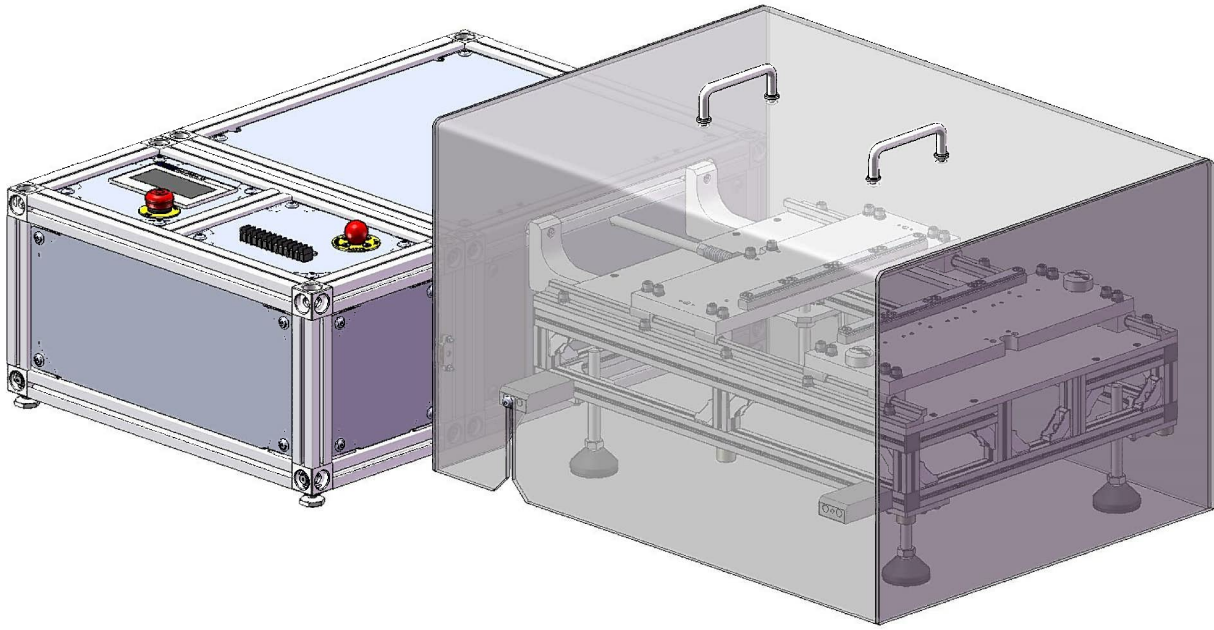


INSTRUCTION MANUAL

STRETCHING

ET254M008-002/00



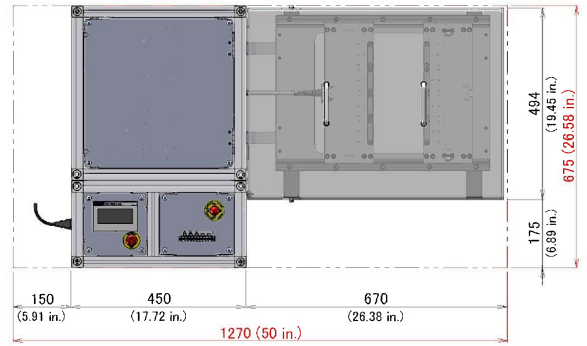
Safety precaution are classified into five categories

- 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.

