

Aramid straight-warp belts DX-FLEXAMID

Applications :



Different cover properties:
refer to the website.

Thickness and weight of the belts:
according to technical sheets on request.

Minimum diameter of use of the drums:
see details on Depreux brochures aboveground
application.

Joining procedures:
available on request.

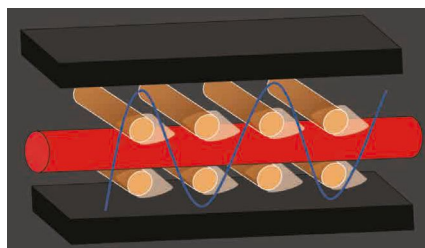
This belt is the lightest and thinnest of all the textile and steel casing options in the Depreux range. Aramid yarn has a specific strength (or toughness) 3 times higher than a polyester yarn.

It is naturally lighter than steel and its lengthening comparable. The aramid yarn is used in the warp and the polyamide yarns are generally used in the weft.

Belt structure

DX-FLEXAMID belt is composed of a straight-warp carcass, made with a layer of aramid straight chain fibre yarn, with two layers in the weft direction, upper and lower polyamide textile fibre yarn.

The yarn of the warp and weft are connected with a bonding polyamide yarn to ensure a strong construction.





Solid-woven belts with rubber or PVC covers DYNA - DYNA P

These belts are suitable for all types of handling where a long life is sought after and / or which are characterized by severe operating conditions such as the presence of large blocks, sharp materials or risk of longitudinal or transverse tears:

- For large inter-axis conveyors where metal-reinforced belts are traditionally used, DYNA belts offer an excellent alternative with good resistance to longitudinal and transverse tears, total carcass inertia to corrosion, excellent stapling and low elongations.
- For bucket elevators thanks to the high strength of the monoplex carcass with holes and the risk of tearing.

DYNA P belt (PVC covers) is used for the transportation of cutting and greasy materials, especially for the recycling of scrap.

Condition of use: from 0°C to 50°C. The tape is insensitive to moisture and rot-proof.

Applications :



Different cover properties:
refer to the table on page 21.

Thickness and weight of the belts:
according to technical sheets on request.

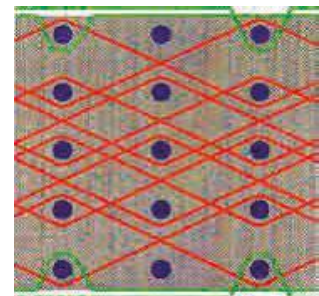
Minimum diameter of use of the drums:
see details on page 22.

Joining procedures:
available on request.

Belt structure

The solid-woven textile is made of polyester (E) yarns in the warp direction to minimize the stretching of the belt, and of polyamide (P) yarn in the weft direction for good belt flexibility.

- At 10% of nominal belt tensile strength: 1 % maximum
- Elastic stretch: 0.5% to 0.7% for standard carcass
- Permanent stretch : 0.4% to 0.7%.
- Excellent fastener holding capacity - from 50% to 90% - which makes this joining technique increasingly popular.



The solid-woven carcass is covered with cotton ply yarns laid in the warp direction, and special edge reinforcements which make the belt exceptionally resistant:

- to impacts by sharp or large materials,
- to longitudinal tearing,
- to carcass wear in case of substantial damage in the rubber cover.

As the carcass is highly compact, the thickness of the outer rubber covers can be reduced.