

COMBI 250/1000 VA

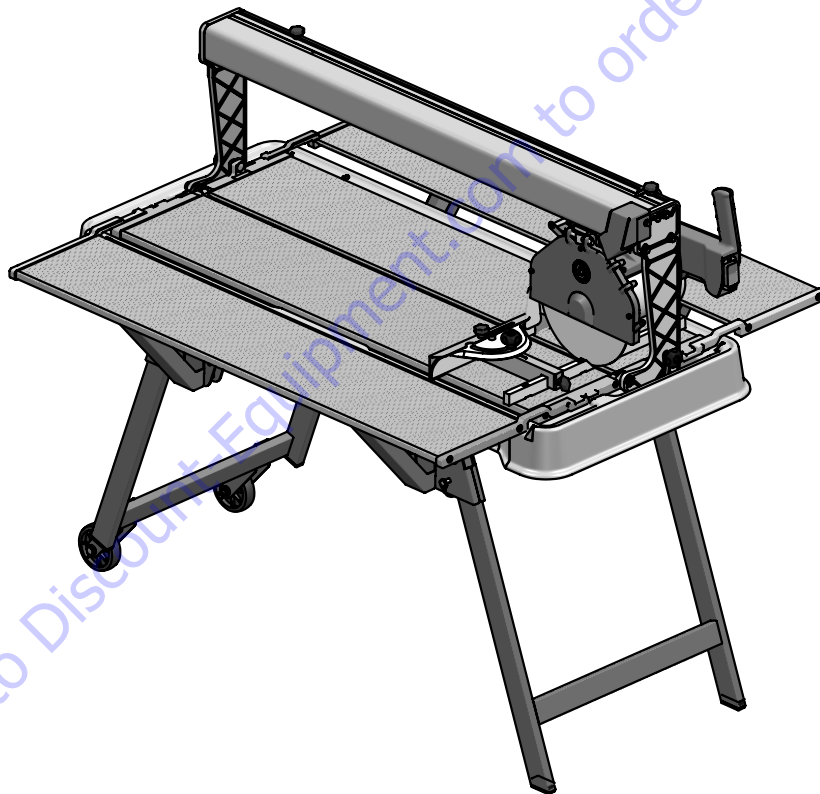
SAWING MACHINE

1188174

COMBI 250/1500 VA

SAWING MACHINE

1188180



OPERATING, MAINTENANCE, SPARE PARTS MANUAL

IMER U.S.A. Inc.

2018/09 - R14
Cod. 3227118

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Dear Customer,

Congratulations on your choice of purchase: IMER saws are the result of years of experience and are equipped with all the latest technical innovations.



- WORKING IN SAFETY

To work in complete safety, read the following instructions carefully.

To work in complete safety, read the following instructions carefully before using the machine.

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This OPERATION AND MAINTENANCE manual must be kept on site by the person in charge, e.g. the SITE FOREMAN, and must always be available for consultation.

The manual is to be considered integral part of the machine and must be kept for future reference (EN 12100-2) until the machine is disposed of. If the manual is damaged or lost, a replacement may be requested from the manufacturer.

The manual contains important information regarding site preparation, machine use, maintenance procedures, and requests for spare parts.

Nevertheless, the installer and the operator must both have adequate experience and knowledge of the machine prior to use.

To guarantee complete safety of the operator, safe operation and long life of equipment, follow the instructions in this manual carefully, and observe all safety standards currently in force for the prevention of accidents at work (use of safety footwear and suitable clothing, helmets, gloves, goggles etc.).



- Make sure that all signs are legible.



- It is strictly forbidden to carry out any form of modification to the steel structure or working parts of the machine.

IMER INTERNATIONAL declines all responsibility for failure to comply with laws and standards governing the use of this equipment, in particular; improper use, defective power supply, lack of maintenance, unauthorised modifications, and partial or total failure to observe the instructions contained in this manual.

IMER INTERNATIONAL reserves the right to modify features of the saw and contents of this manual, without the obligation to update previous machines and/or manuals.

1. TECHNICAL DATA

Technical data are stated in table 1 and electrical specifications in table 2.

Table 1 - TECHNICAL DATA		
Model	Combi 250/1000 VA	Combi 250/1500 VA
Max. blade diameter	10 inches	10 inches
Diamond Blade hole diameter	5/8 inches	5/8 inches
Single phase 115V/60Hz motor power	1.3 kW	1.3 kW
Max. blade rotation speed	3400 rpm	3400 rpm
Cutting table dimensions	1115x500 mm	1615 x500 mm
Length of 90° cuts (thickness= 10mm)	950 mm	1450 mm
Length of cuts from above	1000 mm	1500 mm
Maximum cut depth with single stroke	66 mm	66 mm
Maximum cut depth with two stroke	105 mm	105 mm
Water pump flow rate	13 l/min	13 L/min
Water tank capacity	40 L	50 L
Machine dimensions	1420x636x619 mm	1920x636x619 mm
Packed machine dimensions	1454x669x654 mm	1954x669x654 mm
Weight with packaging	65 kg	80 kg

Table 2	
Feature	Motor (115V/60Hz)
Power (kW)	1.3
Rated voltage (V)	115
Frequency (Hz)	60
Absorbed current	14.4
Number of poles	2
rpm	3400
Service type	S6 40%
Insulation category	F
Protection category	IP55
Capacitor (µF)	110 (Ø 50x120)

2. DESIGN STANDARDS

Combi 250/1000 VA saws have been designed and manufactured according to the following standards: UNI EN 12418:2001; EN 12100-1/2:2005; EN 60204-1:2006.

3. SOUND PRESSURE LEVEL AND VIBRATIONS

Table 3 shows the sound pressure level measured loadless at the operator's ear (L_{pA}) and of the vibrations transmitted during operation.

Table 3			
Model	Type of motor	L_{pA}	A_{eq}
Combi 250/1000 VA - 250/1500 VA	Electric	86 dB	2.57 m/s ²

4. GENERAL SAW DESCRIPTION

4.1 General description

The Combi 250/1000 VA (250/1500 VA) is a saw comprising the following main sub-groups:

- cutter head (ref.A, fig.1)
- runner guide and arms (ref.B, fig.1)
- cutting tables and heads (ref.C, fig.1)
- water collection tank (ref.D, fig.1)
- frame (ref.E, fig.1)

The cutting head is mounted on a reinforced aluminium profile and is equipped with horizontal and vertical movement facilities. The aluminium profile is hinged onto die-cast arms (ref.F, fig.1) and the entire unit can rotate through 45° (fig.2) by means of the relative handwheels (ref.G, fig.2).

The machine is supported by a special metallic frame. There is a shockproof plastic tank between the machine and the frame. The water immersion pump is mounted below the cutting surfaces on a special bracket and supplies a water distributor inside the blade guard for cooling the cutting blade during operation.

The high resistance plastic handle (ref.H, fig.2), is equipped with the main ON-OFF switch on the operator side to facilitate saw activation and shutdown. The raised position of the red OFF button on the handle is designed to facilitate shutdown of the machine in the event of an emergency. The motor capacitor is located in a protected position inside the handle.

The saw is fitted with a guard to guarantee optimal safety during operation and to protect the user during cutting cycles.

