



Electric Masonry Saw Bench Operator's Manual STM450-700

FOR YOUR SAFETY
READ AND UNDERSTAND THE ENTIRE MANUAL
BEFORE OPERATING THIS MACHINE



1. Attention

Know your power tools, for your safety read following instruction manual before operation saw.

1.1 before switch on the machine



1.11 Read the manual carefully to learn the tools applications and limitations as well as the specific to avoid potential hazards

1.12 This is electrical cutting machine, pls make sure keep children and visitors far away before operation

1.13 Keep work area clean. Clutter areas and benches invite injuries.

1.14 Consider work area environment. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Don't use tools in presence of flammable liquids or gases.

1.15 Guard against electric shock, prevent body contact with grounded surfaces. For example pipes, radiators enclosures.

1.16 Use right tool. Don't force small tools or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended.

1.17 Don't use any cutting tool other than a diamond wheel

1.18 Making sure switch in "OFF" position before plugging in cord

1.19 Prior to use, be sure to check the diamond wheel in such detail as crack, broken part, bent part and the like. Don't use a diamond wheel if any of the above defect is found with the wheel. Also confirm that no abnormality exists by actual test running.

1.20 Maintain tools with care. Keep tools sharp and clean for best and safety performance. Follow instructions for lubricating and changing accessories.

1.21. Be sure to taken an earth leakage circuit breaker or isolating transformer as electric shock-preventive measures.

1.22 Don't use it four cutting of the materials or curve cutting. For doing so, diamond wheel may be broken or its service life may be remarkable reduce.

1.23 Don't wipe plastic parts with solvent. Solvent such as gasoline, thinner carbon and oil containing chlorine annex may damage and crack plastic parts. Do not wipe them with such solvent. Wipe plastic parts with soft cloth lightly dampened with soapy water.

1.24 Do as following protection pls



A Wear eye protection, the cutting may bring chippings , to protect your eyes , pls wear the eye protection



B the cutting may bring dust, to protect your nose and your mouth out of dust, pls wear respirator before operation



C this is powerful machine, while cutting , it may bring noise , to protect your ear and mind out of noise , pls wear the ear protection



D wear glove before operation, Do not perform any operation freehand



E while cutting , pls Keep hands out of line of cut blade, it's sharp and will bring hurt to hand



F water cooling will help with better cutting performance and greatly reduce the dust and chipping , so, pls remember to use and keep the water while cutting

1.24 Put the workplace on the portable-table and rest against the slide rack closely. then cutting it.

1.25 Use clamps or a vise to hold work piece .It is safer than using your hands and free both hands to operate tools.

2 switch on the machine

2.11 Proceed with cutting operation when full speed has been reached.

2.12 While cutting, the guards should not be disassembled to secure work safety and stable.

2.13 Never touch diamond wheel while operating.

2.14 Don't force tool .It will work efficiently and safely under its designed work condition.

2.15 Should the diamond wheel stop or make an abnormal noise while operating, promptly cut Off the switch.

2.16 Disconnect tools Before servicing and when changing accessories , such as blades , bits , cutters.

3. while reuse

3.11 Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensures that it will operate properly and perform its intended function-check for alignment of moving parts, binding of moving parts, break age of parts, mounting, and any other conditions that many affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

3.12 Use your tool at lower input than specified on the nameplate , otherwise, the accuracy may be spoiled and working efficiency, reduced due to motor overload.

4 Consult an authorized service agent in the event of power tools failure.

2. Maintenance.

A Inspecting the diamond wheel:since use of dull diamond wheel cause motor manufacture and degraded efficiently replace with a new one without delay when abrasion is noted.

B Inspecting the mounting screws: regularly inspect all mounting screws and ensure that they are properly tight. Should any of the screws loose, retighten them immediately. Failure to do so could result in serious hazard.

Maintenance of the motor: the motor unit winding is the most important part of this power tool. Check it carefully to ensure the winding does not become damaged and/or wet with oil or water. Clean the whole set regularly.

