

**MEFE**  
MITCHELL ENGINEERING  
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# Operation Manual



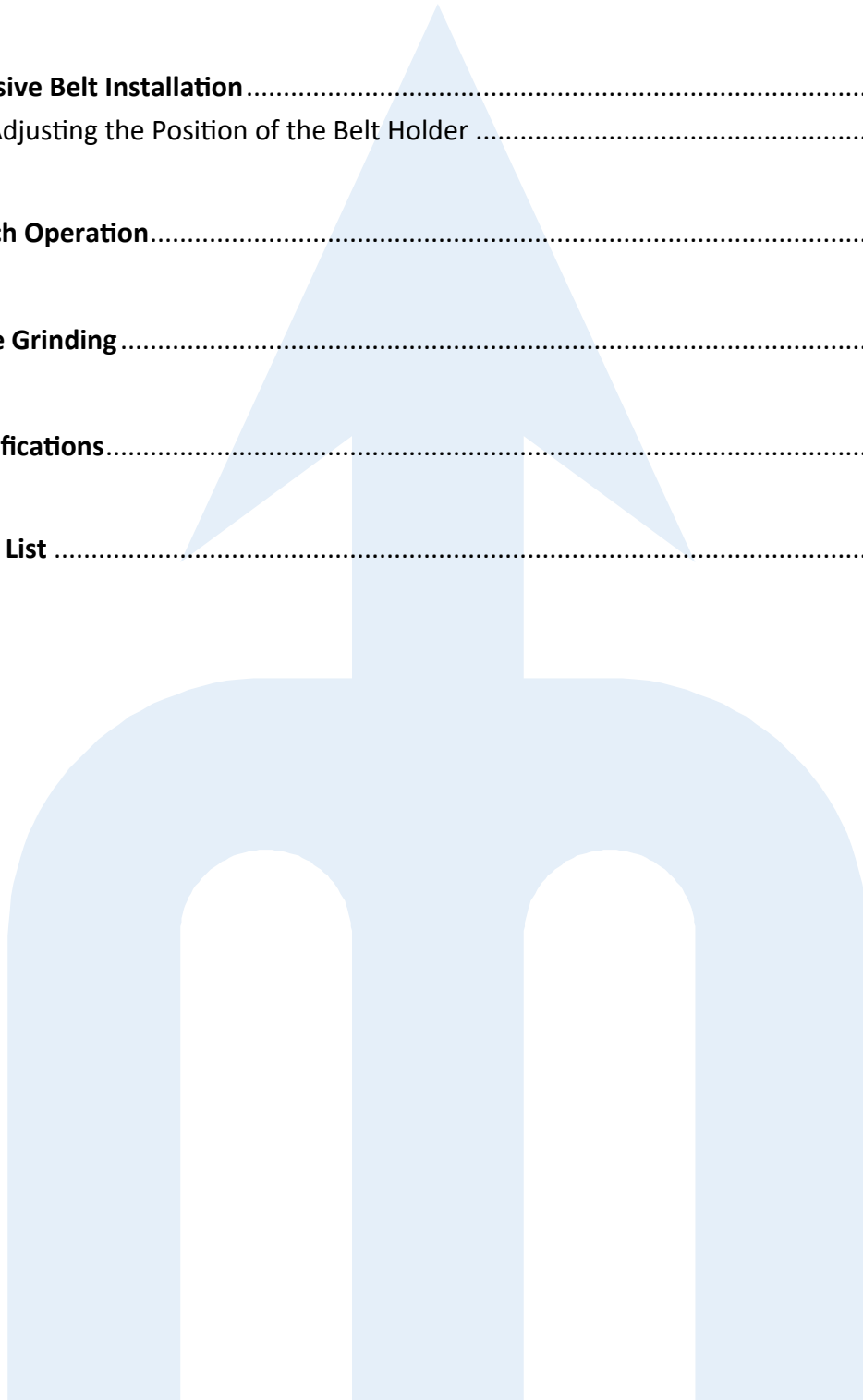
## Power Belt Knife Sharpener

CAT 139 300

Revision 3

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## 1. About the Power Belt Knife Sharpener

The Power Belt Knife Sharpener is designed to sharpen every knife you own, quickly and easily. The Power Belt Knife Sharpener uses a fully adjustable precision sharpening guide (15° to 30°), heavy-duty variable speed motor, and premium ¾ x 12" flexible abrasive belts to sharpen pocket knives, hunting knives, kitchen knives, fishing knives and virtually any other shape or type of blade – even scissors, shears and yard tools. It's fast, easy, and delivers consistent results.

### 1.2 Before Use

This manual has been established for secure handling of your Power Belt Knife Sharpener. Before starting to operate the Power Belt Knife Sharpener, please read this manual carefully. The safety instructions contained within must be observed at all times. Always keep a copy of this manual within close reach of the item.