A valve is mounted above the blade guard to adjust the flow rate of water delivered to the cutting blade. The version 250/1500 Va the movement for the cutting head it is possible by the handle (rif Q, fig 1)

4.2 Processable materials

This saw has been designed for cutting the following materials: ceramic tiles, masonry and stone in general with maximum dimensions compatible with the length, cutting depth and dimensions of the surfaces specified in table 1.

Maximum weight of processable materials: 25 kg.

4.3 Unsuitable material


Materials unsuitable for this machine are all those not specified in paragraph 4.2.

In any event, before using the saw with materials other than as specified by the manufacturer for this saw model, contact IMER INTERNATIONAL S.p.A.



- Use of this machine with workpieces outside the specified dimensions is strictly prohibited and constitutes a hazard for the operator.

5. OPERATION SAFETY

 - Before using the saw, ensure that all protection devices are fitted.

 - Never use the saw in environments subject to the risk of explosions or fire.

The saw is not fitted with specific lighting and therefore the workplace must be sufficiently lit for this purpose (min. 300 lux).

The power lines must be laid to prevent any possible damage.

Ensure that the electrical connection is protected against the risk of water penetration in connectors. Use exclusively connectors and couplings equipped with water spray protection.

Never use inadequate or makeshift electrical lines or cables without earthing; if in doubt consult a specialised technician.

Repairs to the electrical circuit must be performed exclusively by specialised personnel. Disconnect the machine from the power supply before performing maintenance or repairs.

6. GENERAL SAFETY WARNINGS

Note that this machine has been designed to ensure optimal performance and maximum safety: however the operator must also guarantee this level of safety by paying special attention to the machine throughout all work phases.

1. Ensure that an efficient earthing system is installed.
2. Work only with all protection devices fitted correctly and in efficient working order.
3. Remove rings, watches, bracelets or ties before using the machine; these elements constitute a serious hazard to the operator. Also ensure that sleeves are tight around the wrists, hair is tied back and robust footwear is used.
4. Always use personal protection devices such as safety goggles, suitably sized gloves, ear muffs or plugs and hair caps when necessary.
5. Never cut workpieces that have dimensions or weight that are not suited to machine capacity as specified by the manufacturer (see point 4.2)
6. Always keep your hands away from the work areas when the machine is running. Before taking any action to remove a piece from close to the disc, stop rotation by pressing the stop button.
7. Keep the machine clean: general cleaning (and the work surfaces in particular) represents an important safety factor.
8. Always stop the machine and disconnect from the power supply before cleaning or removing any protection device (for maintenance or disassembly purposes). If water jets are used for cleaning, never point jets directly at the power supply unit or electric motor.
9. Use genuine diamond blades as recommended by the manufacturer to ensure optimal performance of the machine.
10. Use exclusively water-cooled continuous rim blades suited to the material to be cut.
11. Never dry cut material or cut when cooling water levels are low.
12. Never use blades over the rotation speed specified by the manufacturer.
13. Do not use reduction rings to adapt the hole of the disc on the flange. Only use discs with hole corresponding to the flange supplied with the machine (1" or 7/8").
14. Never use diamond blades that are chipped or deformed.
15. The instructions in this manual are aimed at machine users (operators, maintenance engineers).

7. SAFETY DEVICES

The Combi 250/1000 VA(250/1500 VA) has been constructed taking into account current harmonised European safety standards.


According to machine directive 98/37/EEC all safety devices have been installed with the aim of safeguarding the operator.

7.1 Guards and safety devices

The machine is equipped with fixed guards, secured by means of screws and protections that prevent access to moving or dangerous parts.

All fixed guards, covers, shields fixed by means of screws have been envisaged to protect the operator (maintenance engineers, technicians and others) from possible accidents cause by electrical discharge or moving mechanical parts.

Therefore use of the machine with guards removed or modified in any way is strictly prohibited.

 - Before performing maintenance or repairs to the machine, turn it off via the main switch and disconnect from the power supply

to prevent inadvertent start-up and isolate all machine electrical circuits.

8. MACHINE INSTALLATION


8.1 Set up

Remove the machine packing.

The machine can already be used, leaving the legs folded, resting its frame on a sufficiently even surface at least as big as the tank.

Frame assembly:

1. remove the machine and tank from the folded frame.
2. remove the safety pins from the frame and open the legs.
3. put the safety pins back in the holes provided locking the legs in the open position.
4. reposition the machine and tank on the frame.

 - Make sure that the frame is positioned on a flat and even surface, capable of bearing the weight of the machine. The maximum permissible gradient in all directions is 6°.

8.2 Handling

The Combi 250/1000 VA sawing machine weighs 57 Kg(250/1500 VA 80 kg) and can be moved using the side handles on the tank (ref.1, fig.1). For short distances use the wheels fitted on the frame. For longer distances, before moving the machine, close the frame reversing the sequence of the operations described in point 8.1.

Every time the machine is moved, make sure the head is locked tightening the knobs (ref.L, fig.1).

 - Always empty the tank before moving the machine.

 - Always disconnect the power plug before moving the machine.


8.3 Additional table assembly (optional kit code 1188176)

The additional table can be installed to the left or right of the machine, or on both sides at the same time.

First fit the cross member (ref.5, fig.6) to the bolts on the frame (ref.A, fig.6) and secure it with the nut and washer (ref.6-7, fig.6). Secure the other end of the cross member with the locking pin (ref.8, fig.6) on the front legs.

Fit the strut (ref.1, fig.6) to the cross member, making sure that it locates into the grooves, which hold it perfectly vertical.

Now install the additional table; it is supplied with the side mounts already assembled. Fit the mounts into the provided cavities in the side panels of the machine, making sure they are fully inserted. Now lower the additional table until it is properly supported. Level the additional table with that of the machine itself; to do this, move the strut to the left or right along the cross member (fig.6).

 - The use of additional tables without props can cause damage to them.

9. ELECTRICAL CONNECTION

 - Ensure that voltage corresponds to machine dataplate specifications.

The power supply line must be equipped with current overload protection (e.g. thermal cutout) and protection against indirect contact (e.g. residual current circuit breaker).

Connect the machine to an efficient earthing system.

The size of the power cable wires must be based on operating current and length of the power line to prevent excessive voltage drops (table 4).

Model	Type of motor	Cable (mm ²)			Cable length (m)
		1.5	2.5	4.0	
Combi 250/1000 VA -250/1500 VA	115 V 14.4 A	0 ÷ 12	13 ÷ 20	21 ÷ 32	

Connect the saw plug to the mains and tighten the mechanical retainer ring with IP67 protection rating.

The saw is now ready for operation.

10. MACHINE USE

10.1 Operation


The correct side for the operator is shown in fig.4 ref.X.
Fill the water tank to the maximum level (approx. 40 litres).
Connect the machine to the power mains and start as described in paragraph 10.
Open the valve (ref.N, fig.1) and ensure sufficient flow of cooling water to the diamond blade.

10.2 Cutting

Rest the material to be cut on the cutting table against the stopper. Define the required inclination using the goniometer. To adjust the cutting head height, loosen the handwheel (ref.O, fig.3), position the head at the required height, then fully tighten the handwheel. Make sure that handwheels for sloped cutting (ref.G, fig.2) are firmly tightened. Start the sawing machine as described in paragraph 10. To proceed with cutting, press the piece to be cut on the table with your hand and move the cutter head gripping the handle and drawing it towards you. If the feed speed is too fast in relation to the thickness and hardness of the material the blade might stop turning. In this case, release the disk as quickly as possible moving the cutter head away from you until the disk recovers its nominal rotation speed. Resume cutting, adjusting the feed speed according to the characteristics of the material.

