

# Controller requirements: SupaScan

## Mazak SmoothX

The information within this document provides the minimum recommended controller requirements to enable use of the SupaScan system on a machining centre with a Mazak SmoothX controller.

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**NOTE:** Part numbers and descriptions within this document relating to items provided by organisations other than Renishaw are provided for information only. Whilst every effort has been made to ensure these are accurate, contact the machine tool builder, controller OEM or distributor for confirmation before purchasing.

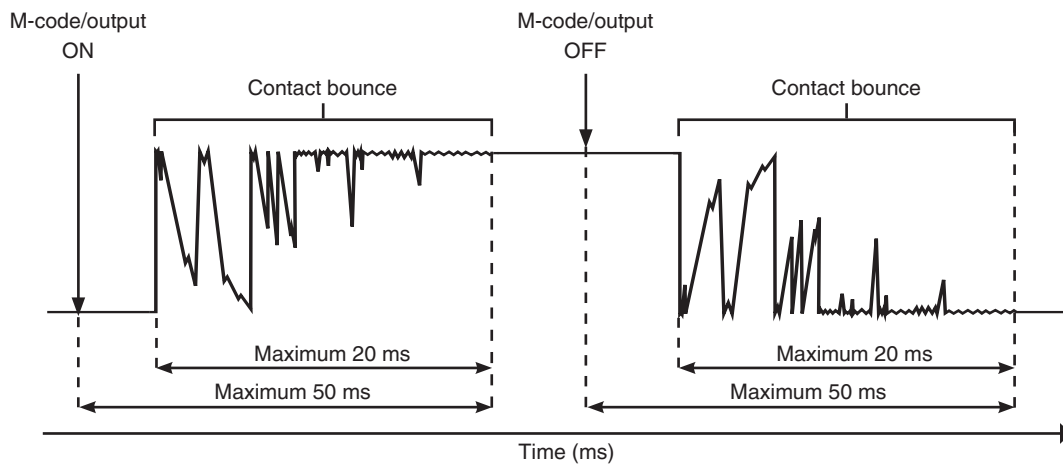
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## Mazak SmoothX

Controller option
1 x Ethernet port
3 x pairs of latched M-codes (high-speed digital outputs) <sup>1</sup>
1 x probe sensor (skip) input <sup>1</sup>
API option
OPTIONAL
User interrupt (UIT) <sup>1</sup>

<sup>1</sup> Also available via the Mazak 'SPRINT Interface option'.  
Contact Mazak for further information and the appropriate option number(s).

## Output signal requirements



Any increase in these values will impact negatively on cycle times and may prevent the system working reliably.

The 3 x pairs of latched M-codes (high-speed digital outputs) should be reset when Reset is pressed on the CNC machine tool.

The output/input signal level change must be from 0 V to between 5 V and 30 V.

Use of solid-state relays is recommended as issues can arise from noise on mechanical relay contacts (contact debounce time of 20 ms maximum).

[www.renishaw.com/supascan](http://www.renishaw.com/supascan)

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