

# *EJ-16*



***EXTREMA MACHINERY COMPANY, INC.***

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## **GENERAL SAFETY RULES**

There is a certain amount of hazard involved with the use of woodworking machinery. Using the machine with the respect and caution demanded as far as safety precautions are concerned will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, severe personal injury to the operator can occur.

1. Read the operation manual before operating this machine.
2. If you are not thoroughly familiar with the machine operation, obtain advice from a supervisor or other qualified person.
3. The machine should be disconnected from the power source before performing maintenance or adjustments to the internal mechanisms, or when making repairs.
4. After maintenance job is finished, check to see if there are any tools or objects left on the machine. Close all safety guards.
5. Before leaving the machine, make sure the work area is clean.
6. Check timber for loose knots, nails, or other items, which may cause a hazard or affect the machine's performance.
7. Learn the machine's applications and limitations, as well as the specific potential hazards peculiar to it. Keep the machine in top condition for best and safest performance.
8. Keep all guards in place and in working order.
9. Do not force the machine. It will do the job better and be safer working at the rate for which it was designed.
10. All children and visitors should be kept a safe distance from the working area.
11. The operator should keep proper footing and balance at all times.
12. Do not operate the machine while under the influence of drugs, alcohol, or any other medication.
13. Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the cutterhead.
14. Never leave the machine until it comes to a complete stop, and never leave the machine running unattended.
15. The employer is responsible for selecting competent and qualified employees.
16. The employer must make sure that employees study and utilize this safety information.
17. Supervisors must alert personnel of any unsafe practices they observe.
18. All employees should be aware of first aid facilities and be encouraged to use them, regardless of the severity of the injury.
19. Fire prevention must be practiced and fire protection must be available to prevent loss of life, personal injury, and property damage.
20. Safety shoes should be worn to provide protection against rolling objects, falling objects, and sharp edges in the workplace.
21. Eye protection should be worn and such devices should be carefully selected, fitted and used. Compulsory wearing of glasses with impact resistant lenses and side shields is a good safety policy. All eye protection should conform to ANSI 87 standards.
22. Wear hearing protection when operating the machine.
23. Do not wear rings, necklaces or jewelry around moving machinery.
24. Do not wear loose fitting clothes. Clothing should be comfortable, but long sleeves, neckties, etc, should not be worn.
25. Do not wear gloves or other hand covering articles around moving machinery.
26. Cover long hair with a hair net or cap.

27. Protective guards and shields must be in place at all times unless they must be removed for specific service or maintenance. They should be immediately replaced when service or maintenance is completed.
28. Make sure that operator clearly knows how to stop the machine before starting work.
29. Never clean or remove chips while the machine is running.
30. Maintain the machine in good operating condition. Report unusual conditions or machine malfunctions immediately.
31. Do not alter or remove guards and warning labels.
32. Keep the immediate area clean. Do not allow the floor to become slippery, or covered with dust or obstacles. Dust that accumulates in the work area is a hazard that can cause you to fall or slip against the machine or its controls.
33. Employees should be required to report to their supervisors any hazardous condition of the machine or in the immediate area.

### **ELECTRICAL SAFETY RULES**

1. Do not alter or bypass any protective interlock.
2. Before starting the machine, read and observe all warning labels and markings such as nameplates and identification plates.
3. Only personnel who are properly trained and have adequate knowledge and skill should undertake all electrical/electronic troubleshooting and repair.
4. Use extra precautions in damp areas to prevent yourself from accidental grounding.
5. Make sure your body and your tools are clear of electrical grounding.
6. The control panel doors should be opened only when it is necessary to check the electrical equipment or electrical wiring.
7. Before applying power to any equipment, establish without a doubt that all persons are clear.
8. Be alert and be sure you can work with no outside distractions.
9. Avoid wearing metal frame glasses or wearing a metallic necklace or chain, and never work on electrical equipment while wearing rings, watches, or bracelets.
10. When replacing conductors, make sure they conform to the manufacturer's specifications, including proper color-coding.
11. Do not alter the electrical circuits. If machine damage is caused by an unauthorized alteration, the user is responsible, not the manufacturer.
12. Always assume the electrical power is ON and treat circuit as live. This caution develops a habit that may prevent an accident.
13. Give capacitors time to discharge. Otherwise, it should be done manually with care.
14. Use proper test equipment to make certain you have an open circuit. Test equipment must be checked and calibrated at regular intervals.
15. Open the control panel doors only when it is necessary to check the electrical equipment or wiring. After closing the door, make sure the disconnecting means are operating with the disconnecting handle mechanism in its proper position.
16. All covers on junction boxes must be closed before leaving any job.

