

Agricultural Machinery Testing and Evaluation Center 1977

ACR 035:2023 CHECKLIST AND REMINDERS FOR THE AMTEC TEST CONDITIONS AND REQUIREMENTS FOR MULTICROP GRATER

Application for AMTEC Te	st					
The test applicant shall subm	it AMTEC-OP-F01 (Agricultural Machinery Test Application Form) together with					
the following requirements:						
□ AMTEC-OP-F16 (Waiver	for Machine Specifications)					
□ AMTEC-OP-F18 (Data P	rivacy Consent Form)					
■ Technical Specifications	of the Machine					
The test applicant shall submit any document/s indicating the specifications of the machine upon application for testing. In case the said document/s are not available, the applicant shall fill out the Machine Specifications Sheet provided by AMTEC upon request. □ Operator's manual with complete specifications as stated in Annex B of PNS/BAFS PAES 250:2018 □ Brochure □ Machine specifications sheet (shall be filled out upon request and receipt of copy from AMTEC in						
case the manual or brock Preparation and Operation	,					
Preparation and Operation of the Machine The multicrop grater shall be ready for testing. The officially designated operator of the test applicant shall operate, demonstrate, adjust, and repair. Meanwhile, the officially designated representative shall decide on matters related to the operation of the machine.						
Running-in of the Machin						
A test run shall be conducted adjustments to the machine.	ted prior the official test as to check its condition and make necessary					
■ Test Material						
The test applicant shall prepare their desired material (fresh papaya, cassava, carrots, sweet potato, arrow root, and other crops) that are sufficient for the three (3) trials, the laboratory tests, and running-in. The test trials shall be at least fifteen (15) minutes.						
Other Test Necessities						
The following shall also be adequately supplied during the conduct of testing: Extension plugs for electric-powered graters. Weighing scale (at least 50 kg capacity)						
■ Machine Setting						
,	tested at the manufacturer's recommended setting for the following:					
■ Performance and/or Fabrication Test Requirements						
AMTEC shall conduct various tests and verification on different performance parameters of the machine including the following requirements as per PNS/BAFS PAES 250:2018:						
■ Fabrication Requirements						
Criteria	Requirement as per PNS/BAFS PAES 249:2018					
General Requirements	□ Different components shall be generally made of steel bars, me sheet/plate, and mild steel. □ Parts that are in direct contact to the fresh crop and grated product she made of corrosion-resistant and food grade materials in compliance the food safety standards. □ It shall be ran by an electric motor.					
Frame and Stand	·					
Safaty Machaniana	☐ It shall be present to prevent operators to use their bare hands in pushing					

the fresh crop into the hopper.

Safety Mechanism



Agricultural Machinery Testing and Evaluation Center 1977

Others	☐ Bolts and nuts, screws, bearings, bushing, and seals shall conform to food
Officers	safety requirements, PAES, or other international standards.

■ Performance Requirements					
Criteria	Requirement as per PNS/BAFS PAES 249:2018				
	Criteria	Performance Data			
	Grating capacity, kg/h	As per manufacturer's specifications			
Performance criteria	Grating recovery, percent, minimum	94			
	Grating efficiency, percent, minimum	90			

■ Safety, Workmanship, and Finish

_					• • • • • • • • • • • • • • • • • • • •					10 /0 / 50	D + E0 0 10 0016	`
11	$N \cap C \cap$	ו ובעובו	chalila	contorm	With the	nravicianc	alvan ir	1 Annav	$\Delta \cap t PN$	$I \setminus I \setminus A \cap A \cap A$	PAES 249:2018	₹.
ш.	LIOISC			COLIDITI		DI O VISIOLIS	arver II		Δ OI I I	$10/10$ Λ	1 /\L\ \Z\ \Z\ \T\	J.

