



# INSTRUCTION MANUALS



**PANTHER<sup>®</sup>**

# CONTENTS

## 42"

PANTHER HORIZON MASTER COMPONENT LIST	02 – 03
PANTHER HORIZON EXPLODED DIAGRAM	04
STAGE 1 – CROSS RAILS	05
STAGE 2 – END BRACKETS & FRAME	06
STAGE 3 – CONTROL HANDLE	07
STAGE 4 – CONTROL TUBE	08
STAGE 5 – UPRIGHTS	09
STAGE 6 – ASSEMBLY OF ALL SECTIONS	10 –11

## 60"

PANTHER HORIZON MASTER COMPONENT LIST	12 – 13
PANTHER HORIZON EXPLODED DIAGRAM	14
STAGE 1 – CROSS RAILS	15
STAGE 2 – END BRACKETS & FRAME	16
STAGE 3 – CONTROL HANDLE	17
STAGE 4 – CONTROL TUBE	18
STAGE 5 – UPRIGHTS	19
STAGE 6 – ASSEMBLY OF ALL SECTIONS	20 –21

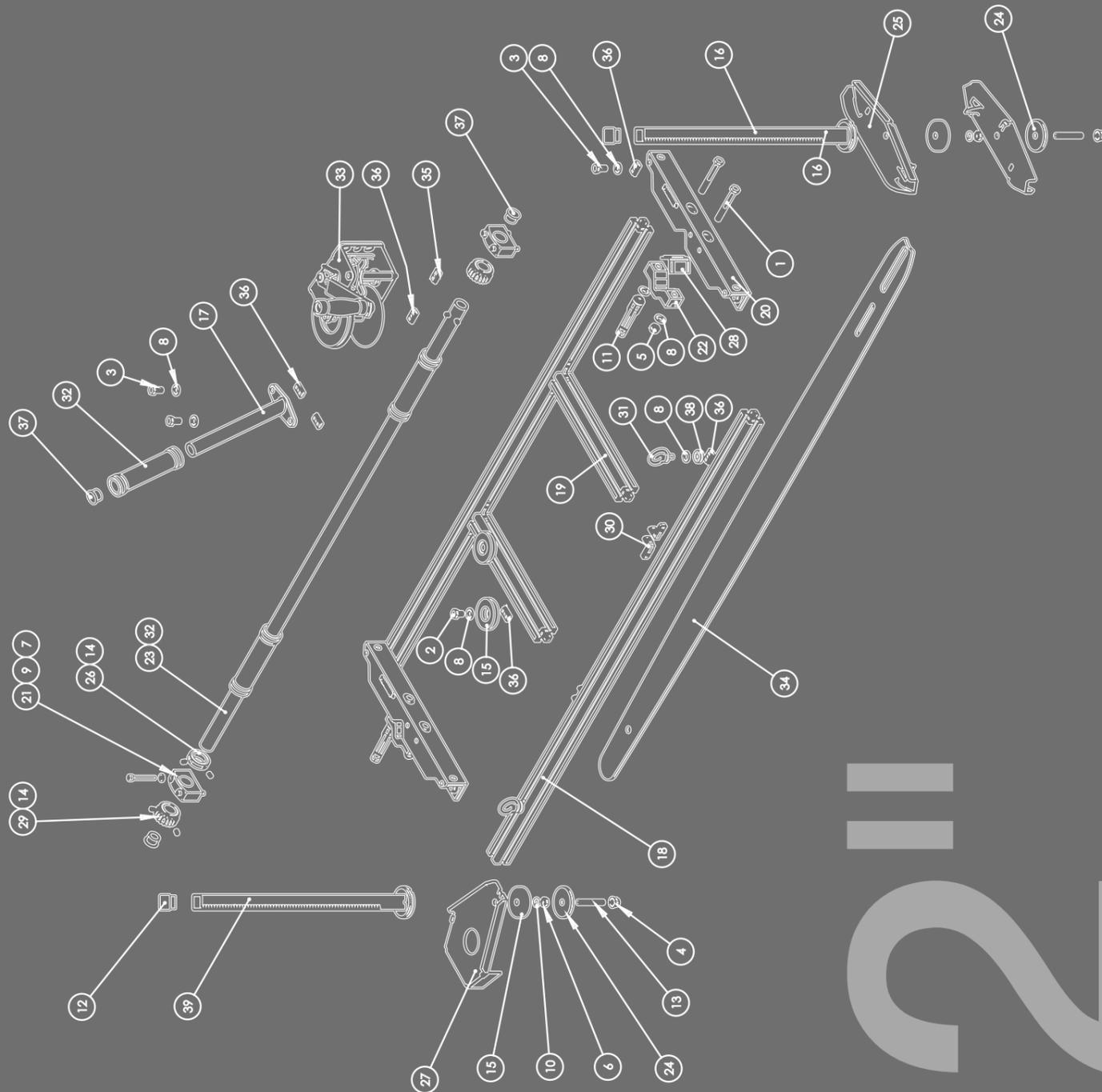
# PANTHER CHAINSAW MILLS

Panther Chainsaw Mills have been designed by professional chainsaw users over years of development. The mills are precision engineered, highly versatile, user friendly and have unique features that do not exist on any other portable chainsaw mill in the world. Panther Chainsaw Mills are designed and built in the UK to the highest specifications and materials and are available exclusively through Chainsawbars.

## 42" PANTHER HORIZON MASTER COMPONENT LIST

ITEM NUMBER	PART NUMBER	DESCRIPTION	AMOUNT	IMAGE
1	CM001B	Hex Bolt M8 x 65mm	4	
2	CM001H	Hex Screw Flanged M8 x 12mm (2 of these are optional)	4	
3	CM002H	Hex Screw M8 x 16mm	6	
4	CM002N	Nut M8 Flanged	4	
5	CM003N	Nyloc Nut M8	2	
6	CM004N	Plain Nut M8	2	
7	CM005W	Plain Washer M6	4	
8	CM006W	Plain Washer M8	10	
9	CM007S	Sock Cap Screw M8 x 40mm	4	
10	CM008W	Spring Washer M8	2	
11	3837	Adjustable Handle M8 x 16mm Female	2	
12	465343	Square Chrome Plastic Insert	2	
13	3841	Grub screw M8 x 50mm Cup Point	2	
14	3842	Grub screw M6 x 8 Cup Point	6	
15	3844	Magnet, Flat Retaining	4	
16	CM-02R	Right Rack Assembly	1	
17	CM-A03	Push Handle WA	1	
18	CM002A	30 x 30mm Profile Side Rail	2	
19	CM002C	30 x 30mm Profile Cross Brace	2	

ITEM NUMBER	PART NUMBER	DESCRIPTION	AMOUNT	IMAGE
20	CM003	Rack Mount BKT	2	
21	CM004A	Pinion Block	2	
22	CM005	Rack Clamp	2	
23	CM006A	Control Tube	1	
24	CM011	Bar Clamp Washer	2	
25	CM035	MK2 Saw Guide	2	
26	CM019	Stop Boss	1	
27	CM025	End Bar Guard	1	
28	CM029	Plastic Insert	2	
29	CM031	Pinion	2	
30	CM009A	Corner Bracket	8	
31	CM009B	Eyebolt M8 (Optional item)	2	
32	CM009C	Handle Grip	3	
33	CM009D	Hand Winch 600lb (Optional accessory)	1	
34	SNHL	GB Lo Pro Guidebar – 28" / 30" / 36" / 42"	1	
35	CM010S	Slide Nut M6 – This looks very similar to Item 36 but accommodates a smaller M6 screw size	1	
36	CM011S	Slide Nut M8 (Some of these are optional)	11	
37	465334	Round Chrome Plastic Insert	3	
38	CM012W	Winch Eye Spacer (Optional item)	2	
39	CM-02L	Left Rack Assembly (Optional item)	1	



42



**1A**

Take the following parts  
Item 19 x 2 Cross Braces  
Item 30 x 8 Corner Brackets  
Small Allen Key



**1B**

Loosen all Grub Screws  
as shown by turning the  
Allen Key anti clockwise.