A new user is advised to firstly choose a wider angle (more than 25 degrees) to better know the strength of grinding (no need to press the abrasive belt, just touch it). It should also be noted that the direction of grinding on both sides of the belt is different and the blade should be ground close to the outer edge of the V-groove.

You need to make sure that the blade stays the same height throughout sharpening, especially along the side that rotates downwards.

Do not use the sharpener for more than 20 minutes each time as it is mainly used for restoration of sharp cutting tools. Make sure to clean after each use.

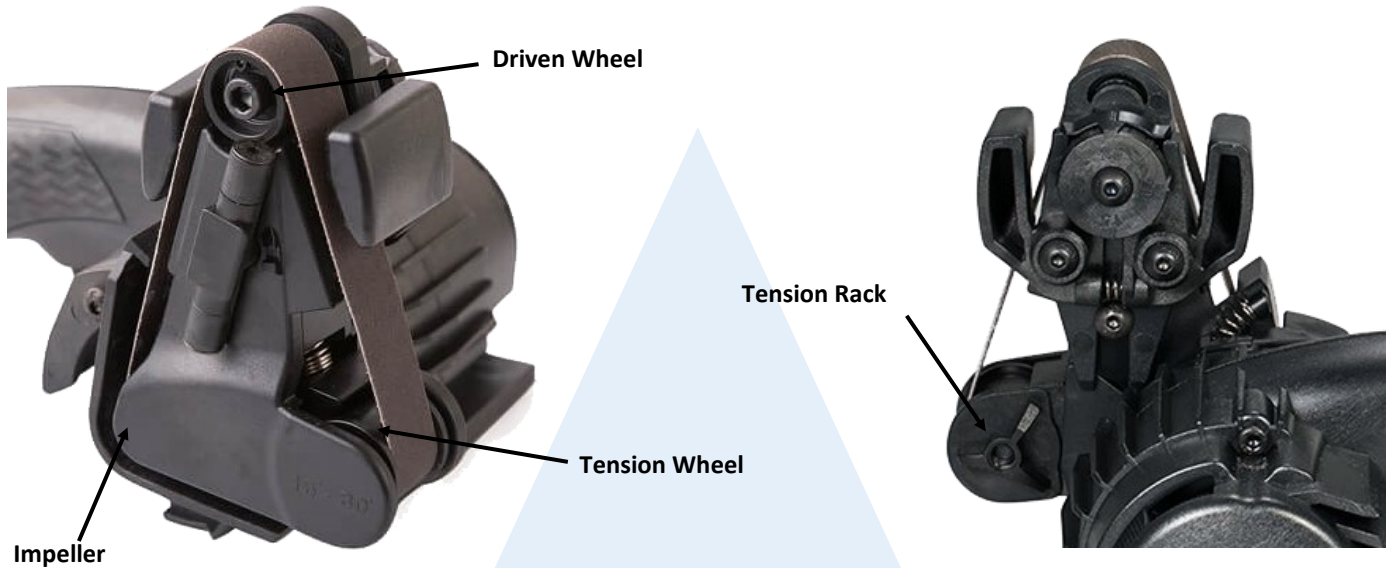
### 1.3 Liability and Warranty

All specifications and instructions for operation and maintenance of the Power Belt Knife Sharpener are made to the best of our knowledge taking into account our expertise and experiences so far. The manufacturer will accept no liability for any damages caused by not following the instructions of this manual.



## 2. Abrasive Belt Installation

Firstly put the abrasive belt over the tension wheel and the impeller, then push the tension rack towards the driven wheel and slip the belt over the driven wheel. Then fine tune the position of the belt over the three wheels.



### 2.1 Adjusting the Position of the Belt Holder

Place the Sharpener on a solid surface then press and hold the spring positioning pin and turn the Belt Holder to the angle that is desired. Release the positioning pin and slot the Belt Holder into position.

