

PRIMAX - Super HWD



The PRIMAX SHWD, trailer-mounted or van-integrated is a flexible solution from Grontmij for measurements on pavements subjected to really heavy traffic such as Boeing 777 or Airbus 380 aircrafts. Mounted on a double-axle trailer the equipment is independent of the towing vehicle and can be towed by any vehicle. The only cable connecting the trailer with the towing vehicle is the PC computer cable. The operator controls all FWD functions from the PC. This makes the measuring work simple and easy and only one operator is needed for the work. The measuring range is from 7-300 kN.

For heavy weight measurements

The PRIMAX SHWD is a flexible solution from Grontmij for measurements on pavements subjected to really heavy traffic such as Boeing 777 or Airbus 380 aircrafts. The loading range is 7-300 kN.

With its load range of 7-300 kN the PRIMAX meets the load of the Boeing B777-300ER having a single wheel load of 266 kN (26.6 tonnes) and the new Airbus A380-800F having a single wheel load of 285 kN (28.5 tonnes).



The geophones are easily accessible and simple to replace.



The weight system is 100% hydraulically operated. This gives good and stable control.



The four-split load plate allows good contact to the surface and accurate measuring.

Flexible system

Like all FWD equipment from Grontmij the SHWD is supplied with personal computer, Windows FWD software, time history module, transport lock, DMI (Distance Meter Indicator) integrated in the software, three temperature sensors, four-split loading plate, 10-18 geophones and warning lights.

Additional functions can easily be added such as video or marking equipment, GPS (Geographic Positioning System), which enables presentation of data in maps or general plans of site.

Back-calculation

For data treatment Grontmij supplies RoSy DESIGN, a back-calculation software for both road and/or airport data analysis. However, files generated from the equipment can be processed in any back-calculation program.

Safe and reliable system

Grontmij attaches great importance to supplying safe and stable equipment and the newest technology forms the basis of the FWD equipment.

The PRIMAX software incorporates alarms that are displayed on the computer screen. If the operator ignores vital warnings, certain functions cannot be performed with the FWD e.g. in connection with pavement temperature measuring:

After having inserted the asphalt temperature sensor in a hole in the pavement the sensor registers when the temperature is stable. The temperature is measured while the loading plate is

placed on the pavement. The loading plate cannot be raised before the temperature sensor is placed in its holder. The equipment cannot be driven to another position with the loading plate down and strategically placed emergency switches allows the operator to stop the equipment at any time while operating manually.



Multi-stop adjustable drop height ensures very accurate load configurations and pulse time.

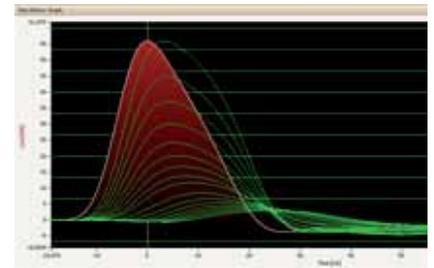
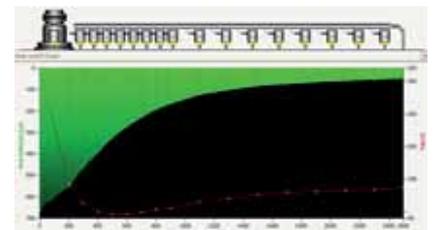


Chart from time history file based on 18 geophones.



Surface E modulus and deflection basin chart from measurement with 18 geophones.