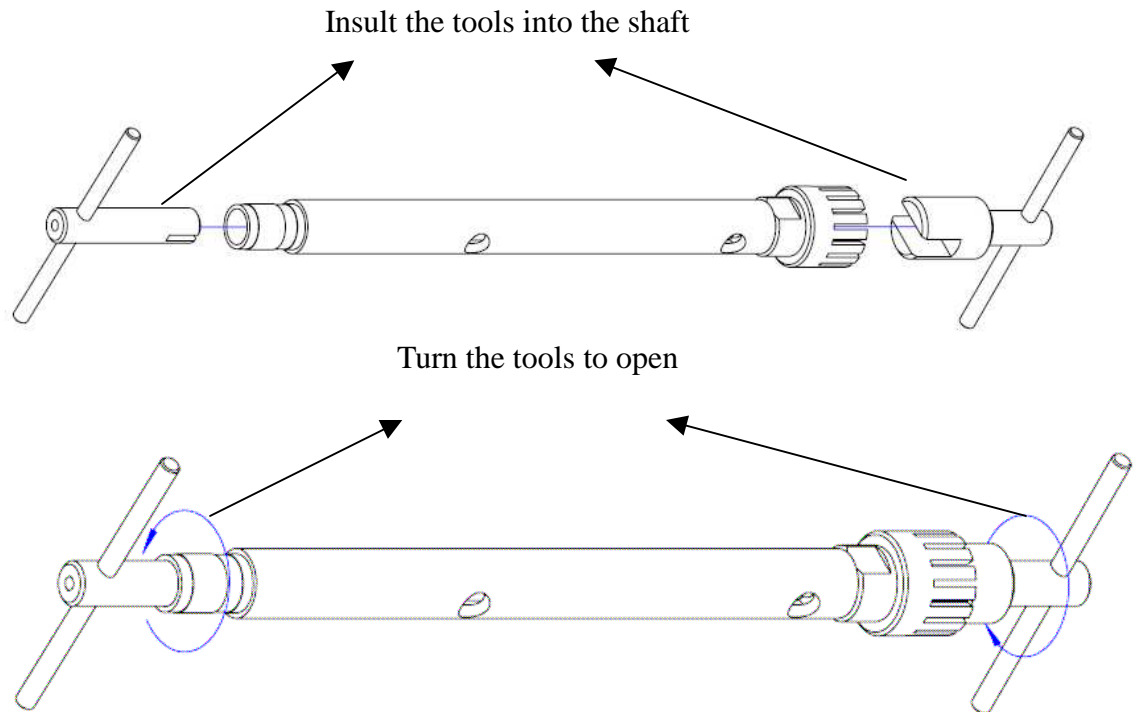
After open the shaft , 8 main parts from shaft I GP/5222 as follows

