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**Title:**  $H$ -projectively Euclidean Kähler tangent bundles of natural diagonal type

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We obtain the characterization of the natural diagonal Kähler manifolds  $(TM, G, J)$  which have constant holomorphic sectional curvature, or equivalently, which are  $H$ -projectively Euclidean. Moreover, we classify the natural diagonal Kähler manifolds  $(TM, G, J)$  which are horizontally  $H$ -projectively flat (resp. vertically  $H$ -projectively flat).

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