



For touch probes



Workpiece measurement

## Installation requirements

Software	260605
Version	V4A
Machine control	Brother

## 1. Installation requirements

This document includes general information for the installation.

### 1.1 Machine control

- Functioning and appropriate multi-directional BLUM measuring system (TC50, TC52, TC60, TC62, etc.).
- Machine control: Brother C00, D00
- 18 free program names, 20 free program names when both optional programs, 8718 TC-USER 2 and 8719 TC-USER 3, are used.
- 45 kB free NC memory.
- #1...#33, #110...#149 freely available.
- 10 global, consecutive variables for outputting results (standard: #100...#109).  
6 permanent, consecutive variables for saving the calibration values (standard: #500...#999).
- 3 call levels.
- 1 freely available measuring input.
- 2 PLC inputs for error monitoring (ERROR, BATTERY).
- The *Skip* function must be available.
- The *G65 – simple user macro call* function must be available.

① The function *Measurement with inclined working plane* (G68.2) is not available.

## 1.2 Receiver

- It must be possible to mount the receiver in a suitable position in the working area of the machine.



## 1.3 Electrical connection

### NOTICE

Malfunctions in the measuring system resulting from inadequately shielded cable connection.

- ▶ Always route the connecting cable directly from the measuring device/receiver to the interface.
- ▶ Only use BLUM extension cables for increased requirements (*BLUM BUS* label).  
Maximum cable length: 60m
- ▶ Always connect the shield of the connection cable to ground – always use a suitable shield connection clamp.

### 1.3.1 Interface



- IF59
- Used as the power supply for all measuring components.  
Operating voltage: 15...30 V  
Current draw: 100 mA
- Space requirement for hat rail: approx. 100 mm
- Connection via 1 output and 1 measuring input using one measuring device.  
The probing systems is switched on/off by this output.



- IF20: firmware V1.13 and higher
- Used, among other things, for the power supply of the receiver and extension module.  
Operating voltage 15...30 V  
Current demand (dependent on configuration): 350...500 mA
- Space requirement for hat rail: approx. 25 mm

### 1.4 Touch probe



- One free tool magazine slot.
- A calibration master with a diameter to the nearest  $\mu\text{m}$  for the calibration (e.g. BLUM calibration ring).
- Tool holder: BTH 50 or BTH 25.

## 2. Preparation

To reduce the time for the mechanical, electrical and pneumatic commissioning, the following preparations are useful before the arrival of our technician:

- Mechanical installation of the receiver in the working area of the machine.
- Laying of the electrical cables in the switch cabinet.
- Definition of the outputs (M-functions) for the activation.
- Length measurement of the probe on a pre-setting device.

### 3. Service

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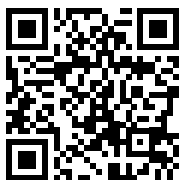
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