

Title (en)
SCREW COMPRESSOR WITH MULTILAYER ROTOR SCREW COATING

Title (de)
SCHRAUBENVERDICHTER MIT MEHRSCICHTIGER BESCHICHTUNG DER ROTORSCHRAUBEN

Title (fr)
COMPRESSEUR À VIS AVEC REVÊTEMENT MULTI-COUCHE DES VIS DE ROTOR

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Application
EP 17169341 A 20170503

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Abstract (en)
[origin: WO2018202520A1] The invention relates to a screw compressor comprising a compressor housing (11) having two rotor screws (1, 2) which are mounted therein in an axially parallel manner, engage with one another in a compression chamber (18), can be driven by a drive and are rotationally synchronised with one another, wherein the rotor screws (1, 2) each have a single- or multi-part main body (24) with two end surfaces (5a, 5b, 5c, 5d) and a profiled surface (12a, 12b) extending therebetween, as well as shaft ends (30) protruding beyond the end surfaces (5a, 5b, 5c, 5d), wherein at least the profiled surface (12a, 12b) is multi-layered, having a first, inner layer (3) and a second, outer layer (4), wherein the first, inner layer (3) and the second, outer layer (4) both contain or are made of a thermoplastic material, wherein particles (25) or pores (32) promoting a running-in process are embedded in the second, outer layer (4), and the thermoplastic material defines a matrix for receiving the particles (25) or for forming the pores (32).

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Citation (opposition)
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