3. Specification

Rated power	2.2KW
Rated voltage(By areas)	240v
Frequency(by areas)	50Hz
Current consumption	9A
Protection class	IP54
No-load speed of revolution	2800rpm
Max.cutting depth	150mm
Max. cutting length	700mm
Variable angle of tilt	0-45 ⁰
Watertank capacity	37.8liter
Sound pressure level LPA	72dB(A)—no load
Sound power level LWA	85dB(A)—no load
Weight	85kgs
Table dimension	530x430mm
Overall dimension	1240x550x1290mm

4. Accessories

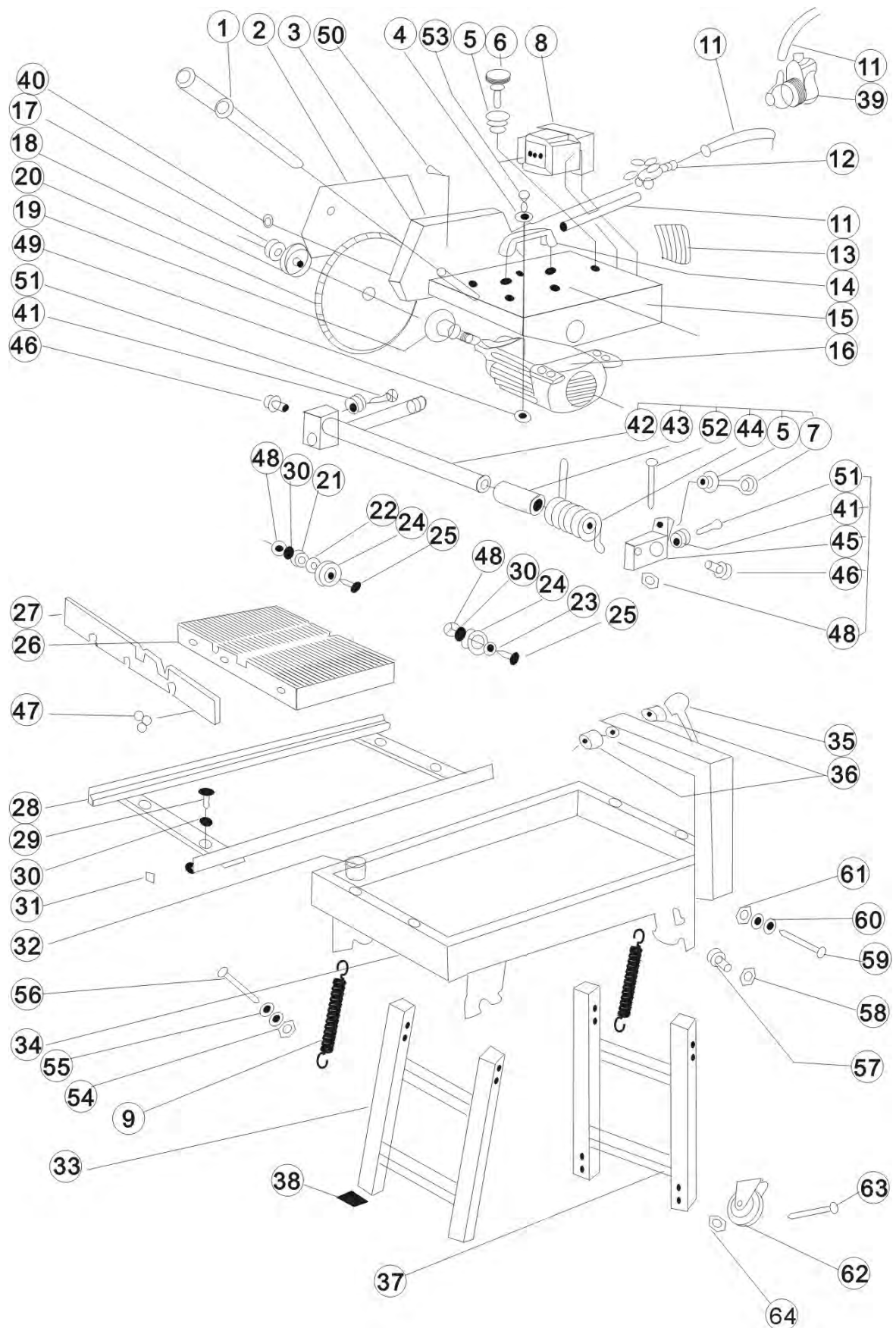
Optional Accessories(sold separately)

	Specification		
Type of diamond wheel	Ext.Diam.(mm)	Int.Diam.(mm)	Thickness.(mm)
A(dry)	350	25.4	3
B(wet)	350	25.4	3

5. Application

- 5.1 Cut any kind of stones and tiles for decoration.
- 5.2 Blade can tilt any angle between 00~450.
- 5.3 The angle ruler on the table can turn any angle between 00~900.
- 5.4 In the process of cutting, the pump can provide blade with water. This can increase the life of blade and also decrease dust.
- 5.5 Put the material on the table, Adjust the parallel guide 15 perpendicular to the incise track saw blade,then tighten the screw at the end. Fix the ruler parts on the suitable place of
- 5.6 User can change components himself, such as blade, rubber tube ect.

