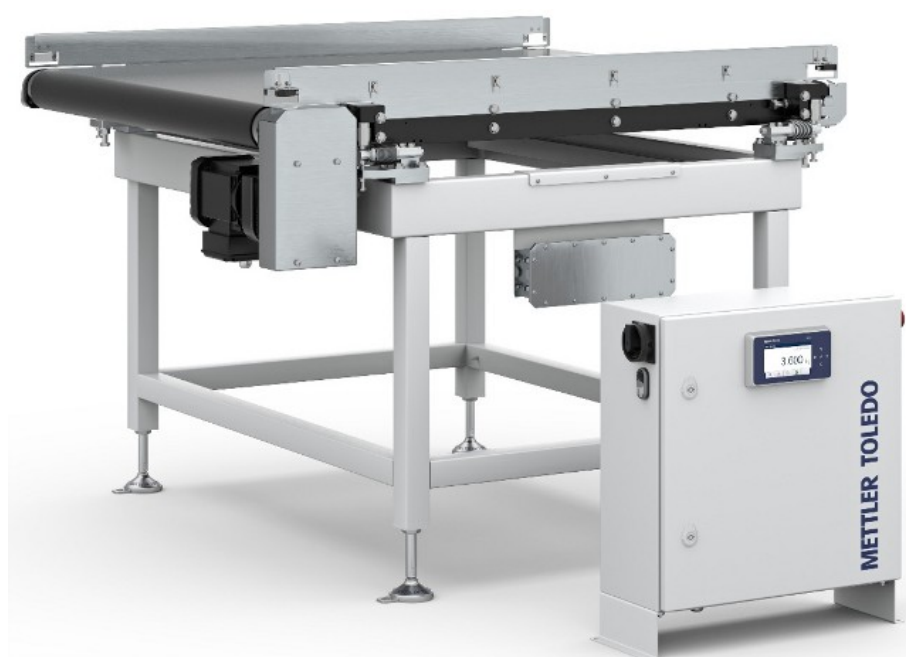


C22 TLW360 Cargo

Dynamic Scale



METTLER TOLEDO

1 Documentation

- Read this manual BEFORE operating or servicing this equipment and FOLLOW these instructions carefully.
- SAVE this manual for future reference.

Compliance Information

National approval documents, e.g. the FCC Supplier Declaration of Conformity, are available online and/or included in the packaging. ► www.mt.com/ComplianceSearch

Manuals Download

Customers can click the link ► www.mt.com/TLW360-downloads or scan the QR Code below to download product manuals.



Feedback

We always strive to provide high-quality information and value your feedback. If you find ambiguous information or mistakes in this manual, please do not hesitate to let us know by e-mail.

► feedback.manuals.industry@mt.com

2 Safety Instructions

The layout and use of the safety messages in this manual follow ANSI Z535.6.



WARNING

- 1 Only work on the electrical systems if the person has the applicable electrical training as defined.
- 2 Remove all power from the equipment before doing any work.
- 3 Do not operate the equipment without the properly functioning safeguards in place.
- 4 Do not climb or stand on the equipment.
- 5 Be careful around the equipment to avoid hitting the head, arms, or other body parts against the equipment. Be careful if the equipment is over the head.
- 6 Ensure that all personnel who work on or near the equipment are capable of doing all operations in a safe way.
- 7 Do not wear loose clothing, jewelry, long hair, or anything that can become entangled with the equipment.



CAUTION

- 1 Understand the hazards of the equipment and the risks related to those hazards before working on or near the equipment.
- 2 Do not operate the equipment beyond the limits of the design specification.
- 3 Do not operate the equipment in the reverse direction of transport.
- 4 Do not stare directly at any lights or lasers.



