

Title (en)

INTERNAL SURFACE CHUCKING MECHANISM AND METHOD

Title (de)

INNENFLÄCHENFESTSPANNMECHANISMUS UND VERFAHREN

Title (fr)

MECANISME DE MANDRIN POUR SURFACE INTERIEURE ET PROCEDE ASSOCIE

Publication

EP 1497062 A1 20050119 (EN)

Application

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Abstract (en)

[origin: WO03070406A1] An internal surface chucking mechanism (ISM) for gripping and for releasing an internal surface of a workpiece (W) in process on a processing machine is configured with an external surface chucking mechanism (EXS) dedicated to grip an external surface of the workpiece (W). The ISM fits machinery where the workpiece is rotating and is non-rotating, in a first mode with the EXS, and in a second mode with the ISM, and vice-versa. A fluid conduit (309) inside the ISM provides fluid, such as oil, for exhaust adjacent and opposite the workpiece (W). An appropriately oriented exit outlet (353) directs a streak of fluid to impinge on the workpiece (W), to eject it from the ISM when released from grip. The fluid cools and lubricates both the ISM and the workpiece (W).

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