Brugger

FEINMECHANIK

TPG-U Carrying Strength Tester

The Carrying Strength Tester TPG allows you to determine the strength of handles on packaging material, such as carrier bags. Constant up and down movements simulate the stress on handles. Examples are handles on filled carrier bags. The cycle frequency and the drop height may be adjusted in a wide range, thus allowing a perfect adjustment to the handles .As soon as the specified number of cycles has been reached, the device is switched off automatically.

Our Carrying Strength Tester has been successfully used for the following:

- · Testing new material during development
- · Testing specimen for the quality control process

Features

- Good reproducibility: Constant test conditions ensure a good reproducibility of the test results.
- User-friendly operation: This easy-to-use device can be put into operation anywhere; there are no special laboratory requirements.
- Adjustable drop heights: Using different drop heights ensures a perfect adjustment of the materials being tested.
- Wide selection range for the cycle frequency: The cycle frequency: The cycle frequency from 1 to 100 cycles can be adjusted to the required test conditions.
- Long life: High-quality manufacturing adds value and reduces overall downtime.
- Heavy-duty three-phase motor: The powerful threephase motor is driven by a frequency converter (230 V), allowing a variable number of revolutions.
- No maintenance: For the TPG-U, no special maintenance efforts are required.
- **Safety:** A special construction virtually eliminates danger of injuries during the operation of the unit.
- Future: The device meets the increasing QC requirements for the packaging industry.

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Service	 Hotline: Our support team helps and assists you when troubleshod support team by phone and by er Introduction: This service is free to four hours. Thanks to the real-l instructor, participants will be able Customisation: Let us tailor our cific lab and test requirements. 	you to determine the suitable equipment oting issues arise. You can contact our nail. of charge and lasts approximately three ife operation demonstrated by the e operate the unit in a reliable way. devices and software to meet your spe-
Description	A powerful three-phase motor is driven by a frequency converter (230 V). Thus, no special three-phase connector is needed. The frequency converter also allows for a variable number of revolutions together with constant performance of the motor. Using an eccentric cam, the rotation of the three-phase motor is transformed into up and down cycle movements of a lever arm. The special shape of the eccentric cam provides a slow up movement followed by a drop, thus simulating a free fall from a specified drop height. This variable drop height can be adjusted in four steps between 10 mm to 30 mm. As soon as the specified number of cycles has been reached, the device is switched off automatically.	
Test method	Fill the carrier bags with the nomina For instance, you can use cloth bag sand). At the TPG-U, set the desire Adjust these two parameters accord ulations. Example: W. Teichmann: Eine einfa Bestimmung der Tragefestigkeit von Rundschau 30 (1979) Nr. 5. Techn. Affix the filled carrier bag with one of holding bracket. Now start the test.	al filling weight using a suitable charge. gs filled with polythene granulate (or fine d number of cycles and the drop height. ding to the requirements of your test reg- ache und praxisnahe Methode zur n Kunststofftragetaschen. Verpackungs- wiss. Beilage S41 - 42. or two handles to the hook using the
Evaluation	 Depending on the underlying test recriteria, such as: Maximum number of cycles need Maximum number of cycles need Checking the occurrence of dama Evaluation using a endurance grapackage test; testing of seams at 	egulations, there are different evaluation ed to tear the handles ed to show first signs of damage age after a set number of cycles aph according to DIN 55 445, sheet 3, sacks, evaluation method
Specifications	Cycle frequency: Drop heights: Preset number of cycles (counter): Dimension: Weight: Storage temperature: Normal operating temperature: Relative humidity (RH): Electrical connection:	1 - 100 per min. 10/15/23/30 mm up to 99999 48 x 42 x 28 cm (L x W x H) 32.5 kg 5°C to 50°C 23°C max. 80%, non-condensing 230 V/50 - 60 Hz, power consumption 350 W, approx.