NOTICE

- 1 Only use the equipment to automatically inspect and sort products, according to the procedures in this manual. Using the equipment in any other way constitutes misuse.
- 2 Do not add parts or modify the equipment without approval from METTLER TOLEDO.
- 3 Avoid prolonged exposure to ultraviolet (UV) light, infrared (IR) light, and lasers.
- 4 Do regular inspections of the equipment.
- 5 If there is a fault or change in the equipment behavior, stop the equipment and inform responsible personnel.

Disposal

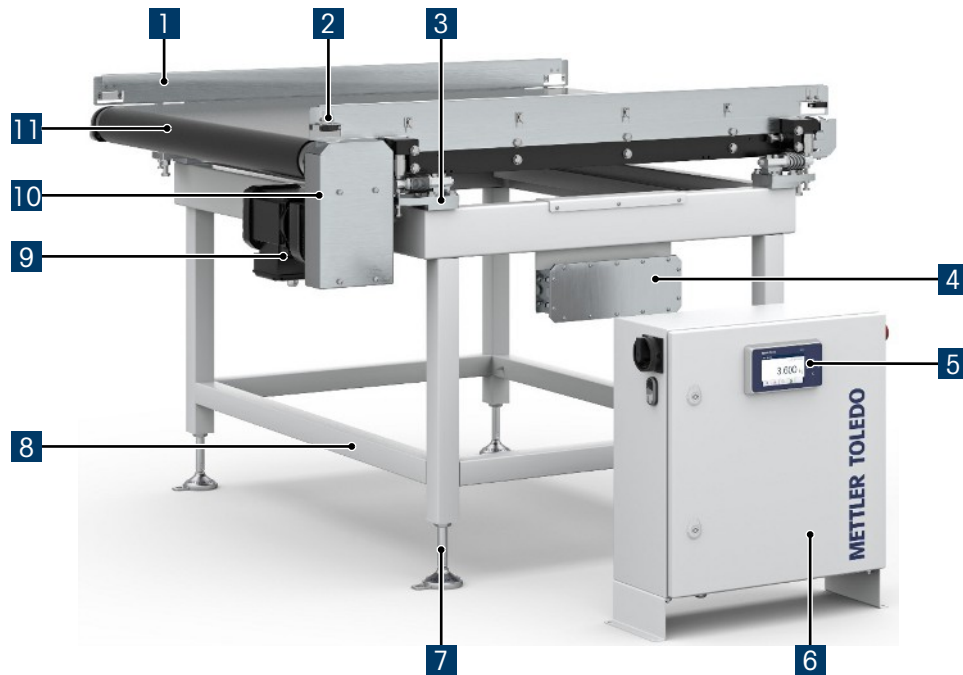
In conformance with the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), this equipment may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this equipment in accordance with local regulations at the collecting point specified for electrical and electronic equipment. If you have any questions, please contact the responsible authority or the distributor from which you purchased this equipment. Should this equipment be passed on to other parties, the content of this directive must also be passed on to the other party.



