

PRIMA-X - New Generation



Flexible and modular design

- 17 geophones
- New software platform - .NET
- Modular design – FWD > SHWD
- New electronics – wireless control optional
- RoSy Design NG back/forward calculation for 17 geophones
- SHRP Certificate

planning connecting
respecting
the future

The trailer version

The modular principle means that there is no need for investment in new equipment if the demands on the equipment change. Upgrading of the equipment from a standard 7-150 kN FWD to a 7-250 kN Heavy Weight Deflectometer (HWD) or even to a 7-300 kN Super Heavy Weight Deflectometer is easy and can be done within two days. Upgrads can be conducted on a customer's site. The number of geophones can also be decided by the customer – choose between 9 to 17 geophones – or even more if needed. The trailer-mounted FWD can also be integrated in a van without having to invest in new basic measuring equipment.



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 loading plate allows good contact to the surface and accurate measuring.

Flexible system - FWD > SHWD

Like all FWD equipment from Mastrad Limited the standard trailer-mounted FWD 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 load plate, 9-17 geophones and warning lights. Additional functions can easily be added such as video, pavement image system or marking equipment, DGPS (Differential Geographic Positioning System), which enables presentation of data in maps or general plans of site.

Safety system features - new

Mastrad Limited attaches great importance to supplying safe, stable and reliable equipment and the newest technology forms the basis of the FWD equipment. The PRIMA-X software incorporates alarms that are displayed on the computer screen.

System warnings

- Temperature measuring at 30 sec. intervals
- Max./min. deflection on each sensor
- Max./min. force
- Non-decreasing deflection
- Low battery capacity
- Repeatability

New electronics

- Standard Ethernet communication
- Wireless or cable communication
- Remote control of FWD via Internet – customer support
- 17 geophones and prepared for more
- -40 - +70 degrees Celsius transport range

- -25 - +70 degrees Celsius operation range
- Chock resistant up to 50g
- Increased sampling speed
- Real-time and simultaneous sampling for all channels
- Software platform .NET
- Data storage in standard database
- Storage of data in all data formats and other manufacturers' data formats

- SHRP certificate
- CROW certificate
- CE-marked according to the EU directives

RoSy NG Design - new

For data treatment Mastrad Limited supplies RoSy DESIGN NG, a back/forward calculation software for both road and/or airport data analysis. However, files generated from the equipment can be processed in any back/forward calculation program. RoSy DESIGN NG is new software for processing of data from 17 or more geophones.

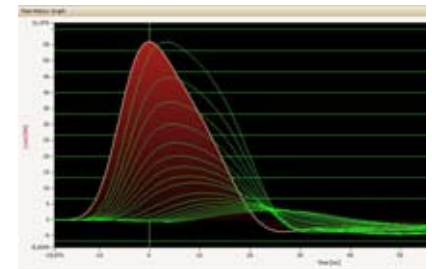
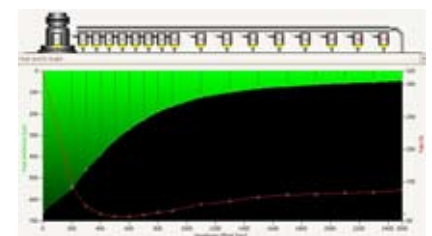


Chart from time history file based on 17 geophones.



Surface E modulus and deflection basin chart from measurement with 17 geophones.