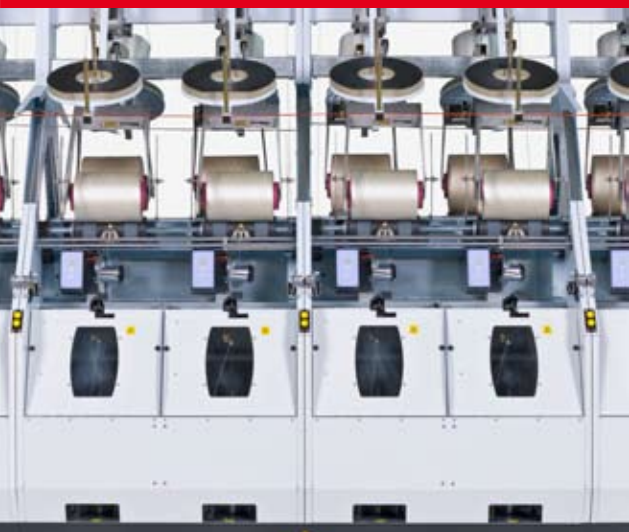


# Allma CC3 – Economic production of 3-ply cord in two-for-one twisting process



Let us take a closer look at the two-for-one twisting process:

Initial twist and final twist are manufactured independently from each other.

In a first stage, the supply material is accommodated in three neighbouring spindles, pretwisted in Z-direction and assembled. The result is an assembly-wound ply package, consisting of three parallel-lying twisted single threads with Z-twist. In a second stage, the assembly-wound yarn is final-twisted in S-twist direction.

This results in large twist packages ensuring long running times in high-performance weaving processes. The top quality of the obtained 3-ply cord has been confirmed and complies with the high industry demands.

Another advantage of the two-for-one twisting process is the flexible adjustment of the twist construction. Two-for-one twisting enables processing of symmetrical and asymmetrical twist constructions fully meeting the tire manufacturers' requirements. Two-for-one twisting is impressive by its outstanding efficiency. At each revolution of the spindle, two twists are inserted in the yarn thus allowing for higher delivery speeds and increasing the process efficiency.

The cost advantages of two-for-one twisting for processing 3-ply constructions compared with cabling which is highly economical for symmetrical 2-ply constructions amount to up to 40%.

3-ply cord can be produced either by means of ring twisting, cabling or two-for-one twisting.

Due to its ring traveller system, the ring twisting process reaches its economical limits. Cabling seems to be an elegant solution at first glance. It is, however, economically not very attractive in terms of energy consumption and productivity and also technically very limited.

The two-for-one twisting process features decisive assets: flexibility, quality and cost-effectiveness are convincing arguments.

The new Allma CC3 combines the processes of cabling and two-for-one twisting in an intelligent way. Symmetrical 2-ply tire cord constructions are, as usual, economically cabled in top quality. In the two-for-one twisting process, single and 3-ply constructions are very efficiently twisted and used in high-quality tire cord fabrics.

**Allma CC3**  
Because it keeps  
you competitive

**competence  
in twisting**



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