Connect pipe      ⑤    Pipe    ⑥    ⑦    Fixed cutter

①    ③    ②    ④        ⑧

Shaft connect pipe      Turning cutter
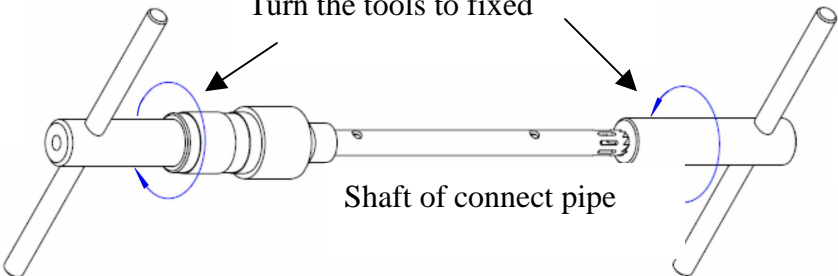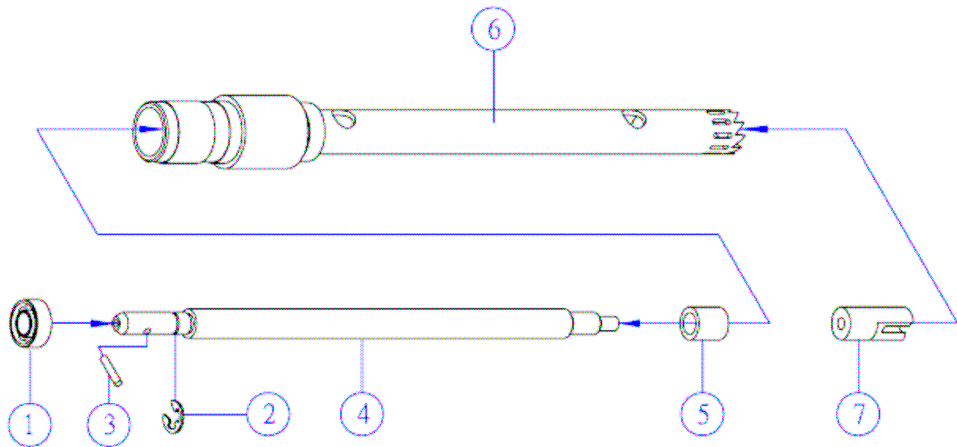
Bearing      Bolts      E type washer    7
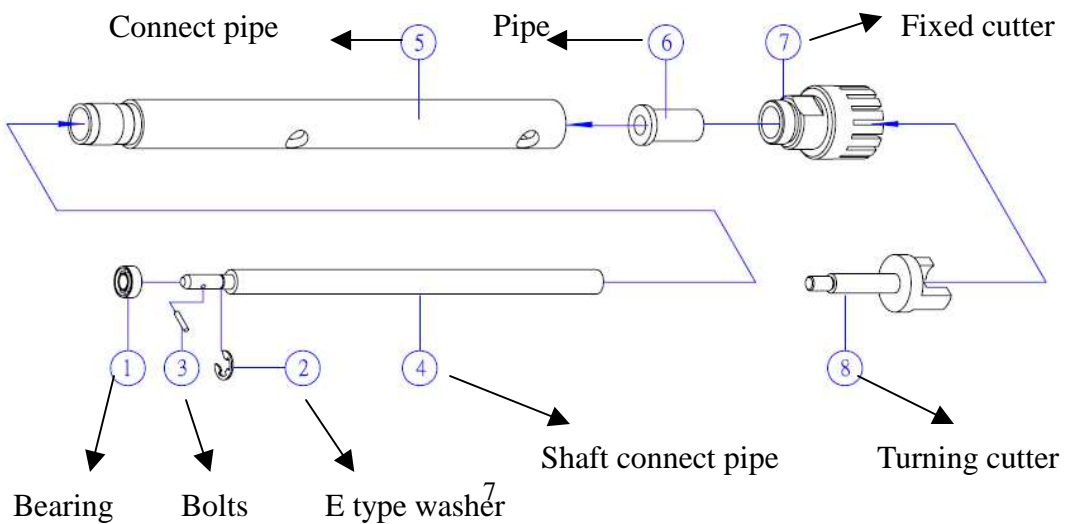
## TO ASSEMBLY

