

Title (en)

HYBRID V-BELT FOR HIGH PERFORMANCE DRIVES

Title (de)

HYBRIDKEILRIEMEN FÜR HOCHLEISTUNGSANTRIEBE

Title (fr)

COURROIE TRAPEZOIDALE HYBRIDE POUR SYSTEMES D'ENTRAINEMENT A HAUTE PERFORMANCE

Publication

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Application

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Abstract (en)

[origin: WO0240889A1] The invention relates to a hybrid V-belt (2) for high performance drives. A hybrid V-belt (2) is comprised of a traction support (4) and of a multitude of supporting elements (6) arranged thereon. The aim of the invention is to improve the engagement between the traction support (4) and the supporting elements (6) and to ensure a firm seating of the supporting element (6) on the traction support (4). The at least two-part supporting elements (6) are each comprised of an outer supporting body (14), which is in contact with conical discs when viewed in the direction of the friction flanks (18), and of an inner supporting body (16). The transmission of force between the inner supporting body (16) and the traction support (4) is realized by concave and convex elevations (22a, 22b), which engage with one another and which are provided on the traction support (4) and on the outer (14) and inner supporting bodies (16) or is realized by the non-positive transmission between the traction support (4) and the outer (14) and inner supporting bodies (16). The inventive V-belt is suited, in particular, for the continuous conversion of rotational speed and torque in automotive applications.

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IPC 8 full level

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