10.3 Angled cuts

Loosen the handwheels (ref.G, fig.2), set the cutting head at the required angle, retighten the handwheels, and proceed as described in the point above.

 - **Ensure that the tank is kept full during all work phases and in the event of prolonged work intervals replace water regularly and remove all processing residue.**


10.4 Laser pointer

The machine is fitted with a laser pointer that reproduces the cutting line on the piece being machined. The track of light indicates the trajectory of the diamond disk during the feed motion. Making the required cutting profile coincide with the laser profile, it is possible to ensure the highest accuracy of the operation.

Cuts at right angle with one side of the piece being machined do not require tracing beforehand: in fact it will suffice to make sure that the side of reference is in contact with the stopper on the resting surface. Likewise, using the goniometer, cutting at predefined inclinations is possible. The laser light will indicate the actual position of the cut.

The laser pointer is activated when the machine is connected to the electric mains.

The pointer is aligned with the disk and must not be moved from its initial position.

 - **The pointer used emits a low power laser light, but it is in any case advisable to avoid looking directly at the emitter itself.**


11. MAINTENANCE

11.1 Premise

Routine maintenance operations can also be performed by non-specialised personnel provided that all safety standards specified in the relative sections of this manual are observed at all times.

11.2 Machine cleaning

The machine should be cleaned exclusively when it is stationary.

 - **All power switches must be set to "0" and plugs must be disconnected from the mains.**

1. Never use compressed air; this could cause infiltration of dust or residue in enclosed parts.
2. Ensure that the cooling water nozzles are not obstructed.
3. Above all the cooling water in the tank must be changed every day.
4. Do not use detergents or lubricants.

11.3 Cleaning the tank

Clean the tank in the event of build-up of sediment on the base, or at least once a day. Failure to clean the tank could impair operation of the immersion pump used for circulation of the diamond blade cooling water. To clean the tank, disassemble from the machine, lock the head, hold it by the arms and rinse with a direct water jet (this is to avoid direct contact of the water with electrical parts), then proceed with manual cleaning using cloths or brushes.

Take care not to damage cables when replacing the machine on the tank
Take care not to damage the pump when placing the machine on the surface

11.4 Cleaning the cooling water supply circuit

At regular intervals (or when the flow rate of the blade cooling water is reduced) clean the cooling water supply circuit. To do this, disassemble the delivery nozzle (ref.P, fig.1) located inside the blade guard and clean in water.

Periodically clean the cooling water delivery line between the pump and valve and blade guard using water.

11.5 Blade replacement

The diamond blade is made of material that may be damaged when subject to high temperatures, and therefore must be cooled during the work phases.

To replace the blade, proceed as follows:


1. Block axial movement of the cutting head by means of the handwheels (ref.L, fig.1).
2. Disassemble the front guard (ref.P, fig.1).
3. Loosen the locknut by rotating clockwise (left thread), using a 19 mm wrench.
4. Move the cutting head forward slightly and incline to remove the blade from its seat.
5. Ensure that there are no foreign objects between the fixing flange and diamond blade. During disassembly, avoid use of tools that could dent or deform the flange.
6. Insert the new blade proceeding in reverse order of the operation described at point 4. Take special care to ensure correct direction of rotation of the diamond blade.
7. Tighten the blade locknut fully down by rotating anticlockwise (left thread), to a torque of 40 Nm.

 - **Always disconnect the power plug before changing the disk.**

11.6 Repairs

Repairs to the electrical installation must be performed exclusively by specialised personnel. Use exclusively original IMER spare parts; modifications to parts are strictly prohibited. The special design of the Combi 250/1000 VA ensures that no other maintenance other than as specified above is required.

Ensure that the contacts of the power plug and plug-switch assembly are efficient. If oxidation is detected, clean immediately

 - **In the event of activation of the RCCB, check the machine and arrange for repairs if necessary exclusively by specialised personnel.**

11.7 Waste disposal

As regards disposal of processing waste observe all current legislation in the country of use.

12. Residual risks and safety signs

Although the sawing machine has been manufactured fully in compliance with current regulations, residual risks exist that cannot be eliminated and involve the use of appropriate individual protection devices. Adequate warning signs fitted on the machine point out both the risks and the behaviour to be followed.

NOISE RISK



Ear protection must be worn

RISK OF INJURY TO THE HANDS



Safety gloves must be worn

RISK OF INJURY TO THE EYES



Eye protection must be worn

ABNORMAL USE RISK



Reading the manual before use is compulsory



Cutting with water is compulsory

DANGER OF CUTTING



DANGER OF ELECTROCUTION



DANGER OF LASER BEAM



Please be reminded that checking the use of IPDs is delegated to the employer.

SILICA DUST WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow respiratory precautions.

Use appropriate NIOSH-approved respiratory protection where dust hazard may occur. Paper masks or surgical masks without a NIOSH approval number are not recommended because they do little to protect the worker. For more information about respirator programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at: <http://www.cdc.gov/niosh/topics/respirators>

Observe OSHA regulations for respirator use (29 C.F.R. § 1910.134). Visit <http://www.osha.gov> for more information.

California proposition 65 message

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:
<http://www.osha.gov/dsg/topics/silicacrystalline/index.html>
<http://www.cdc.gov/niosh/docs/96-112/>
<http://oehha.ca.gov/prop65/law/P65law72003.html>
<http://www.dir.ca.gov/Title8/sub4.html>
<http://www.P65warnings.ca.gov>

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.

14. Troubleshooting

! - CAUTION!!! All maintenance operations must be performed exclusively with the machine switched off, with the selector set to "0" and the power plug disconnected from the mains.

Trouble	Causes	Remedies
The motor does not start when the start switch is pressed	Current does not reach the supply line	Check the line *
	The socket and plug are not connected properly	Restore correct connection
	The differential switch is off	Turn the differential switch on
	The power cable from the plug to the panel is cut off	Change the cable *
	An electric wire inside the motor terminal strip is cut off	Restore the connection *
	An electric wire inside the panel is cut off	Change the switch *
Cooling water fails to reach the blade	The start switch is faulty	Change the switch *
	Low water level in tank	Restore the water level
	Pump filter clogged	Clean the pump filter
	Current fails to reach the pump	Check the pump electrical supply *
The blade does not cut	Pump failure	Change the pump *
	Blade fitted in the opposite direction to that of rotation	Remove the blade and reposition it in the direction shown on the blade label
	Worn blade	Change the blade
* Operation to be carried out by an electrician		

15. SCRAPPING

The machine must be disposed of according to the current regulations.



The barred bin symbol indicates that at the end of its service life the product must be scrapped separately from other materials.

The manufacturer is responsible for separate scrapping of the equipment at the end of its service life. The user must therefore contact the manufacturer and follow the instructions given by the latter for separate scrapping of the equipment at the end of its service life.

Separate scrapping for subsequent recycling, treatment and eco-compatible disposal contributes to avoiding negative effects for the environment and for the health of persons, and promotes the reuse/recycling of the materials of which the equipment is fabricated.

