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Abstract (en)
[origin: US4922739A] A roller milling tool unit is compact enough for insertion into a tool magazine of a machine tool and constructed to operate by a fluid circulating circuit of the machine tool. The unit has a tool section including a milling roller element and a fluid pressurizing section for generating the required hydraulic roller milling pressure. Both sections form a structural unit. The pressurizing section includes a pump connected to the fluid circulating circuit such as the cooling or lubricating circuit of the machine tool when the unit is in a working position on the tool carrier of the machine tool. The pump may be driven either by a hydraulic motor forming part of the tool unit or by a drive available in the machine tool. The hydraulic motor may be driven by the cooling or lubricating circulating circuit of the machine tool.

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Citation (examination)
SOVIET INVENTIONS ILLUSTRATED Sektion Mechanik, Woche 8747, Zusammenfassung Nr. 333463, P56, P61, 2. Dezember 1987, Derwent Publications Ltd. London, GB, & SU-A-1303383

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CN103442848A; EP2759373A3; EP2068015A3; US9321135B2; US9616546B2; WO0222284A1; WO2012107582A1; WO2020083425A1

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