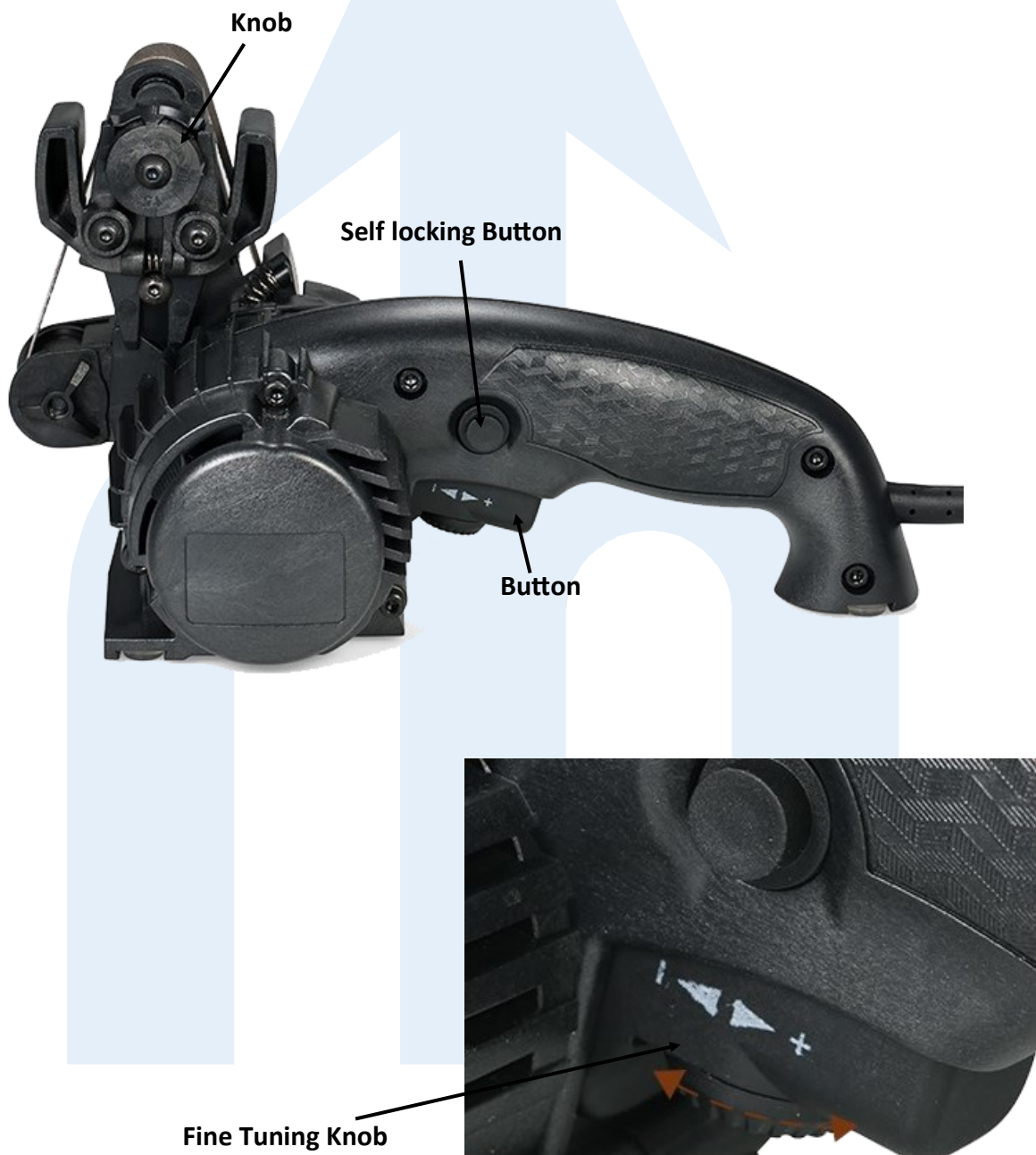


### 3. Switch Operation

The switch has multiple functions, which consists of three parts: the button, the fine tuning knob, and the self locking button.

The switch has two operating modes:

- 1) Variable speed mode: turn the fine tuning knob towards the “+” all the way to the end. Press the button gently to start off slow then push the button all the way in to go to fast, then press the self locking button. To release the self locking button, press the button again.
- 2) Fine tuning speed mode: speed up and speed reduction can be done by turning the fine tuning knob towards the “+” and the “-”. The self locking button must be pressed in.