Incorrect/illegal scrapping is punishable by law.

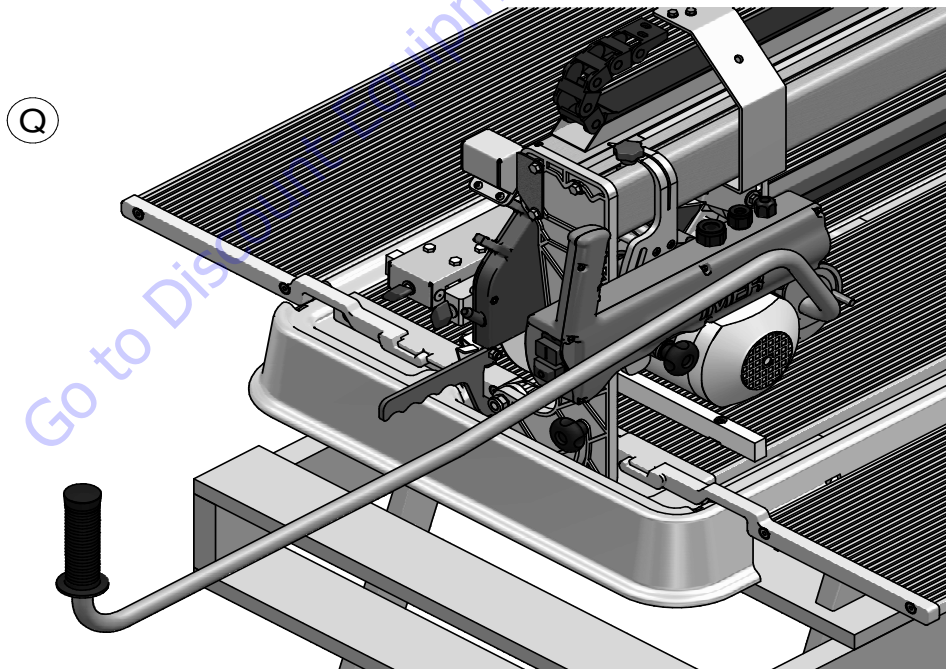
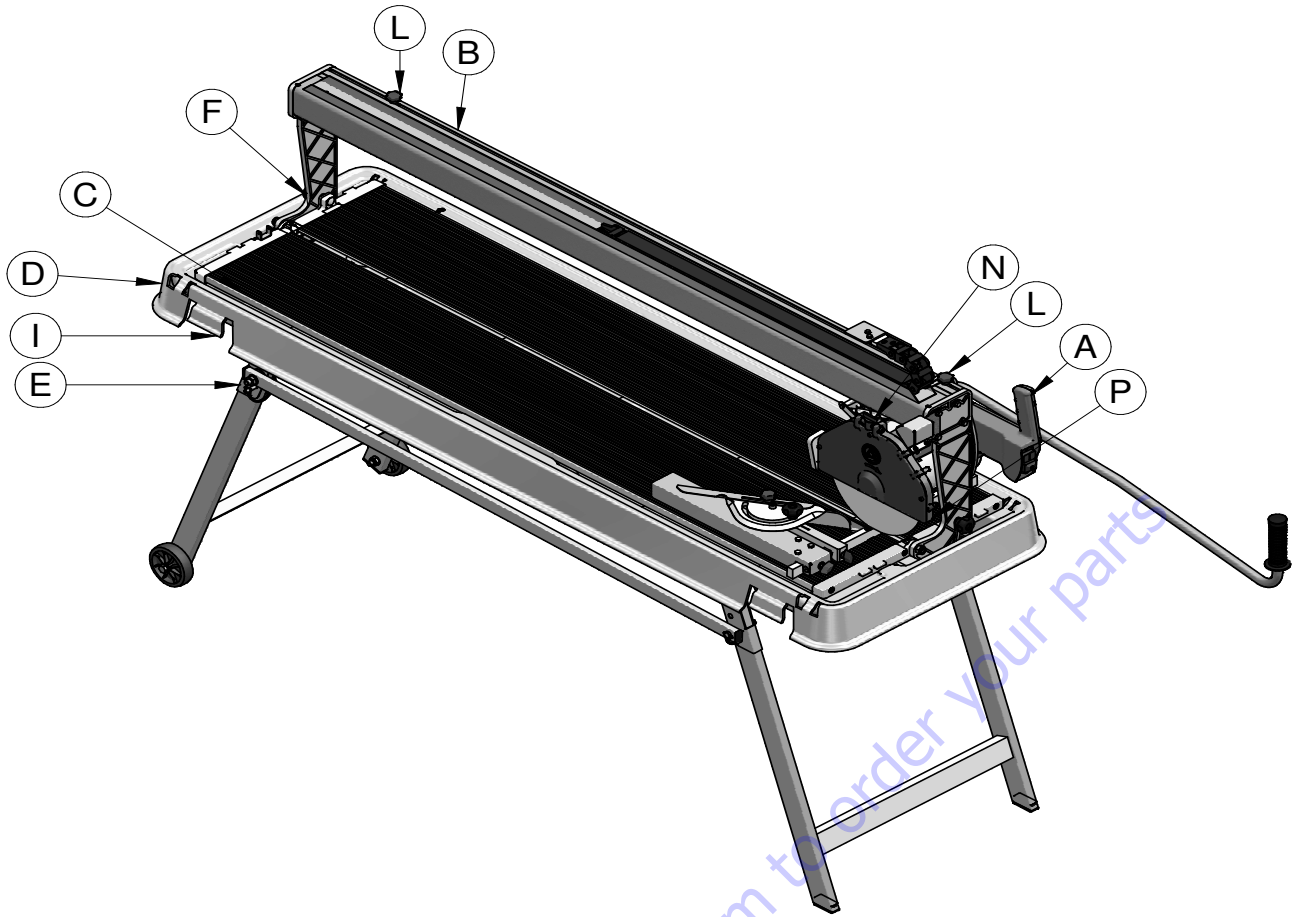