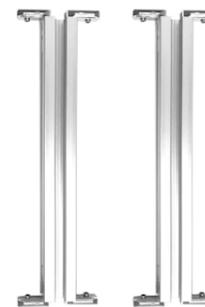
**1C**

Insert 2 Corner Brackets into  
the Cross Brace end ensuring  
to insert the longer ends of  
the Corner Bracket.



**1D**

Use the other Cross  
Brace as a guide sliding  
the Corner Brackets into  
the top and tightening  
the upright Grub Screws.



**1E**

You should end up with  
all Corner brackets  
secured as shown.



**1F**

Take the following parts  
Item 2 x 4 Hex Screws  
Flanged M8 x 12mm  
Item 8 x 2 Plain Washers M8  
Item 15 x 2 Magnets, Flat Retaining  
Item 36 x 4 Slide Nuts M8



**1G**

Insert the Slide Nuts  
as shown opposite.



**1H**

Screw in the Hex Screw  
Flanged M8. These can  
be hand tightened ready  
for the Push Handle later.



**1I**

Take the parts opposite.  
Insert the Hex Screws through  
the Magnets. Then insert the  
Slide Nuts into the Cross Brace.  
Add Plain Washers M8 to sit  
between the Magnet and the  
Cross Braces.



Add a Plain  
Washers M8  
Washer



**1J**

You should end up with  
the Magnets secured as  
shown, This section is for  
the Tool Holder.

## 42" STAGE 2 – END BRACKETS & FRAME



Take the following parts  
 Item 1 x 4 Hex Bolt M8 x 65mm  
 Item 5 x 2 Nyloc Nut M8  
 Item 8 x 4 Plain Washer M8  
 Item 11 x 2 Adjustable Handle M8 x 16mm Female  
 Item 20 x 2 Rack Mount BKT  
 Item 22 x 2 Rack Clamp  
 Item 28 x 2 Plastic Insert



Insert the 2 Hex Bolt M8 into the back of the Rack Mount BKT and insert the Plastic Insert as shown above with the grooved side of the Plastic Insert facing down.



**2C** Fit Adjustable Handle on logo side  
 Slide on the Rack Clamp, then the 2 x Plain Washer M8. Then add the Adjustable Handle on the same side as the Panther logo and the Nyloc Nut M8 on the opposite side. Do not fully tighten the nut you can do this later. Repeat this step so you have x 2 assembled Rack Mounts.



Take the following parts  
 Item 31 x 2 Eyebolts M8 SS  
 Item 35 x 1 Slide Nuts M6  
 Item 36 x 7 Slide Nuts M8  
 Item 38 x 2 Winch Eye Spacers – CM027  
 Item 3 x 4 Hex Screws M8 x 16mm  
 Item 8 x 4 Plain Washers M8  
 Item 18 x 2 30 x 30mm Profile Side Rails

Please note the above parts include the optional winch. If winch is not included then omit the following – Item 31 x 2, Item 35 x 1, Item 36 x 2 and Item 38 x 2.



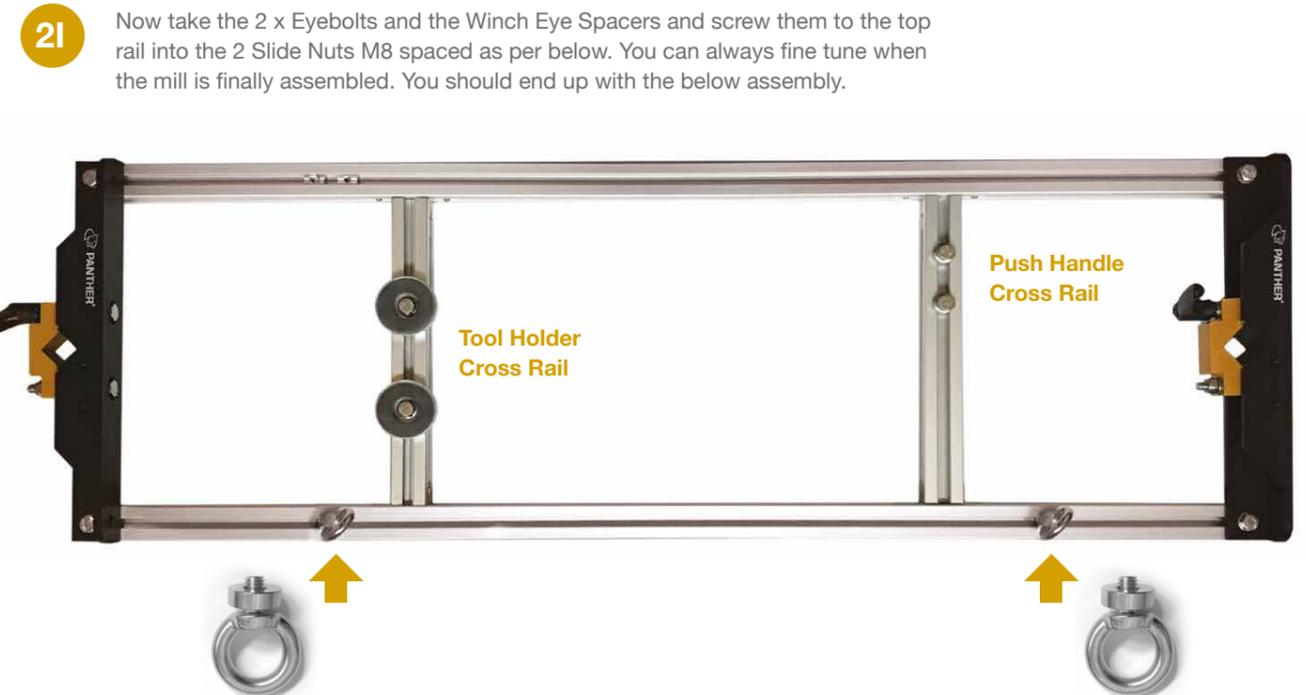
Slide Nut M6

On the left hand side near the Tool Holder Insert 3 Slide Nuts M8 into the bottom left. On the top left slide 1 Slide Nut M6, then 2 Slide Nuts M8.



