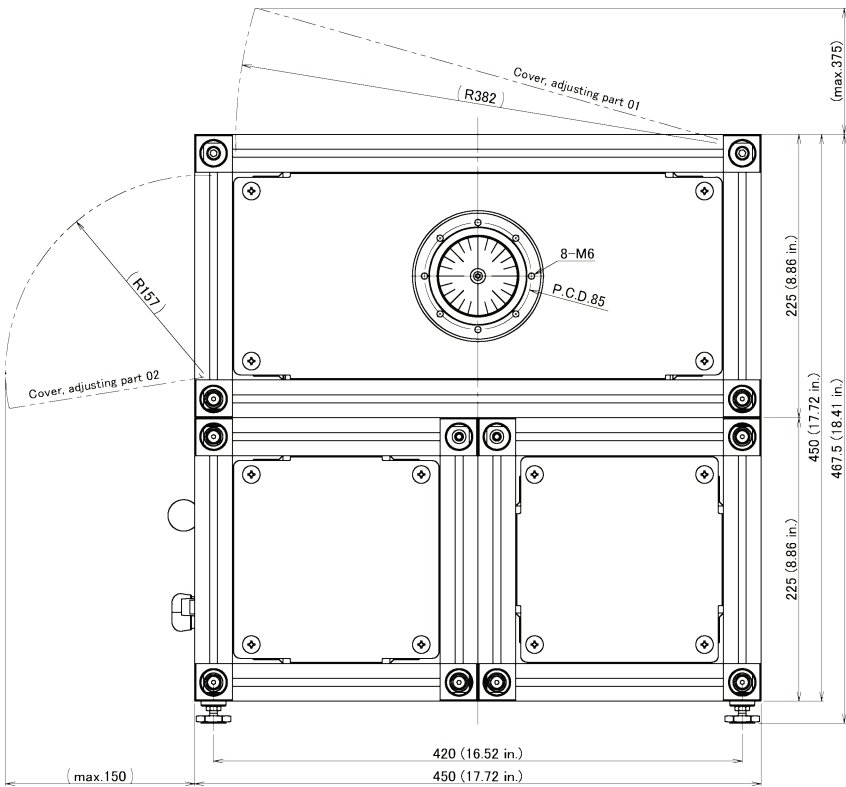
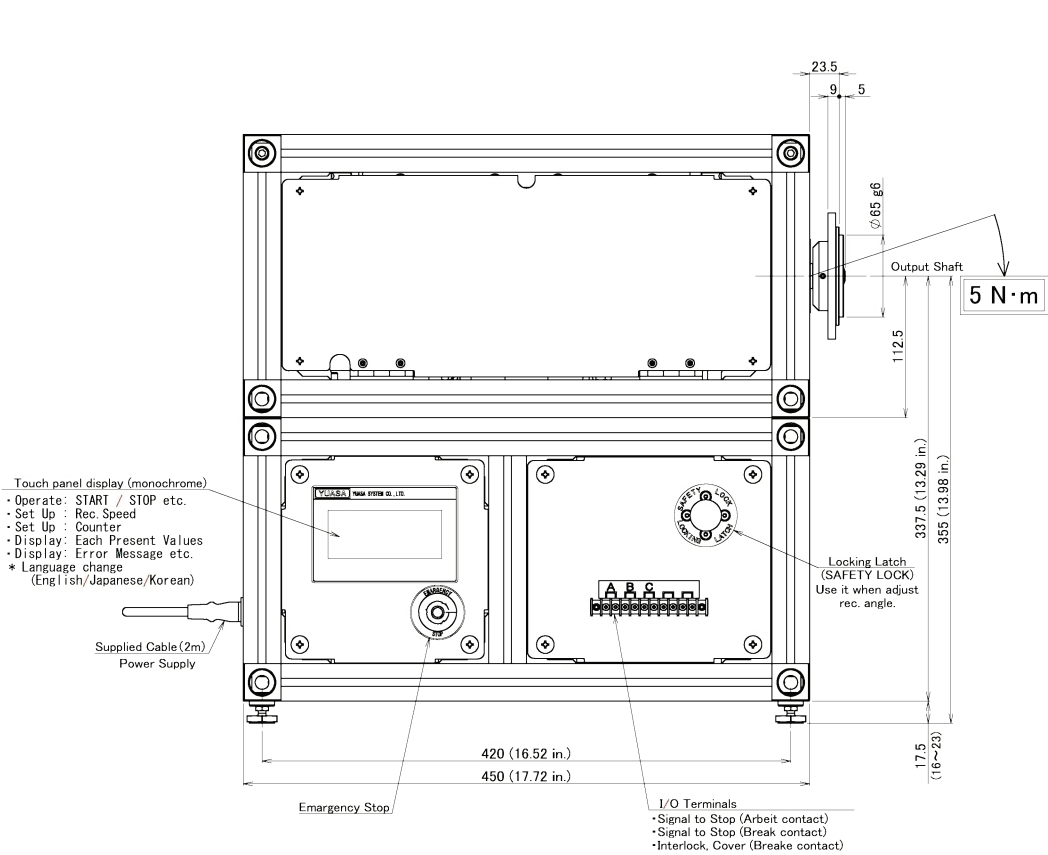