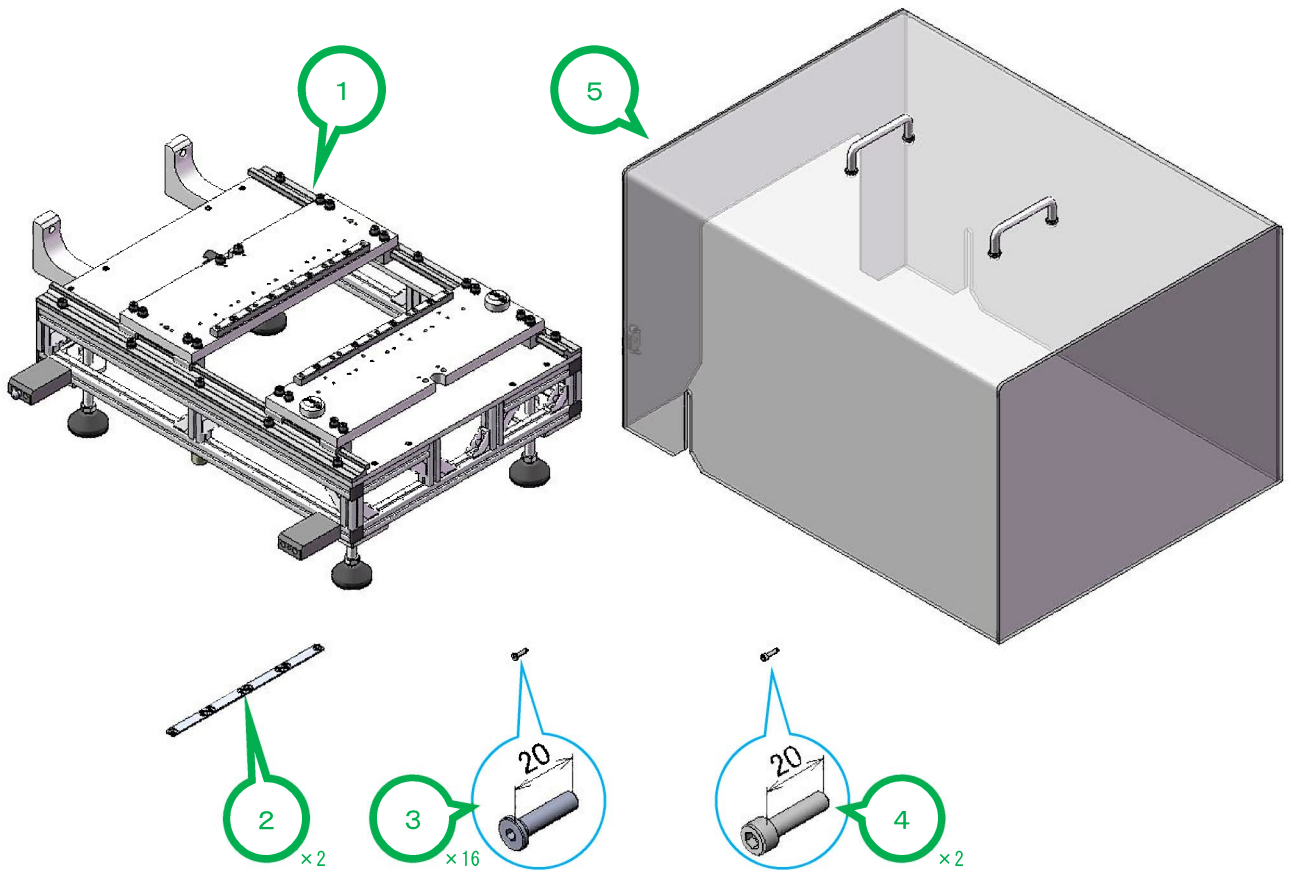
- INTERLOCK** : Close doors of the chamber and prevent access to any moving parts.
- WARNING** : Installing, operating, maintaining or inspecting must be carried out by skilled and professional engineers.
- WARNING** : Make sure the Emergency Stop Button is made work, and the machine is completely stopped before adjust the examination 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.
- WARNING** : Make sure the temperature of the test jig and the sample are normal before setting them.
- CAUTION** : The test jigs will transform and break by sudden temperature change.
- CAUTION** : The stainless steel screw is easy to be branded.
- CAUTION** : Immediately stop the machine upon any sign of abnormal operation.
- NOTICE** : Consider the thermal expansion of the sample when setting it.
- NOTICE** : Make sure to tighten the screws as described in the manual.
- NOTE** : The scraps should be disposed as general waste by skilled professionals.

◇ OVERVIEW

Sample's Size	Thickness : max. 3 mm
	Width : max. 245 mm
Rec. Distance	Length : min. 6 mm
	max. 180-st. mm
Rec. Speed	Max. 90 rec./min
Mass	Testing Jig: About 13 kg (28.9 lb)
	Cover: About 7 kg (15.4 lb)
Insrallation Environment	Temp. : +5~+40 ° C (41~104 ° F)
	Humi. : 15~98%RH (No Condensation)



◇ STRUCTURE and COMPONENTS



No	NAME	TYPE	MANUFACTURE (MATERIAL)	NOTE
1	Basic unit, stretching	ET254A008-002	YUASA SYSTEM	
2	Clamping plate	ET200P005-035+P006-008	YUASA SYSTEM	
3	Extra low head cap screw	CBSM5-20	MISUMI	To hold the sample
4	Cap screw	M5x20	(Steel)	To fix the test jig
5	Cover	ET500A003-034	YUASA SYSTEM	