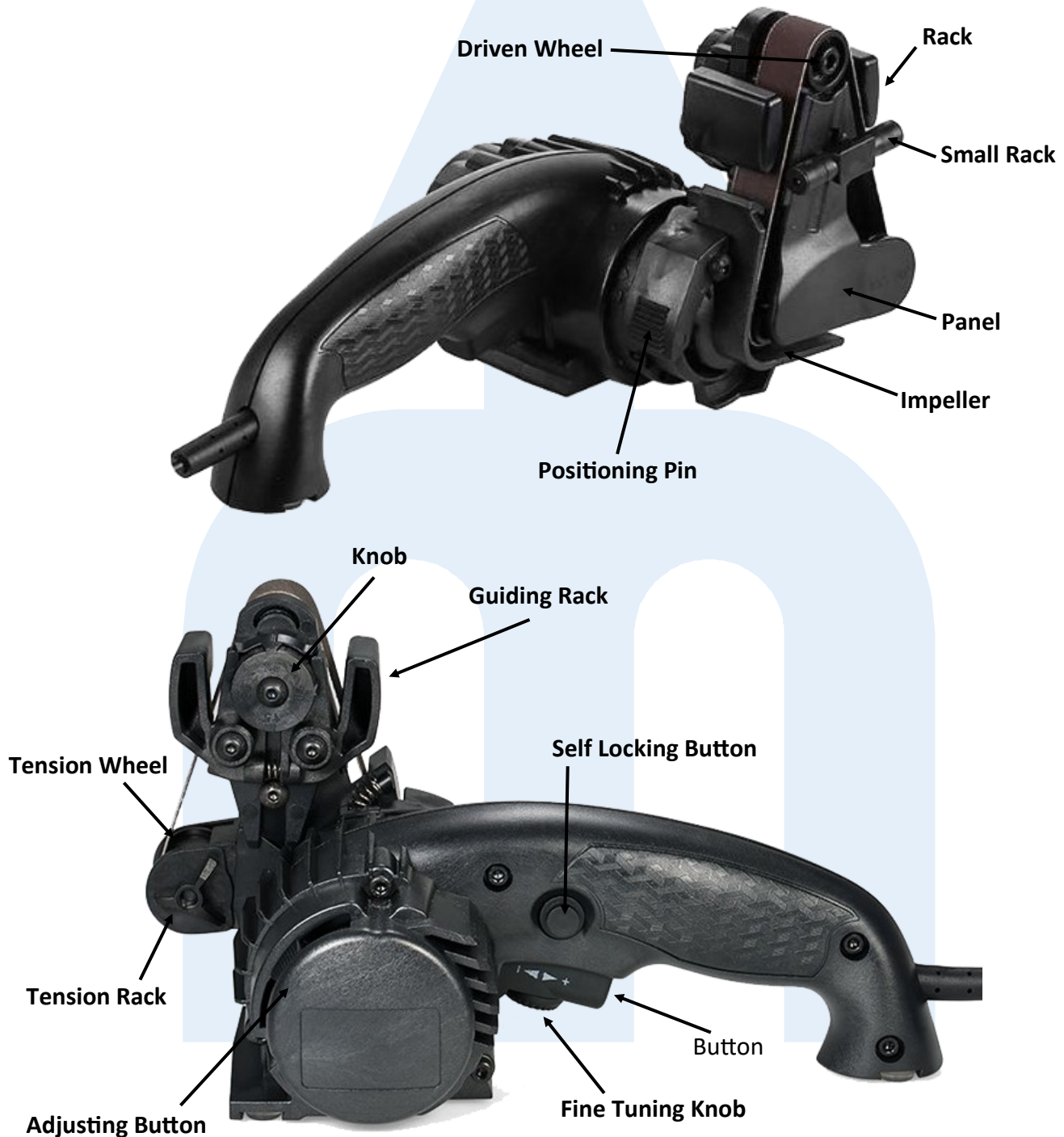
#### 4. Blade Grinding

Adjust the angle of the knob from about 15 degrees to 30 degrees and then install proper abrasive belts. Usually a lower grit belt should be used first to grind out the edges and then a higher grit should be used for grinding and polishing to ensure the sharpness of the blade.

After the belt is installed, put the knife inside either V-groove between the left and right guiding racks, and then push and pull the knife, sharpen from the base of the blade to the tip of the blade and keep close to the outer edge of the racks (use only the knife's own strength without adding too much force outwards or downwards).

To use or put away the small rack, gently pull and twist it sideways.

Generally speaking, a low to medium speed may be enough for the grinding of outdoor or daily knives. Repeatedly push and pull the knife, and be careful to keep the tip of the blade away from the belt as to not round it off. Turn off the rotating abrasive belt as soon as you have finished sharpening.



## 5. Specifications

<b>Weight</b>	1.36 kg
<b>Dimensions</b>	260 x 152 x 135mm
<b>Colour</b>	Black
<b>Style</b>	Regular Knife and Tool Sharpener
<b>Number of Handles</b>	1
<b>Motor</b>	110VAC / 1.5 AMP 200V / 1.8 AMP
<b>Power Switch</b>	Variable Speed: On / Off / Momentary
<b>Duty Cycle</b>	1 hour continuous
<b>Abrasives Included</b>	A180, A320, A600, A1000
<b>Abrasive Size</b>	3/4" x 12"
<b>Sharpening Guides</b>	Adjustable, 15°–30°
<b>Attachments</b>	Tool grinding attachment and blade grinding attachment

## 6. Spare Parts List

Part Number	Description
139 300A180	180 Grit Abrasive Belt
139 300A320	320 Grit Abrasive Belt
139 300A600	600 Grit Abrasive Belt
139 300A1000	1000 Grit Abrasive Belt