3 Introduction

3.1 Equipment Overview

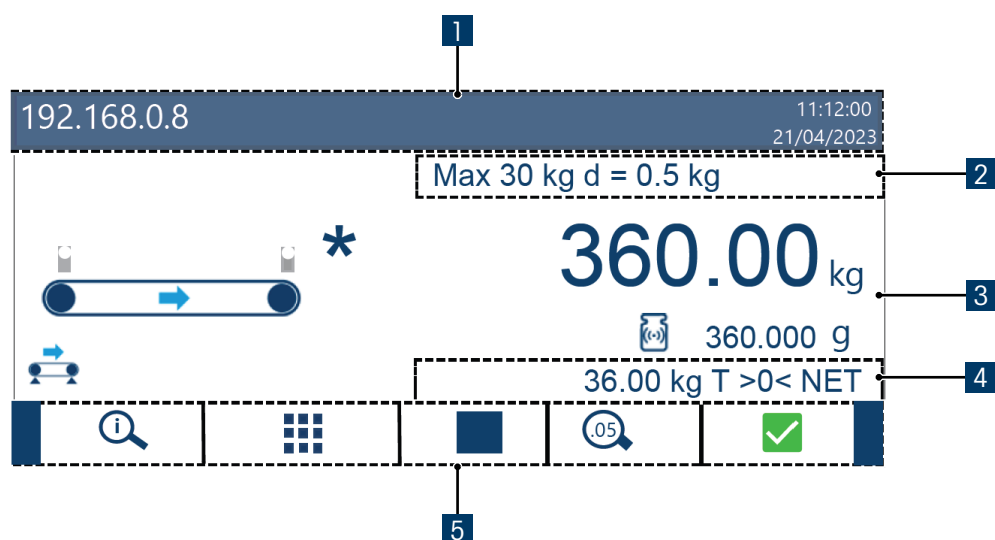


#	Component	#	Component
1	Guide rails	7	Leveling foot
2	Light barrier	8	Frame
3	Weigh bridge/load cell	9	Motor
4	Sonic junction box	10	Timing belt with guard
5	Terminal with human machine interface (HMI)	11	Weigh conveyor
6	Control enclosure		

3.2 Technical Data

Environmental Conditions	
Temperature	-10 °C - 40 °C
Humidity	5 – 80 % relative air humidity, non-condensing
Weighframe	
Material of the standard design	Carbon steel
Electromagnetic environmental classification	E2
Mechanical environmental classification	M1
Operating temperature	-10 °C - 40 °C
Noise emission	< 70 dB (A) (normal operation, without sorting)
Power connection	230 VAC, Single Phase, 50/60 Hz, with Neutral (N) and Protective Earth (PE) or 400 VAC (+/-10%), 3 Phase + N + PE (5-wires)
Power consumption	Approximately 0.7 kW
Weighing Functions	
Main function	Dynamic weighing

3.3 Home Screen of the Terminal



1 Shows system information			
192.168.0.8	Shows the IP address of the terminal for web interface access through the service port	11:12:00 21/04/2023	Shows the current time
2 Metrology line			
Max 30 kg d = 0.5 kg	Shows the capacity and increment size information		
3 Weight display			
360.00 kg	The transmitted gross weight of the product	 360.000 g	Shows the current tare value
	Indicates that the load cell has to be set to zero		Shows the weighing process graphically
	Indicates that the dynamic mode is activated		Indicates the status of the light barrier. Light barrier is not activated.
	Indicates that the weighing is completed		Indicates the status of the light barrier. Light barrier is activated.
	Indicates that the load cell is set to zero point		
4 Current operational information			
36.00 kg T >0< NET	Tare value, center of zero status, net mode		
5 Shows functions of the soft keys			
	Enters information menu		Enters login menu
	Indicates that the dynamic mode is activated		The Smart5™ system status
	Indicates that the static mode is activated		
	Indicates the font size		

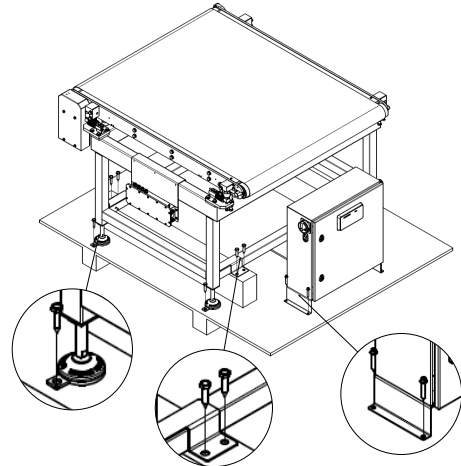
4 Installation

4.1 Tools

- Forklift
- Pistol drill
- Open end wrenches
- Level ruler
- Drill bit
- Adjustable wrench
- Multi meter
- Hammer
- Flat and cross head screwdriver