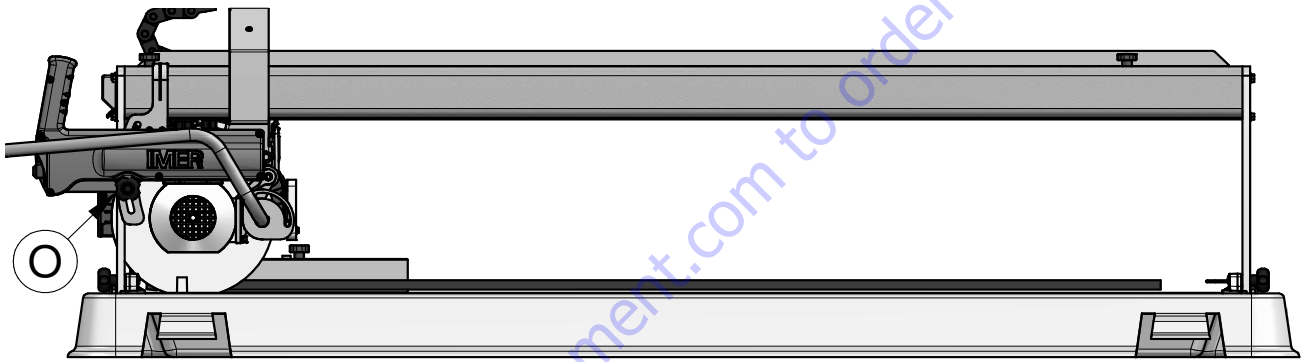
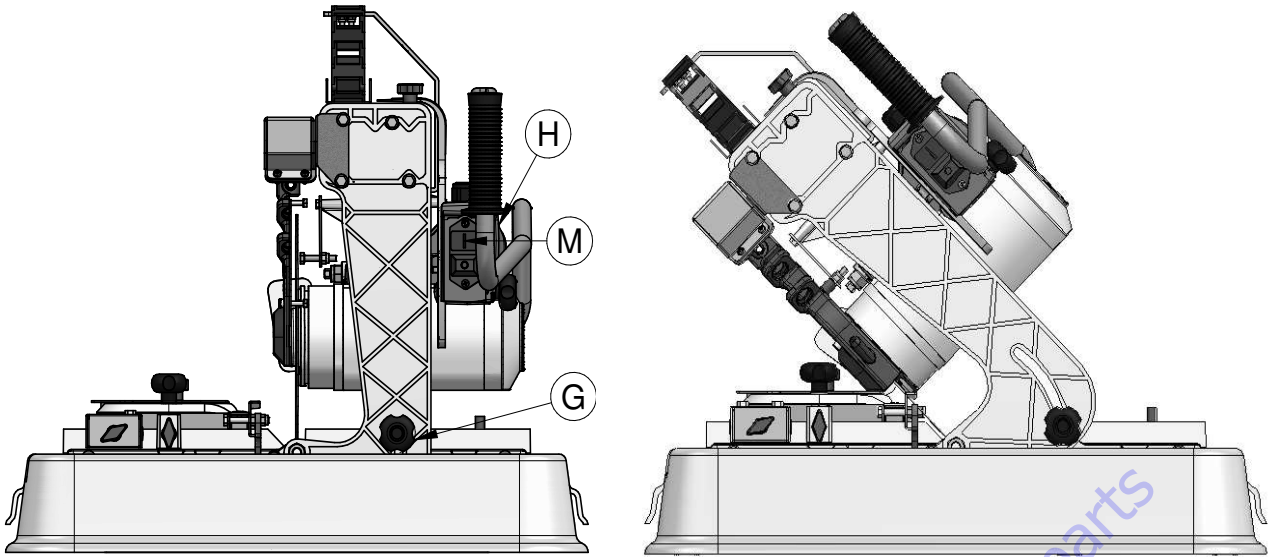
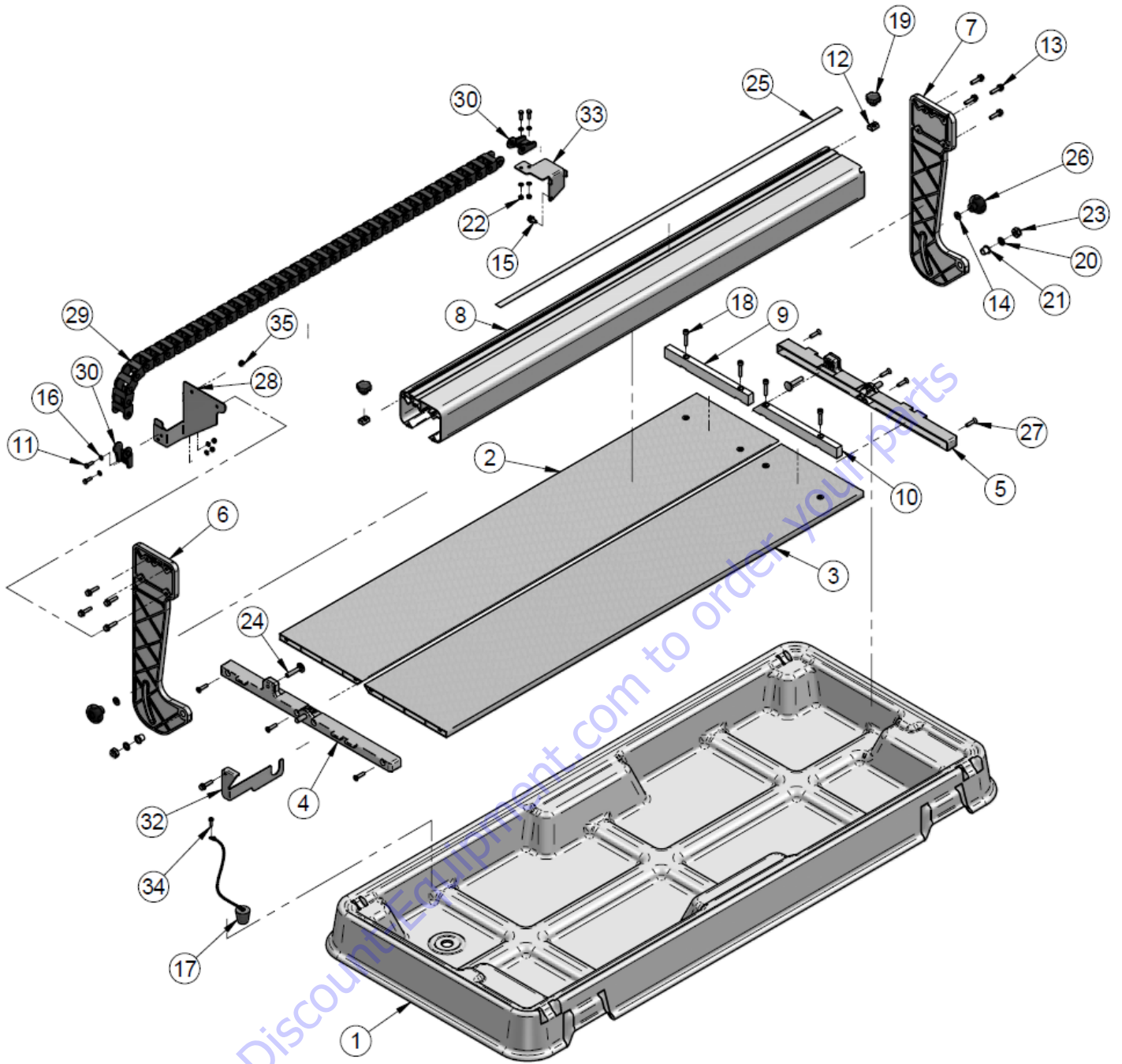