# I GP/2232

Put each parts into Accordinly with the drawing

Insult the tools into the shaft

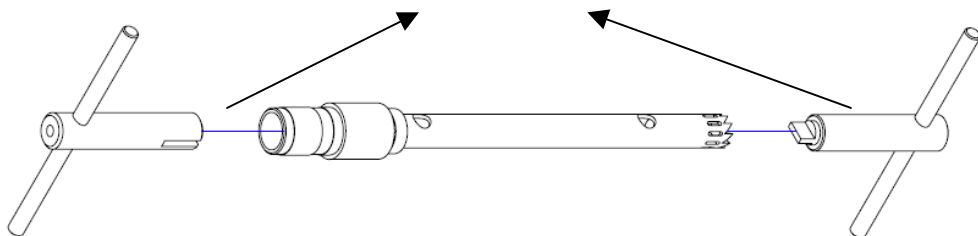Turn the tools to fixed

Turning cutter

Shaft of connect pipe
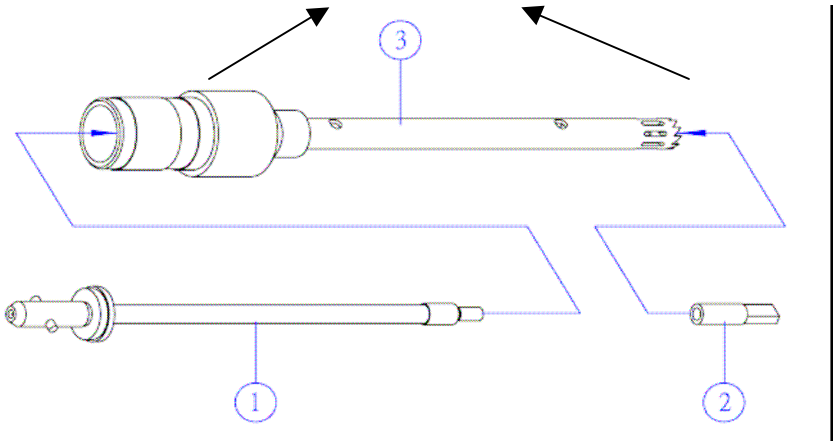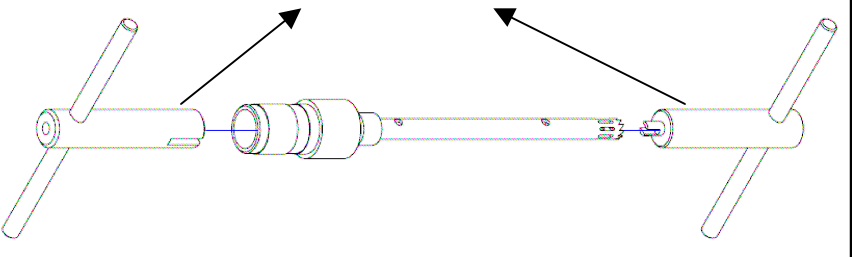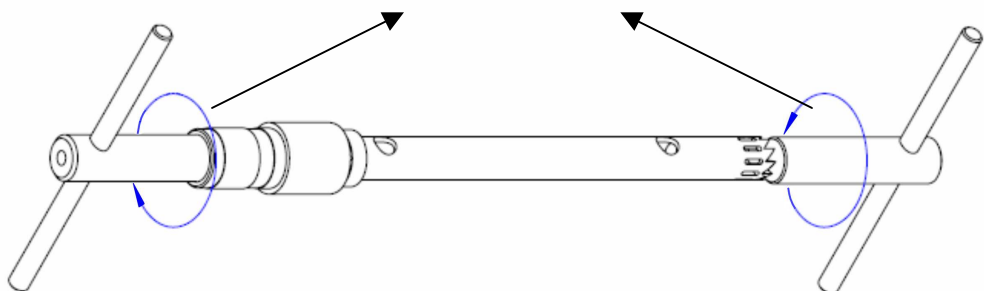
TO ASSEMBLY

# I GP/2472

Put each parts into Accordingly with the drawing
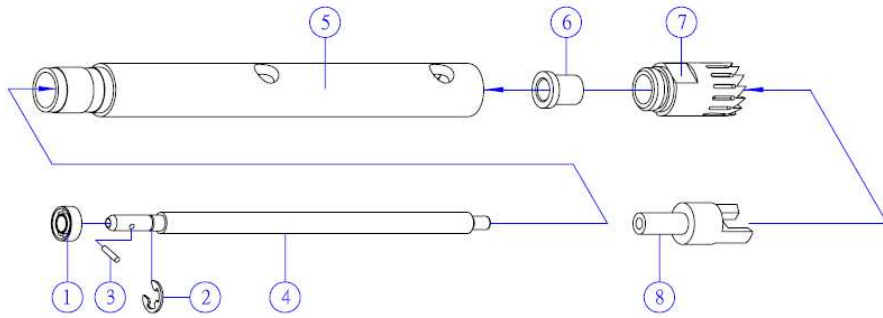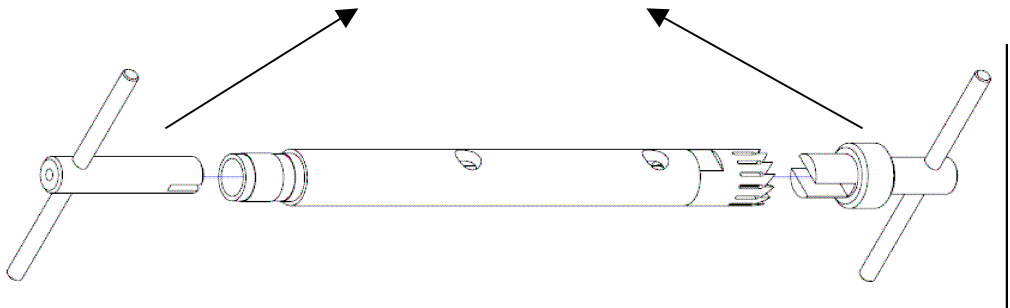
Insult the tools into the shaft