4.2 Unpacking and Transporting

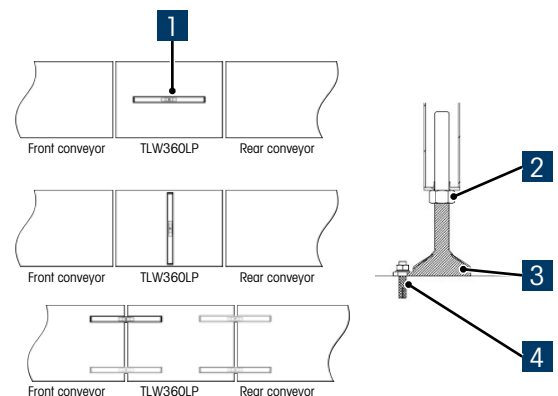
- 1 Remove the front of the crate.
- 2 Unscrew all fixing bolts at 4 corners.
- 3 Remove the packaging materials.
- 4 Use a forklift to move the equipment to the desired place.
- 5 Keep a 5 mm gap around the equipment to avoid touching other machines or walls.



4.3 Mechanical Installation

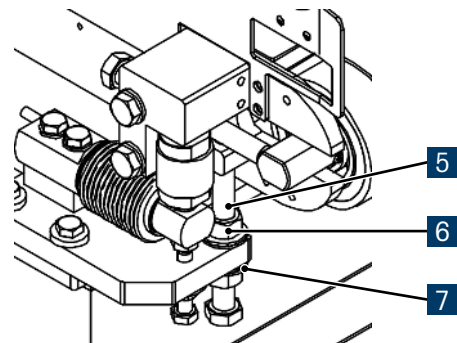
Leveling

- 1 Adjust the leveling feet (3) to keep the equipment frame and the upstream and downstream machinery at the same height.
- 2 Place the level ruler (1) on the conveyor belt horizontally.
- 3 Adjust the leveling feet based on the measurement results until the equipment is completely level.
- 4 Tighten the lock nuts (2) of the leveling feet.
- 5 Bolt (4) all leveling feet to the floor.



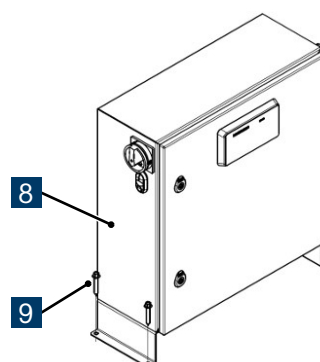
Removing the Transport Locks

- 1 Loosen the upper and lower nuts (6) at the threaded rod (5).
- 2 Remove the threaded rod, nuts and wedge lock washers (7) completely.
- 3 Repeat the steps above to remove all four transport locks.
- 4 Store removed components for future use.



Installing the Control Enclosure

- 1 Position the control enclosure (8) correctly.
- 2 Bolt the four leveling feet (9) to the floor.



4.4 Electrical Connection



DANGER

- 1 The equipment must be connected to and disconnected from power supply by an electrician or equally qualified personnel.
- 2 Observe the wiring diagrams when connecting and disconnecting the equipment.
- 3 Ensure that the connection complies with the safety standards and regulations in your country.
- 4 For correct PE grounding, observe the following rules:
 - a) Use stranded cable with 10 mm² gauge or larger and a total resistance of max. 1 ohm.
 - b) Do not use wire nuts.
 - c) Do not daisy chain the PE ground connection.
 - d) Only use the ground studs at the machine frames and inside the control enclosure.



CAUTION

- Use only genuine METTLER TOLEDO spare parts and cable assemblies with this equipment.

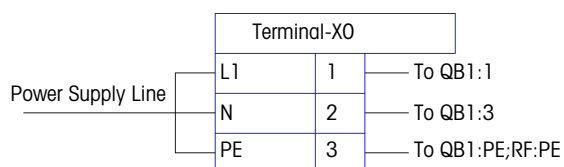


NOTICE

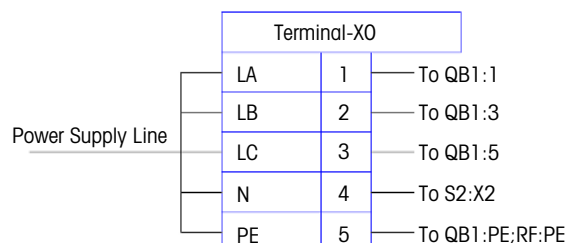
- Ensure that the electrical ratings on the nameplate of the equipment correspond to the on-site power supply.

