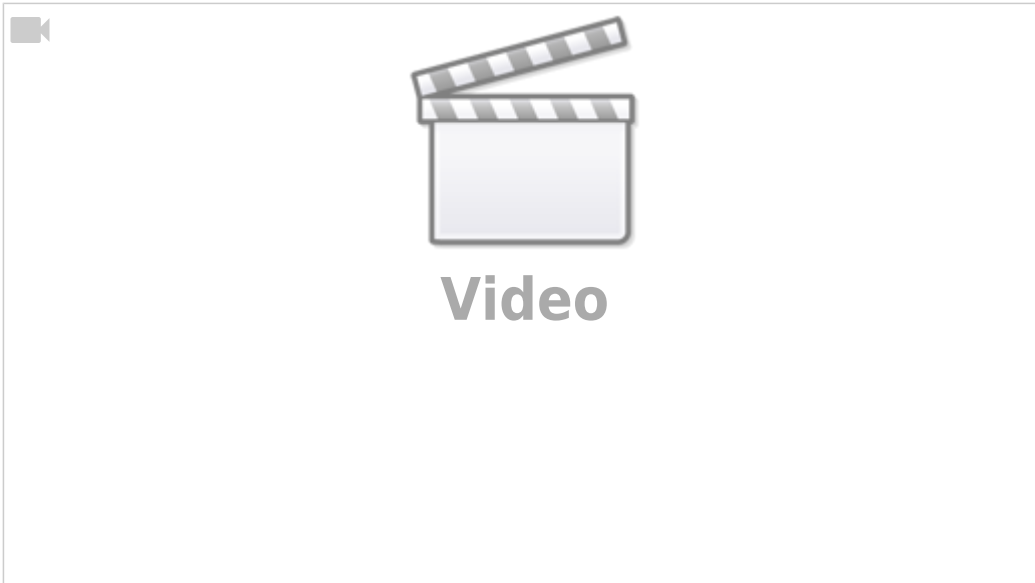


Cutcharts



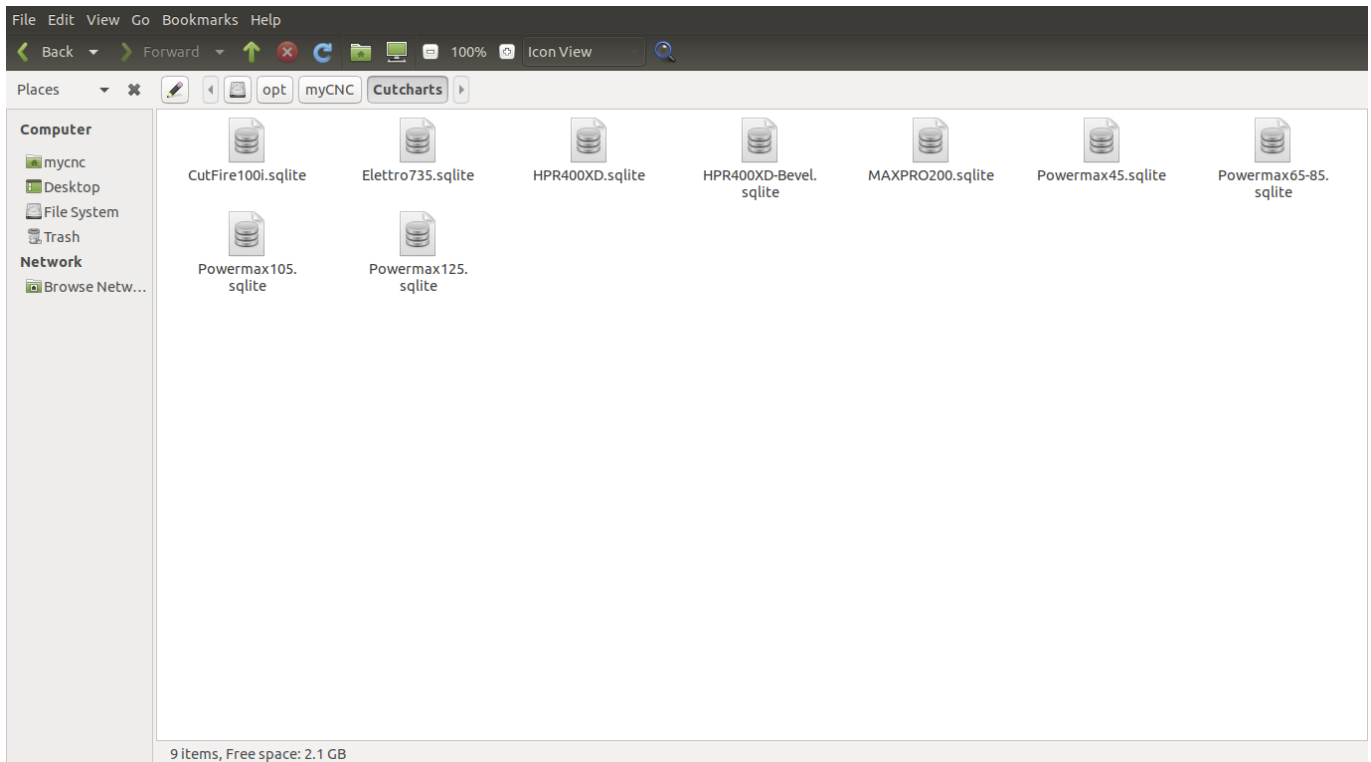
myCNC software supports cutcharts. Cutting parameters such as **Cutting speed, Process current, Arc voltage reference, Ignition Height, Pierce height, Pierce time, Cutting height, Kerf compensation** and others can be loaded from the Cutcharts depending on the plasma power source, material type, material thickness and gases/nozzles used.

Cutchart database is stored in the myCNC software as an SQLite database file. The database can be filled manually or imported automatically from an XML or CSV file format.