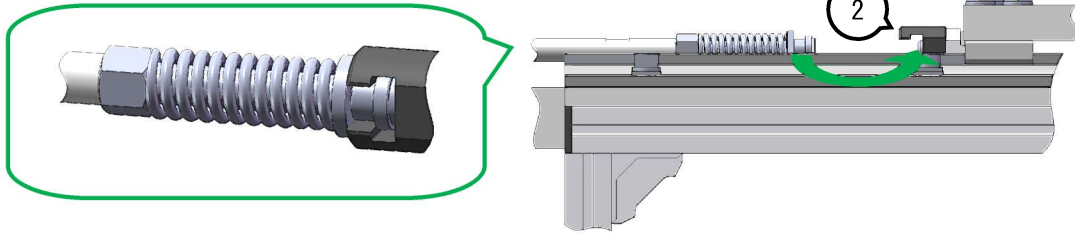
* Units of weights and measures shall be expressed in terms of the metric system (kg & mm) *

◇ **Installation** [Tool : 4mm Allen wrench]

1) Locate the driving unit to center position with the operation panel.

NOTE Refer to the instruction manual “DLD111L”.

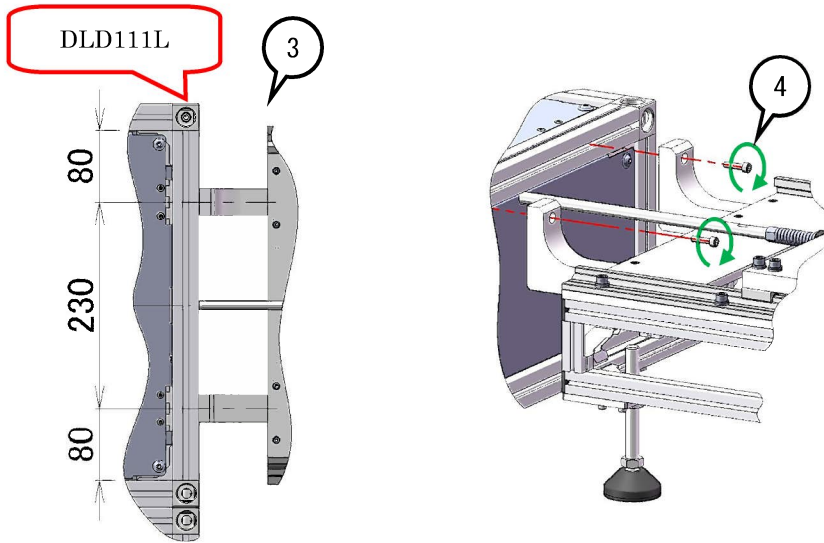
2) Slide the test jig and connect the floating joint.



3) Push the test jig to the DLDM111L.

4) Fix the test jig to DLDM111L with screws.