Power Connection

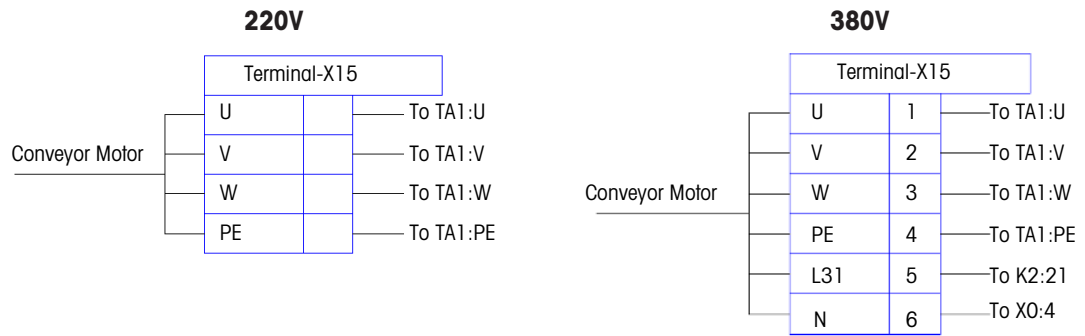
220V



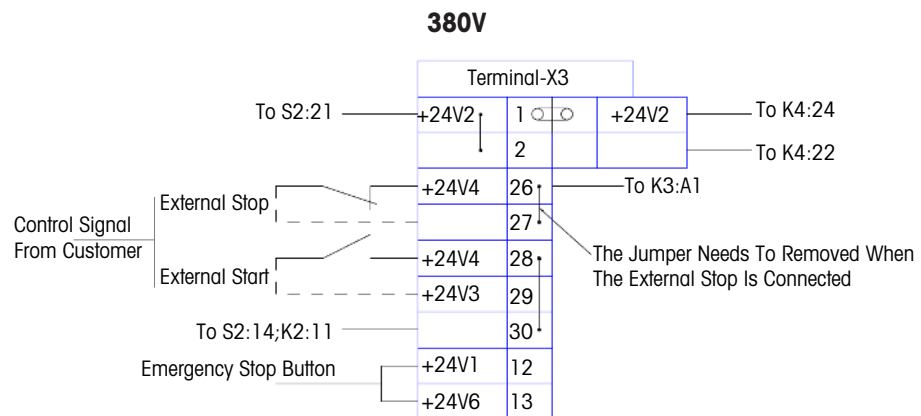
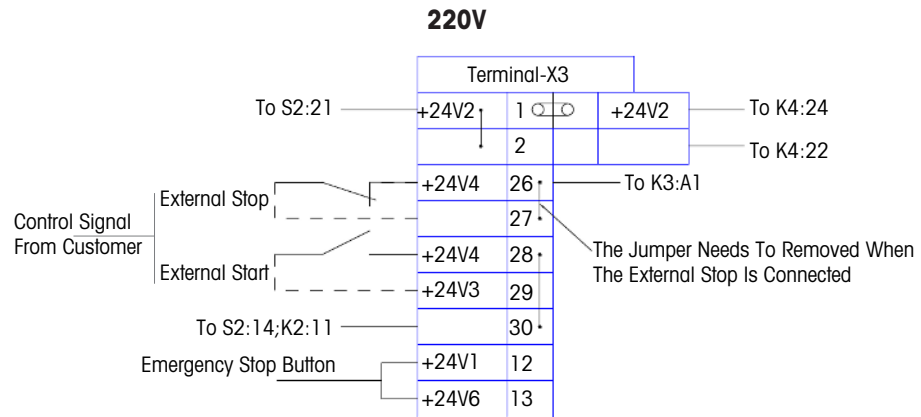
380V