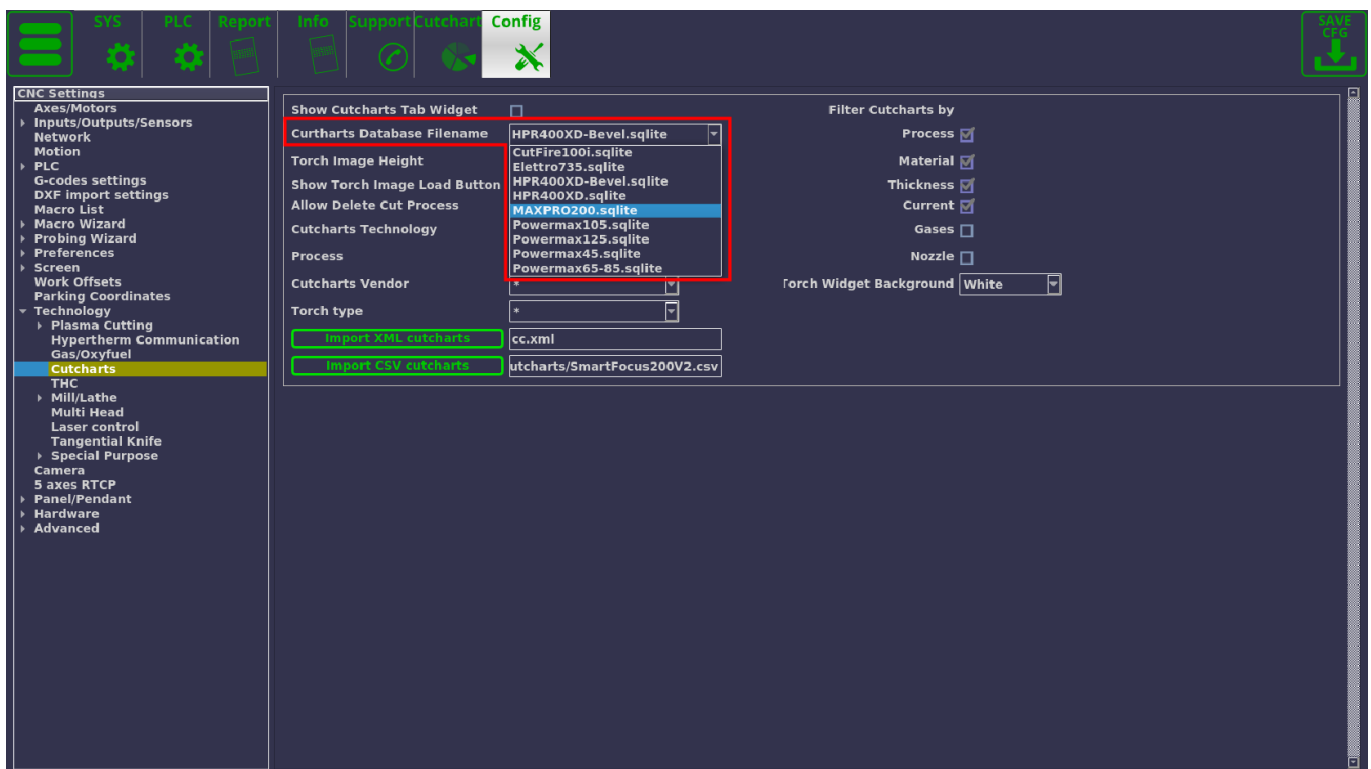
Importing the cutchart database

In order to import the cutchart database:

- Go to the myCNC Downloads page, scroll down to **Plasma Cutting Cutcharts** and download the necessary cutchart file (note whether you are downloading an SQLite or a CSV file)
- Move the downloaded file to the folder from which the SQLite files are loaded
 - Ubuntu Mate: `/opt/myCNC/Cutcharts`



- Tinkerboard computers: /home/USERNAME/myCNC/Cutcharts (usually /home/operator/myCNC/Cutcharts)
- Go to **Settings > Config > Technology > Cutcharts**
- In the **Cutcharts Database Filename** field, select the file name that you would like to load into myCNC from the dropdown (for example, MAXPRO200.sqlite).

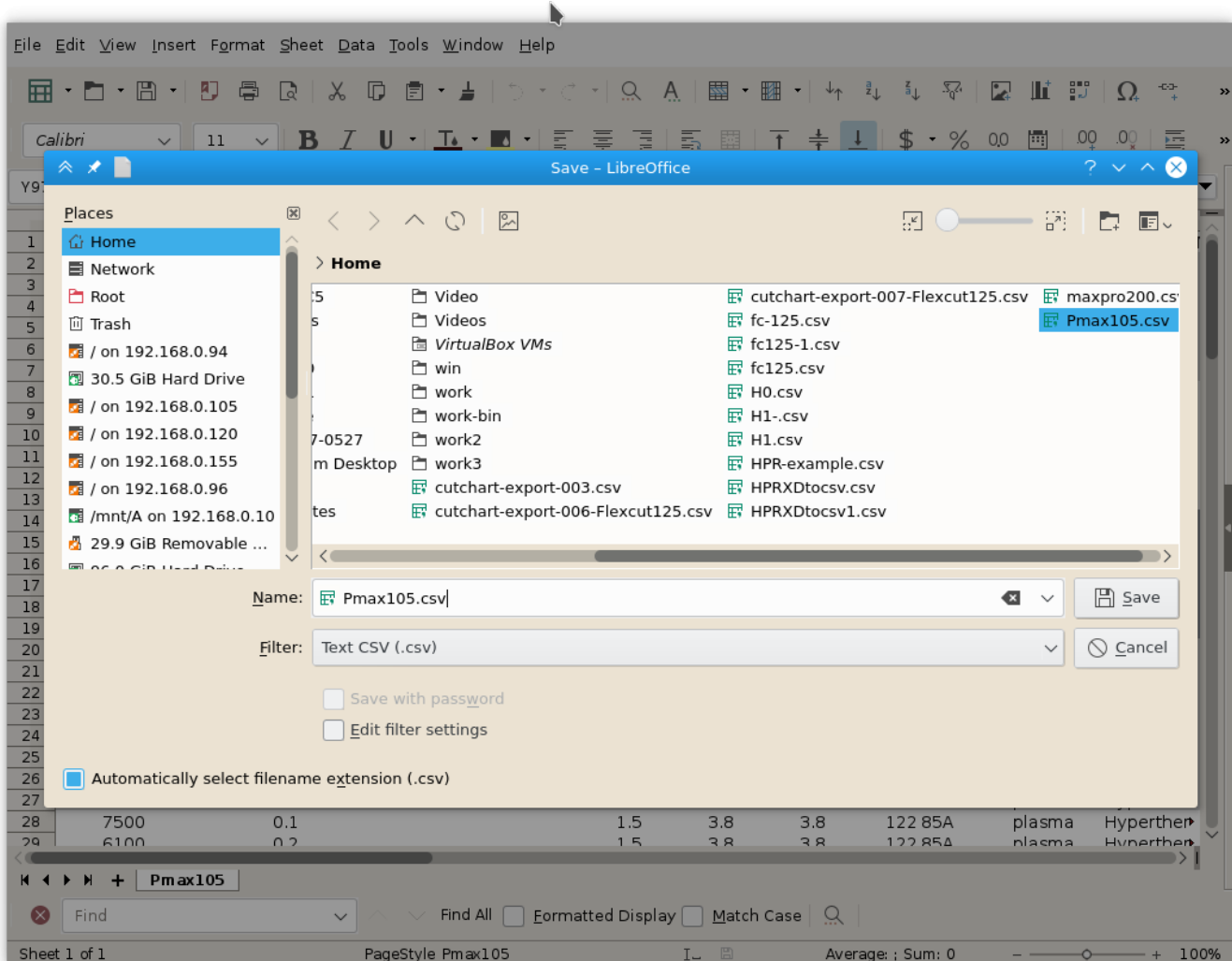


- Save and reload the program. The file should now be loaded into the myCNC system.

