The optibelt DELTA CHAIN Carbon is a new high performance timing belt that sets standards in the market. Up to 100% higher power transmission is possible compared to high performance rubber timing belts.

The optibelt DELTA CHAIN Carbon was designed for high torques and delivers high performance even in extreme use and with high loads.

With its carbon cord, it is the ideal alternative to drives with roller chains.
It runs in optibelt ZRS DC timing pulleys and in the comparable other brand timing pulleys CTD and PC.

The overall width of the drive can therefore be considerably reduced. The particular focus here is placed on drives with very high torques.
optibelt DELTA CHAIN Carbon

CHARACTERISTICS

BEST TEMPERATURE RESISTANCE
thanks to the use of cast polyurethane – operating temperatures of approx -30°C to +80°C.

UNRIVALLED IMPACT STRENGTH
due to a combination of hard polyurethane and hard-wearing carbon fibres.
OPTIMISED TOOTH SHAPE
for smooth tooth meshing and uniform distribution of force across all the tooth profiles ZRS DC, CTD and PC.

HIGH LEVEL OF RELIABILITY
in the event of any adverse effects resulting from oil, chemicals or ozone, for example.
OUTSTANDING UNDER EXCEPTIONALLY TOUGH CONDITIONS, TEAR-RESISTANT AND DURABLE

The innovative combination of materials with an extremely resistant polyurethane compound, an abrasion-resistant and specially treated polyamide fabric, as well as the carbon fibre cord, make the optibelt DELTA CHAIN Carbon resistant to a wide range of chemicals, oils and fluids.
OUTSTANDING UNDER EXCEPTIONALLY TOUGH CONDITIONS, TEAR-RESISTANT AND DURABLE CARBON TENSION MEMBER for maximum dimensional stability and ultimate tensile strength.

NEWLY-DEVELOPED SPECIALIST WEBBING for minimal wear and reduced running noise.

SMOOTH BELT BACKSIDE to reduce running noise when using backside tension idlers.

CARBON TENSION MEMBER for maximum dimensional stability and ultimate tensile strength.
DOUBLE THE POWER TRANSFER
compared with high-performance rubber timing belts — especially at high torques and dynamic stresses.
HALF THE OVERALL WIDTH
with the same power transfer compared with high-performance rubber timing belts = optimum cost-efficiency.
APPLICATION EXAMPLES:

WOODWORKING  PAPERMAKING  TEXTILE MAKING