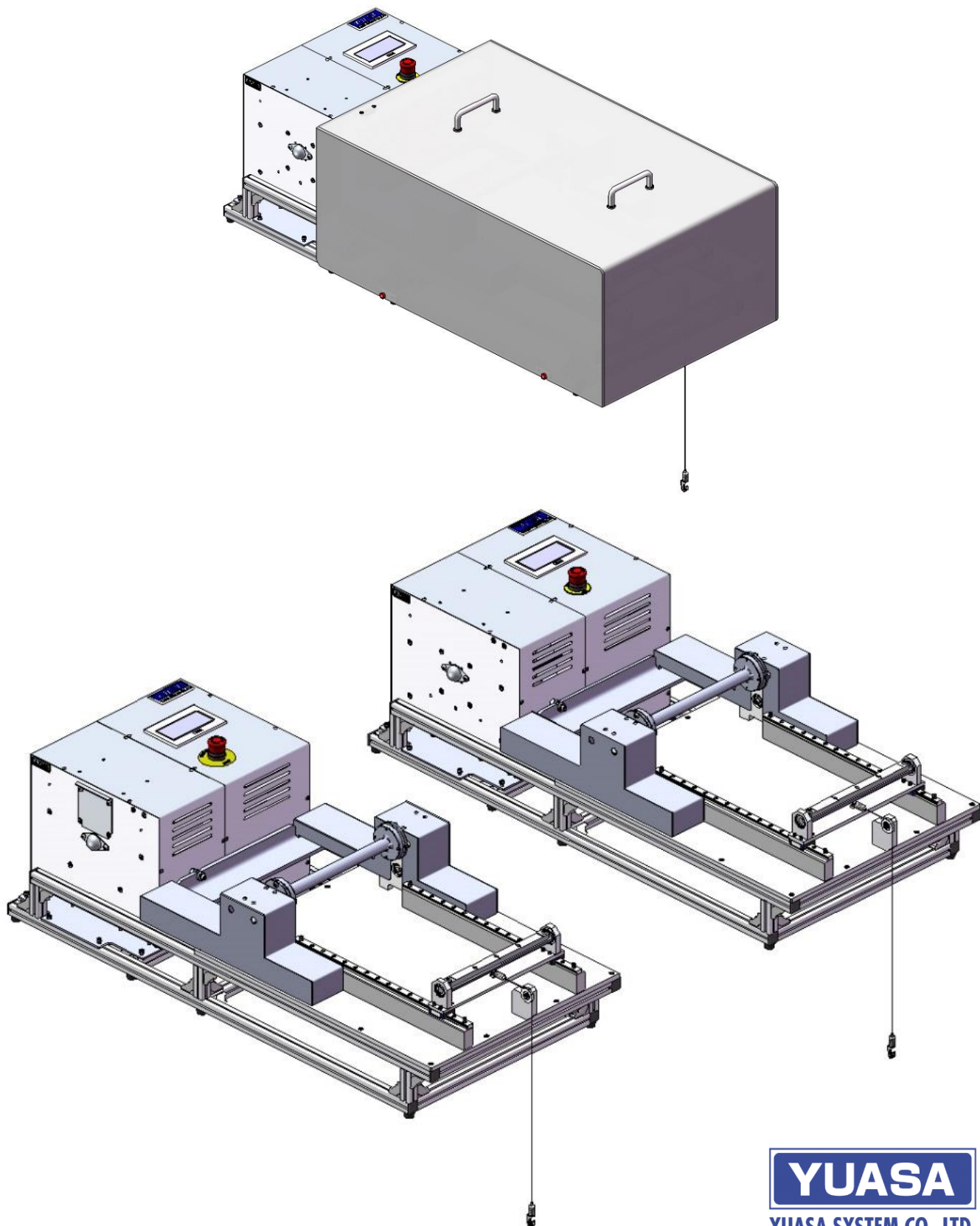


INSTRUCTION MANUAL
Rolling Test Jig



Safety precaution are classified into five categories

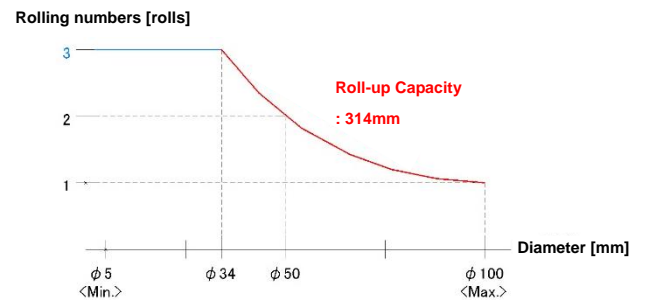
- WARNING** : Death or serious injury may result from not following product installation instruction.
- CAUTION** : Minor injury, as well as damage to the product may result from not following product instruction.
- NOTICE** : Inaccurate data may result from not following the test instructions.
- NOTE** : General knowledge.
- INTERLOCK** : Effect of the interlock system for safety.

- INTERLOCK** : Install the safety cover and prevent access to any moving parts.
- WARNING** : Installing, operating, maintaining or inspecting must be carried out by skilled and professional engineers.
- WARNING** : Make sure to tighten each screws as described in this manual.
- WARNING** : Make sure the Emergency Stop Button is made work, and the machine is completely stopped before adjust the testing condition and change the part.
- WARNING** : Make sure the power is switched off, and the machine is completely stopped before carrying out maintenance and inspection.
- WARNING** : Do not use products beyond its capacity as specified in the specification.
- WARNING** : Do not remodel.
