

COUPLING SYSTEM FOR USE WITH A SPINDLE APPARATUS OF A MACHINE TOOL

Abstract

The present invention relates to a coupling system 300 for use at a spindle apparatus 170 of a machine tool 100, comprising an energy transmission unit 320 with a transmitter coil unit 323 for the contact-free transmission of electrical energy to a receiver coil unit 312 of a tool interface unit 310 with an electrical load and a tool interface portion 311 for accommodation in a tool support 173 of a work spindle 172 of the spindle apparatus 170, and a coupling interface unit 330 having an interface body element 332 attachable to the spindle apparatus 170 and a second coupling element 331 which is configured to be coupled to a first coupling element 321 of the energy transmission unit 320 by means of a releasable connection.

Figure 3