6.The component of the whole machine



Picture 1

Item No.	Description	Quantity	Item No.	Description	Quantity
1	Hand Lever	1	33	Front leg	1
2	Upper fender	1	34	Gutter	4
3	Down fender	1	35	Lock hand lever	1
4	Ø8mm washer	4	36	Bush	1
5	Nut M8	2	37	Back leg	1
6	Bolt M8x100	1	38	Rubber cushion B	4
7	Bolt M8x60	1	39	Water pump	4
8	Switch	1	40	Nut M6	1
9	Spring	2	41	Deflective Nut	4
10	Electric wire	1	42	Revolving shaft	2
11	Tube	1	43	Spring bush	1
12	Penstock	1	44	Spring	1
13	Water fender	1	45	Revolving block	1
14	Handgrip	1	46	Bolt M12x25	1
15	Motor bracket	1	47	Papilionaceous bolt	2
16	Motor 2kw	1	48	Nut M8	3
17	Nut(Left)M20	1	49	Locknut	4
18	Outer flange	1	50	Brazed joining	4
19	Inner flange	1	51	Inner hex bolt M8x25	2
20	Blade Ø350mm	1	52	Inner hex bolt M8x50	1
21	Bearing	4	53	Bolt M8x45	1
22	Thick washer	4	54	Locknut M8	4
23	Thin washer	4	55	Ø8mm washer	4
24	Idler wheel	4	56	Bolt M8x50	4
25	Deflective bolt	4	57	Bolt M8x12	4
26	Table	1	58	Nut M8	4
27	Table side	1	59	Bolt M10x60	4
28	Guider of table	1	60	Ø10mm washer	8
29	Bolt M8x25	4	61	Locknut M10	4
30	Flat washer Ø8mm	4	62	Wheel	2
31	Rubber cushion A	4	63	Bolt M6x50	4
32	Stopper	1	64	Nut M6	4

7.Example



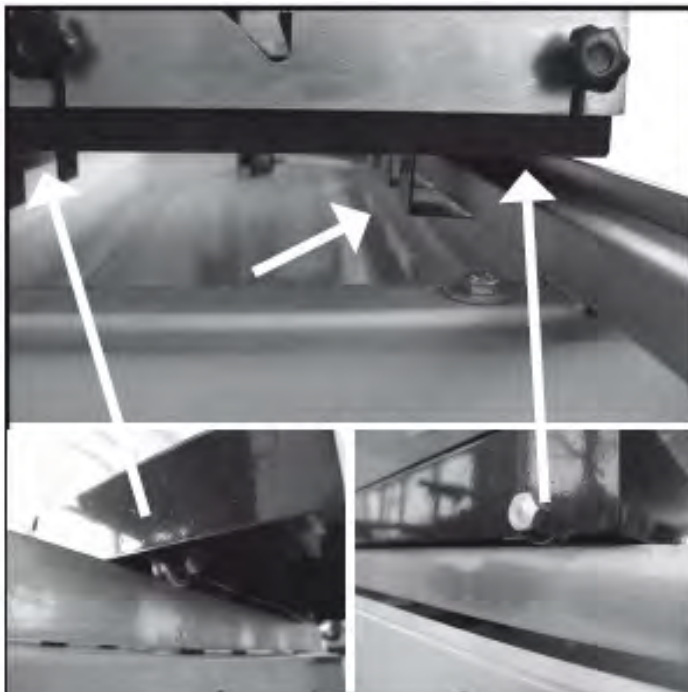
Picture 2



picture 3

---For 45 degree cutting

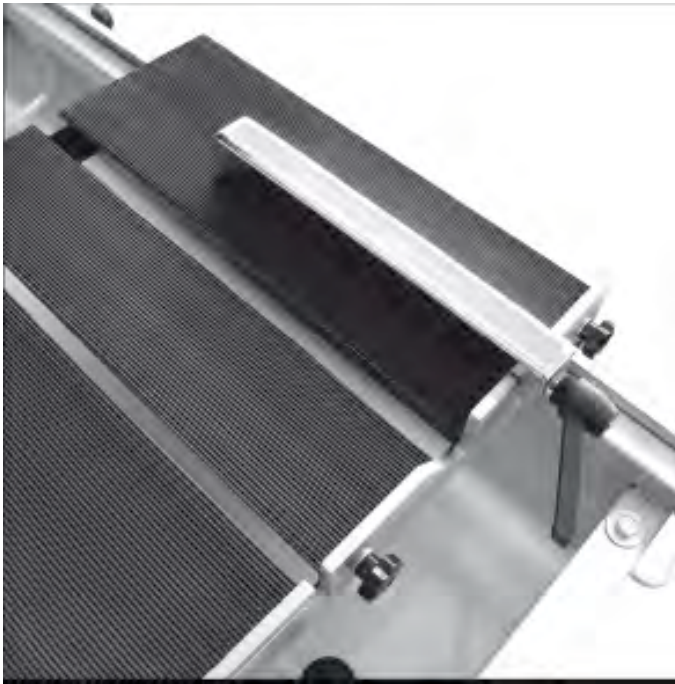
While angle cutting,first loosen the screw like picture 2, and then adjust motor to maximum to 45 degree (picture 3),pls make sure and tighten the screw before switch on