Slide Nut M6

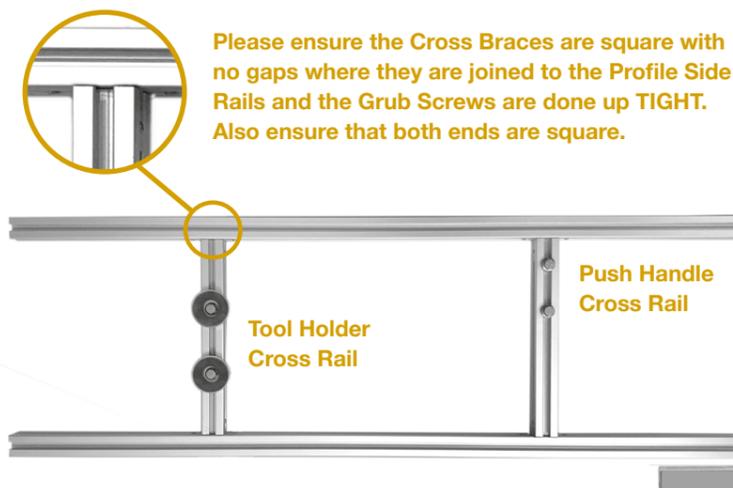
Then add the Rack Mount using the Hex Screws M8 with Plain Washers M8 as before with handle facing outwards as shown opposite



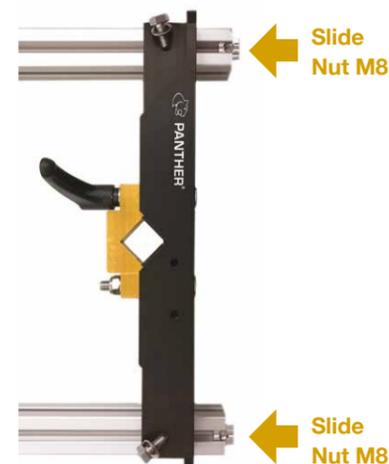
**2I** Now take the 2 x Eyebolts and the Winch Eye Spacers and screw them to the top rail into the 2 Slide Nuts M8 spaced as per below. You can always fine tune when the mill is finally assembled. You should end up with the below assembly.

**2E** Take the 2 x Cross Rails with the 2 nuts for the Push Handle and slide them onto the Profile Side Rails on the right. Then take the Tool Holder Cross Rail and slide it on the left.

**2F** Insert 2 Slide Nuts M8 into the right hand side near the Push Handle side, place the Rack Mount on top and then screw in a Hex Screws M8 with a Plain Washers M8.



Please ensure the Cross Braces are square with no gaps where they are joined to the Profile Side Rails and the Grub Screws are done up TIGHT. Also ensure that both ends are square.



Slide Nut M8

Slide Nut M8

## 42" STAGE 3 – CONTROL HANDLE



**3A** Take the following parts  
 Item 17 x 1 Push Handle WA  
 Item 32 x 1 Handle Grip  
 Item 37 x 1 Round Chrome Plastic Insert



**3B** Slide the Handle Grip onto the Push Handle and insert the Round Chrome Plastic Insert into the end. Fully tighten the Grub Screws and you can have them facing as shown opposite for easy access.

## 42" STAGE 4 – CONTROL TUBE

4A

- Take the following parts
- Item 7 x 4 Plain Washers M6
- Item 9 x 4 Sock Cap Screw M6 x 45mm
- Item 21 x 2 Pinion Blocks
- Item 23 x 1 Control Tube
- Item 26 x 1 Stop Boss
- Item 29 x 2 Pinions
- Item 32 x 2 Handle Grips
- Item 37 x 2 Round Chrome Plastic Inserts



4B

Slide the following parts onto the Control Tube on the left hand end in the following order, loosening the Grub Screws before sliding each item on.

- Item 21 x 1 Stop Boss
  - Item 21 x 1 Pinion Block
  - Item 29 x 1 Pinion – **check direction matches picture**
- Ensure that all Grub Screws are facing upwards and tighten**



4C

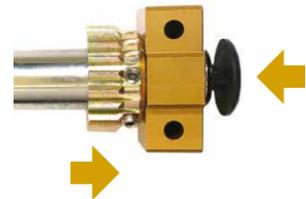
Loosen the Grub Screws on the 2 Handle Grips and slide them onto the Control Tube. Tighten the Grub Screws ensuring they are facing the same direction as the Grub Screws in Task 4B.



4D

Slide the following parts onto the right side of the Control Tube in the following order.

- Item 21 x 1 Pinion Block
- Item 29 x 1 Pinions – **check direction matches picture**



**Ensure that all Grub Screws are facing upwards and tighten**

You can also fit the Round Chrome Plastic Insert.

4E

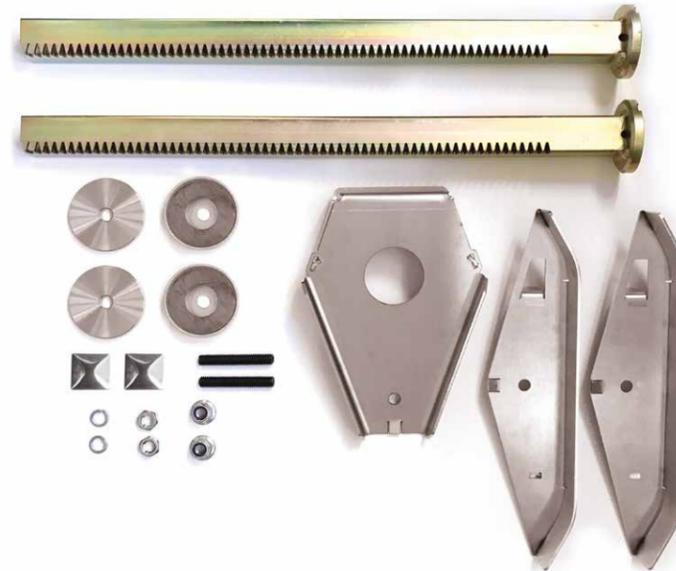
You should now have the completed assembly below with all Grub Screws pointed upwards for easy adjustment.



## 42" STAGE 5 – UPRIGHTS

5A

- Take the following parts
- Item 4 x 2 Nyloc Nuts M8 Flange
- Item 6 x 2 Plain Nuts M8
- Item 10 x 2 Spring Washers M8
- Item 12 x 2 Square Chrome Plastic Inserts
- Item 13 x 2 Grub Screw M8 x 50mm Cup Points
- Item 15 x 2 Magnets, Flat Retaining
- Item 16 x 1 Right Rack Assembly
- Item 24 x 2 Bar Clamp Washer
- Item 25 x 2 MK2 Saw Guides
- Item 27 x 1 End Bar Guard
- Item 39 x 1 Left Rack Assembly



5C

Insert a MK2 Saw Guide ensuring that it fits into the groove in the **Right Rack Assembly**, followed by a Magnet, a Spring Washer and a Plain Nut M8 and tighten.



5B

Add some thread locking compound to the M8 Grub Screws at the non Allen Key side and then screw them into the Rack Assemblies **leaving 35mm clear**.



5D

Then add the Bar Clamp Washer, the other MK2 Saw Guide and a Nyloc Nut M8 Flange and hand tighten.



5E

Take the **Left Rack Assembly** and add the End Bar Guard, followed by a Magnet, a Spring Washer, a Plain Nut M8 and a Nyloc Nut M8 Flange and hand tighten.



