

DUNLOP-ENERKA SUPPLIES SPECIAL HIGH SPLICE STRENGTH CONVEYOR BELTS FOR COAL-FIRED POWER STATIONS

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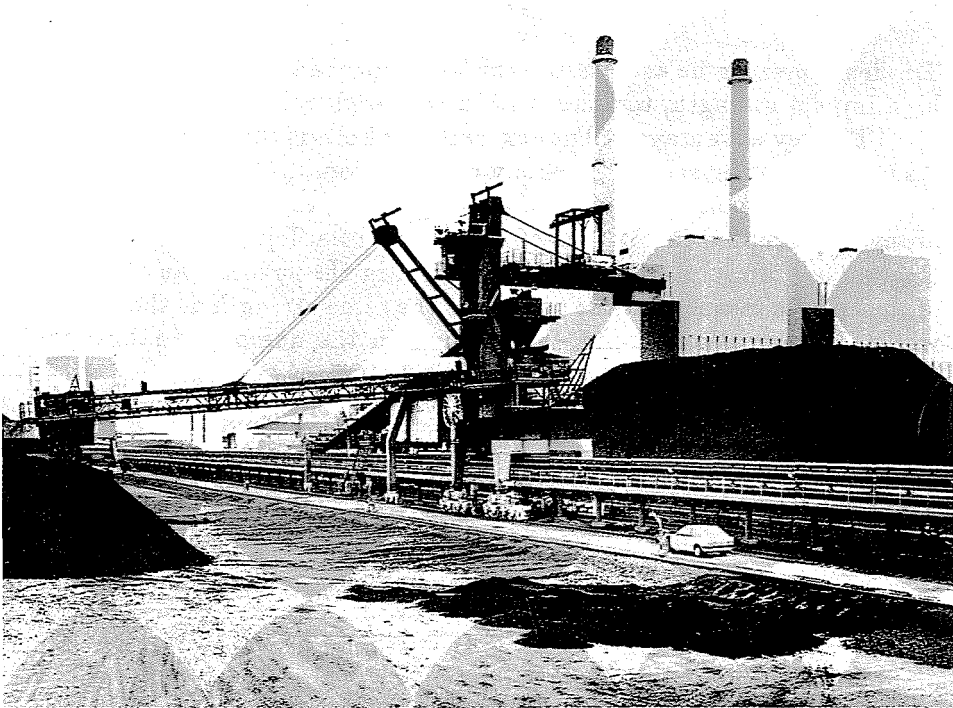


Fig. 1.

Dunlop-Enerka B. V. of Drachten¹, the Netherlands, has supplied Trioflex conveyor belts with a length totalling over 3000 metres to the coal-fired power station at Amsterdam.

The conveyor belts feature a 6 mm top cover and a 3 mm bottom cover, and are constructed in the wear resistant RA quality. The tensile strength of the belts is 400 N/mm or 500 N/mm, depending on the process unit concerned. Belt widths range from 1200 mm to 2200 mm.

Trioflex conveyor belts are particularly suitable for carrying coal and similar bulk materials. Trioflex conveyor belts feature a carcass of three fully synthetic EP (polyester/nylon) fabric plies with extra thick rubber interplies. EP fabrics are impervious to moisture, and have high tensile strength and low elongation. The longitudinal elongation at break is 14% – 16%. The three robust interplies are highly elastic and hence particularly suitable for absorbing large shock loads.

Very High Splice Strength

Trioflex conveyor belts possess very good mechanical properties, such as high impact strength, together with a very high splice strength.

The key advantage of Trioflex conveyor belts is the high bond strength resulting from the special three-ply construction.

In conventional belts with a multiply fabric carcass, one of the plies is always interrupted in the area of the splice. In a Trioflex belt by Dunlop-Enerka, the fabric plies overlies one another in the splice. The construction of these belts means that the splice has the same strength as the belt itself, whilst in conventional belts – depending on the number of fabric plies – the bond strength is not more than 75% or 80% of the belt.

The design of the Trioflex belt therefore guarantees optimized safety and minimized risk of fracture.

Trioflex conveyor belts are in use at a large number of power stations. All the coal-fired power stations in the Netherlands, in fact, are equipped with Trioflex conveyor belts.

Numerous power stations in other countries also use Trioflex conveyor belts.

An important consideration is that Dunlop-Enerka maintains stocks of all standard types of Trioflex conveyor belts.

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Authors are requested to submit three copies of one-page (single space) abstract to one of the organizers listed below. The deadlines are as follows:

October 15, 1994:	Abstract due
November 1, 1994:	Notification of acceptance of abstracts
February 15, 1995:	Four copies of manuscript due
April 15, 1995:	Notification of acceptance of paper
May 15, 1995:	Final manuscript on mats due

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