

Roof supports DM-6.1/15 were put into serial production

Two sections of the powered roof support DM 6.1/15 have been successfully tested under the complex mining and geological conditions of Dobropolskoye Mine Administration, and the upgraded roof support version is going to be put into mass production soon.



During three months, two sections of powered roof support DM-6.1/15 have been tested and operated together with the previous DM series in the ninth northern longwall of the seam m5 of horizon 450 m in the Dobropolskaya

Mine (Dobropolskoye Mine Administration, DTEK Dobropolyeugol). 260,000 t of coal was produced by the end of the tests.

Strength analysis was carried out, and one section was checked at the test stand STD2000 for

compliance with the requirements of both GOST R 52152-2003 and European standard EN1804-2001 at the Corum Druzhkovka Machine-Building Plant before the roof support was put into pilot operation.

Roof support DM-6.1/15 is used to keep light roof in the face area of the longwall when flat seams of 0.8-1.5 m with a dip angle of 35° along the strike are handled, up to 10° to the dip and to the rise, and in the mines, hazardous gas and dust, including over categorical ones, according to GOST 28597-90.

Roof supports DM-6.1/15 have been developed and manufactured to meet the demands of Ukrainian clients with due regard to geological features of our country.



Mikhail LYSENKO,
Chief Specialist
of Longwall
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«Our roof supports have proven themselves to be very efficient while operating at the soft floor because of reduced ground pressure within the front part of the basement. Roof support structure has been designed to be operated under the conditions of thin seams with complex mining geology. Not a single defect has been determined during three months of operation. The roof supports have been successfully tested at every phase under the real face conditions, and all coal production parameters have been met.»

Design features of the roof support:

- ✦ may be operated under the conditions of unstable roof and soft floor of the seam;
- ✦ convenient maintenance access to the main parts;
- ✦ efficient compatibility with any set of longwall equipment.

Integration of the control systems of the leading global manufacturers contributed to improvement of operation and control reliability.