5F

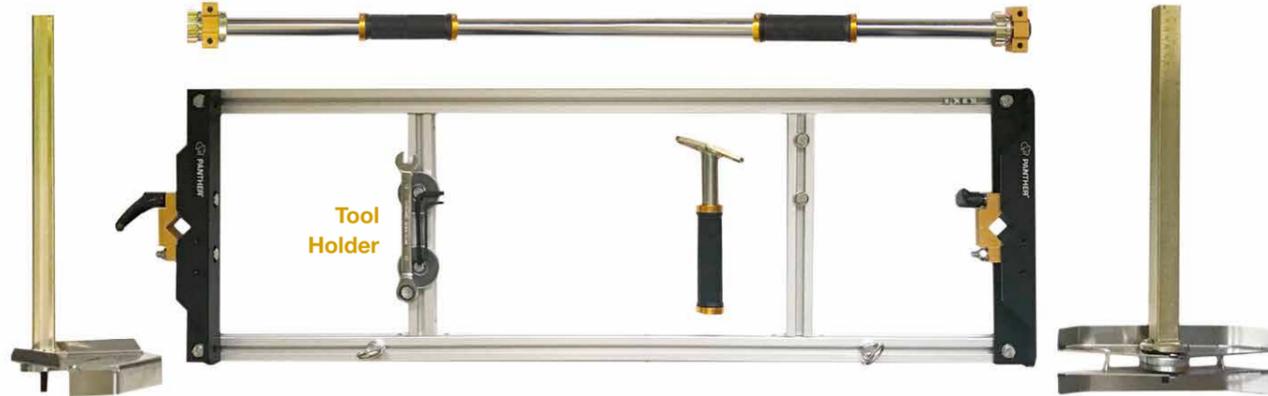
You can then fit both Square Chrome Plastic Inserts into the ends of the Rack Assemblies. You may need to trim the edges of the inserts to fit them.



## 42" STAGE 6 – ASSEMBLY OF ALL SECTIONS

6A

Lay out all assembled Stages 1 to 5 as shown below with the Tool Holder on the left with the Nose End Upright and the Engine Upright on the right

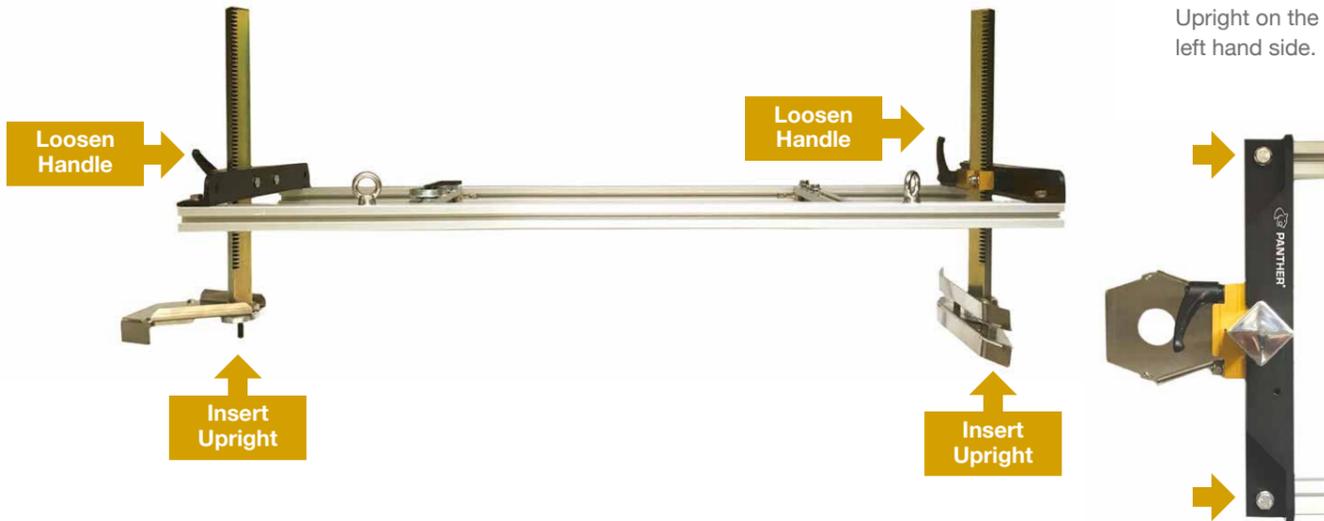


Nose End Upright  
Left Rack Assembly

Engine Upright  
Right Rack Assembly

6B

Loosen both Adjustable Handles and insert the Nose End Upright on the left and the Engine Upright on the right. You may need to loosen the bolts next to the Adjustable Handles to slide the Uprights in.



6C

Loosen the 2 x Hex Screws M8 on the Nose End Upright on the left hand side.

6D

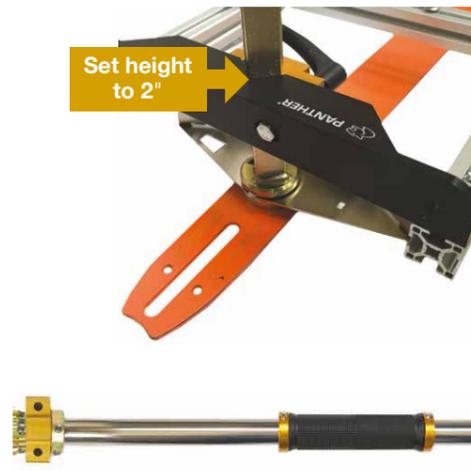
Then unscrew the 2 Nyloc Nuts M8 Flange on both Uprights and attach your guide bar as shown below. You may need to move the Nose End Upright towards the right if the guide bar you are using is smaller than the 42" GB Lo Pro Milling Bar shown.



➔ Move Nose End Upright to the right to accommodate smaller guide bars

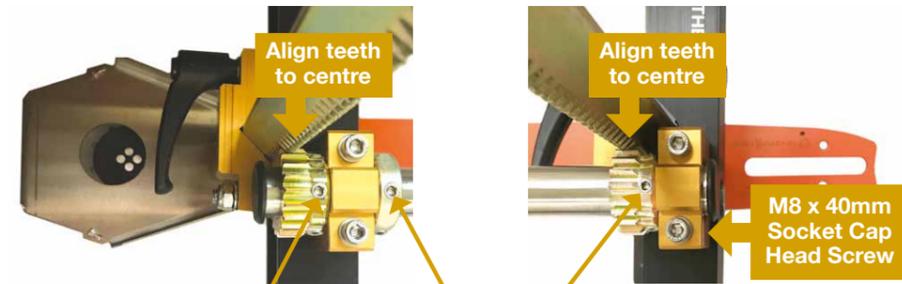
6E

Loosen the Adjustable Handles and set both Uprights to a height of 2" then tighten the Adjustable Handles.



6G

Add the Control Tube to both ends using 4 x M8 x 40mm Socket Cap Head Screws with 4 Plain Washer M8 as shown below ensuring that the teeth of the Pinions line up in the centre of the Upright grooves. You may need to loosen the grub screws to ensure that the Pinions line up.