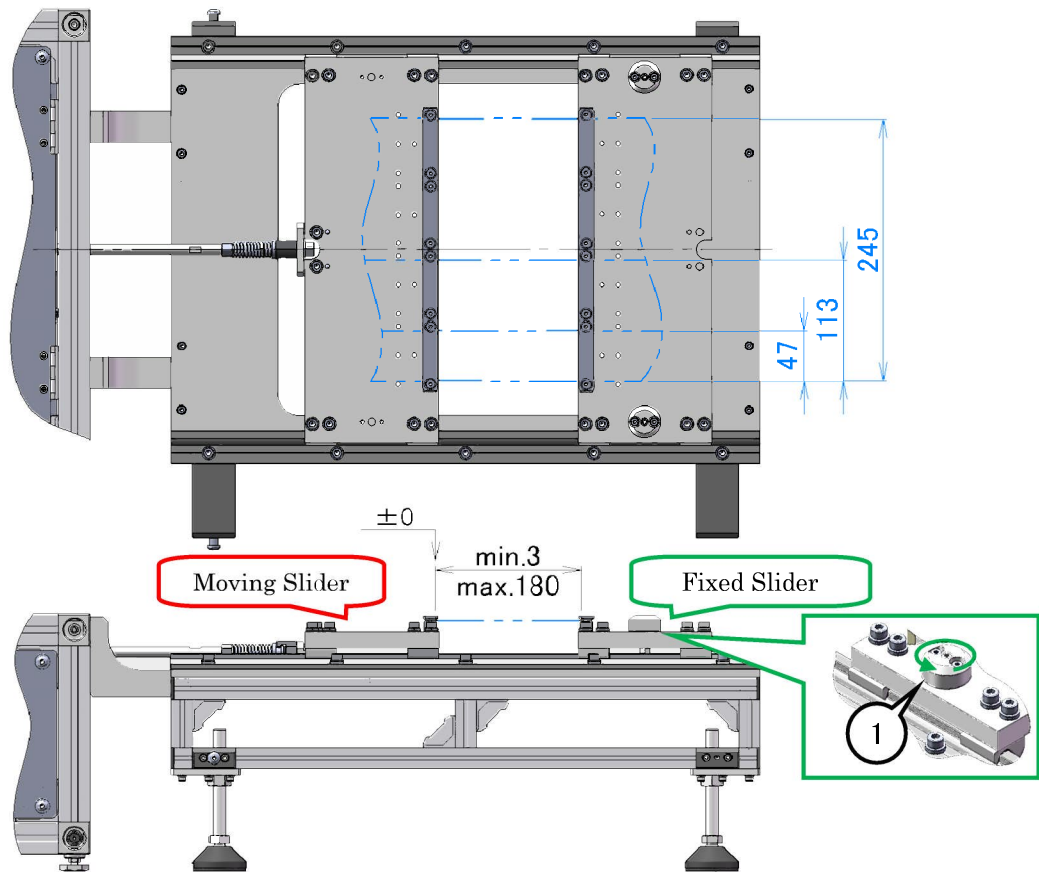
CAUTION Tightening torque: 5.0 N·m



5) Check the movement (non-interference etc.).

INTERLOCK Can not operat DLD111L with the operation panel when the cover is open.

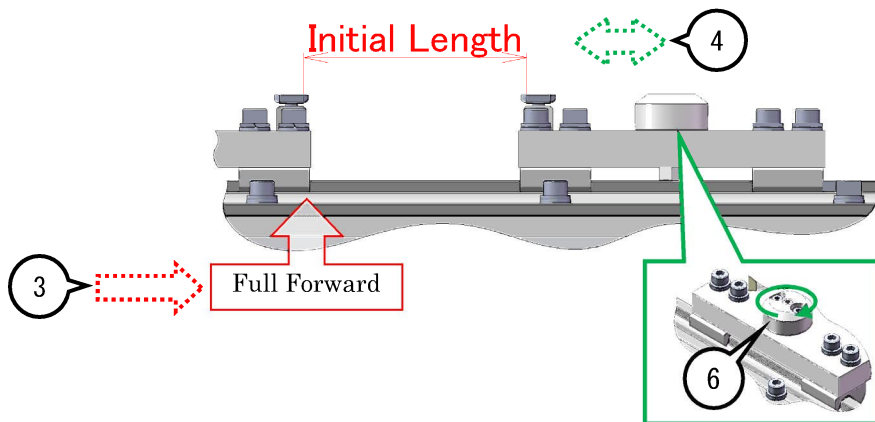
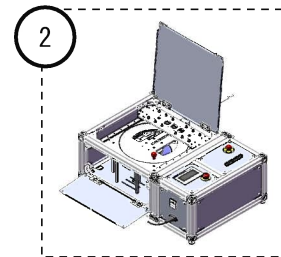
◇SETTING of TEST CONDITIONS [Tool: 3 mm Allen Wrench, mm Allen Wrench]



CAUTION Can not move the driving shaft, DLD111L, with hand when the driving shaft located in either end (full-forward or rearmost) position. Move the driving shaft to other than either end position with the operation panel.

- 1) Loosen two screws to move the fixed slider freely
- 2) Adjust the reciprocating distance (DLD111L) to the stretching length.
- 3) Locate the moving slider to full forward position.
- 4) Adjust the fixed slider to the initial length of sample as below.
- 5) Fix the fixed slider with two screws.