- CAUTION** : Do not change installation environment (temperature and humidity) rapidly.
- CAUTION** : Isolate the machine from sunlight.
- CAUTION** : Isolate the machine from any noise.
- CAUTION** : Isolate the machine from any dust.
- CAUTION** : Isolate the machine from large vibration.
- CAUTION** : Immediately stop the machine upon any sign of abnormal operation.
- NOTICE** : Make sure to tighten the screws as described in the manual.
- NOTE** : In some cases, illustrations with different shapes may be included.
- NOTE** : In some cases, a description different from the equipment may be included.
- NOTE** : The scraps should be disposed as general waste by skilled professionals.

◇OVERVIEW

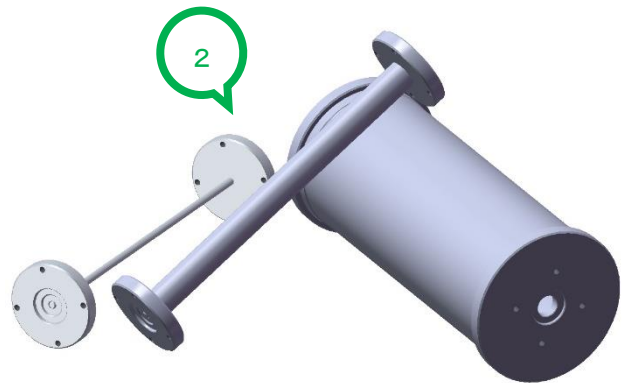
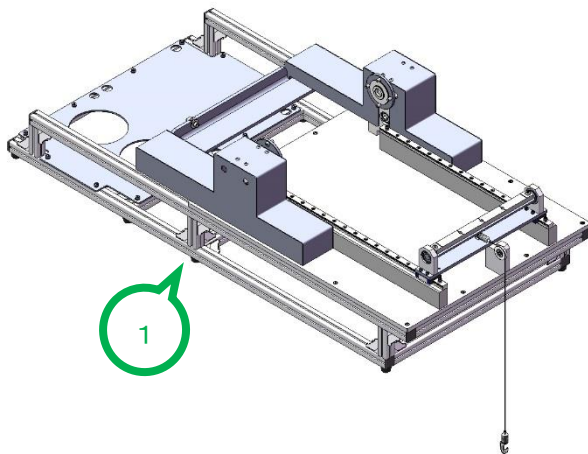
Sample's size	Width : Max. 210mm Thickness: Max. 3mm
Rolle-up Capacity	3 revolutions and 330mm or less
Rec. Speed	Max. 90 rec/min (To keep a weight steady)
Loading Tension	4 N or less
Dimension (including DMLHB/DMLHP, without Safety Cover)	970W × 435D × 320H
Mass	Driving Unit : About 17kg (37.5lb) Test jig : About 25kg (55lb) Roller : About 1kg (2.2lb) Cover : About 6kg (13lb)

Rolling numbers per Roller diameter



CAUTION This Jig can attached with DMLHB (Simple Operation type) and DMLHP (Positioning Type).

