TECHNICAL GUIDE

Okuma MPS 20 (1006-2201-019-085) – what to look out for when diagnosing a used unit

A used Okuma MPS 20 unit in a machine tool's control cabinet requires a structured assessment before commissioning or purchase, because the label alone is not enough to draw safe conclusions about its technical condition. The order of checks matters here: first safety and identification, then visual inspection, and only at the end measurements.

Okuma MPS 20 – what the label shows

The label shows the type **MPS 20** and the catalogue number **1006-2201-019-085**. This number is the basis for identifying the unit when making an enquiry or a purchase, so it must be copied exactly, with the characters in full order. Keeping the entire designation from the label makes it possible to distinguish this unit from other devices with a similar designation.

What to watch out for when testing

Before any visual inspection, the power supply must be disconnected and you should wait for the circuits to discharge, because dangerous voltages can persist in drives. Next, the label is read and the catalogue number, serial number and any stickers with the hardware or software version are recorded, after which the boards are inspected for burn marks, cracked or bulging components and traces of contamination. The next stage is checking the connectors, contacts, cables and the fan or cooling ducts, and before switching off, the state of the LEDs and display and any alarm number are recorded, without interpreting their meaning. Only then are voltages measured with a multimeter, according to the manufacturer's documentation, and finally the origin of the unit and the result of each step are documented.

Before an enquiry or purchase, it is worth preparing the full designation from the nameplate, the serial number, the hardware and software version, photos of the nameplate and connectors, a description of the application and the alarm number. Such a set of data makes it easier for a technician to compare the unit with the offer or with the documentation.

Questions and answers

Why does a single successful start prove nothing?

Without a full record of the condition, visual inspection and identification data, it is not possible to assess whether the device works repeatably and without hidden damage.

Why document the state of the LEDs and display?

Such a record preserves information about the device's behaviour just before switching off and allows it to be compared with later diagnostics.

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