On the GT and GTL flow ability testers a special dynamic balance is integrated which allows the user to measure stable weight while the sample is falling on it.

The GTB shown here, in addition to the standard flow properties, measures the angle of repose according to Pfrengle: the powder or granulate falls onto a plate with a specified surface and creates a cone. An integrated driven laser measures the side wall of the built-up cone and the actual angle is calculated and displayed and/or printed.

On the basic GTL flow ability tester the pre-weighed sample is filled into the hopper and a light sensor located under the outlet of the hopper measures the flow time.

For determination of the flow-time of a pre-defined sample volume, hoppers with different volumes are available (standard 100 ml; 200 and 480 ml optional). Due to a special exchange system hoppers and outlet nozzles (standard 10.0, 15.0 and 25.0 mm Ø; others optional) can be exchanged within seconds.

The manual ERWEKA SMG is the unit for the reproducible determination of apparent (bulk) density which can be used with all free falling powders or granules.

Granulate Flow Testers

GTL
The GTL is the basic ERWEKA unit for testing the flow characteristics of powders and granulates.

GT
On the GT a special balance, which can measure stable weight while the sample is falling onto it, is integrated into the unit to determine the flow time of a sample weight or pre-specified sample volume, as well as sample weight, which falls within a specified flow time. For easy comparison a graph according to List and Müller (mass/time) is calculated and displayed and/or printed.

Controlled via the alpha-numeric keypad and the large graphic display, the GT is the ideal unit when documentation of the flow characteristics is required. Via the standard parallel printer interface hard-copies of the test-run results can be issued.

For powders and granulates with poor flow properties the GT can be equipped with a stirrer for the stainless steel sample hopper (480 ml standard, 100 and 200 ml optional).

GTB
The GTB, compared to the before described GT, offers an additional measurement principle according to Pfrengle, the “angle of repose”.

SMG
According to DIN ISO 697 and DIN 53 466, the apparent density is determined by measuring the mass of powder in a receiver of known dimension after filling from a funnel of a specified shape under specified conditions. Included in the delivery are the apparatus SMG 697 or SMG 53466, operating instructions and a calibration certificate.