◇STRUCTURE and COMPONENT



No.	NAME	TYPE	Number	MANUFACTURE (MATERIAL)	NOTE
1	Rolling Test Jig	ET218001A0002	1	YUASA SYSTEM	
2	Roller	Sold separately	1	YUASA SYSTEM	

◇INSTALLATION [Tool: 4mm Hexagon Wrench]

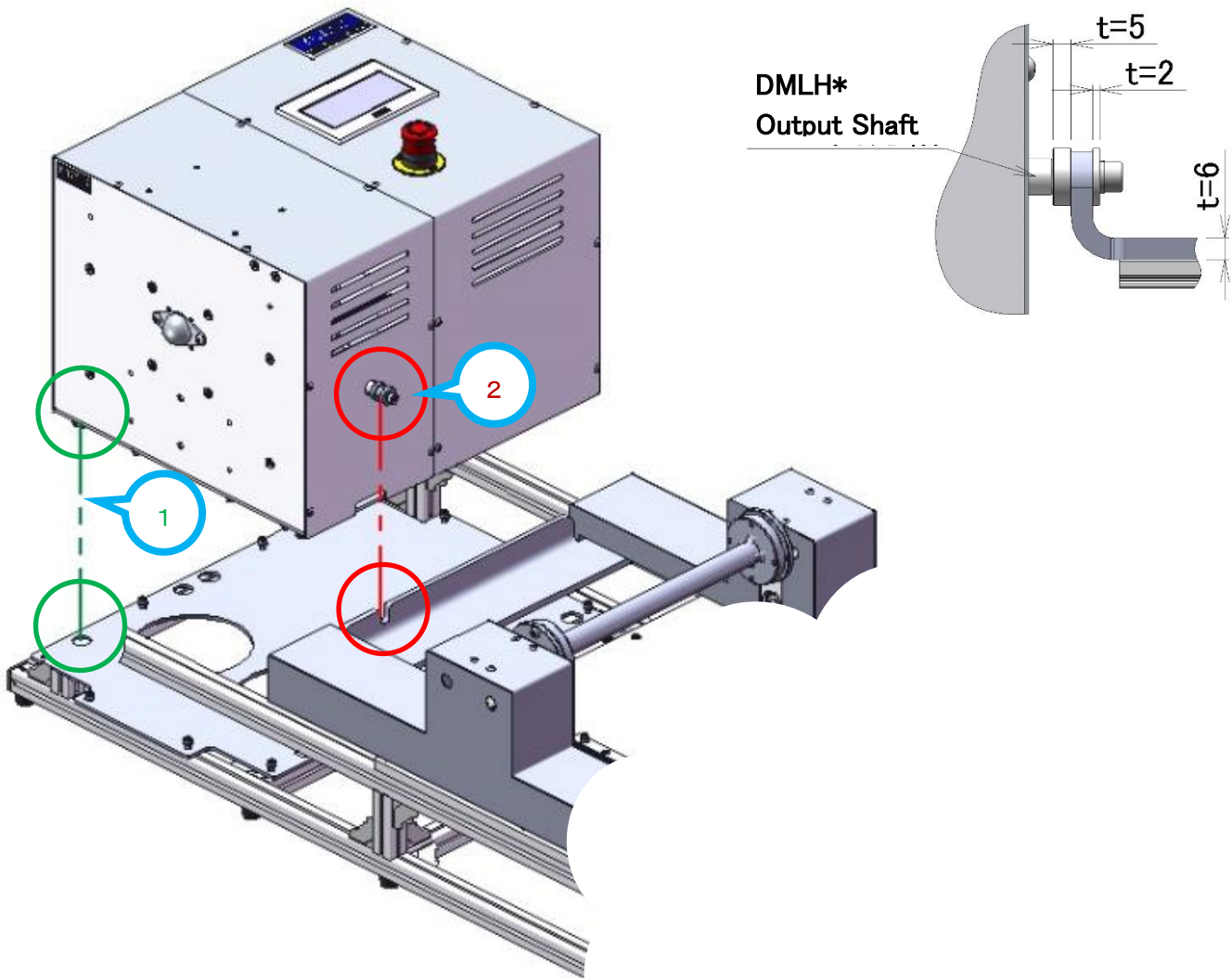
1. Place the rubber legs of DMLH* as coinciding with the hole of connecting template (8 holes).