- ☐ There shall be ear muffs or other ear protective device provided for the operators to use when 95 db (A) is exceeded during operation.
- ☐ Multicrop grater shall be free from any manufacturing defects that may be detrimental to its operation.
- ☐ Grating mechanism shall be replaceable when needed. Provisions for the adjustment of the clearance shall also be enforced.
- ☐ The rotating components of multicrop grater shall be statically and dynamically balanced. There shall be covers or guards for the rotating parts to protect the operator.
- □ No paints for parts that will be in direct contact with the crop.
- ☐ Any surfaces not in contact with the test materials shall be free from rust and shall be painted/coated properly.
- ☐ The external part of the multicrop grater shall be free from sharp edges and rough surfaces that may injure the operator. Warning notices shall be provided in accordance with PAES 101:2000 Agricultural Machinery Technical Means for Ensuring Safety General.
- ☐ Mechanism for emergency stop shall be provided.
- ☐ Grating chamber shall be totally enclosed to avoid contamination.
- ☐ There shall be magnets to prevent metallic materials from entering the grating chamber.

Suspension and Termination of Test

If the test material does not conform with the recommended quantity and characteristics, AMTEC shall not proceed with the test. Should the test applicant request the conduct of the test despite the non-conformity to the test requirements identified by AMTEC, the applicant shall sign the AMTEC Waiver for Nonconformity to Test Requirements.

☐ AMTEC-OP-F24 (Waiver for Nonconformity to Test Requirements)

On the other hand, if the machine stops due to breakdown or malfunction during the test run affecting the machine's performance, the test may be suspended. If the machine cannot continue the operation, the test shall be consequently terminated.

■ Other Assistance During Test

- 1. For field and laboratory testing outside the AMTEC premises, the applicant shall shoulder the transportation expenses (i.e. fuel, toll fees, vehicle rental, plane fare, sea fare, etc.) of the AMTEC Staff assigned for the testing activity.
- 2. The applicant may assist the AMTEC Staff in looking and/or making arrangements for hotel accommodation near the test site.
- 3. The applicant shall provide drinking water to the AMTEC Staff during the testing activity.
- 4. The applicant shall provide any form of shed or sunshade (e.g. tent, umbrella, etc.) for the test equipment, samples (if applicable) and AMTEC Staff during the testing activity in the field.
- 5. The applicant is requested to assist the AMTEC Staff in finding any means to access a safe and convenient restroom near the test site during the testing activity.



Agricultural Machinery Testing and Evaluation Center 1977

■ Testing Fee

- 1. The testing fee for multicrop grater is PhP 9,000.
- 2. To proceed through AMTEC test, the test applicant shall settle at least 50 % of the testing fee which is non-refundable but transferrable.
- 3. In cases of additional testing during the field, the test applicant shall immediately pass the required documents and settle at least 50% of the testing fee within 5 working days after the testing proper.

 ☐ Additional testing, number of machines:
- 4. Payment/s shall be directed to the following:

 ☐ Through UPLB Cashier's Office (8AM to 12PM): AMTEC Trust Fund Code No. 8271632-40A2040101000

 ☐ Through Landbank (8:30AM to 3PM): UPLB Trust Fund Account No. 1892100507 or UPLB FI Account No.

1892-1003-29 Other Reminders

- 1. All manufacturers, fabricators, assemblers, and importers (MFAI) shall secure a Certificate of Conformity (CC) from the Bureau of Agricultural and Fisheries Engineering (BAFE) which guarantees that their agricultural and fisheries machinery conforms with PNS/BAFS PABES or other relevant standards identified by BAFE. More information about the application for CC can be found at http://bafe.da.gov.ph/index.php/certificate-of-conformity-of-manufacturers-fabricators-assemblers-distributors-dealers-importers-and-exporters/.
- 2. All MFAI shall employ an Agricultural and Biosystems Engineer (ABE), as mandated by RA 10915 (ABE Law), who shall facilitate all activities and concerns pertinent to AMTEC testing and BAFE requirements. Do you currently have an ABE in your roster of employees?

 Yes
 No