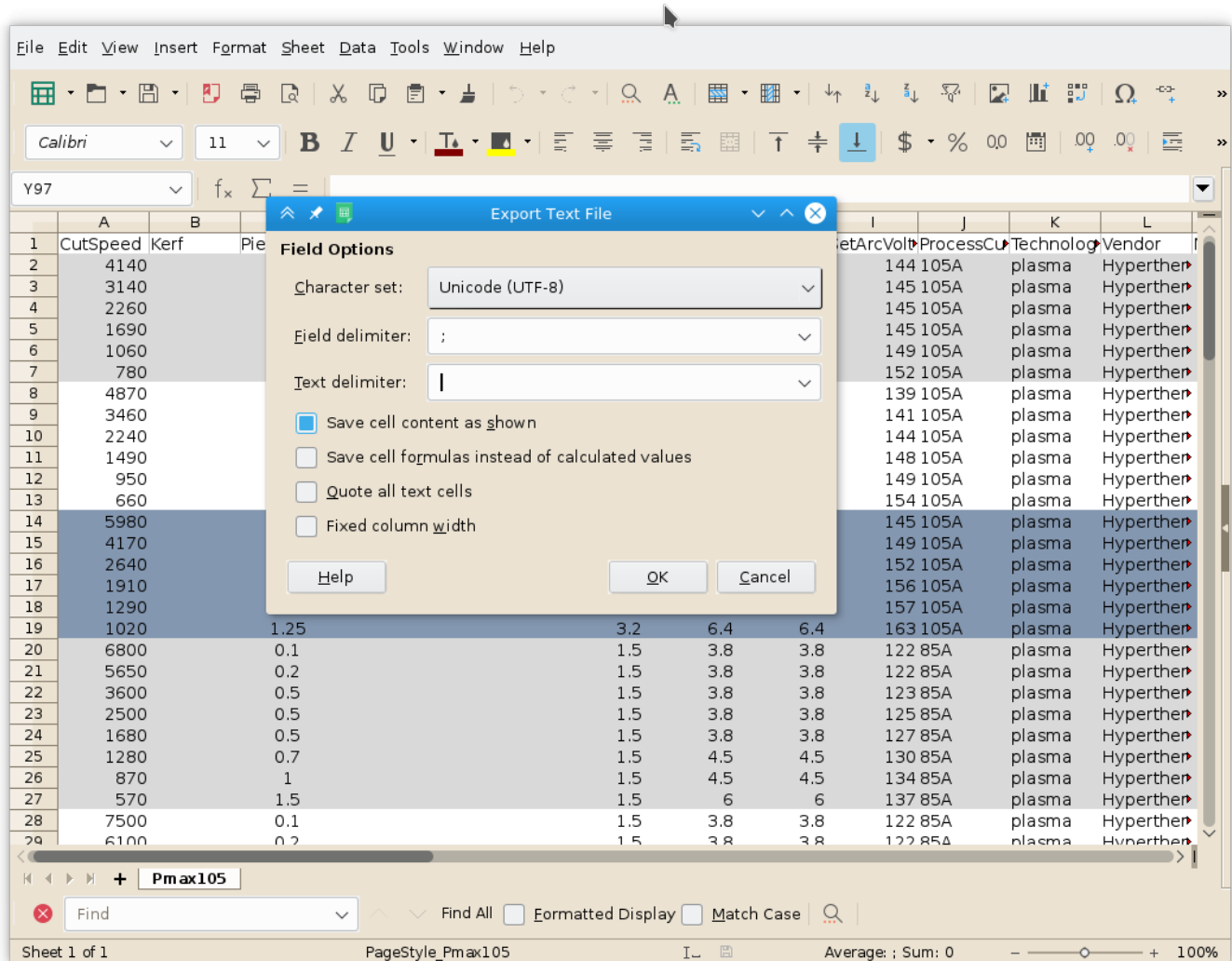
CSV files

Comma Separated Values (CSV) is a widely used text format. XLS/ODT files can be easily saved as **CSV** files directly from Libre Office Calc or Microsoft Excel.

For example, select **Save as** in Libre Office menu, select **Text CVS** and choose the following in the CSV options:



- “;” as field delimiter
- “” (empty) as text delimiter



These delimiters allow the file to distinguish between different entries that are typed in. The file should now be ready to use.

Parameters List

Parameters List that can be stored in Cutchart is shown in the table below:

Parameter Name	Description
Technology	Cutting technology (Plasma, Oxy-fuel, laser etc)
Vendor	Cutchart vendor
Revision	Cutchart Revision
TorchType	Torch Type
MaterialThickness	Material Thickness
MaterialType	Material Type (Mild Steel, Stainless Stel, Aluminium, Brass)
Process	Process definition (like HPR xd, Fine-Cut etc)
SpecificMaterial	Specific materail (like Bevel cutting)
CollisionDelayTime	—
HoldPierceHeightTime	—
NoMoveAtHolecut	—
Gas_Select1_Type	HPR Automatic gas console Gas Mix Select #1

Parameter Name	Description
Gas_Select2_Type	HPR Automatic gas console Gas Mix Select #2
Consumable part numbers	
ShieldRetainingCap	Shield Retaining Cap part number
Shield	Shield part number
NozzleRetainingCap	Nozzle Retaining Cap part number
Nozzle	Nozzle part number
SwirlRing	Swirl Ring part number
Electrode	Electrode part number
WaterTube	Water Tube part number
Oxy-fuel cutting parameters	
TimeIgnitionValve	Oxyfuel cutting: Ignition time
TimeIgnitionSparkle	Oxyfuel cutting: Sparkle time
TimePreheat	Oxyfuel cutting: Preheat time
TimeSoftOxyStart	Oxyfuel cutting: Cutting Oxygen Soft start time
AGC_Ignition_Fuel	Oxyfuel cutting: Automatic Gas Console - Fuel on Ignition
AGC_Ignition_OxyHeat	Oxyfuel cutting: Automatic Gas Console - Preheat Oxygen on Ignition
AGC_Preheat_Fuel	Oxyfuel cutting: Automatic Gas Console - Fuel on Preheat
AGC_Pierce_Fuel	Oxyfuel cutting: Automatic Gas Console - Fuel on Pierce
AGC_Pierce_OxyHeat	Oxyfuel cutting: Automatic Gas Console - Cutting Oxygen on Ignition
AGC_Pierce_OxyCut	Oxyfuel cutting: Automatic Gas Console - Fuel on Ignition
AGC_Cutting_Fuel	Oxyfuel cutting: Automatic Gas Console - Fuel on Cutting
AGC_Cutting_OxyHeat	Oxyfuel cutting: Automatic Gas Console - Preheat Oxygen on Cutting
AGC_Cutting_OxyCut	Oxyfuel cutting: Automatic Gas Console - Cutting Oxygen on Cutting
AGC_Pilot_Fuel	Oxyfuel cutting: Automatic Gas Console - Fuel on Pilot flame
AGC_Pilot_OxyHeat	Oxyfuel cutting: Automatic Gas Console - Oxygen Fuel on Ignition
Cutting Parameters	
CutSpeed	Cut Speed
Kerf	Kerf Compensation
CreepTime	
CreepSpeed	Creep Speed (see above)
Torch Height Control Parameters	
HC_IgnitionHeight	Ignition Height (Transfer Height)
HC_PierceHeight	Pierce Height
HC_CutHeight	Cut Height
HC_PierceHeightFactor	Hypertherm Parameter, different way to program similar to Pierce Height
HC_PierceDelay	Pierce Delay (Pierce Time)
HC_ArcVoltage	Height control reference voltage (defines cutting height)
HC_ControlDelay	Height control delay - Height control activated after pierce + this delay finished
Plasma Cutting	
ProcessCurrent	Plasma: Process current
SetArcCurrent	Set Arc Current parameter to be sent to PLaasma SOurce (id supported)
CornerReduction	Reduction Process current on corners to reduce overheat and improve corner cut quality
PlasmaShieldGases	Plasma cutting gases for Plasma and Shield channels