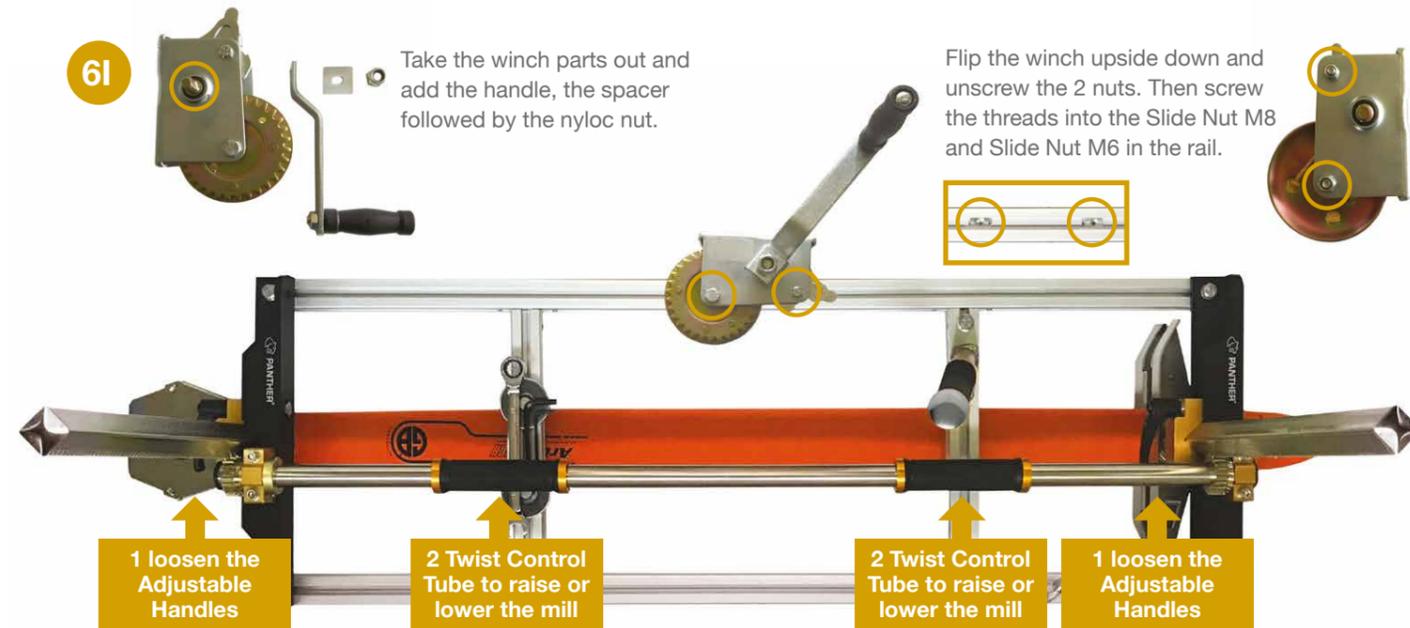


Check that both pinions are positioned correctly by looking at the position of the grub screws. If they are in the same position the bar is level.

6I

Take the winch parts out and add the handle, the spacer followed by the nyloc nut.

Flip the winch upside down and unscrew the 2 nuts. Then screw the threads into the Slide Nut M8 and Slide Nut M6 in the rail.



6J

You can now test the Control Tube by loosening the Adjustable Handles and twisting the Handle Grips to raise or lower the mill. Then check that both ends are the same height using the ruler on the Uprights. If they are different heights make any adjustments to the Uprights so that they are the same. Before using the Panther Mill please ensure that you perform a final check of all fastenings to make sure everything is safe to use.

6F

Tighten the 2 x Hex Screws M8 on the Nose End Upright on the left hand side ensuring that everything is square. Set this Upright to 2" to match the engine end.



6H

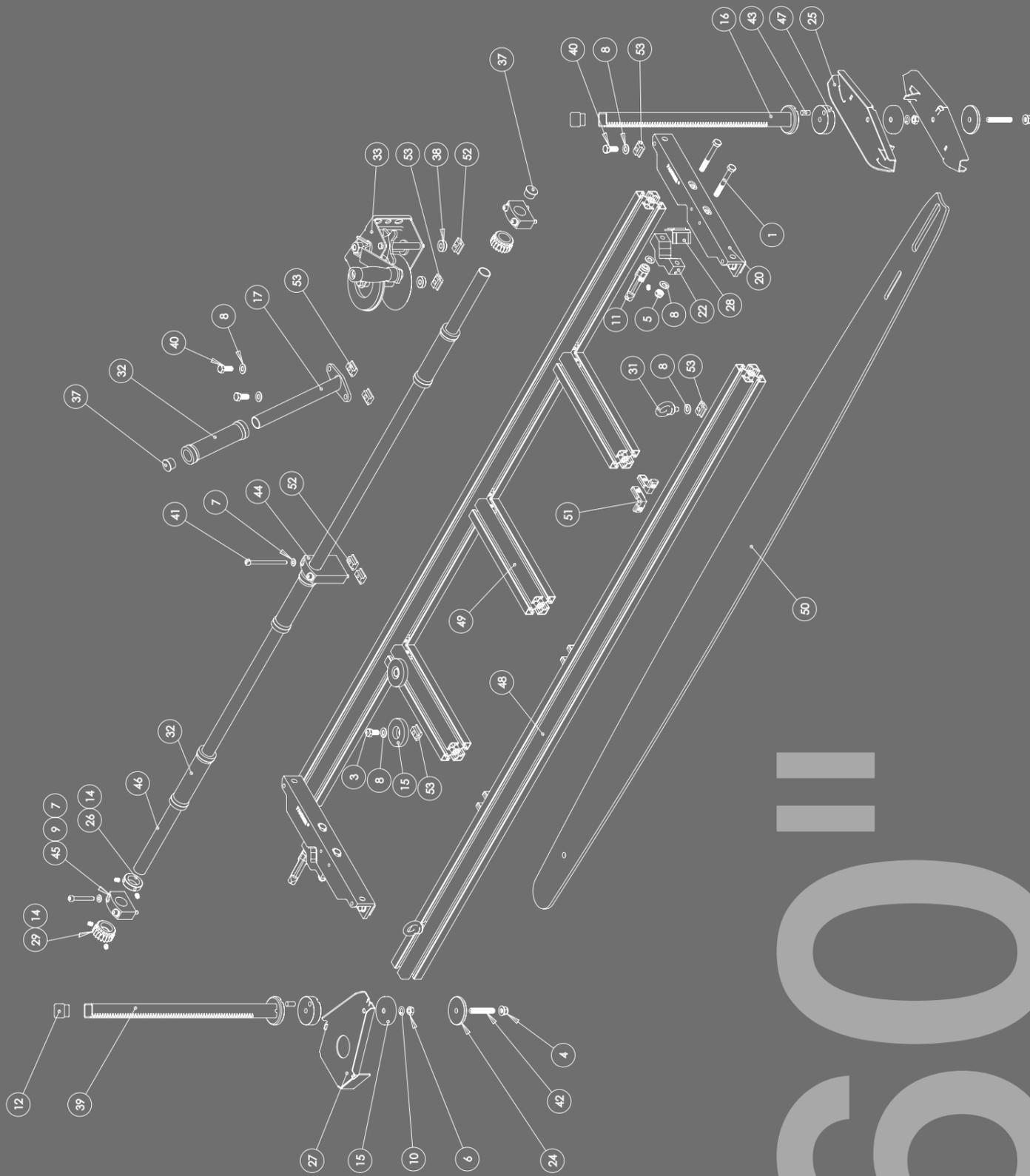
Then fit the Control Handle to the Side Rail using the 2 x Hex Screws Flanged M8.



60" PANTHER HORIZON MASTER COMPONENT LIST

ITEM NUMBER	PART NUMBER	DESCRIPTION	AMOUNT	IMAGE
1	CM001B	Hex Bolt M8 x 65mm	4	
2	CM001H	Hex Screw Flanged M8 x 12mm (2 of these are optional)	4	
4	CM002N	Nut M8 Flanged	2	
5	CM003N	Nyloc Nut M8	2	
6	CM004N	Plain Nut M8	2	
7	CM005W	Plain Washer M6	6	
8	CM006W	Plain Washer M8	8	
9	CM007S	Sock Cap Screw M8 x 40mm	4	
10	CM008W	Spring Washer M8	2	
11	3837	Adjustable Handle M8 x 16mm Female	2	
12	465343	Square Chrome Plastic Insert	2	
14	3842	Grub screw M6 x 8 Cup Point	6	
15	3844	Magnet, Flat Retaining	4	
16	CM-A02	Right Rack Assembly	1	
17	CM-A03	Push Handle WA	1	
20	CM003	Rack Mount BKT	2	
22	CM005	Rack Clamp	2	
24	CM011	Bar Clamp Washer	2	
25	CM035	MK2 Saw Guide	2	
26	CM019	Stop Boss	1	
27	CM025	End Bar Guard	1	