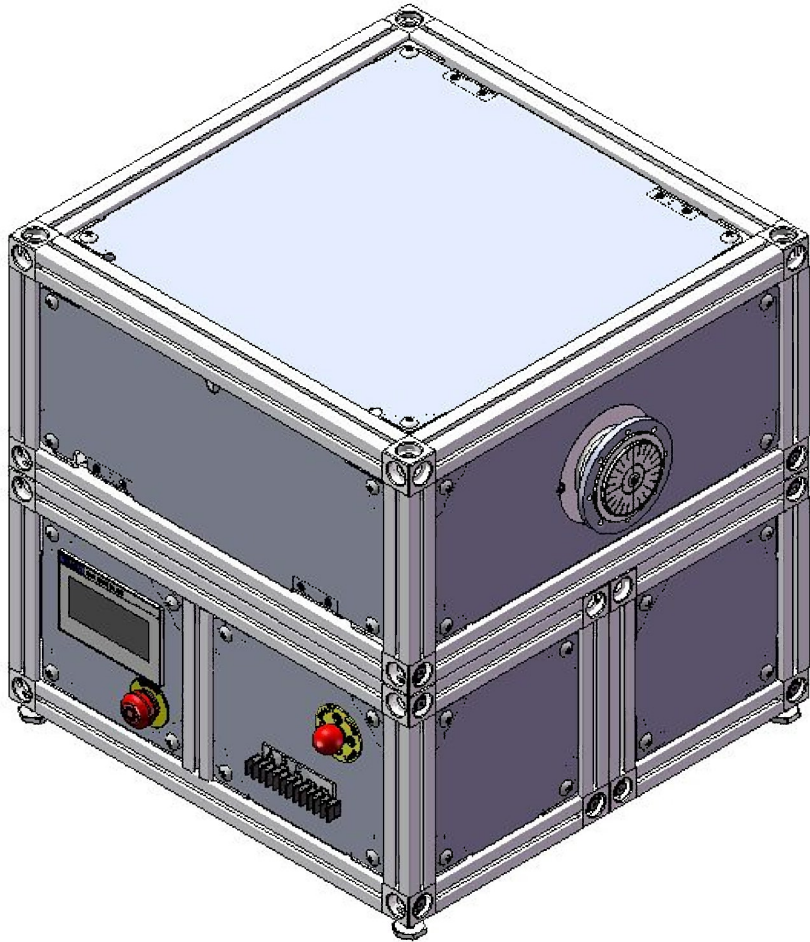
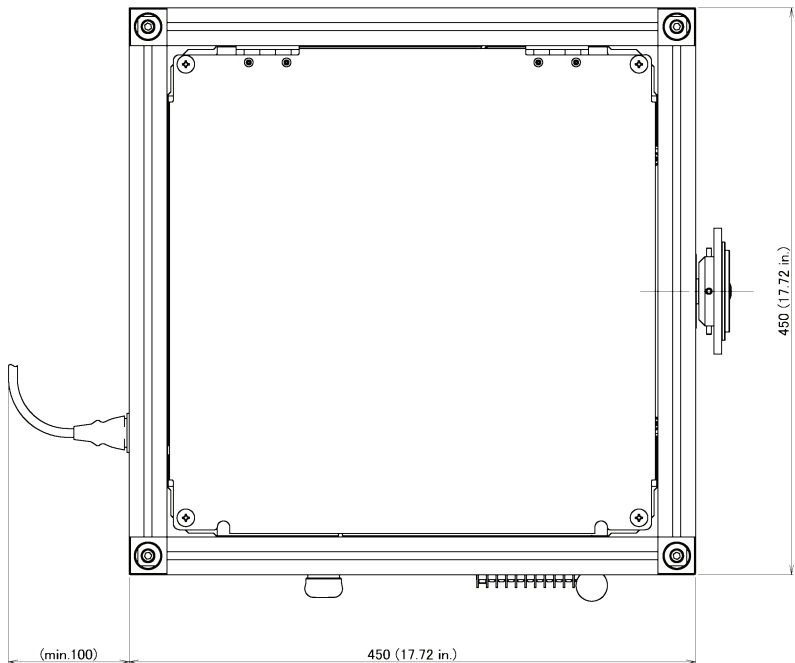




