

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Active1

Active2

Active3

Active4

Digitize

LimitOV

Emergenc

Enable 1

Enable 4

Output1

Output4

PWM Control Ratio

+0.0000

Reset

OV

CS

Diagnostics

Inputs

X++Limit

X--Limit

X--Home

Y++Limit

Y--Limit

Y--Home

Dwell

1

Encoders

-22.6935

0.0000

0.0000

MPGs

+0.0000

+0.0000

+0.0000

Engine Configuration... Ports & Pins

Port Setup and Axis SelectionMotor OutputsInput SignalsOutput SignalsEncoder/MPG'sSpindle SetupTurn Options

Signal	Enabled	Step Pin#	Dir Pin#	Dir LowActive	Step Low Ac...	Step Port	Dir Port
X Axis		8	9			1	1
Y Axis		12	13			1	1
Z Axis		6	7			1	1
A Axis		0	0			0	0
B Axis		0	0			0	0
C Axis		0	0			0	0
Spindle		5	4			1	1

AceptarCancelarAplicar

Diagnostics

ndX

+9.5000

ndZ

+10.0000

aper

+0.0000

ses

+0.1000

eed

+29.0000

0000

ZERO

0000

ZERO

History

Clear

Spindle Pulley

1

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

Inicio

Mach3 CNC Controller

Dibujo - Paint

ES

0:15

Mach3 CNC Controller

File Config Function Cfg's View Wizards Operator PlugIn Control Help

I/O Status

Active1

Active2

Active3

Active4

Digitize

LimitOV

Emergency

Enable 1

Enable 4

Output1

Output4

PWM Control Ratio

+0.0000

Reset

OV

CS

Diagnostics

Encoders

MPGs

Dwell

1

-22.6935

1

+0.0000

+0.0000

+0.0000

Diagnostics

ndX

+9.5000

ndZ

+10.0000

aper

+0.0000

ses

+0.1000

eed

+29.0000

0000

ZERO

0000

ZERO

Engine Configuration... Ports & Pins

Port Setup and Axis Selection Motor Outputs Input Signals Output Signals Encoder/MPG's Spindle Setup Turn Options

Signal	Enabled	Port #	Pin Number	Active Low	Emulated	HotKey
Index		1	15			0
Limit Ovrd		0	0			0
EStop		1	12			0
THC On		0	0			0
THC Up		0	0			0
THC Down		0	0			0
OEM Trig #1		0	0			0
OEM Trig #2		0	0			0
OEM Trig #3		0	0			0
OEM Trig #4		0	0			0
OEM Trig #5		0	0			0

Pins 10-13 and 15 are inputs. Only these 5 pin numbers may be used on this screen

Automated Setup of Inputs

Acceptar Cancelar Aplicar

History Clear

Spindle Pulley

1

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

Inicio Mach3 CNC Controller Dibujo - Paint

ES 0:16

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Active1Active2Active3Active4DigitizeLimitOVEmergent

Enable 1Enable 4Output1Output4

PWM Control Ratio
+0.0000

Reset

Diagnostics

EncodersMPGs

Dwell1-22.69351+0.0000+0.0000+0.0000

diagnostics
dX+9.5000
dZ+10.0000
aper+0.0000
ses+0.1000
eed+29.0000
0000ZERO
0000ZERO

Engine Configuration... Ports & Pins

Port Setup and Axis SelectionMotor OutputsInput SignalsOutput SignalsEncoder/MPG'sSpindle SetupTurn Options

Signal	Enabled	Port #	Pin Number	Active Low	Emulated	HotKey
OEM Trig #15		0	0			0
Timing		1	13			0
Jog X++		0	0			0
Jog X--		0	0			0
Jog Y++		0	0			0
Jog Y--		0	0			0
Jog Z++		0	0			0
Jog Z--		0	0			0
Jog A++		0	0			0
Jog A--		0	0			0

Pins 10-13 and 15 are inputs. Only these 5 pin numbers may be used on this screen

Automated Setup of Inputs

AceptarCancelarAplicar

HistoryClear

Spindle Pulley
1

SpindleCoolantCycle StartSingleFeed HoldRewindEdit

QUIT MODE

InicioMach3 CNC ControllerDibujo1 - Paint

ES0:17

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Inputs

Active1

Active2

Active3

Active4

Digitize

LimitOV

Emergent

Enable 1

Enable 4

Output1

Output4

PWM Control Ratio

+0.0000

Reset

OV

CS

Diagnostics

Encoders

MPGs

Dwell

1

-22.6935

1

+0.0000

+0.0000

+0.0000

diagnostics

adX

+9.5000

adZ

+10.0000

aper

+0.0000

ses

+0.1000

eed

+29.0000

0000

ZERO

0000

ZERO

Engine Configuration... Ports & Pins

Port Setup and Axis SelectionMotor OutputsInput SignalsOutput SignalsEncoder/MPG'sSpindle SetupTurn Options

Signal	Enabled	Port #	Pin Number	Active Low
Digit Trig		0	0	
Enable1		0	0	
Enable2		0	0	
Enable3		0	0	
Enable4		0	0	
Enable5		0	0	
Enable6		0	0	
Output #1		1	4	
Output #2		1	5	
Output #3		0	0	
Output #4		0	0	

Pins 2 - 9 , 1, 14, 16, and 17 are output pins. No other pin numbers should be used.