Parameter Name	Description
Plasma_Gas	Gas type for Plasma channel
Shield_Gas	Gas type for Shield channel
MixGas1	HPR Gas console MixGas1 Parameter
MixGas2	HPR Gas console MixGas2 Parameter
Plasma Automatic Gas Console	
AGC_PlasmaPrewflow	Plasma: Automatic Gas Console Plasma channel Prewflow gas pressure
AGC_ShieldPrewflow	Plasma: Automatic Gas Console Shield channel Prewflow gas pressure
AGC_PlasmaCutflow	Plasma: Automatic Gas Console Plasma channel Cutflow gas pressure
AGC_ShieldCutflow	Plasma: Automatic Gas Console Shield channel Cutflow gas pressure
Plasma Manual Gas Console	
MGC_PlasmaPrewflow	Plasma: Manual Gas Console Plasma channel Prewflow gas pressure
MGC_ShieldPrewflow	Plasma: Manual Gas Console Shield channel Prewflow gas pressure
MGC_PlasmaCutflow	Plasma: Manual Gas Console Plasma channel Cutflow gas pressure
MGC_ShieldCutflow	Plasma: Manual Gas Console Shield channel Cutflow gas pressure
Additional Parameters	
PS_MarkingDataset	—
PS_TimeSpeedCountourEnd	—
PS_OverrideTimeway	—
PS_WayPlasmaOff	—
PS_WaySpeedCountourEnd	—
PS_PierceReductionDistance	—
PS_PierceReduction	—
PS_CornerCurrentReduction	—

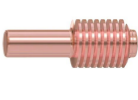
Adding custom images and data

In this section, we will cover an example of adding a custom nozzle image for an existing cutcharts file. A similar operation can be performed for a cutcharts file for a new plasma power source.

In our example, we will be using the Hypertherm Powermax45 cutcharts, which are available [on our website](#). Below is the default cutcharts' screen:

Shielded - Best Quality Shielded - Production Unshielded - Best Quality Unshielded - Production	Mild Steel Stainless Steel Aluminum	26 Ga 22 Ga 20 Ga 16 Ga 14 Ga 12 Ga 10 Ga 3/16 in 1/4 in 3/8 in 1/2 in	30 45
Process	Material	Thickness, mm	Current, A




220673

Vendor: HyperTherm
Material: Mild Steel
Thickness,mm: 26 Ga
Torch Type: Powermax 45
Process Current,A: 30
Set Plasma Current,A: 30
Gases: Air/Air

Shield Retaining Cap: 220713
Shield: 220673
Electrode: 220669
Nozzle: 220671
Swirl Ring: 220670

220713

Cut Speed: 360
Ignition Height: 0.06
Pierce Height: 0.15
Pierce Delay: 0
Cutting Height: 0.06
Set Arc Voltage: 117
Set Arc Current: 30
Corner Reduction: 100

220671

Time Preheat: 0.0
Soft Oxygene Start: 0.0
Oxy-Fuel: Ignition/Fuel: 0.0
Oxy-Fuel: Ignition/Oxy-Heat: 0.0
Oxy-Fuel: Preheat/Fuel: 0.0
Oxy-Fuel: Preheat/Oxy-Heat: 0.0
Oxy-Fuel: Pierce/Fuel: 0.0
Oxy-Fuel: Pierce/Oxy-Heat: 0.0
Oxy-Fuel: Pierce/Oxy-Cut: 0.0
Oxy-Fuel: Cutting/Fuel: 0.0
Oxy-Fuel: Cutting/Oxy-Heat: 0.0
Oxy-Fuel: Cutting/Oxy-Cut: 0.0

220669

220670

plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 1

plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 2

plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 3

plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 4

plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 5

plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 6

plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 7

plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 8

plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 9

plasma-HyperTherm-Mild Steel-45-3/16 in-Air/Air 10

plasma-HyperTherm-Mild Steel-45-1/4 in-Air/Air 11

plasma-HyperTherm-Mild Steel-45-3/8 in-Air/Air 12

plasma-HyperTherm-Mild Steel-45-1/2 in-Air/Air 13

plasma-HyperTherm-Mild Steel-45-5/8 in-Air/Air 14

plasma-HyperTherm-Mild Steel-45-3/4 in-Air/Air 15

plasma-HyperTherm-Mild Steel-45-1 in-Air/Air 16

plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 17

plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 18

plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 19

plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 20

plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 21

plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 22

plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 23

plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 24

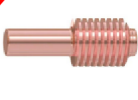
plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 25

LOAD

Here, we will be editing the default nozzle, pictured below:

Shielded - Best Quality Shielded - Production Unshielded - Best Quality Unshielded - Production	Mild Steel Stainless Steel Aluminum	26 Ga 22 Ga 20 Ga 16 Ga 14 Ga 12 Ga 10 Ga 3/16 in 1/4 in 3/8 in 1/2 in	30 45
Process	Material	Thickness, mm	Current, A




220673

Vendor: HyperTherm
Material: Mild Steel
Thickness,mm: 26 Ga
Torch Type: Powermax 45
Process Current,A: 30
Set Plasma Current,A: 30
Gases: Air/Air

Shield Retaining Cap: 220713
Shield: 220673
Electrode: 220669
Nozzle: 220671
Swirl Ring: 220670

220713

Cut Speed: 360
Ignition Height: 0.06
Pierce Height: 0.15
Pierce Delay: 0
Cutting Height: 0.06
Set Arc Voltage: 117
Set Arc Current: 30
Corner Reduction: 100

220671

Time Preheat: 0.0
Soft Oxygene Start: 0.0
Oxy-Fuel: Ignition/Fuel: 0.0
Oxy-Fuel: Ignition/Oxy-Heat: 0.0
Oxy-Fuel: Preheat/Fuel: 0.0
Oxy-Fuel: Preheat/Oxy-Heat: 0.0
Oxy-Fuel: Pierce/Fuel: 0.0
Oxy-Fuel: Pierce/Oxy-Heat: 0.0
Oxy-Fuel: Pierce/Oxy-Cut: 0.0
Oxy-Fuel: Cutting/Fuel: 0.0
Oxy-Fuel: Cutting/Oxy-Heat: 0.0
Oxy-Fuel: Cutting/Oxy-Cut: 0.0