Conveyor Motor Connection



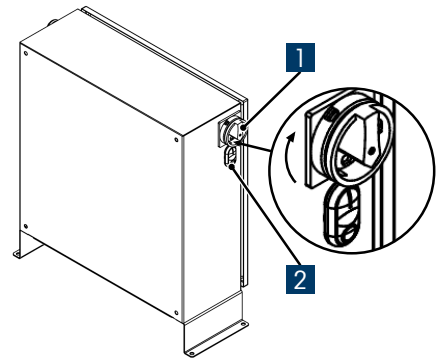
External Start / Stop Connection



5 Operation

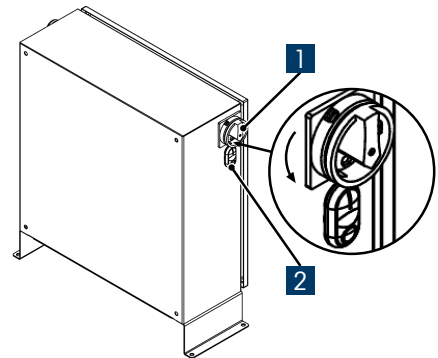
Starting the Equipment

- 1 Rotate the main switch (1) clockwise to the position "ON".
➔ The system starts up.
- 2 Press the start button (2).
➔ The conveyors run.



Stopping the Equipment

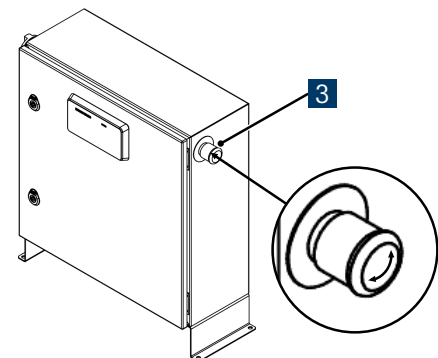
- 1 Press the stop button.
➔ The conveyors stop.
- 2 Rotate the main switch (1) counterclockwise to the position "OFF".
➔ The system shuts down.



Emergency Stop

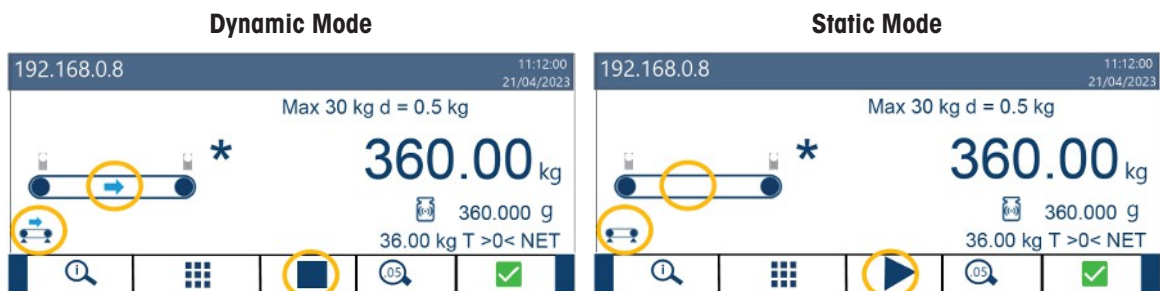
Note Only use the E-stop to stop the equipment in an emergency or malfunction.

- 1 Press the E-stop button (3).
➔ All hazardous energies are cut off.
 - 2 Rotate the E-stop in the direction of arrows to release it.
 - 3 Press the start button.
- ➔ The conveyors run and the system is operating.



Weighing Modes

The system is in static mode when the conveyor is switched off and in the dynamic mode when the conveyor is running.



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Subject to technical changes.

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