## **SHIPPING & RECEIVING INSTRUCTIONS**

This machine has been carefully inspected and tested before packing. It was delivered in good condition and was shipped in one wooden pallet.

When receiving this machine, inspect the wooden pallet and check to see if there is any damage. Then check the machine model and all items as according to the packing list.

If there is any damage on the machine or any missing parts, report it to your local distributor or the machine manufacturer immediately.

## **UNPACKING & CHECKING CONTENTS**

The machine has been well packed at the manufacturer's factory and shipped in good condition. The machine is shipped in one wooden pallet.

Upon receiving the machine, carefully unpack it and check all items as according to the packing list.

If you find any part is missed or damaged, contact your local distributor or the manufacturer of the machine immediately. Do not attempt to operate the machine until the missing parts are obtained and are installed correctly.

## **CLEANING THE MACHINE**

The machine is coated with rust preventative oil before shipment. When the machine has been moved to the proper work site, wipe the oil from the machine using a soft cloth soaked in kerosene. Do not use gasoline, lacquer thinner, or any other volatile solvent, as these may damage the paint surface of the machine.

## **LIFTING THE MACHINE**

The machine should be lifted or moved by a forklift. Make sure the lading capacity of the forklift is sufficient to raise the machine. Pay special attention to the machine balance while lifting the machine to prevent the machine from falling. The forks of the forklift must protrude over the machine bottom for uniform distribution of the entire machine weight.

## **INSTALLING THE MACHINE**

The machine does not need to be bolted into the concrete floor, but should be placed on a solid and level concrete floor. Leave proper space around the machine for conveniently handling the work pieces. Make leveling adjustments after the machine has been placed in the desired location of the work site.

## **SPECIFICATIONS**

Table Area	
Max Planing Width	
Table Height	
Fence Slant	
Motor (HP)	
Cutterhead Speed	
Cutterhead Diameter	
Blade Quantity	
Machine Weight	
Gross Weight	
Packing Size (L x W x H)	

## **405S1**

<b>No</b>	<b>Part Name &amp; Specification</b>	<b>Qty</b>	<b>Size</b>	<b>Part No</b>
1	Base Assembly	1		405S001A
2	Cutterhead Assembly	1		405S02
3	Right Plate (Long)	1		405S20
4	Left Plate (Short)	1		405S24
5	Plate Elevation Assembly	2		500S06
6	Stop Assembly	1		500S047
7	Aluminum Fence Seat Down Plate	1		405078
8	Hex Cap Bolt	4	M10 x 16mm	AC1016
9	Aluminum Fence Assembly	1		405S066
10	Lock Rod	1		3A044
11	Motor Assembly	1		405S05
12	Hex Cap Bolt	2		A1030
13	Return Shaft	1		405S045
14	Hex Cap Bolt	1	M10 x 16mm	FK830

## **405S001A**

No	Part Name & Specification	Qty	Size	Part No
1	Base	1		405001A
2	Flat Support Spectacle Granule	6		350005
3	Flat Lifting Twisting Arm (Left)	1		350003
4	Flat Lifting Twisting Arm (Right)	1		350004
5	Flat Lifting Twisting Arm (Left)	7		500002
6	Flat Long Spindle	4		405006
7	Front Plate	1		405011A
8	Right Rear Plate (Long)	1		405009
9	Left Rear Plate (Short)	1		500008
10	Rear Cover Fixing Knob	4		500007
11	Hex Nut	8	M10	AR10
12	Washer	16	M10	SW10
13	Hex Cap Bolt	8	M10 x 45mm	AC1045
14	Spring Washer	16	3/8"	SS3-8
15	Hex Cap Bolt	8	M10 x 70	AC1070
16	Washer	8		SE8
17	Hex Head Bolt	8	M8 x 25mm	A825
18	Flat Long Spindle Fixing Seat	1		500084
19	Set Bolt	7	M8 x 8mm	AS88
20	Base Rear Cover	1		500076
21	Crosshead Bolt	8	M6 x 10	AX610
22	Front Cover Fixing Knob	4		500010