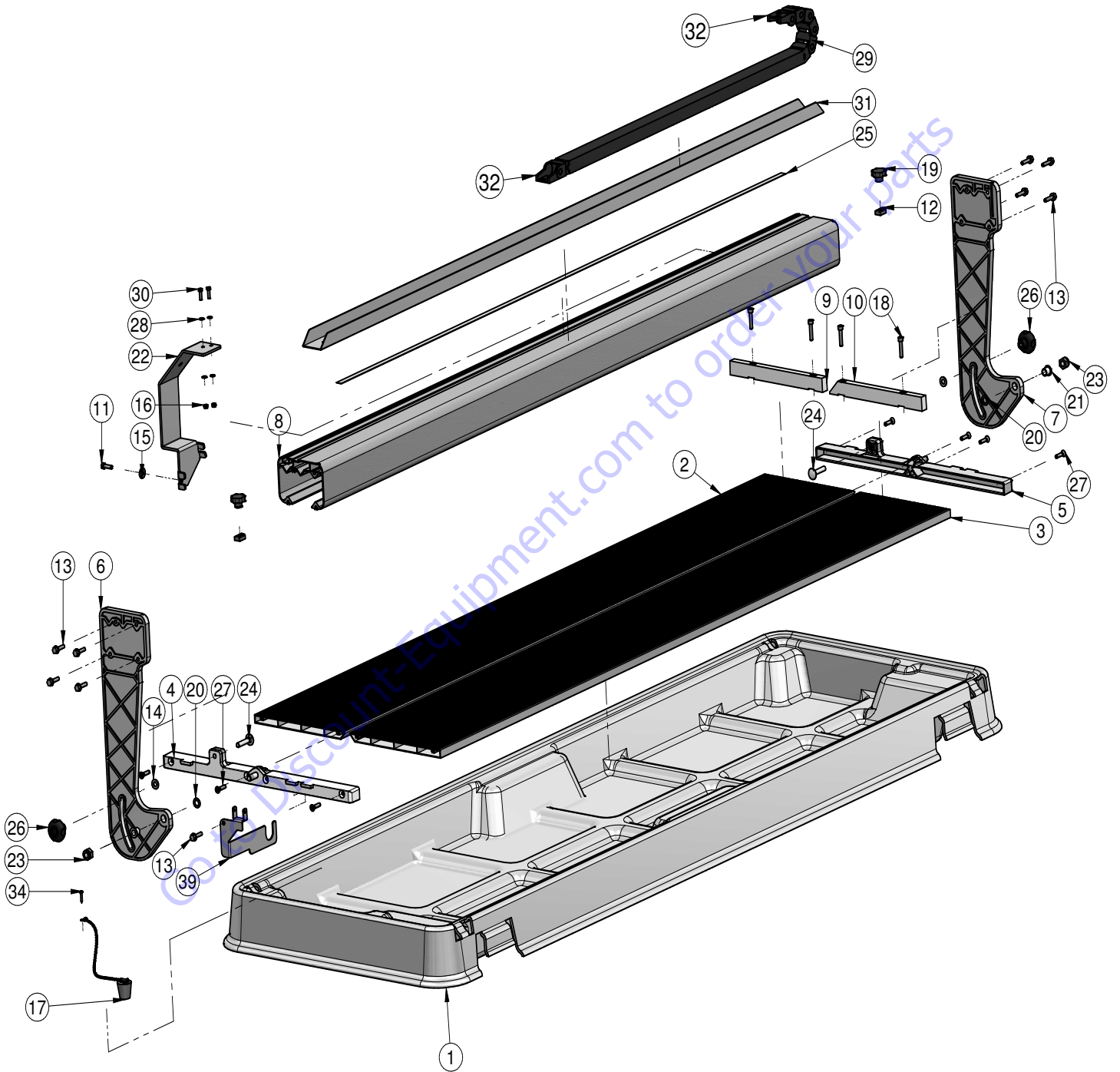
FIG 1





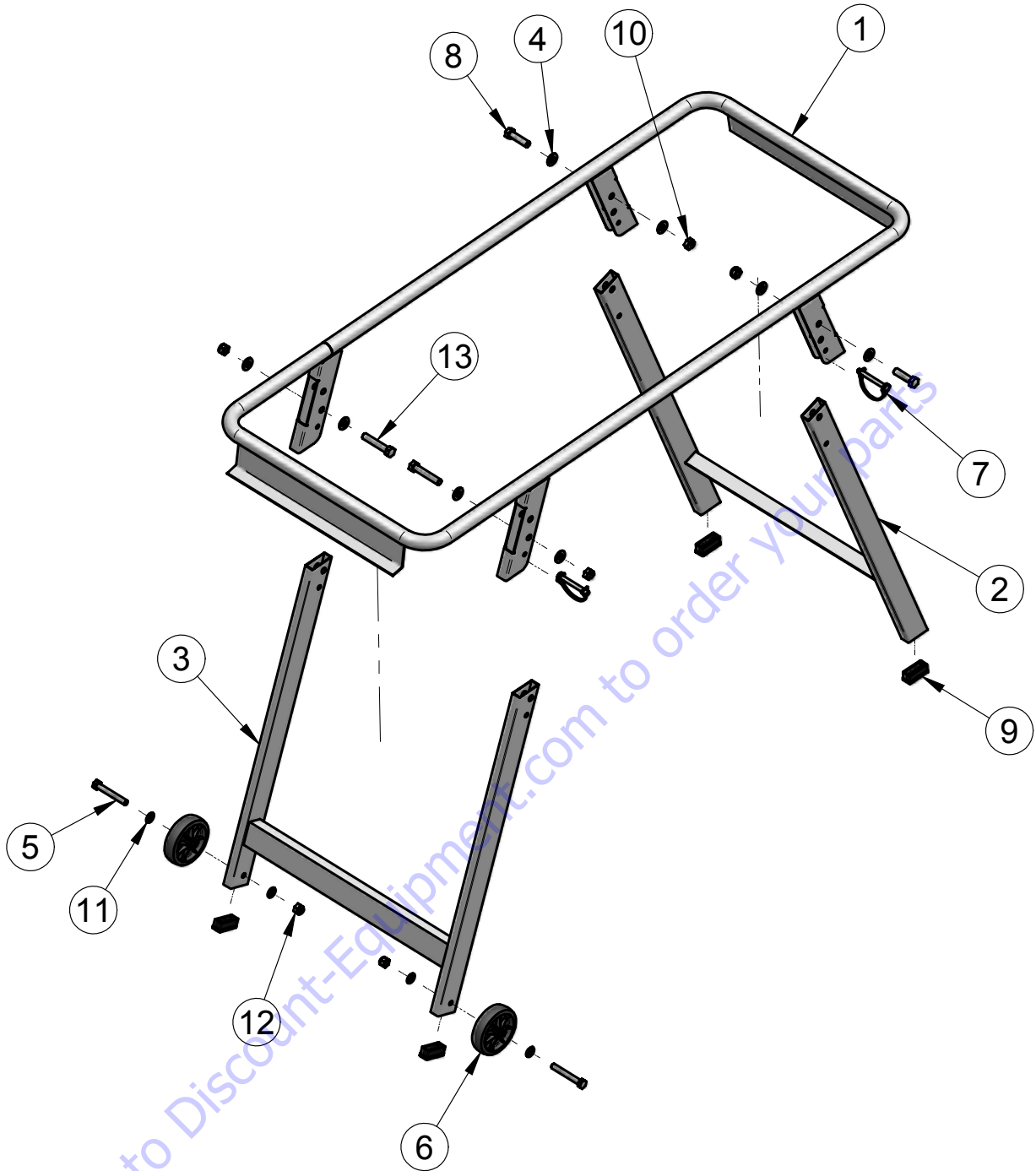
TAV. 1 - MACHINE STRUCTURE			
REF.	CODE	DESCRIPTION	NOTES
1	3226951	TANK	CM250/1000 VA
2	3227485	R.H. SURFACE	CM250/1000 VA
3	3227486	L.H. SURFACE	CM250/1000 VA
4	3226070	REAR SIDE	
5	3226069	FRONT SIDE	
6	3226359	REAR ARM	
7	3226357	FRONT ARM	
8	3227459	SLIDEWAY	CM250/1000 VA
9	3226073	RIGHT FENCE	
10	3226074	LEFT FENCE	
11	3209797	BOLT	TE 5739 M5X16
12	3210071	T-NUT	
13	3226709	BOLT	TEFR 6X35
14	3210576	WASHER	D.8,4X17X1,5
15	3225750	BOLT	TEFR 6X10
16	2224529	WASHER	D.5X10
17	2235429	CAP	
18	2222545	BOLT	TCEI 5931 M6X30
19	3204865	KNOB	M6
20	3226087	WASHER	D.10,5X17X1,5
21	3226088	BUSHING	
22	2223927	NUT	7474 M5
23	2223920	NUT	7474 M10
24	3226747	BOLT	TTDE 5732 8X40
25	3226795	MILLIMETRED STRIP	CM250/1000 VA
26	2284866	KNOB	M8
27	2222584	BOLT	TSPEI 5933 M6X25
28	3226944	BRACKET	
29	3226946	CABLE HOLDER CHAIN	CM250/1000 VA
30	3236631	TERMINAL KIT	
32	3226949	BRACKET	
33	3226950	BRACKET	
34	2222449	BOLT	TC 6954 3.5X19
35	3227488	CABLE DUCT	D.4