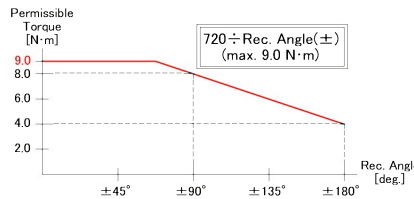
Permissible moment of inertia: I max.

・Confirm "permissible moment of inertia" with fomula below.
Moment of inertia (add up jigs and samples) must less than permissible moment of inertia in a test condition.

☆I max. [kg·m²] = 3.3 × 10⁶ ÷ Rec. Speed[r/min]² ÷ Rec. Angle[deg.]²

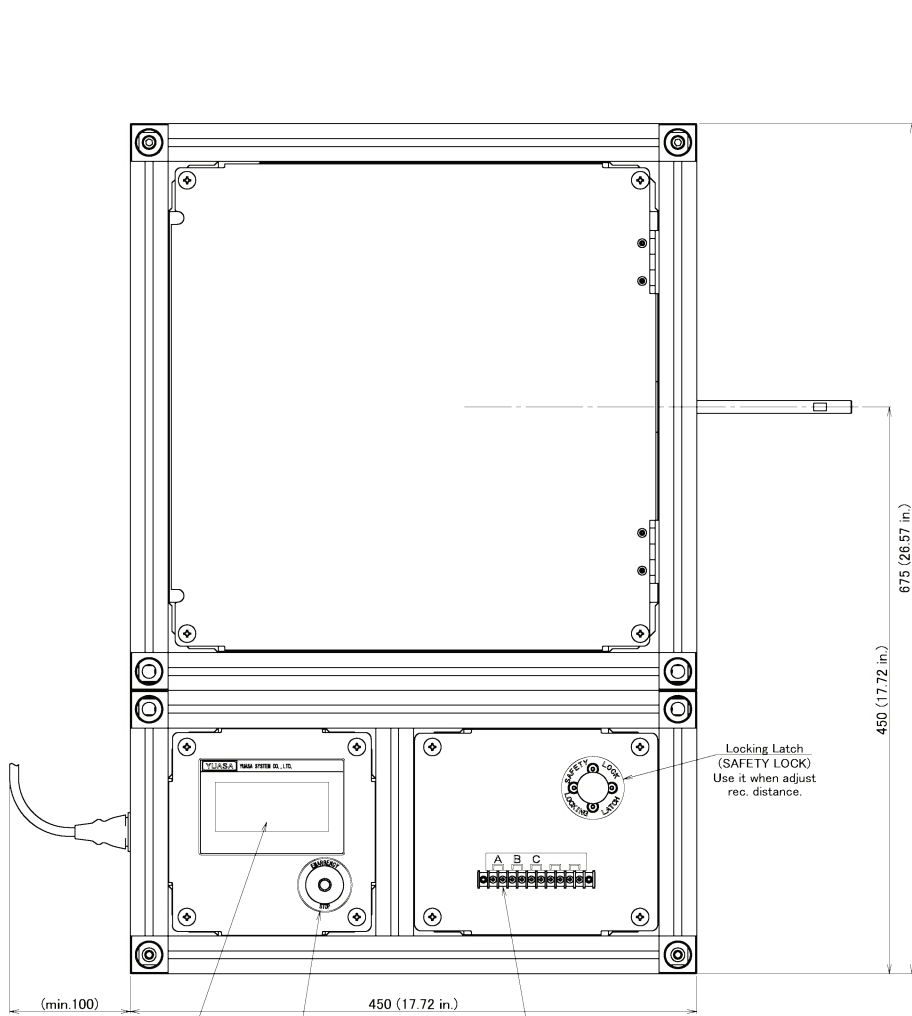
ex. Moment of inertia : 0.060 kg·m² Moment of inertia < Permissible moment of inertia
Reciprocating speed : Undecided r/min 0.060 < 3300000 ÷ √2 ÷ 90²
Reciprocating angle : ±90 deg. √ < 82.40 r/min