220669

220670

plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 1

plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 2

plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 3

plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 4

plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 5

plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 6

plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 7

plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 8

plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 9

plasma-HyperTherm-Mild Steel-45-3/16 in-Air/Air 10

plasma-HyperTherm-Mild Steel-45-1/4 in-Air/Air 11

plasma-HyperTherm-Mild Steel-45-3/8 in-Air/Air 12

plasma-HyperTherm-Mild Steel-45-1/2 in-Air/Air 13

plasma-HyperTherm-Mild Steel-45-5/8 in-Air/Air 14

plasma-HyperTherm-Mild Steel-45-3/4 in-Air/Air 15

plasma-HyperTherm-Mild Steel-45-1 in-Air/Air 16

plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 17

plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 18

plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 19

plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 20

plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 21

plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 22

plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 23

plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 24

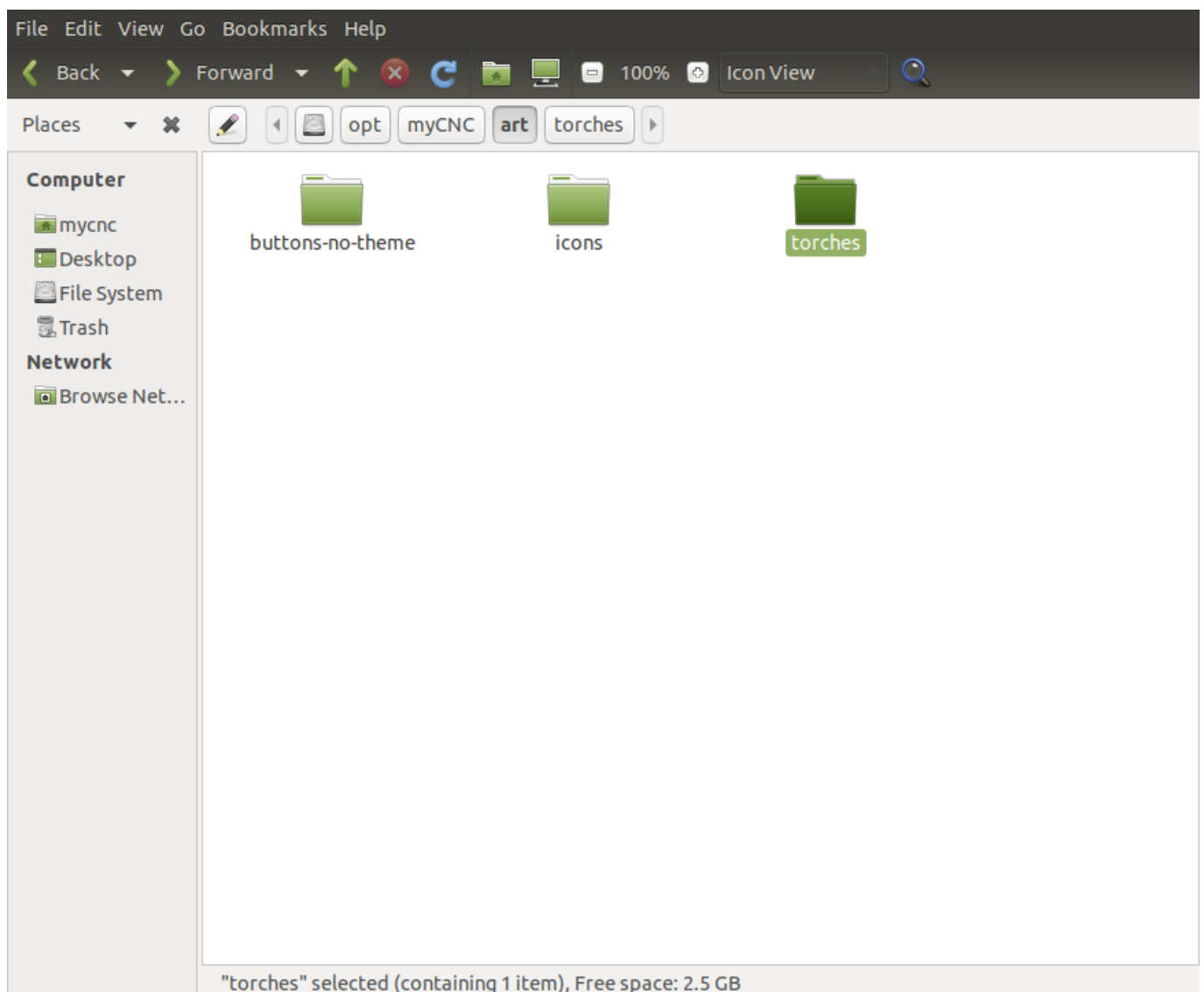
plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 25

LOAD

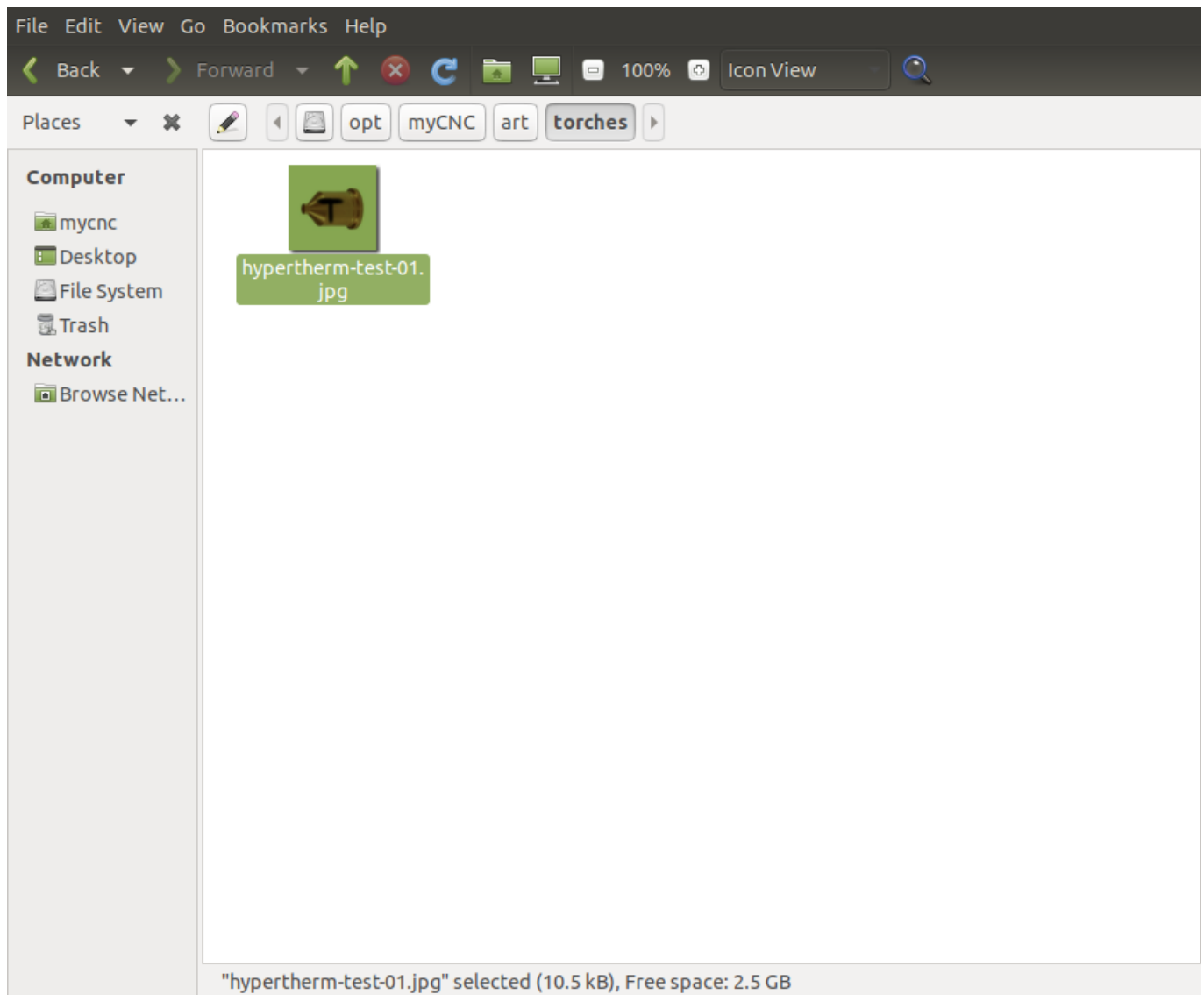
and replacing it with the following image (titled hypertherm-test-01.jpg, with a "t" for "test"):