CAUTION If the DMLH* doesn't fit the hole completely, you have to set into the hole with pushing.

CAUTION The guide hole of control unit is bigger than driving unit's.

When the control unit uses separately, there is no influence to accuracy of positioning.

2. Combine the output shaft of DMLH* with a notch of Test Jig.



◇Attach the Roller [Tool: 3mm Hexagon Wrench (or T-type wrench of DMLH*accessory)]

CAUTION Please detach from the output shaft, and the roller should be on free position.

NOTE Flange which is for fix a roller has 2 sides.

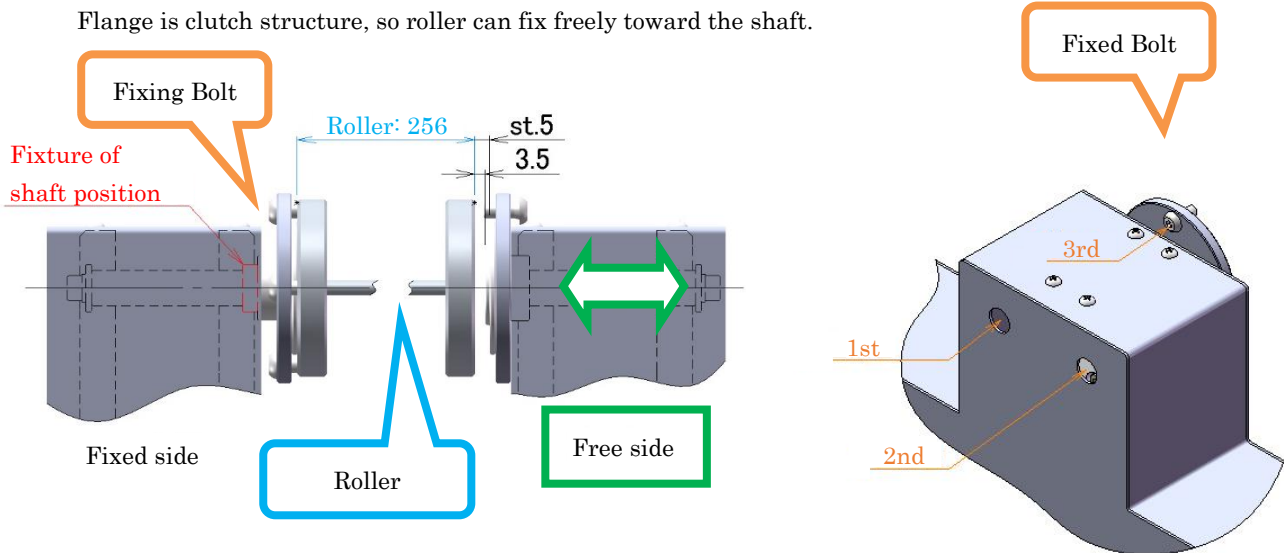
Free side: move to the direction of shaft.

Fixed side: fixed the position of flange.

NOTE When attach the roller, please operate from the fixed side.

On the other hand, when detach the roller, please loosen from the free side.

Flange is clutch structure, so roller can fix freely toward the shaft.