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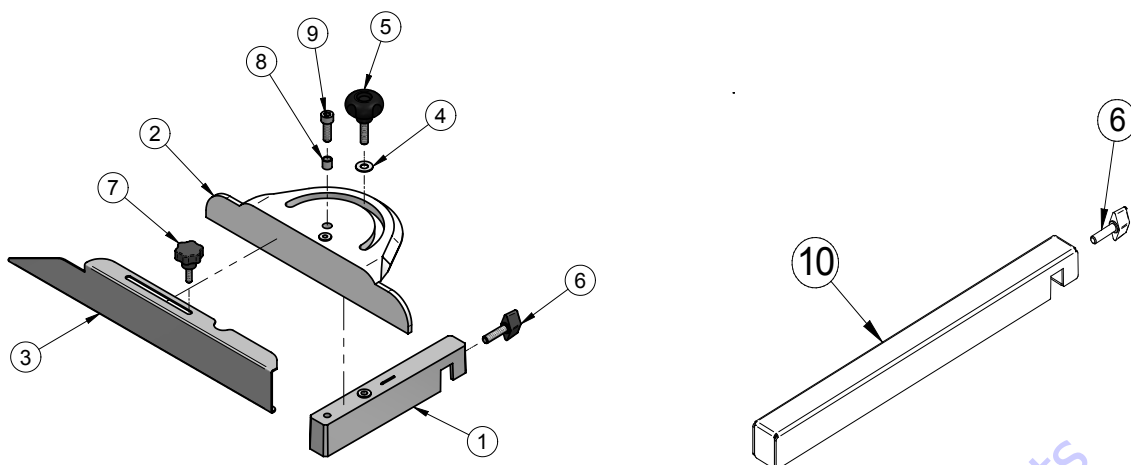


TAV. 1.5 - MACHINE STRUCTURE			
REF.	CODE	DESCRIPTION	NOTES
1	3234825	TANK	CM250/1500 VA
2	3234826	R.H. SURFACE	CM250/1500 VA
3	3234827	L.H. SURFACE	CM250/1500 VA
4	3226070	REAR SIDE	
5	3226069	FRONT SIDE	
6	3226359	REAR ARM	
7	3226357	FRONT ARM	
8	3234828	SLIDEWAY	CM250/1500 VA
9	3226073	RIGHT FENCE	
10	3226074	LEFT FENCE	
11	2222016	BOLT	TE 5739 M6X20Z
12	3210071	T-NUT	
13	3210099	BOLT	TEFR 6X25Z
14	3210576	WASHER	D.8,4X17X1,5
15	3225750	WASHER	D.6X18Z
16	2224529	NUT	7474 M5
17	2235429	CAP	
18	2222545	BOLT	TCEI 5931 M6X30
19	3204865	KNOB	M6
20	3226087	WASHER	D.10,5X17X1,5
21	3226088	BUSHING	
22	3236632	BRACKET	
23	2223920	NUT	7474 M10
24	3226747	BOLT	TTDE 5732 8X40
25	3232981	MILLIMETRED STRIP	CM250/1500 VA
26	2284866	KNOB	M8
27	2222584	BOLT	TSPEI 5933 M6X25
28	2224529	WASHER	D.5X10Z
29	3236630	CABLE HOLDER CHAIN	CM250/1500 VA
30	3209797	BOLT	M5X16Z
31	3236633	CHAIN GUIDE	
32	3236631	CHAIN ATTACK	
34	2222449	BOLT	TC 6954 3.5X19
39	3226949	BRACKET	

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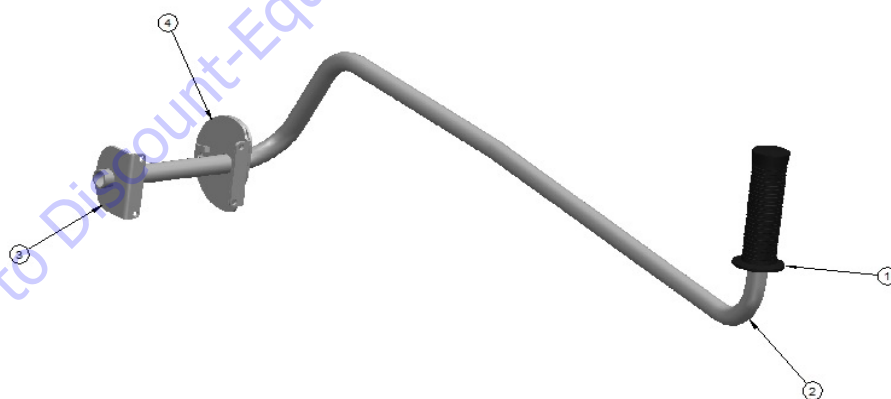


TAV. 2 - COMPLETE FRAME			
REF.	CODE	DESCRIPTION	NOTES
1	3229892	FRAME	CM250/1000VA
	3234829		CM 250/1500 VA
2	3229852	FRONT LEGS	
3	3229853	REAR LEGS	
4	2224380	WASHER	6592 D.12X25
5	3229916	BOLT	TE 5739 M10X60
6	3205257	WHEEL	
7	3223143	PIN	8X70 Z
8	2222050	BOLT	TE 5739 M12X50
9	3226976	CAP	
10	2223921	NUT	7474 M12
11	2224340	WASHER	6592 D.10X21
12	2223920	NUT	7474 M10
13	3224959	BOLT	5739 M12X65

