

	STEPCRAFT D-Series Machine parameters				
	D.210	D.300	D.420	D.600	D.840
Axis resolution	400 steps / rotation				
Stepping mode	Half stepping mode				
Distance / rotation	2 mm / rotation	3 mm / rotation			
Speed (fast)	30 mm / s	50 mm / s			
Speed (manual drive fast)	X / Y = 25 mm / s Z = 15 mm / s	X / Y = 40 mm / s Z = 30 mm / s			
Speed (manual drive slow)	X / Y / Z = 5 mm / s				
Speed (reference drive search)	X / Y / Z = 10 mm / s	X / Y / Z = 15 mm / s			
Speed (reference drive retract)	X / Y / Z = 2 mm / s				
Shortest ramp / slope	200 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 212 mm	from 0 to 212 mm	from 0 to 302 mm	from 0 to 422 mm	from 0 to 602 mm
Machine table Y-axis	from 0 to 212 mm	from 0 to 299 mm	from 0 to 419 mm	from 0 to 599 mm	from 0 to 839 mm
Machine table Z-axis	from 0 to 82 mm	from 0 to 122 mm	from 0 to 142 mm	from 0 to 142 mm	from 0 to 142 mm
Reference position X	0 mm	0 mm	0 mm	0 mm	0 mm
Reference position Y	208 mm	298 mm	418 mm	598 mm	838 mm
Reference position Z	0 mm	0 mm	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 <sup>th</sup> axis	8
Step 4 <sup>th</sup> axis	9
Tool length sensor	10
Emergency stop	11
End switch X / Y / Z	12
End switch 4 <sup>th</sup> 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 <sup>th</sup> 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
19 V / 30 V VCC	1	Output
GND	2	Output
+5 V / VCC Logic	3	Output
Direction 4 <sup>th</sup> axis	4	Output
Step 4 <sup>th</sup> axis	5	Output
Relay 2	6	Output
PWM	7	Output
Tool length sensor	8	Input
19 V / 30 V VCC	9	Output
GND	10	Output
Disable	11	Input
End switch 4 <sup>th</sup> 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