1. Fix temporarily each **fixed bolt (4 pieces)** to fixed side and free side. (at this time, NOT operate the clutch)
2. Tighten equally the **fixed bolt (3pieces)** of fixed side. Especially 1st and 2nd bolts tighten sufficiently. (Refer to right figure.)
3. Tighten equally the **fixed bolt (3pieces)** of free side. Especially 1st and 2nd bolts tighten sufficiently. (Refer to right picture.)
4. Turn a roller to 90° by start operating or operate by hand for operation check.
5. Tighten some bolts which not fixing both side. Then tighten bolts of diagonal.

CAUTION The tool hole of cover (above figure, the 1st and 2nd) is for tightening or fixing temporarily.

These holes CAN NOT use for taking out bolts and putting in bolts. (These bolts will fall into the cover).

◇Attach Test Sample to Roller

WARNING The roller DOES NOT have a structure of gripping test sample.

Gripping method decides depending on the material or size of test sample.

Ex.1) Test sample is short, and endure to paste and peel the tape etc.

⇒Using the tape, and paste the test sample on the roller.

Ex.2) Test sample is long enough, and the material is non-slip etc.

⇒In advance, wrap to roller few times, and keep by friction.

◇Attach Test Sample to Following Clamp [Tool: 3mm Hexagon Wrench]

NOTE Tilt angle of following clamp changes among angle changing.

(For example: changing roller diameter, following clamp approach to roller, test sample wrap in a few times.)

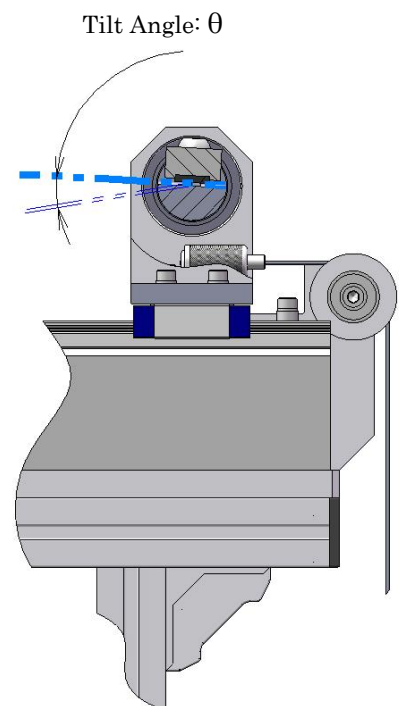
1. Clamp the test sample with **fixed bolt (2 pieces of both edge)**.

NOTE If the gripping power is weak, it is possible to use the **fixed bolt (3 pieces)** on the center of clamp with cutting the test sample or etc.

2. Hang a weight for tension loading.

CAUTION If the tension is lack, especially long test sample droops, the rolling-up tend to loosen.

CAUTION When you will not use the tape, please pay attention to the friction of roller side.



◇ Safety Cover

WARNING Install a safety cover and prevent access to any moving parts.

