**The New chargING CONCEPT; Charmec MF 605 D, from Normet**

Normet, the mining and tunneling equipment and construction chemicals company, introduced its new MF seriescharging equipment concept; Charmec MF 605 D , in the MinExpo 2012 mining exhibition in Las Vegas, Nevada, USA.

The Charmec MF 605 comes with a new layout allowing enough space for ANFO or emulsion units in the center of the machine. The modular structure makes it easy to convert an ANFO charger to emulsion charger and vice versa if needed.

Operator’s work stand behind the ANFO vessels makes filling easy. An optional vacuum extractor mechanizes the ANFO filling as prills can be sucked direct from ANFO bags to the vessels.

In the ANFO process, the standard 2 x 500L ANFO vessels provide  enough explosive  capacity to charge most tunnel faces without need for refill during charging. Optional vessels 2 x 250 / 360 / 720 L are available for different  needs.

For the emulsion charging, an emulsion unit can be placed on the carrier.

Ready designed place for stick powder boxes, primers and detonators makes it possible to bring all the needed explosives to the workplace at once and eliminates the need for an additional explosive service vehicle.

The new NBB 3XS basket boom with a 2 men basket and lifting capacity of 500 kg is specially designed for charging works in tunnel faces and stopes. It can also be equipped with a safety bar or with a hydraulic FOPS approved safety canopy to protect the operator. When working at the face, the basket can be swiveled to access all points of the face providing a safe and ergonomic working position for the operator. With the NBB 3XS basket boom a maximum 28 feet (8,5 meter) high and 28 feet (8,5 meter) wide face can be charged from one set up.

The new turn-table design has made it possible to make a compact boom structure giving a shorter length in tramming position and better maneuverability in narrow tunnels. The Charmec MF 605 D can turn a 90 degree corner in 14 feet (4,2 meter) wide tunnels.During tramming, the basket rests on the rear platform, which protects the basket from collision and damage. As the basket rests on the platform there is also less load on the boom cylinders and pins.

Optional 4cum/min / 7 bar compressor enables self propelled charging in areas where reticulated air is not available.

The Charmec MF 605 D has a 110 kW Tier 3 diesel engine giving clean and efficient operation and a maximum speed of 15 mph (25 km/h) on the flat and 5 mph (8 km/h) up a 1:7 ramp.

The FOPS /ROPS approved safety canopy / cabin with pivotal operator's seat provides a comfortable compartment for the driver and his assistant. The optional enclosed cabin reduces the noise level to less than 75 dB.

Manual or automatic fire suppression system, and an automatic lubrication system are examples of the wide range of options and accessories available.

The Charmec MF 605 D has been designed together with our customers, especially our North American customers. Mike Rispin, Normet's Vice President and the head of Americas' region shares that, "The first of the Charmec MF 605 Ds' has been working for several months now in Nevada and the performance has been excellent. The customer is happy and therefore so are we”.

**About Normet**

Normet is a fast growing Finnish technology company with global operations. It provides advanced solutions for selected customer processes in underground mining and tunneling environments. The Normet Group develops, manufactures and markets machines, services, and construction chemicals for underground processes such as robotized concrete spraying, highly mechanized explosive charging and scaling, lifting and Installation, and logistics.

One of Normet's key missions is to improve the health and safety of the underground workers through the mechanization and automating the most demanding and dangerous stages of underground excavation, and improving the efficiency of its customers' processes by saving time and money.

Normet`s offering includes a comprehensive range of life time care (LTC) services for the equipment and the processes they are used for.

Today Normet is the global market leader in its market segment. Normet has its own sales and service companies in 5 continents, 22 countries and 36 locations. The Group´s net sales in 2011 was EUR 170 million. Normet currently employs close to 900 business professionals.

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