picture 4

-----Adjust the work table

There are 4 location blocks used to limit of the move area of work table,pls make sure that the work table is correctly put on the machine,wrong install may lead to tough movement and drop down of the work table while moving.



Picture 5

-----Block cutting

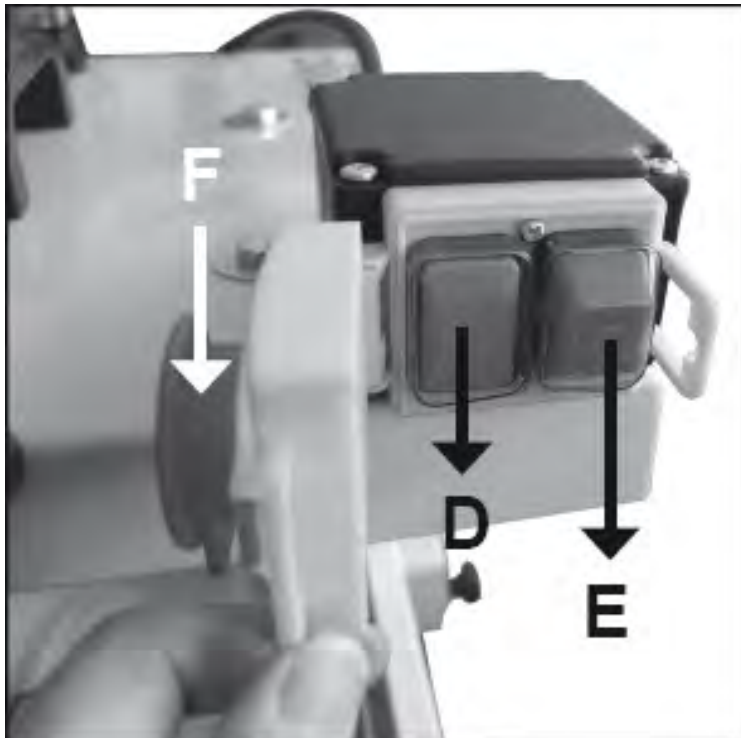
Use this location bar , first loosen the end screw , adjust it to the desirable location and then tighten the end screw , move the work table for cutting



Picture 6

-----water pump

Fix the water pump at this location

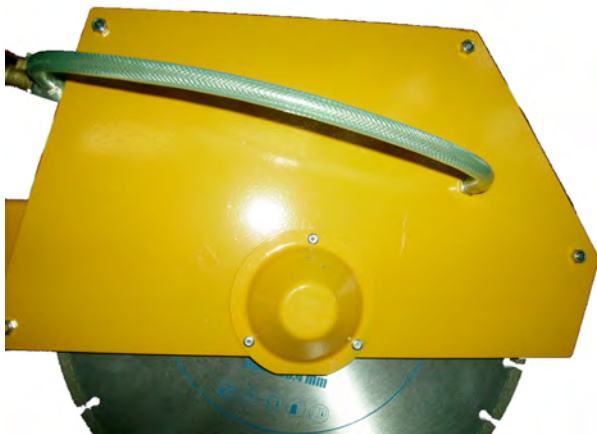


Picture 7 (need to be changed)

-----Switch

D in green is the switch on

E in red is the switch off



Picture 8

----- Change the cutting disc

Switch off first and wait till no rolling , screw off the 4 screw from picture 8, use the accessories spanner matched with the machine, put the screw driver through the mid hole, and release the screw, like picture9



Picture 9



Picture 10 – 1



Picture 10 – 2



Picture 10 – 3

-----fold up the stander



Picture 10 – 4

Fold up the stand like picture 10– 2, the effect like picture 10-3,do another stand same way, the last effect like picture 10-4.

The whole machine are manufactured according to CE,GS standard.It has passed CE,GS test.The following are CE number:

EN 12418:2000, EN ISO 12100-2:2003
 EN 55014-1/A2:2002, EN 55014-2/A1:2001
 EN 6100-3-2/A2:2005, EN 61000-3-11:2000