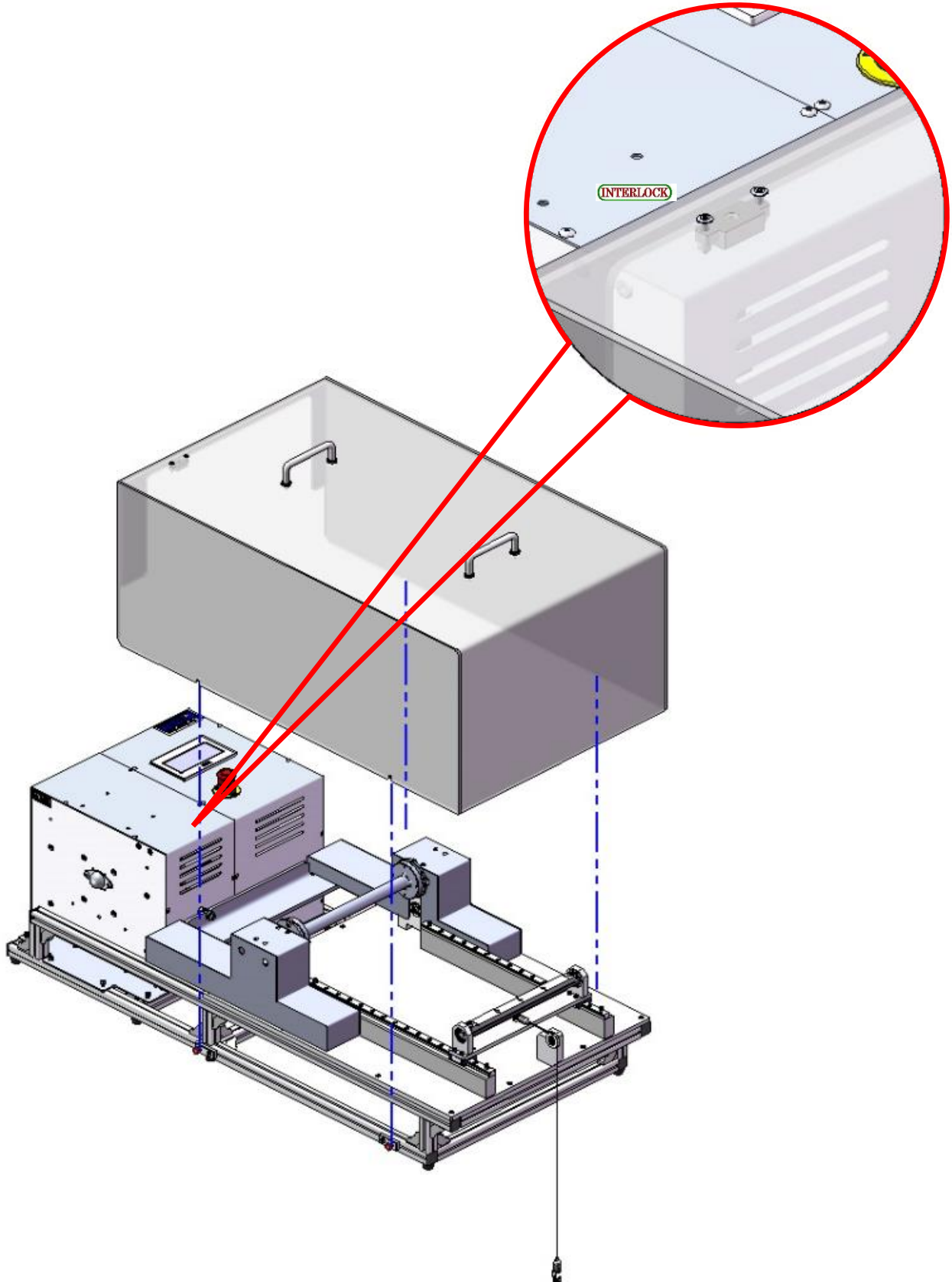
CAUTION Fix the safety cover surely to prevent accidents by of the vibration.

INTERLOCK Cannot operate equipment with the operation panel whenever the safety cover opened.

◆ ATTACH THE COVER on THE TESTING JIG [Tool: ---]

1) Attach the cover on the Test Jig.

CAUTION Confirm screws are fit in the ditch of the cover.



◇MAINTENANCE and INSPECTION

CAUTION This Jig is maintenance-free.

CAUTION Change to the new one if some components will go bad or break because of using condition or requirement.

CAUTION Check that there are no loose screws before use.

◇Inspection

You must check a jig regularly because this Test Jig is demanded an endurance.

Part	Content	Time
LM Guide	Work smoothly	Once every 3 months

CAUTION After the long break, absolutely check this part.

◇Troubleshooting

Trouble	Cause	Resolution
Not work the jig	①Test sample is too short.	Set a test sample with correct length
	②Slider bump on front-end/ back-end.	Push the jig to DMLHB.
Strange noise/ operation	①Linear Guide work smoothly ? ...other	Please contact distributor.

NOTE In other case, if you have some questions please contact distributor.

◇Recommendation Spare Parts

No	Name	Type	Number	Maker	Note
1	C-Lube Linear Way	ML12C2R240HS1	2	IKO	Maintenance-free
1	C-Lube Linear Way	ML12C1R400HS1	2	IKO	Maintenance-free

~ Further Improve Reliability



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The Contents of the instruction manual may change to improve without notice.