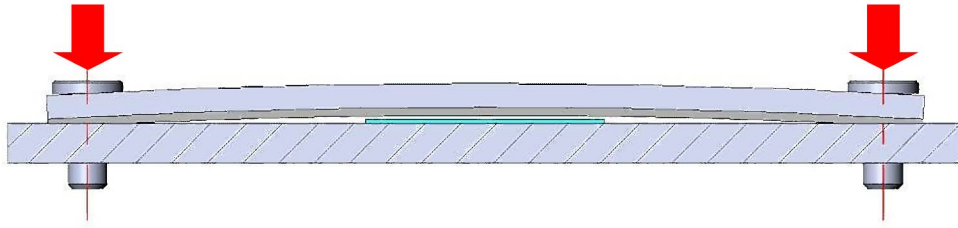
CAUTION Tightening torque: 3.0 N·m



6) Set the sample to sliders with clamping plates or adhesive tape or something.

NOTICE Tightening torque varies according to the sample or test condition.

CAUTION The clamping plate become curve then cannot pinch the sample if tighten screws too huge torque.



7) Check interference each components with low speed or hand moving.

INTERLOCK Can not operat DLD111L with the operation panel when the cover is open.

◇ Safety Cover (Test-Jig-Cover)

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

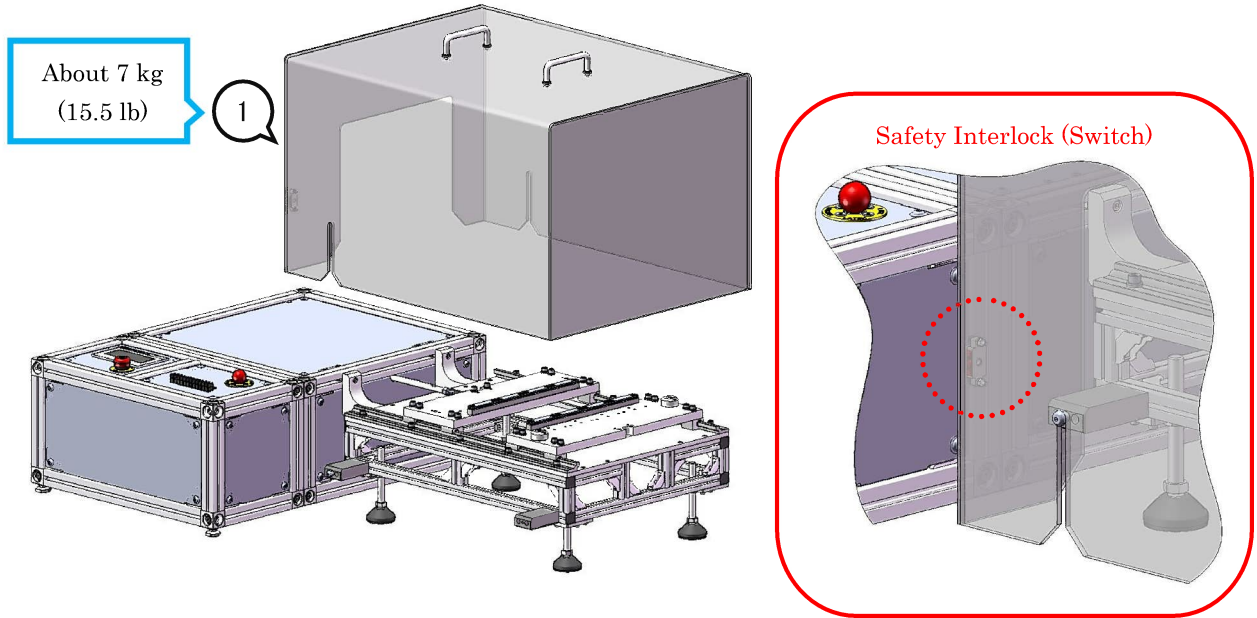
INTERLOCK Can not operate DLD111L with the operation panel when the cover is open.

◆ Attach the cover on the test jig. [Tool: ---]

1) Attach the cover on the test jig.

NOTE Confirm direction of the cover as below.

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



◇ Maintenance and Inspection

This Jig is maintenance-free.

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

Representative components

No.	NAME	TYPE	Num.	MANUFACTURE (MATERIAL)	NOTE
1	Single Rail	WSQ-10-550-C5=C6=35	2	igus	
2	Pillow Block	WJ200QM-01-10	8	igus	
3	Clamping Plate	ET200P005-035	2	YUASA SYSTEM	Pad: ET200P006-008
4	Extra low head cap screw	CBSM5-20	16	MISUMI	
5	Cover, testing jig	ET500A003-036	1	YUASA SYSTEM	
6	Step screw	DBBM5-6-5	2	MISUMI	
7	Magnet	RSM-A	1	NA	

~ Further Improve Reliability



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