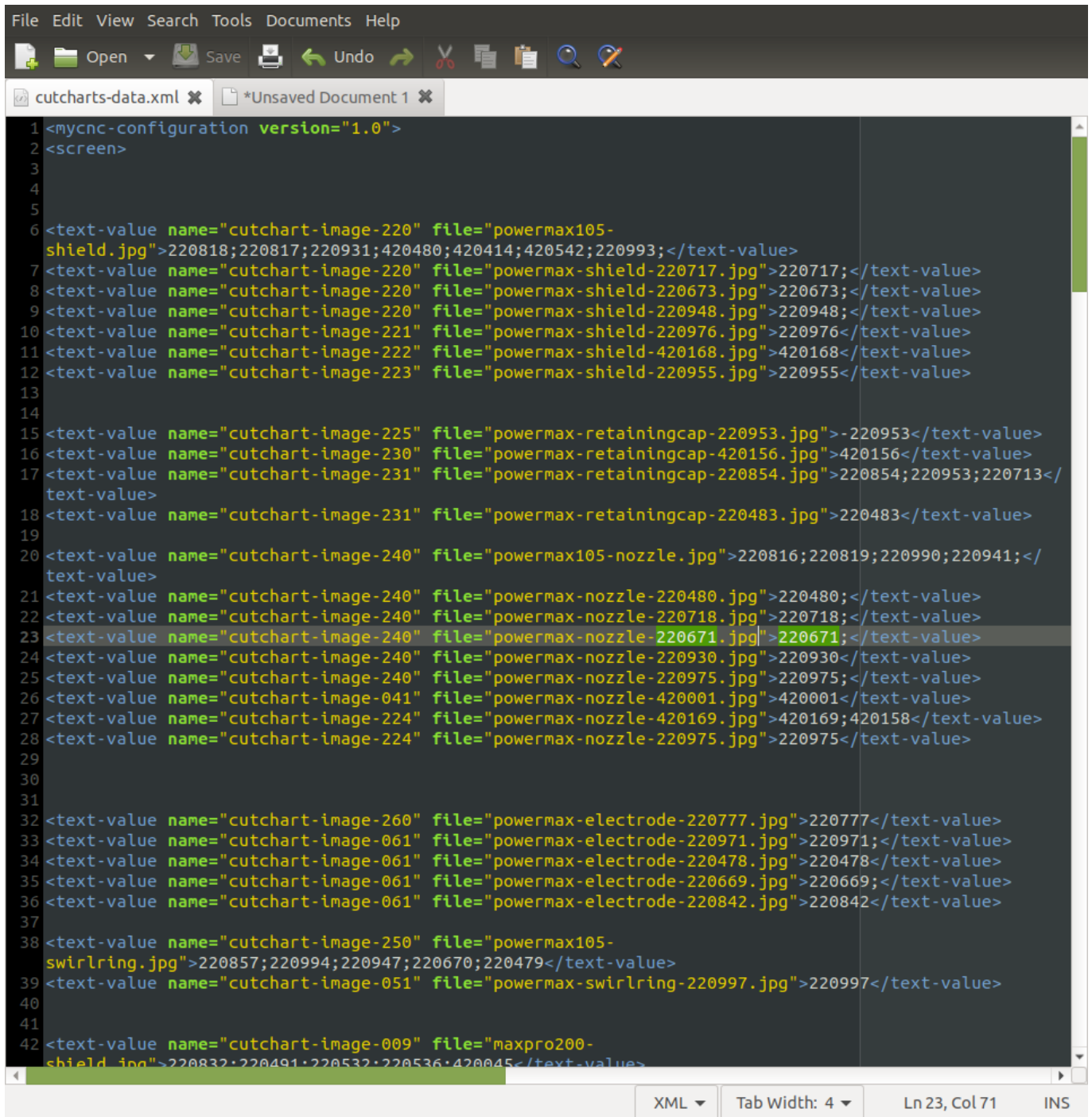
In order to do so, navigate over to your File System tab, and then into **opt/myCNC/art**. Within this folder, create a torches folder (if none exists):



Within the torches folder, add the custom image that will be used for your cutcharts. In case of this example, it will be `hypertherm-test-01.jpg`:

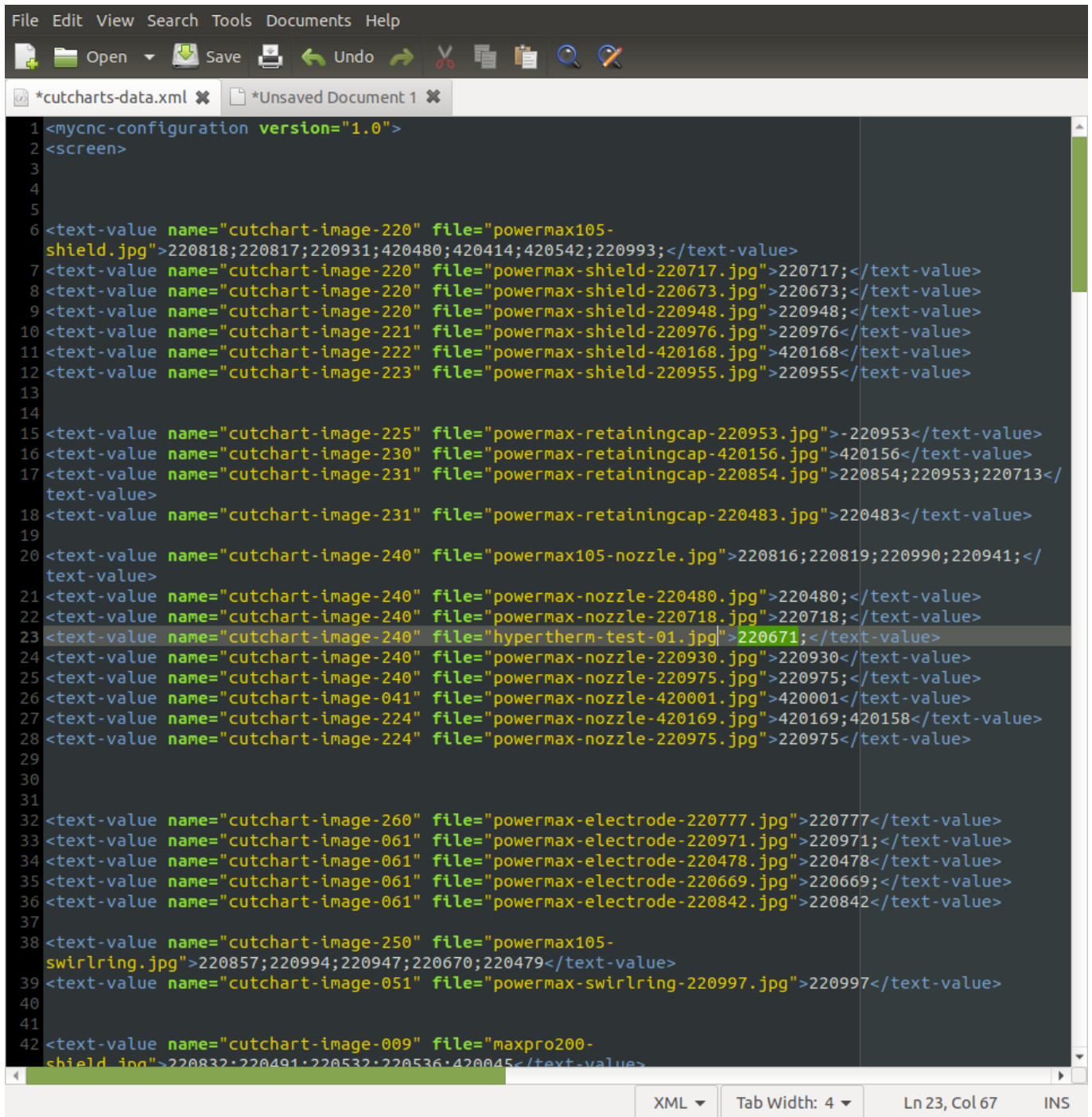


Next, navigate over to your profile folder (located in `/home/.config/myCNC/profiles` - X1366P in this example), locate and open the `cutcharts-data.xml` file. Within this file, locate the part number that you will be replacing/adding. For this example, nozzle #220671 will be edited:



```
1 <mycnc-configuration version="1.0">
2 <screen>
3
4
5
6 <text-value name="cutchart-image-220" file="powermax105-
  shield.jpg">220818;220817;220931;420480;420414;420542;220993;</text-value>
7 <text-value name="cutchart-image-220" file="powermax-shield-220717.jpg">220717;</text-value>
8 <text-value name="cutchart-image-220" file="powermax-shield-220673.jpg">220673;</text-value>
9 <text-value name="cutchart-image-220" file="powermax-shield-220948.jpg">220948;</text-value>
10 <text-value name="cutchart-image-221" file="powermax-shield-220976.jpg">220976;</text-value>
11 <text-value name="cutchart-image-222" file="powermax-shield-420168.jpg">420168;</text-value>
12 <text-value name="cutchart-image-223" file="powermax-shield-220955.jpg">220955;</text-value>
13
14
15 <text-value name="cutchart-image-225" file="powermax-retainingcap-220953.jpg">220953;</text-value>
16 <text-value name="cutchart-image-230" file="powermax-retainingcap-420156.jpg">420156;</text-value>
17 <text-value name="cutchart-image-231" file="powermax-retainingcap-220854.jpg">220854;220953;220713;</
  text-value>
18 <text-value name="cutchart-image-231" file="powermax-retainingcap-220483.jpg">220483;</text-value>
19
20 <text-value name="cutchart-image-240" file="powermax105-nozzle.jpg">220816;220819;220990;220941;</
  text-value>
21 <text-value name="cutchart-image-240" file="powermax-nozzle-220480.jpg">220480;</text-value>
22 <text-value name="cutchart-image-240" file="powermax-nozzle-220718.jpg">220718;</text-value>
23 <text-value name="cutchart-image-240" file="powermax-nozzle-220671.jpg">220671;</text-value>
24 <text-value name="cutchart-image-240" file="powermax-nozzle-220930.jpg">220930;</text-value>
25 <text-value name="cutchart-image-240" file="powermax-nozzle-220975.jpg">220975;</text-value>
26 <text-value name="cutchart-image-041" file="powermax-nozzle-420001.jpg">420001;</text-value>
27 <text-value name="cutchart-image-224" file="powermax-nozzle-420169.jpg">420169;420158;</text-value>
28 <text-value name="cutchart-image-224" file="powermax-nozzle-220975.jpg">220975;</text-value>
29
30
31
32 <text-value name="cutchart-image-260" file="powermax-electrode-220777.jpg">220777;</text-value>
33 <text-value name="cutchart-image-061" file="powermax-electrode-220971.jpg">220971;</text-value>
34 <text-value name="cutchart-image-061" file="powermax-electrode-220478.jpg">220478;</text-value>
35 <text-value name="cutchart-image-061" file="powermax-electrode-220669.jpg">220669;</text-value>
36 <text-value name="cutchart-image-061" file="powermax-electrode-220842.jpg">220842;</text-value>
37
38 <text-value name="cutchart-image-250" file="powermax105-
  swirlring.jpg">220857;220994;220947;220670;220479;</text-value>
39 <text-value name="cutchart-image-051" file="powermax-swirlring-220997.jpg">220997;</text-value>
40
41
42 <text-value name="cutchart-image-009" file="maxpro200-
  shield.jpg">220832;220491;220532;220536;420045;</text-value>
```