ITEM NUMBER	PART NUMBER	DESCRIPTION	AMOUNT	IMAGE
28	CM029	Plastic Insert	2	
29	CM031	Pinion	2	
31	CM009B	Eyebolt M8 (Optional item)	2	
32	CM009C	Handle Grip	4	
33	CM009D	Hand Winch 600lb (Optional Accessory)	1	
37	465334	Round Chrome Plastic Insert	3	
38	CM012W	Winch Eye Spacer – CM027 (Optional item – On larger mill these are used to space winch away from the frame)	2	
39	CM-02L	Left Rack Assembly	1	
40	CM003H	Hex Screw M8 x 16mm	4	
41	CM0085	Sock Cap Screw M6 x 80mm	2	
42	4507	Grubscrew M8 x 70mm Cup Point	2	
43	4518	Extension Location Peg	2	
44	CM004B	Pinion Block Extended	1	
45	CM004C	Pinion Block	2	
46	CM006B	Control Tube	1	
47	CM038	Rack Base Extension	2	
48	FCH001A	Profile Side Rail	2	
49	FCH001C	Profile Cross Brace	3	
50	FCHH5	GB Lo Pro Guidebar 64"   74"   84"	1	
51	FCH010A	Corner Bracket	12	
52	FCH0125	Slide Nut M6 for 10mm slot – This looks very similar to Item 53 but accommodates a smaller M6 screw size	3	
53	FCH0135	Slide Nut M8 for 10mm slot	11	



# 60


**1A**

Take the following parts  
 Item 49 x 3 Cross Braces  
 Item 51 x 12 Corner Brackets  
 Small Allen Key.


**1B**

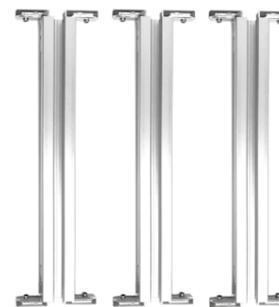
Loosen all Grub Screws  
 as shown by turning the  
 Allen Key anti clockwise


**1C**

Insert 2 Corner Brackets into  
 the Cross Brace end ensuring  
 to insert the longer ends of  
 the Corner Bracket.


**1D**

Use the other Cross  
 Brace as a guide sliding  
 the Corner Brackets into  
 the top and tightening  
 the upright Grub Screws.


**1E**

You should end up with  
 all Corner brackets  
 secured as shown.


**1F**

Take the following parts  
 Item 2 x 4 Hex Screws  
 Flanged M8 x 12mm  
 Item 15 x 2 Magnets, Flat Retaining  
 Item 53 x 4 Slide Nuts M8  
 for 10mm slot


**1G**

Insert the Slide Nuts  
 as shown opposite.


**1H**

Screw in the Hex Screw  
 Flanged M8. These can  
 be hand tightened ready  
 for the Push Handle later.


**1I**

Take the parts opposite.  
 Insert the Hex Screws through the Magnets.  
 Then insert the Slide Nuts into the Cross Brace.


**1J**

You should end up with  
 the Magnets secured as  
 shown, This section is for  
 the Tool Holder.

## 60" STAGE 2 – END BRACKETS & FRAME



Take the following parts  
 Item 1 x 4 Hex Bolt M8 x 65mm  
 Item 5 x 2 Nyloc Nuts M8  
 Item 8 x 4 Plain Washer M8  
 Item 11 x 2 Adjustable Handles M8 x 16mm Female  
 Item 20 x 2 Rack Mount BKT  
 Item 22 x 2 Rack Clamps  
 Item 28 x 2 Plastic Inserts

Grooved side  
 Plastic Insert



Insert the 2 Hex Bolt M8 into the back of the Rack Mount BKT and insert the Plastic Insert as shown above with the grooved side of the Plastic Insert facing down.



Fit Adjustable Handle on logo side

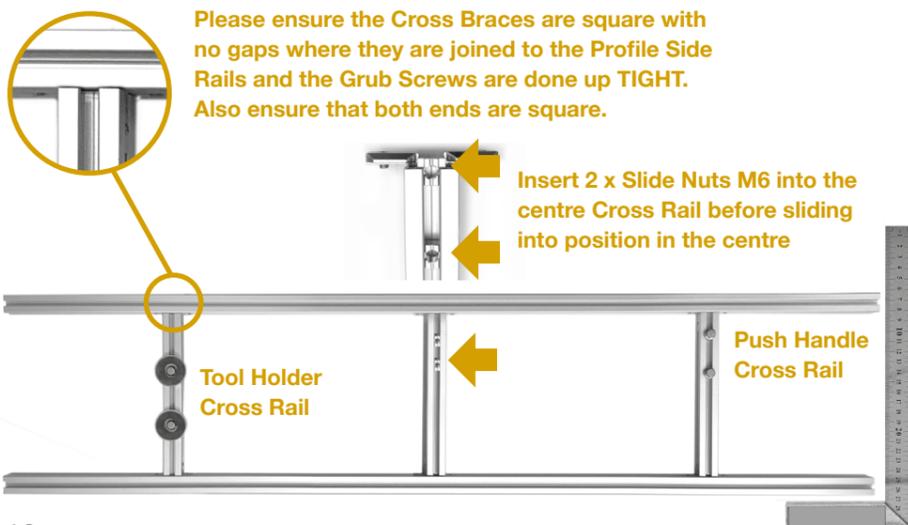
Slide on the Rack Clamp, then the 2 x Plain Washer M8. Then add the Adjustable Handle on the same side as the Panther logo and the Nyloc Nut M8 on the opposite side. Do not fully tighten the nut you can do this later. Repeat this step so you have x 2 assembled Rack Mounts.



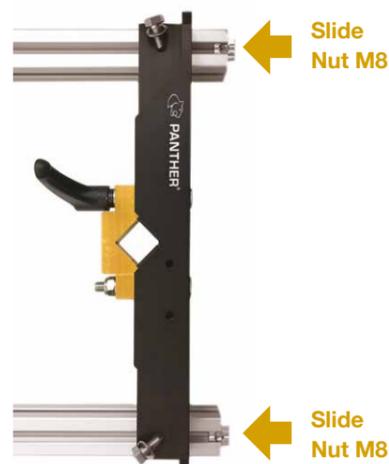
Slide Nut M6

Take the following parts  
 Item 8 x 4 Plain Washers M8  
 Item 31 x 2 Eyebolts M8 SS  
 Item 38 x 2 Winch Eye Spacers – CM027  
 Item 40 Hex Screw M8 x 16  
 Item 48 x 2 Profile Side Rails  
 Item 52 x 3 Slide Nuts M6 for 10mm slot  
 Item 53 x 7 Slide Nuts M8 for 10mm slot

2E Take the Cross Rail with the 2 nuts for the Push Handle and slide them onto the Profile Side Rails on the right. Then insert 2 Slide Nuts M6 into the middle Cross Rail before sliding it into the middle. Then take the Tool Holder Cross Rail and slide it on the left. Make sure both ends are square.



2F Insert 2 Slide Nuts M8 into the right hand side near the Push Handle side, place the Rack Mount on top and then screw in a Hex Screws M8 with a Plain Washers M8.



Slide Nut M8

Slide Nut M8



2G

Slide Nut M6

On the left hand side near the Tool Holder Insert 3 Slide Nuts M8 into the bottom left. On the top left slide 1 Slide Nut M6, then 2 Slide Nuts M8.