AceptarCancelarAplicar

HistoryClear

Spindle Pulley

1

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

Mach3 CNC Controller

InicioMach3 CNC ControllerDibujo4 - Paint

ES0:20

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Active1

Active2

Active3

Active4

Digitize

LimitOV

Emergency

Enable 1

Enable 4

Output1

Output4

PWM Control Ratio

+0.0000

Reset

OV

CS

Diagnostics

Inputs

X++LimitX--LimitX--HomeY++LimitY--LimitY--Home

Dwell1-22.69351-0.0000

Encoders

MPGs

+0.0000+0.0000+0.0000

ndX+9.5000ndZ+10.0000aper+0.0000ses+0.1000eed+29.0000

0000ZERO0000ZERO

Engine Configuration... Ports & Pins

Port Setup and Axis SelectionMotor OutputsInput SignalsOutput SignalsEncoder/MPG'sSpindle SetupTurn Options

Signal	Enabled	A -Port #	A -Pin #	B -Port #	B -Pin #	Counts/Unit	Velocity
Encoder1		0	0	0	0	1.000000	100.000000
Encoder2		1	15	1	13	1.000000	100.000000
Encoder3		0	0	0	0	1.000000	100.000000
Encoder4		0	0	0	0	1.000000	100.000000
MPG #1		1	13	1	15	5.000000	9000.000000
MPG #2		0	0	0	0	1.000000	100.000000
MPG #3		0	0	0	0	1.000000	100.000000

AceptarCancelarAplicar

HistoryClear

Spindle Pulley

1

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

InicioMach3 CNC ControllerDibujo2 - Paint

ES0:20

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Active1Active2Active3Active4DigitizeLimitOVEmergenc

Enable 1Enable 4Output1Output4

PWM Control Ratio

+0.0000

Reset

CS

Diagnostics

Inputs

X++LimitX--LimitX--HomeY++LimitY--LimitY--Home

Dwell1-22.69351+0.0000+0.0000+0.0000

Encoders

MPGs

Diagnostics

idX+9.5000idZ+10.0000aper+0.0000ses+0.1000eed+29.0000

0000ZERO0000ZERO

Engine Configuration... Ports & Pins

Port Setup and Axis SelectionMotor OutputsInput SignalsOutput SignalsEncoder/MPG'sSpindle SetupTurn Options

Relay Control

☐ Disable Spindle Relays

Clockwise (M3) Output #1

CCW (M4) Output #2

Output Signal #'s 1-6

Flood Mist Control

☒ Disable Flood/Mist relays

Mist M7 Output #4

Flood M8 Output #3

Output Signal #'s 1-6

ModBus Spindle - Use Step/Dir as well

☐ Enabled Reg 64 64 - 127

Max ADC Count 16380

Motor Control

☒ Use Spindle Motor Output

☒ PWM Control

☐ Step/Dir Motor

PWMBase Freq 25

Minimum PWM 0 %

General Parameters

CW Delay Spin UP1Seconds

CCW Delay Spin UP1Seconds

CW Delay Spind DOWN1Seconds

CCW Delay Spin DOWN1Seconds

☐ Immediate Relay off before delay

Special Functions

☐ Use Spindle Feedback in Sync Modes

☐ Closed Loop Spindle Control

P0.2I0.1D0.2

☐ Spindle Speed Averaging

Special Options, Usually Off

☐ HotWire Heat for Jog

☐ Laser Mode. freq

☐ Torch Volts Control

Aceptar

Cancelar

Aplicar

History

Clear

Spindle Pulley

1

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

Inicio

Mach3 CNC Controller

Dibujo3 - Paint

ES

0:24

Mach3 CNC Controller

FileConfigFunction Cfg'sViewWizardsOperatorPlugIn ControlHelp

I/O Status

Inputs

Active1Active2Active3Active4DigitizeLimitOVEmergency

X++LimitY++LimitZ++LimitA++LimitB++LimitC++Limit

X--LimitY--LimitZ--LimitA--LimitB--LimitC--Limit

X--HomeY--HomeZ--HomeA--HomeB--HomeC--Home

TimingIndex

Outputs

Enable1Enable4Output1Output4

Enable2Enable5Output2Output5

Enable3Output3Output6

Digitize

PWM Control Ratio

+0.0000

True RPM

0

OV %

100

0

CSS

+0

Auto LimitOverRide

Diagnostics

Dwell

Spindle On

G94 Mode

G95 Mode

1

-22.6935

2

85753.0000

3

+212.0830

4

+0.0000

Encoders

MPGs

1

+0.0000

2

+0.0000

3

+0.0000

4

+0.0000

Threading Diagnostics

+10.0000

+10.0000

+0.0500

+0.0250

+0.1000

+0.0000

EndX

+9.5000

EndZ

+10.0000

Taper

+0.0000

Passes

+0.1000

InFeed

+29.0000

+0.0000

Z

+0.0000

ZERO

ZERO

Pulley Selection

Current Pulley

Min Speed

Max Speed

Ratio

Pulley Number 1

150

2300

1

Reversed

OK

MDI Line

History

Clear

Spindle Pulley

1

RESET

<

Spindle

Coolant

Cycle Start

Single

Feed Hold

Rewind

Edit

QUIT MODE

Inicio

Mach3 CNC Controller

Dibujo5 - Paint

ES

0:24