

# UCC T3 CMM controller amplifier



## UCC T3 – bringing probing benefits to a wider range of CMMs

The UCC T3, latest addition to the Renishaw controller and amplifier portfolio, uses high quality DSP motion control and digital drive tuning. These attributes combined produce superior reliability and excellent performance.

Designed specifically for 3-axis CMMs, the UCC T3 utilises an innovative and flexible external power supply with considerable associated cost savings.

### Benefits

#### Ultra-compact

At only 440 mm (17.3 in) wide, 180 mm (7.1 in) deep and 44 mm (1.73 in) high, the Renishaw UCC T3 combines a 3-axis CMM controller with a powerful power amplifier.

#### Robust and reliable

The UCC T3 continues Renishaw's high standards for reliability and is designed to operate under shop floor conditions

#### External power supply

The UCC T3 utilises an innovative flexible external power supply. Power requirements can be tailored for each machine minimising costs.

#### Simple installation

The UCC T3 is easily installed and configuration is simplified through Renishaw's UCCAssist-2 software.

### Features

- Digital tuning
- 3-axis control at 24 V - 80 V / 5.7 A nominal 9.7 A peak
- Easy to use configuration and diagnostic tools
- I++ DME compatible interface to application software
- Supports high density error maps
- Supports PH10 and TP200 via separate interfaces
- Unbeatable price to performance ratio

## Specification

<b>Principle application</b>	Movement control and point processing of all sizes of 3 axis CMMs
<b>Dimensions</b>	
Length	440 mm (17.3 in)
Width	180 mm (7.1 in)
Height	44 mm (1.73 in)
<b>Weight</b>	3 kg (6 lb 6 oz)
<b>IP rating</b>	IP30 (BS EN60529:1992)
<b>Operating temperature</b>	+5°C to +50°C
<b>Storage temperature</b>	-25°C to +70°C
<b>Relative humidity operating range</b>	80% maximum (non-condensing) for temperatures up to +31 °C
<b>Maximum power consumption</b>	30 W
<b>ESTOP category</b>	Category 2
<b>Transient voltages</b>	Installation category 2
<b>Servo tuning method</b>	Digital (via UCCAssist-2)
<b>Power supply</b>	24 V – 80 V
<b>Peak current per axis</b>	9.7 A
<b>Max continuous current per axis</b>	5.7 A
<b>Connection to PC</b>	USB 1.1
<b>General purpose I/O (available to user)</b>	2 input, 1 output
<b>I/O current</b>	1 A maximum
<b>Error map</b>	Yes
<b>DC motor support</b>	Yes
<b>Analogue tacho support</b>	Yes
<b>Motor tacho support</b>	Yes
<b>Digital scale support</b>	Yes
<b>I++ DME compatible</b>	Yes
<b>Setup and configuration software</b>	UCCAssist-2
<b>Standard touch trigger probe interface</b>	Included
<b>TP200</b>	Requires a PI 200 interface
<b>PH10</b>	Requires a PHC10 interface
<b>Joystick</b>	Renishaw MCU1 / 5 or MCULite-2

## Parts list – please quote the part number when ordering equipment

Type	Part no.	Description
<b>UCC T3</b>	A-5518-0001	UCC T3 3-axis controller power amplifier
<b>Mounting bracket</b>	A-5518-0005	2 x brackets and 4 x screws
<b>Connector kit</b>	A-5518-0010	Full set of connectors and shells + USB cable
<b>MCULite-2</b>	A-5331-0015	MCULite-2 joystick and cable
<b>MCU5</b>	A-5121-0003	MCU-5 premium joystick with LCD display

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