

	STEPCRAFT M-Series Machine parameters		
	M.500	M.700	M.1000
Axis resolution	1600 steps / revolution		
Stepping mode	$\frac{1}{8}$ stepping mode		
Distance / rotation	5 mm / revolution		
Speed (fast)	85 mm / s (120 mm / s diagonal drive)		
Speed (manual drive fast)	X / Y = 85 mm / s Z = 50 mm / s		
Speed (manual drive slow)	X / Y / Z = 5 mm / s		
Speed (reference drive search)	X / Y / Z = 10 mm / s		
Speed (reference drive retract)	X / Y / Z = 1 mm / s		
Shortest ramp / slope	300 ms		
Driving direction	Depending on control software used		
Reference switch at the end (X-axis)	negative		
Reference switch at the end (Y-axis)	positive		
Reference switch at the end (Z-axis)	negative		
Order reference drive	Z-X-Y		
Machine table X-axis	from 0 to 348 mm	from 0 to 478 mm	from 0 to 678 mm
Machine table Y-axis	from 0 to 543 mm	from 0 to 743 mm	from 0 to 1043 mm
Machine table Z-axis	from 0 to 194 mm	from 0 to 194 mm	from 0 to 194 mm
Reference position X	0 mm	0 mm	0 mm
Reference position Y	543 mm	743 mm	1043 mm
Reference position Z	0 mm	0 mm	0 mm

Parallel port LPT-Adapter (X1)

Signal	X1
Relay 1	1
Direction X	2
Step X	3
Direction Y	4
Step Y	5
Direction Z	6
Step Z	7
Direction 4 th axis	8
Step 4 th axis	9
Tool length sensor	10
Emergency stop	11
End switch X / Y / Z	12
End switch 4 th axis	13
Relay 2	14
Enclosure (I 15)	15
Relay 3	16
PWM	17
GND	18-25
PE	Shed

Connector 4th axis / SUB-D 9 (X101)

Signal	X101
Winding 1A	1
Winding 1B	2
n.a.	3
n.a.	4
End switch 4 th axis	5
Winding 2A	6
Winding 2B	7
n.a.	8
GND	9
PE	Shed

Connector external signals / SUB-D 15 (X2)

Signal	X1	Eingang / Ausgang
30 V VCC	1	Output
GND	2	Output
+5 V / VCC Logic	3	Output
Direction 4 th axis	4	Output
Step 4 th axis	5	Output
Relay 2	6	Output
PWM	7	Output
Tool length sensor	8	Input
30 V VCC	9	Output
GND	10	Output
Disable	11	Input
End switch 4 th axis	12	Input
Relay 1	13	Output
Relay 3	14	Output
Enclosure (I 15)	15	Input
PE	Shed	Shed

LED's on Mainboard (assembled, view from rear side)

Signal	X101
LED 1	Sharing OK, output stage switched on
LED 2	Power ON / 5 V