Replace the file name and save the cutcharts-data.xml file:



```

1 <mycnc-configuration version="1.0">
2 <screen>
3
4
5
6 <text-value name="cutchart-image-220" file="powermax105-
  shield.jpg">220818;220817;220931;420480;420414;420542;220993;</text-value>
7 <text-value name="cutchart-image-220" file="powermax-shield-220717.jpg">220717;</text-value>
8 <text-value name="cutchart-image-220" file="powermax-shield-220673.jpg">220673;</text-value>
9 <text-value name="cutchart-image-220" file="powermax-shield-220948.jpg">220948;</text-value>
10 <text-value name="cutchart-image-221" file="powermax-shield-220976.jpg">220976;</text-value>
11 <text-value name="cutchart-image-222" file="powermax-shield-420168.jpg">420168;</text-value>
12 <text-value name="cutchart-image-223" file="powermax-shield-220955.jpg">220955;</text-value>
13
14
15 <text-value name="cutchart-image-225" file="powermax-retainingcap-220953.jpg">220953;</text-value>
16 <text-value name="cutchart-image-230" file="powermax-retainingcap-420156.jpg">420156;</text-value>
17 <text-value name="cutchart-image-231" file="powermax-retainingcap-220854.jpg">220854;220953;220713;</
  text-value>
18 <text-value name="cutchart-image-231" file="powermax-retainingcap-220483.jpg">220483;</text-value>
19
20 <text-value name="cutchart-image-240" file="powermax105-nozzle.jpg">220816;220819;220990;220941;</
  text-value>
21 <text-value name="cutchart-image-240" file="powermax-nozzle-220480.jpg">220480;</text-value>
22 <text-value name="cutchart-image-240" file="powermax-nozzle-220718.jpg">220718;</text-value>
23 <text-value name="cutchart-image-240" file="hypertherm-test-01.jpg">220671;</text-value>
24 <text-value name="cutchart-image-240" file="powermax-nozzle-220930.jpg">220930;</text-value>
25 <text-value name="cutchart-image-240" file="powermax-nozzle-220975.jpg">220975;</text-value>
26 <text-value name="cutchart-image-041" file="powermax-nozzle-420001.jpg">420001;</text-value>
27 <text-value name="cutchart-image-224" file="powermax-nozzle-420169.jpg">420169;420158;</text-value>
28 <text-value name="cutchart-image-224" file="powermax-nozzle-220975.jpg">220975;</text-value>
29
30
31
32 <text-value name="cutchart-image-260" file="powermax-electrode-220777.jpg">220777;</text-value>
33 <text-value name="cutchart-image-061" file="powermax-electrode-220971.jpg">220971;</text-value>
34 <text-value name="cutchart-image-061" file="powermax-electrode-220478.jpg">220478;</text-value>
35 <text-value name="cutchart-image-061" file="powermax-electrode-220669.jpg">220669;</text-value>
36 <text-value name="cutchart-image-061" file="powermax-electrode-220842.jpg">220842;</text-value>
37
38 <text-value name="cutchart-image-250" file="powermax105-
  swirlring.jpg">220857;220994;220947;220670;220479;</text-value>
39 <text-value name="cutchart-image-051" file="powermax-swirlring-220997.jpg">220997;</text-value>
40
41
42 <text-value name="cutchart-image-009" file="maxpro200-
  shield.jpg">220832;220491;220532;220536;420045;</text-value>

```

Upon reloading the application, the changes should take effect:

Shielded - Best Quality Shielded - Production Unshielded - Best Quality Unshielded - Production	Mild Steel Stainless Steel Aluminum	26 Ga 22 Ga 20 Ga 16 Ga 14 Ga 12 Ga 10 Ga 3/16 in 1/4 in 3/8 in 1/2 in	30 45				
Process	Material	Thickness, mm	Current, A				
							
<table border="1"><tr><td>Vendor: Hypertherm Material: Mild Steel Thickness,mm: 26 Ga Torch Type: Powermax 45 Process Current,A: 30 Set Plasma Current,A: 30 Gases: Air/Air Shield Retaining Cap: 220713 Shield: 220673 Electrode: 220669 Nozzle: 220671 Swirl Ring: 220670</td><td>Cut Speed: 360 Ignition Height: 0.06 Pierce Height: 0.15 Pierce Delay: 0 Cutting Height: 0.06 Set Arc Voltage: 117 Set Arc Current: 30 Corner Reduction: 100</td><td>Time Preheat: 0.0 Soft Oxygene Start: 0.0 Oxy-Fuel: Ignition/Fuel: 0.0 Oxy-Fuel: Ignition/Oxy-Heat: 0.0 Oxy-Fuel: Preheat/Fuel: 0.0 Oxy-Fuel: Preheat/Oxy-Heat: 0.0 Oxy-Fuel: Pierce/Fuel: 0.0 Oxy-Fuel: Pierce/Oxy-Heat: 0.0 Oxy-Fuel: Pierce/Oxy-Cut: 0.0 Oxy-Fuel: Cutting/Fuel: 0.0 Oxy-Fuel: Cutting/Oxy-Heat: 0.0 Oxy-Fuel: Cutting/Oxy-Cut: 0.0</td><td>plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 1 plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 2 plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 3 plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 4 plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 5 plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 6 plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 7 plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 8 plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 9 plasma-HyperTherm-Mild Steel-45-3/16 in-Air/Air 10 plasma-HyperTherm-Mild Steel-45-1/4 in-Air/Air 11 plasma-HyperTherm-Mild Steel-45-3/8 in-Air/Air 12 plasma-HyperTherm-Mild Steel-45-1/2 in-Air/Air 13 plasma-HyperTherm-Mild Steel-45-5/8 in-Air/Air 14 plasma-HyperTherm-Mild Steel-45-3/4 in-Air/Air 15 plasma-HyperTherm-Mild Steel-45-1 in-Air/Air 16 plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 17 plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 18 plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 19 plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 20 plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 21 plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 22 plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 23 plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 24 plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 25</td></tr></table>				Vendor: Hypertherm Material: Mild Steel Thickness,mm: 26 Ga Torch Type: Powermax 45 Process Current,A: 30 Set Plasma Current,A: 30 Gases: Air/Air Shield Retaining Cap: 220713 Shield: 220673 Electrode: 220669 Nozzle: 220671 Swirl Ring: 220670	Cut Speed: 360 Ignition Height: 0.06 Pierce Height: 0.15 Pierce Delay: 0 Cutting Height: 0.06 Set Arc Voltage: 117 Set Arc Current: 30 Corner Reduction: 100	Time Preheat: 0.0 Soft Oxygene Start: 0.0 Oxy-Fuel: Ignition/Fuel: 0.0 Oxy-Fuel: Ignition/Oxy-Heat: 0.0 Oxy-Fuel: Preheat/Fuel: 0.0 Oxy-Fuel: Preheat/Oxy-Heat: 0.0 Oxy-Fuel: Pierce/Fuel: 0.0 Oxy-Fuel: Pierce/Oxy-Heat: 0.0 Oxy-Fuel: Pierce/Oxy-Cut: 0.0 Oxy-Fuel: Cutting/Fuel: 0.0 Oxy-Fuel: Cutting/Oxy-Heat: 0.0 Oxy-Fuel: Cutting/Oxy-Cut: 0.0	plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 1 plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 2 plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 3 plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 4 plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 5 plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 6 plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 7 plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 8 plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 9 plasma-HyperTherm-Mild Steel-45-3/16 in-Air/Air 10 plasma-HyperTherm-Mild Steel-45-1/4 in-Air/Air 11 plasma-HyperTherm-Mild Steel-45-3/8 in-Air/Air 12 plasma-HyperTherm-Mild Steel-45-1/2 in-Air/Air 13 plasma-HyperTherm-Mild Steel-45-5/8 in-Air/Air 14 plasma-HyperTherm-Mild Steel-45-3/4 in-Air/Air 15 plasma-HyperTherm-Mild Steel-45-1 in-Air/Air 16 plasma-HyperTherm-Mild Steel-30-26 Ga-Air/Air 17 plasma-HyperTherm-Mild Steel-30-22 Ga-Air/Air 18 plasma-HyperTherm-Mild Steel-30-20 Ga-Air/Air 19 plasma-HyperTherm-Mild Steel-30-16 Ga-Air/Air 20 plasma-HyperTherm-Mild Steel-45-20 Ga-Air/Air 21 plasma-HyperTherm-Mild Steel-45-16 Ga-Air/Air 22 plasma-HyperTherm-Mild Steel-45-14 Ga-Air/Air 23 plasma-HyperTherm-Mild Steel-45-12 Ga-Air/Air 24 plasma-HyperTherm-Mild Steel-45-10 Ga-Air/Air 25
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