### **405S02**

No	Part Name & Specification	Qty	Size	Part No
1	Cutterhead	1		405027A
2	Front Cutterhead Cass (Small)	1		500028A
3	Rear Cutter Cass (Large)	1		500040A
4	Bearing	1	6206	BE6206VV
5	Bearing	1	6208	BE6208
6	Front Cass Dust Proof Cover	1		500029A
7	Brake Nut	1		500030A
8	Rear Cass Dust Proof Cover	1		500037A
9	Bearing Lock Nut	1		500036A
10	Cutterhead Belt Wheel	1		500035
11	Cutterhead Stop Plate	1		500034A
12	Cutterhead Belt Wheel Knob	1		500033A
13	Brake Rod Assembly	1		500S02
14	Spring Washer	6		SPN006
15	Cutter	3	16"	E16
16	Bib	3		405032A
17	Cutter Knob	21		500031A
18	Spring Washer	4	3/8"	SS3-8

19	Hex Head Bolt	4	M10 x 30	A1030
20	Hex Cap Bolt	6	M5 x 16mm	AC516
21	Rear Cutter Cass Door	1		500039A
22	Catch Plate	1		DR02
23	Catch Plate	1		D03
24	Cross Head Bolt	3		AX415
25	Knob	1		FN535
26	Hex Nut	2		AR5

### **500S06**

<b>No</b>	<b>Part Name &amp; Specification</b>	<b>Qty</b>	<b>Size</b>	<b>Part No</b>
1	Lifting Fixing Seat	1		500017
2	Lifting Hand Wheel	1		500018
3	Lifting Large Umbel Gear	1		500013
4	Lifting Knob	1		500014
5	Lifting Seat Shaft Rod	1		500015
6	Lifting Small Umbel Gear Rod	1		500016
7	Lifting Screw	1		500012
8	S Retainer Ring	1		CS40
9	C Ring	1	S22	CS22
10	C Ring	3	S28	CS28
11	Hand Wheel Fixing Washer	1		SK110550
12	Lock Knob	1		FK1020
13	Knob	1		FD3-8S
14	Hexagon Head Bolt	3		AB825
15	Hex Nut	1	M8	ARB8
16	Hexagon Socket Head Fixing Bolt	2		AS612
17	Oiler	1		G3-16
18	Key	1		KD515
19	Spring Washer	2	5/16"	SS5-16
20	Set Screw	1	3/8"-2"	AS3-820
21	Hex Nut	1	3/8"	AR3-8

### **405S024A**

<b>No</b>	<b>Part Name &amp; Specification</b>	<b>Qty</b>	<b>Size</b>	<b>Part No</b>
1	Right Plate (Long)	1		405020
2	Front Cover Silence	2		405022
3	Plate Support Rod	8		500021
4	Hex Nut	8	M14	AR14
5	Washer	8		SS304
6	Hex Cap Bolt	10	M6 x 25mm	AC625
7	Dust Proof Cover	2		405023
8	Hex Head Bolt	6		A612

9	Hex Cap Bolt	8		AS865
10	Hex Nut	8	M10	AR10
11	Hex Head Bolt	8		A820
12	Left Plate (Short)	1		405024

### **500S02**

No	Part Name & Specification	Qty	Size	Part No
1	Rear Cutter Cass Door	1		500044
2	Washer	1		500043
3	Handle	1		500042
4	Brake Casing	1		500041
5	Spring Washer	1		PS320
6	Screw Bolt	1	M6 x 6	AS66

### **405S05**

No	Part Name & Specification	Qty	Size	Part No
1	Motor	1	5HP	MT1905A
2	Motor Belt Wheel	1		20P010A
3	Motor Plate	1		500083
4	Spring Washer	4	3/8"	SS3-8
5	Hex Head Bolt	4	M10 x 30	A1030
6	Hex Nut	4	M10	AR10
7	Spring Washer	2	1/2"	SW1-2
8	Hex Head Bolt	2	M12 x 25	A1225
9	Key	1	7 x 7 x 65	KD765
10	Screw Bolt	1		AS5-1604