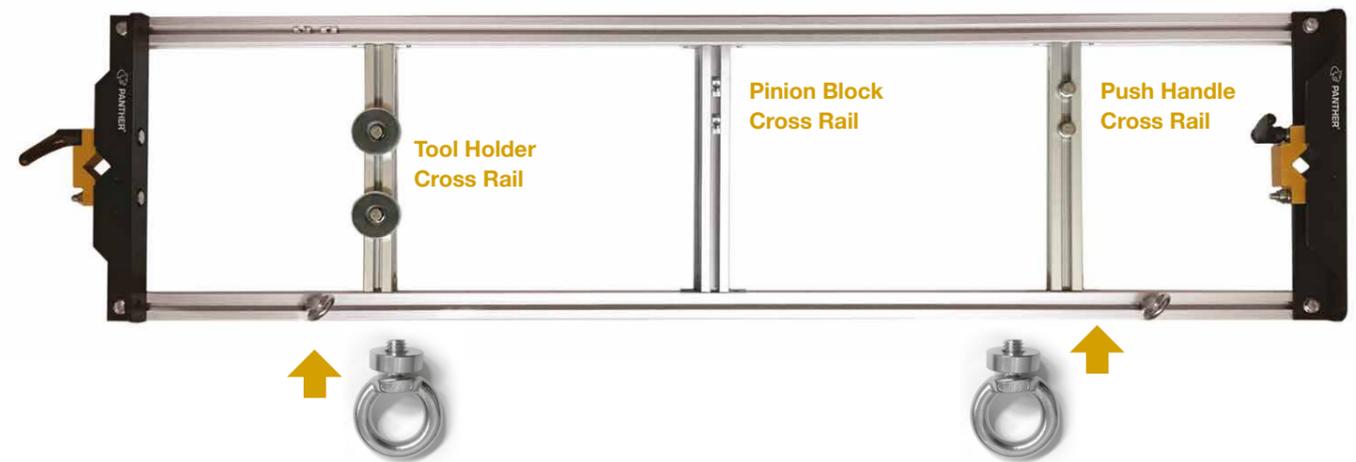


2H

Slide Nut M6

Then add the Rack Mount using the Hex Screws M8 with Plain Washers M8 as before with handle facing outwards as shown opposite

2I Now take the 2 x Eyebolts and the Winch Eye Spacers and screw them to the top rail into the 2 Slide Nuts M8 spaced as per below. You can always fine tune when the mill is finally assembled. You should end up with the below assembly.



## 60" STAGE 3 – CONTROL HANDLE



3A

Take the following parts  
 Item 17 x 1 Push Handle WA  
 Item 32 x 1 Handle Grip  
 Item 37 x 1 Round Chrome Plastic Insert



3B

Slide the Handle Grip onto the Push Handle and insert the Round Chrome Plastic Insert into the end. Fully tighten the Grub Screws and you can have them facing as shown opposite for easy access.

## 60" STAGE 4 – CONTROL TUBE



- 4A** Take the following parts
- Item 7 x 6 Plain Washers M6
  - Item 9 x 6 Sock Cap Screw M6 x 45mm
  - Item 26 x 1 Stop Boss
  - Item 29 x 2 Pinions
  - Item 32 x 2 Handle Grips
  - Item 37 x 2 Round Chrome Plastic Inserts
  - Item 41 x 2 Sock Cap Screw M6 x 80mm
  - Item 44 x 1 Pinion Block Extended
  - Item 45 x 2 Pinion Blocks
  - Item 46 x 1 Control Tube



### 4B



Slide the following parts onto the Control Tube on the left hand end in the following order, loosening the Grub Screws before sliding each item on.

- Item 21 x 1 Stop Boss
  - Item 45 x 1 Pinion Block
  - Item 29 x 1 Pinion – **check direction matches picture**
- Ensure that all Grub Screws are facing upwards and tighten**

### 4C

Loosen the Grub Screws on the 3 Handle Grips. Add the first Handle Grip, then add the Pinion Block Extended (the larger Pinion Block), then add the last 2 Handle Grips sliding them onto the Control Tube. Tighten the Grub Screws ensuring they are facing the same direction as the Grub Screws in Task 4B.

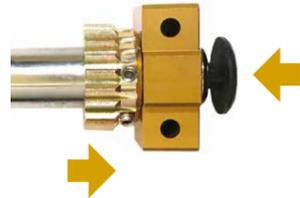


**Add the Pinion Block Extended (the larger Pinion Block) after the first Handle Grip**

### 4D

Slide the following parts onto the right side of the Control Tube in the following order.

- Item 45 x 1 Pinion Block
- Item 29 x 1 Pinions – **check direction matches picture**



**Ensure that all Grub Screws are facing upwards and tighten**

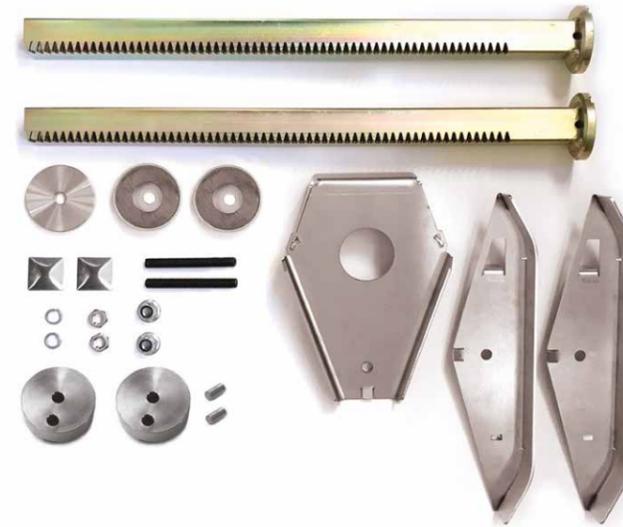
You can also fit the Round Chrome Plastic Insert.

### 4E

You should now have the completed assembly below with all Grub Screws pointed upwards for easy adjustment.



## 60" STAGE 5 – UPRIGHTS



- 5A** Take the following parts
- Item 4 x 2 Nyloc Nuts M8 Flange
  - Item 6 x 2 Plain Nuts M8
  - Item 10 x 2 Spring Washers M8
  - Item 12 x 2 Square Chrome Plastic Inserts
  - Item 15 x 2 Magnets, Flat Retaining
  - Item 16 x 2 Rack Assemblies
  - Item 24 x 1 Bar Clamp Washer
  - Item 25 x 2 MK2 Saw Guides
  - Item 27 x 1 End Bar Guard
  - Item 42 x 2 Grubscrew M8 x 70mm Cup Points
  - Item 43 x 2 Extension Location Pegs
  - Item 47 x 2 Rack Base Extensions

### 5B

Add some thread locking compound to the M8 Grub Screws at the non Allen Key side and then screw them into the Rack Assemblies **leaving 55mm clear.**



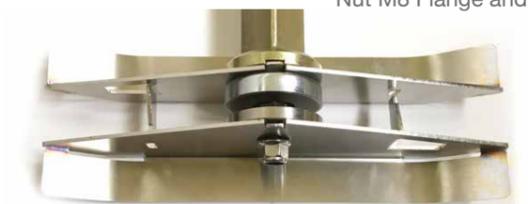
### 5D

Insert a Rack Base Extension ensuring that it fits into the groove in the Rack Assembly followed by a MK2 Saw Guide, a Magnet, a Spring Washer and a Plain Nut M8 and tighten.