Permissible Torque

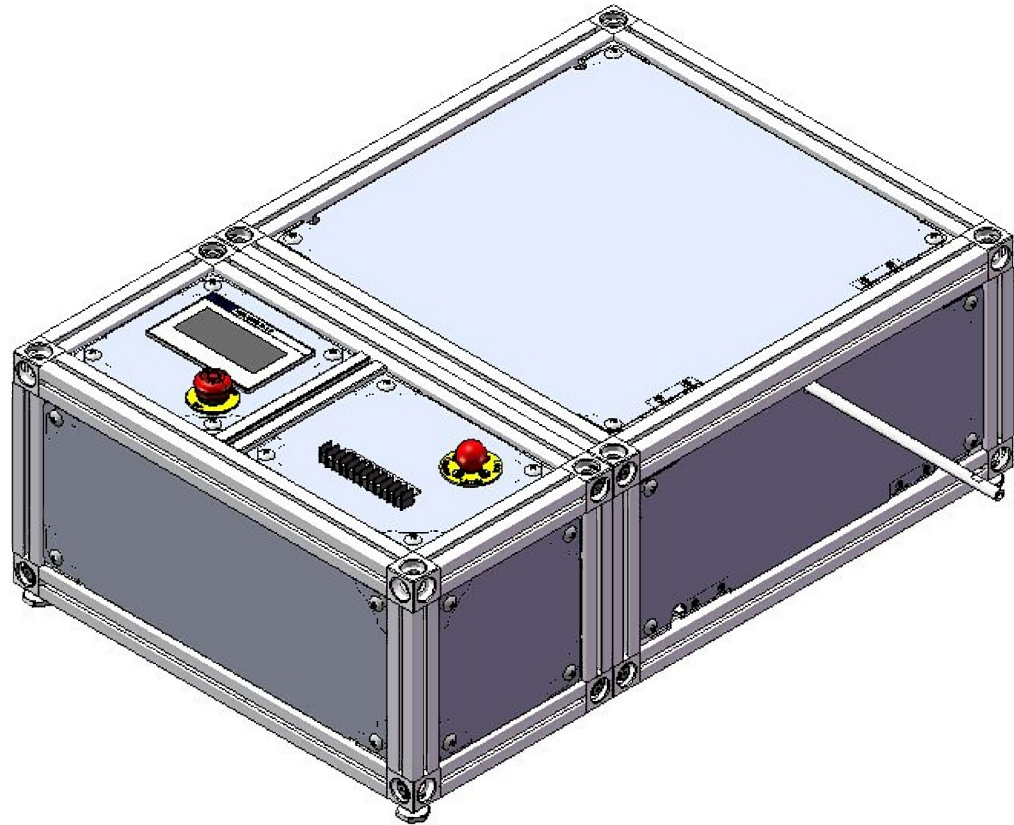


* Units of weights and measures shall be expressed in terms of the metric system (kg & mm)

