ABSTRACT

~~A laser cladding tool head and a to-be-processed surface sensing method therefor, which are used for a computer numerical control (CNC) processing machine (100). The laser cladding tool head (20) is also provided with a thermal temperature gauge sensing module (24) and a photographic lens sensing module (25), and is configured to sense temperature, brightness and shape of a molten pool during cladding operation and provide same to a computer numerical control unit (40) for feedback control, thereby further improving processing efficiency and quality of a workpiece~~.A laser cladding tool head and a machined surface sensing method thereof are provided for a computer numerical control (CNC) machining center. The laser cladding tool head has a temperature sensing module and a camera sensing module, which can sense the temperature, lightness, and profile of a molten pool, and then provide them to a computer numerical control unit for a feedback control, so as to increase the processing effect and quality of a work-piece.