### **500S049**

No	Part Name & Specification	Qty	Size	Part No
1	Return Tin Mandrel	1		500052
2	Return Tin Head Top	1		500053
3	Return Tin Turn Table	1		500054
4	Return Tin Force Torque Spring	1		500051
5	Return Tin Lower Head	1		500049
6	Return Tin	1		500050
7	Pin	1	4 x 12	PS412
8	Pin	1	4 x 16	PS416
9	Hex Cap Bolt	1		AC410
10	Pin	4	3 x 8	PS308



**405S066B**

<b>No</b>	<b>Part Name &amp; Specification</b>	<b>Qty</b>	<b>Size</b>	<b>Part No</b>
1	Adjust Shaft	1		20V015
2	Cutterhead Top Plate	1		405060A
3	Rotary Gear Pipe	1		405063
4	Fence Skewness Spectacle Arm	2		405065
5	Skewness Main Seat	1		405066B
6	Fence Support Seat	1		405071A
7	Fence Skewness Support Shaft (Long)	2		405073
8	Fence Skewness Support Shaft (Down)	1		405073
9	Aluminum Fence	1		405075
10	Fence Skewness Support Shaft (Left)	1		405079
11	Fence Skewness Support Shaft (Right)	1		405080
12	Skewness Main Seat Anchor Iron	1		405081
13	Aluminum Angle Fence Fasten	1		405083
14	Fence Base Spindle	2		405084
15	Hand Wheel	1		405085
16	Rotary Adjustment Gear Shaft	1		500061
17	Rotary Gear Pipe Sliding Seat	1		500062B
18	Hex Head Bolt	1	M6 x 35mm	A635
19	Hex Head Bolt	1	M6 x 40mm	A640
20	Hex Head Bolt	8	M8 x 50mm	A850
21	Hex Cap Bolt	2	M10 x 30mm	AC1030
22	Hex Cap Bolt	2	M10 x 60mm	AC1060
23	Hex Cap Bolt	2	M6 x 35mm)	AC635
24	Hex Cap Bolt	6	M8 x 50mm	AC850
25	Hex Nut	1	5/16"	AR5-16
26	Hex Nut	2	M6	ARE6
27	Hex Nut	1	M8	ARE8
28	Screw Bolt	1	5/16" x 1"	AS5-161
29	Set Screw	1	M6 x 10mm	AS610
30	Set Bolt	2	M6 x 8mm	AS68
31	Set Screw	2	M8 x 25mm	AS825
32	Crosshead Bolt	2	M6 x 10mm	AS610
33	Knob	1	3/8"	FD3-8
34	Washer	2	16 x 1/4" x 2mm	SE1-4
35	Washer	8	23 x 5/16" x 3mm	SE5-16
36	Disk Washer	2	M6	SF6
37	Spring Washer	2	M10	SS10
38	Spring Washer	2	3/8"	SS3-8
39	Spring Washer	6	5/16"	SS5-16
40	Knob	2	1/2" x 25mm	TRS1-225
41	Knob	1	5/16"	YK5-16

**405S066**

<b>No</b>	<b>Part Name &amp; Specification</b>	<b>Qty</b>	<b>Size</b>	<b>Part No</b>
1	Skewness Main Set	1		405066
2	Aluminum Fence Move Seat	1		405066A
3	Fence Skewness Spectacle Arm	2		405065
4	Fence Skewness Support Shaft (Long)	2		405072
5	Aluminum Fence	1		405075
6	Fence Skewness Support Shaft (Down)	1		405073
7	Fence Support Seat	1		405071A
8	Fence Skewness Support Shaft (Left)	1		405079
9	Fence Skewness Support Shaft (Right)	1		45080
10	Knob	1	1/2" x 25	TRS1-225
11	Skewness Main Seat Anchor Iron	1		405071
12	Aluminum Angle Fence Fasten	1		405083
13	Washer	4		SE10
14	Hex Head Bolt	4	M10 x 35mm	A1035
15	Washer	2	M6	SF6
16	Hex Cap Bolt	2	M6 x 35mm	AC635
17	Hex Head Bolt	1	M6 x 35mm	A635
18	Hex Nut	2	M6	SF6
19	Hex Head Bolt	1	M6 x 40	A640
20	Washer	8		SE8
21	Hex head Bolt	8	M8 x 50mm	A850
22	Set Bolt	2	M6 x 8mm	AS68
23	Set Screw	1	M8 x 25mm	AS825
24	Set Screw	1	M6 x 10mm	AS610