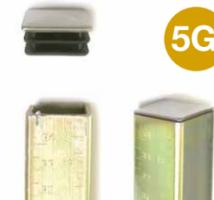
### 5E

Then add the Bar Clamp Washer, the other MK2 Saw Guide and a Nyloc Nut M8 Flange and hand tighten.



### 5G

You can then fit both Square Chrome Plastic Inserts into the ends of the Rack Assemblies. You may need to trim the edges of the inserts to fit them.



### 5C

Take the Extension Location Pegs and insert them into the top of the Rack Base Extensions as shown.



### 5F

Take the remaining Rack Assembly and add the Rack Base Extension followed by the End Bar Guard, a Magnet, a Spring Washer, a Plain Nut M8 and a Nyloc Nut M8 Flange and hand tighten.



6A

Lay out all assembled Stages 1 to 5 as shown below with the Tool Holder on the left with the Nose End Upright and the Engine Upright on the right



Nose End Upright

Engine Upright

6B

Loosen both Adjustable Handles and insert the Nose End Upright on the left and the Engine Upright on the right. You may need to loosen the bolts next to the Adjustable Handles to slide the Uprights in.



6C

Loosen the 2 x Hex Screws M8 on the Nose End Upright on the left hand side.



6D

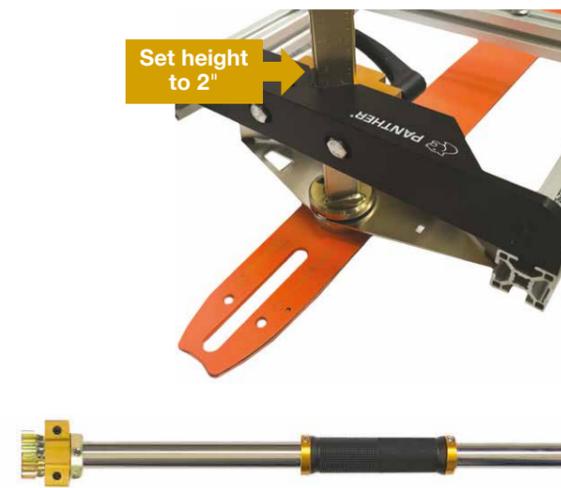
Then unscrew the 2 Nyloc Nuts M8 Flange on both Uprights and attach your guide bar as shown below. You may need to move the Nose End Upright towards the right if the guide bar you are using is smaller than the 64" GB Lo Pro Milling Bar shown.



➔ Move Nose End Upright to the right to accommodate smaller guide bars

6E

Loosen the Adjustable Handles and set both Uprights to a height of 2" then tighten the Adjustable Handles.



6F

Tighten the 2 x Hex Screws M8 on the Nose End Upright on the left hand side ensuring that everything is square. Set this Upright to 2" to match the engine end.

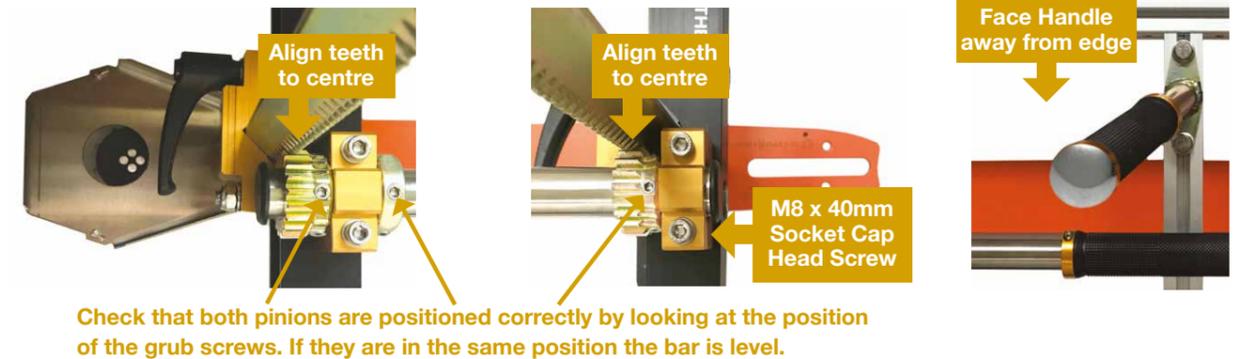


6G

Add the Control Tube to both ends using 4 x M8 x 40mm Socket Cap Head Screws with 4 Plain Washer M8 as shown below ensuring that the teeth of the Pinions line up in the centre of the Upright grooves. You may need to loosen the grub screws to ensure that the Pinions line up.

6H

Then fit the Control Handle to the Side Rail using the 2 x Hex Screws Flanged M8.

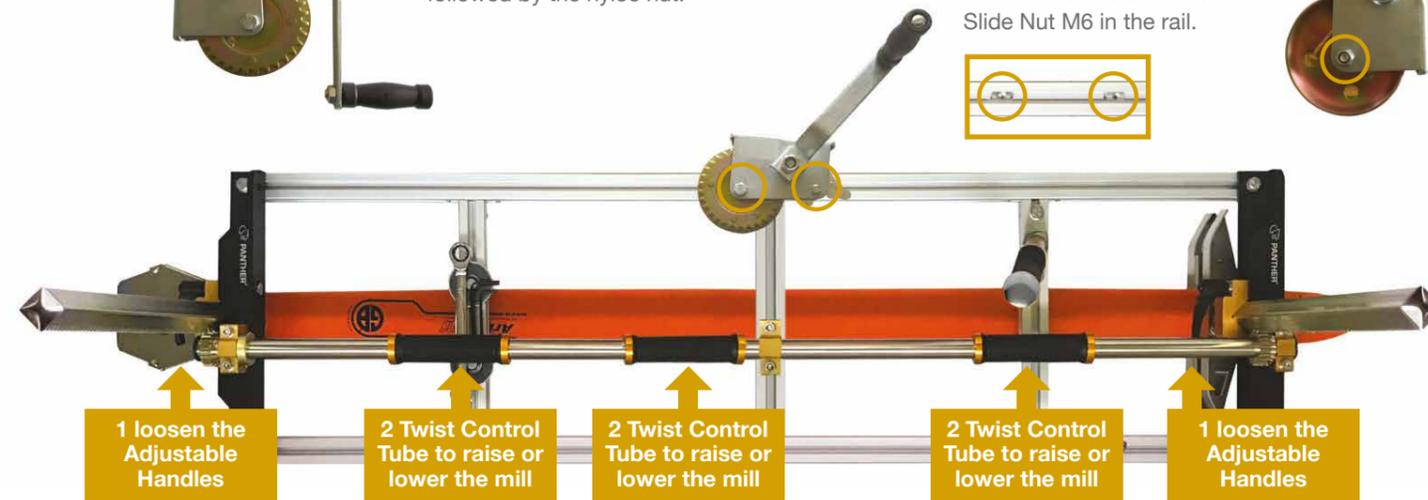


Check that both pinions are positioned correctly by looking at the position of the grub screws. If they are in the same position the bar is level.

6I

Take the winch parts out and add the handle, the spacer followed by the nyloc nut.

Flip the winch upside down and unscrew the 2 nuts. Then screw the threads into Slide Nut M8 and Slide Nut M6 in the rail.



6I

You can now test the Control Tube by loosening the Adjustable Handles and twisting the Handle Grips to raise or lower the mill. Then check that both ends are the same height using the ruler on the Uprights. If they are different heights make any adjustments to the Uprights so that they are the same. Before using the Panther Mill please ensure that you perform a final check of all fastenings to make sure everything is safe to use.



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