SPECIFICATIONS				
ELECTRICAL POWER		AC100~110 V / 50 or 60 Hz / 1 Phase / 5 A (Op. Order: AC200~240 V / 50 or 60 Hz / 1 Phase / 5 A)		
MOTOR UNIT		Induction gearmotor / 3 Phases / 90 W (gear ratio: 1/40)		
RECIPROCATING SPEED		10~90 Rec. /min.		
RECIPROCATING ANGLE		0~±180°		
PERMISSIBLE TORQUE		Refer to the chart on the margin (max. permissible torque: 9 N·m)		
OUTPUT SHAFT MOMENT OF INERTIA		Refer to the fomula on the margin.		
OUTPUT SHAFT STATIC RATED MOMENT		5 N·m		
COUNTER		8-digits display (with pre-set)		
SAFETY INTERLOCK		Covers, adjusting part : Open or Close Locking Latch : Stand by or Not		
INSTALLATION ENVIRONMENT		Temp. : +5~+40° C (41~+104° F) Humi. : 15~85%Rh (No Condensation)		
材質 MATERIAL	第 3 角 法 THIRD ANGLE PROJECTION	尺 度 SCALE	名 称 TITLE	Endurance Testing System on Desk TCD111L DWG. No. ET000S007-001 番 号
質量 MASS	作成日付 DATE	1:3	Y. Okazaki	
表面処理 SURF. AC. PROCESSING	承認 APPROVED	Jun. 14, 2016	H. Sasaki	
熱処理 HEAT TREATMENT	検 図 CHECKED DESIGNED	N. Ando		



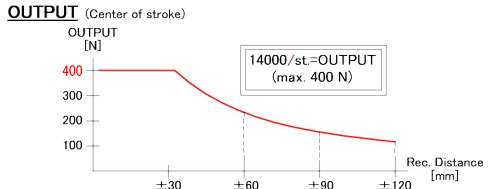
- Touch panel display (monochrome)
- Operate: START / STOP etc.
 - Set Up: Rec. Speed
 - Set Up: Counter
 - Display: Each Present Values
 - Display: Error Message etc.
 - Language change (English/Japanese/Korean)
- Emergency Stop
- I/O Terminals
- Signal to Stop (Arbeits contact)
 - Signal to Stop (Break contact)
 - Interlock, Cover (Break contact)
- Locking Latch (SAFETY LOCK)
Use it when adjust rec. distance.



Max. Load and Acceleration of the output shaft (both ends of stroke)

◇Confirm the proportion of output with formula below.
(Must consider hardness of sample, movement resistance and etc. besides acceleration.)

- Reciprocating speed : v [r/min]
 - Reciprocating distance : $\pm L$ [deg.]
 - Mass of object that move : m [kg]
- max. Acceleration $\langle \alpha_{max} \rangle = L \times v^2 \times 1.1 \times 10^{-5}$ [m/s²]
max. Load = $\alpha_{max} \times m$ [N] < 400 [N]



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

SPECIFICATIONS				
ELECTRICAL POWER		AC100~110 V / 50 or 60 Hz / 1 Phase / 5 A (Op. Order: AC200~240 V / 50 or 60 Hz / 1 Phase / 5 A)		
MOTOR UNIT		Induction gearmotor / 3 Phases / 90 W (gear ratio: 1/40)		
RECIPROCATING SPEED		10~90 rec./min.		
RECIPROCATING DISTANCE		0~±120 mm		
OUTPUT		Refer to the chart on the margin. (max. permissible loads: 400 N) * Must support moving part with something, linear motion guide.		
OUTPUT SHAFT		φ10 mm (internal thread M6 depth 12)		
COUNTER		8-digits display (with pre-set)		
SAFETY INTERLOCK		Covers, adjusting part: Open or Close Locking Latch : Stand by or Not		
INSTALLATION ENVIRONMENT		Temp. : +5~+40° C (41~+104° F) Humi. : 15~85%rh (No Condensation)		
材 質 MATERIAL	第 3 角 法 THIRD ANGLE PROJECTION	尺 寸 SCALE	名 称 TITLE	Endurance Testing System on Desk
質 量 MASS	about 50 kg (110.2 lb)	作 成 日 付 DATE	称 号 DWG. No.	ET000S007-002
表面処理 SURFACE PROCESSING	承認 APPROVED	Y. Okazaki	図 番 DESIGNED	N. Ando
熱処理 HEAT TREATMENT	検 査 CHECKED	H. Sasaki	設 計 DESIGNED	N. Ando