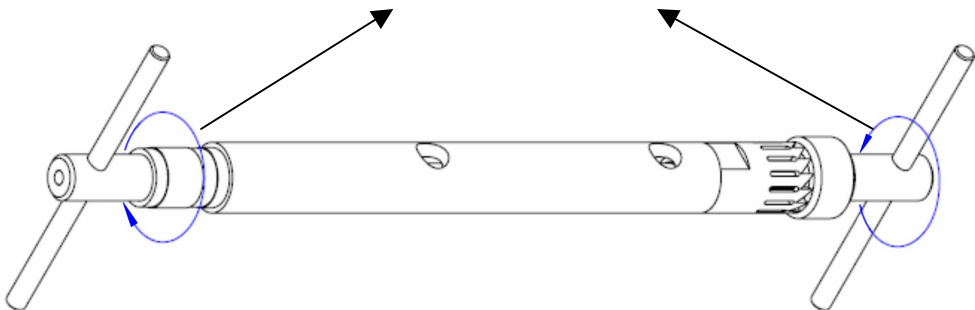Turn the tools to fixed

# TO ASSEMBLY

## I GP /4222

Put each parts into Accordinly with the drawing
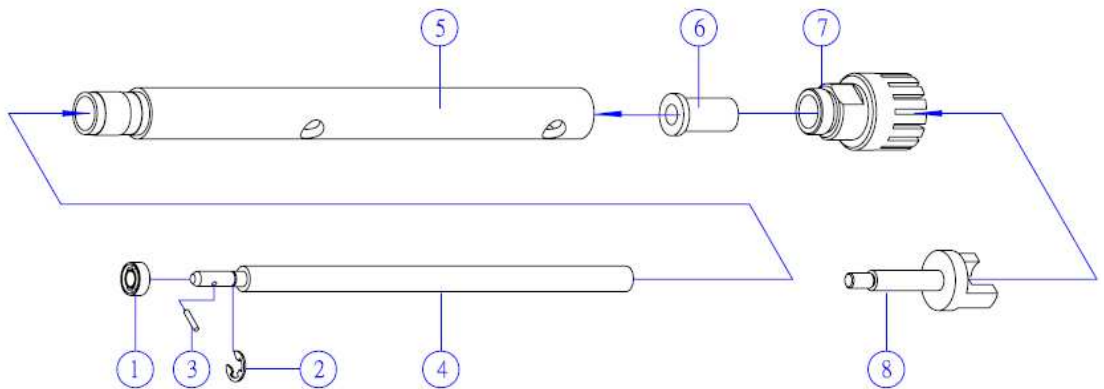


Insult the tools into the shaft
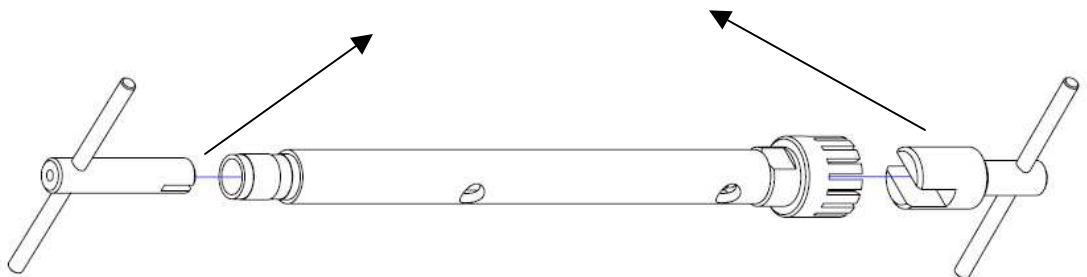


Turn the tools to fixed

TO ASSEMBLY

# I GP/5222

Put each parts into Accordinly with the drawing

Insult the tools into the shaft

Turn the tools to fixed