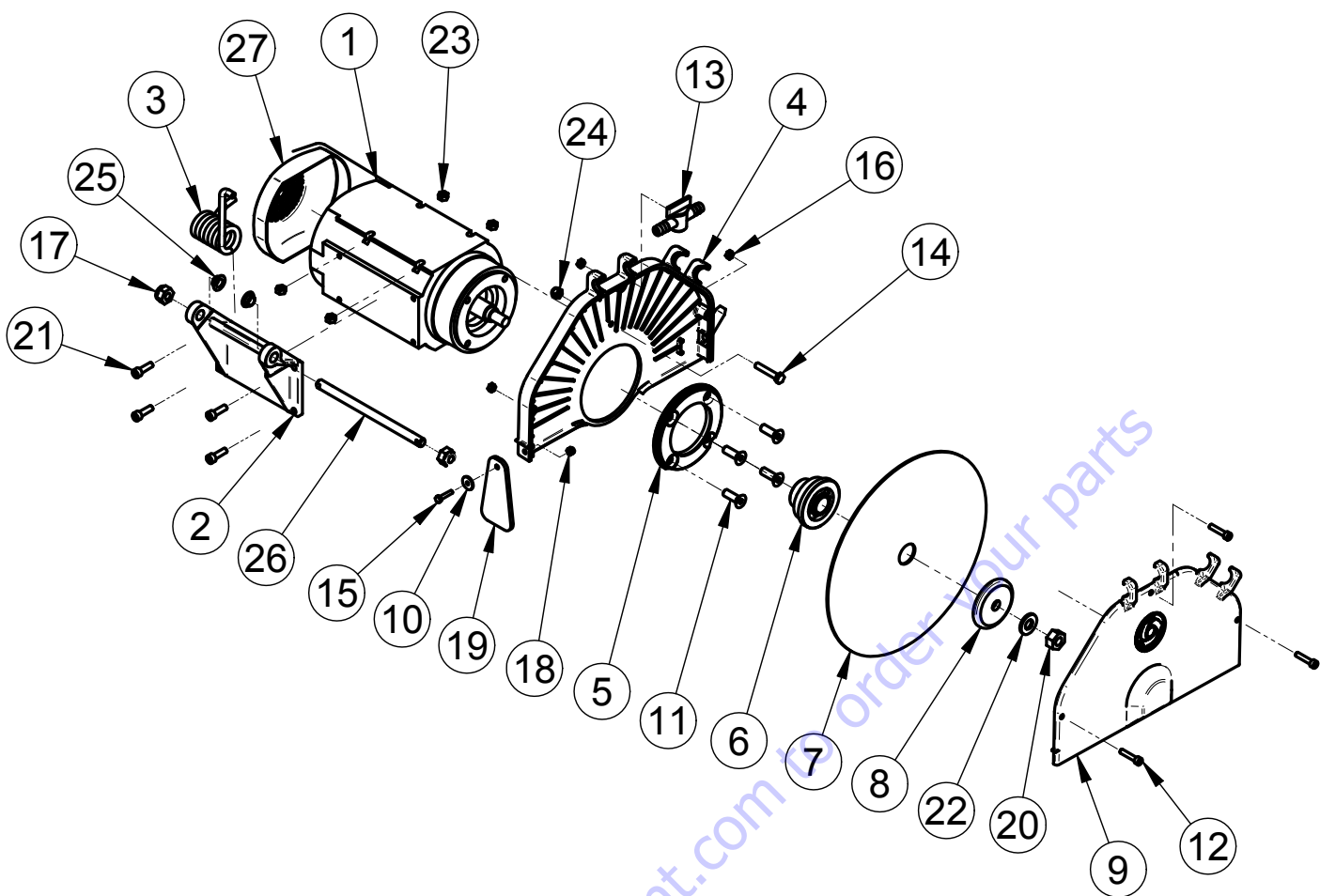


3226358		TAV. 3 - COMPLETE GONIOMETER	
REF.	CODE	DESCRIPTION	NOTES
1	3230617	GONIOMETER SUPPORT	
2	3230616	GONIOMETER	
3	3226360	SLIDING ROD	
4	2224140	WASHER	6593 D.8X18
5	3207939	HANDWHEEL	M8X30
6	3211381	HANDWHEEL	M8X30
7	3223279	HANDWHEEL	M6X20
8	3230638	SPACER	
9	2222511	BOLT	TCEI 5931 M8X25
10	3231271	BAR	

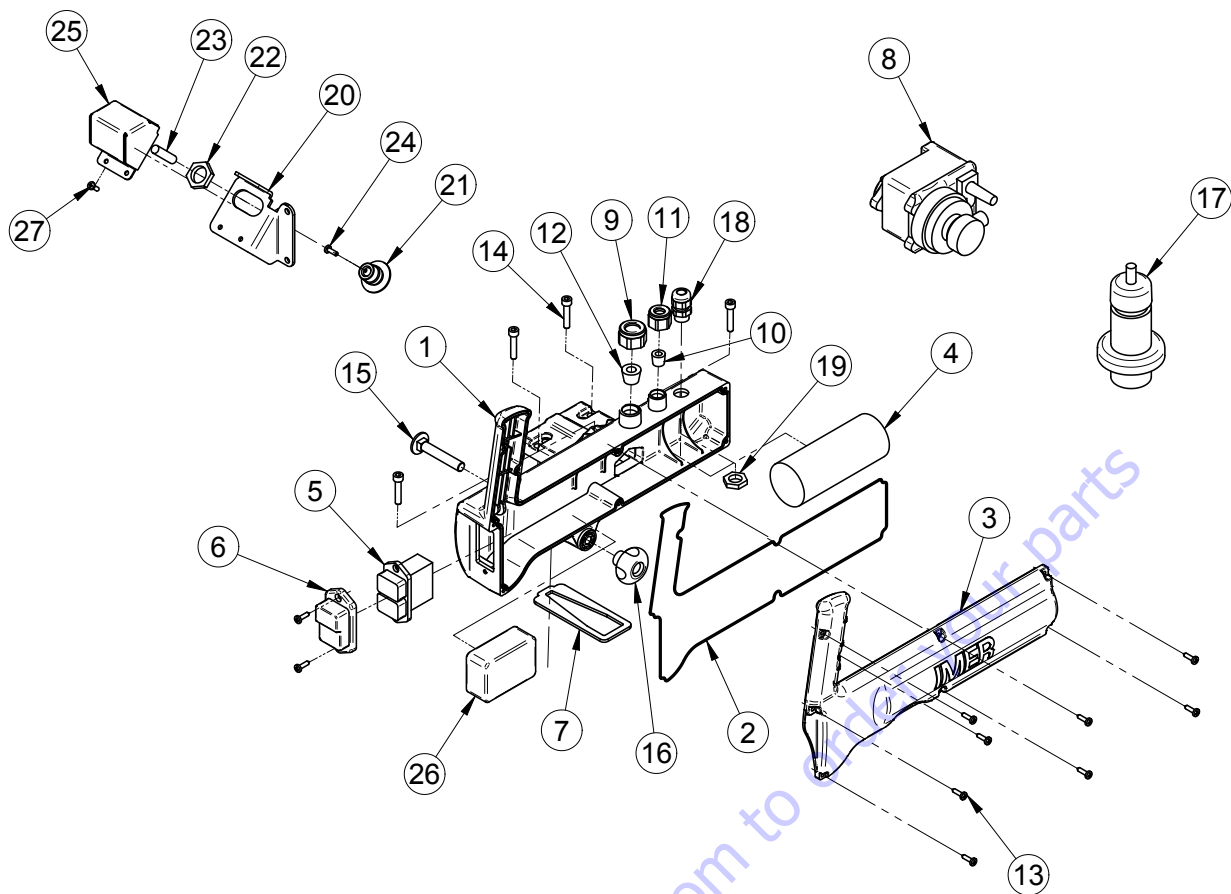
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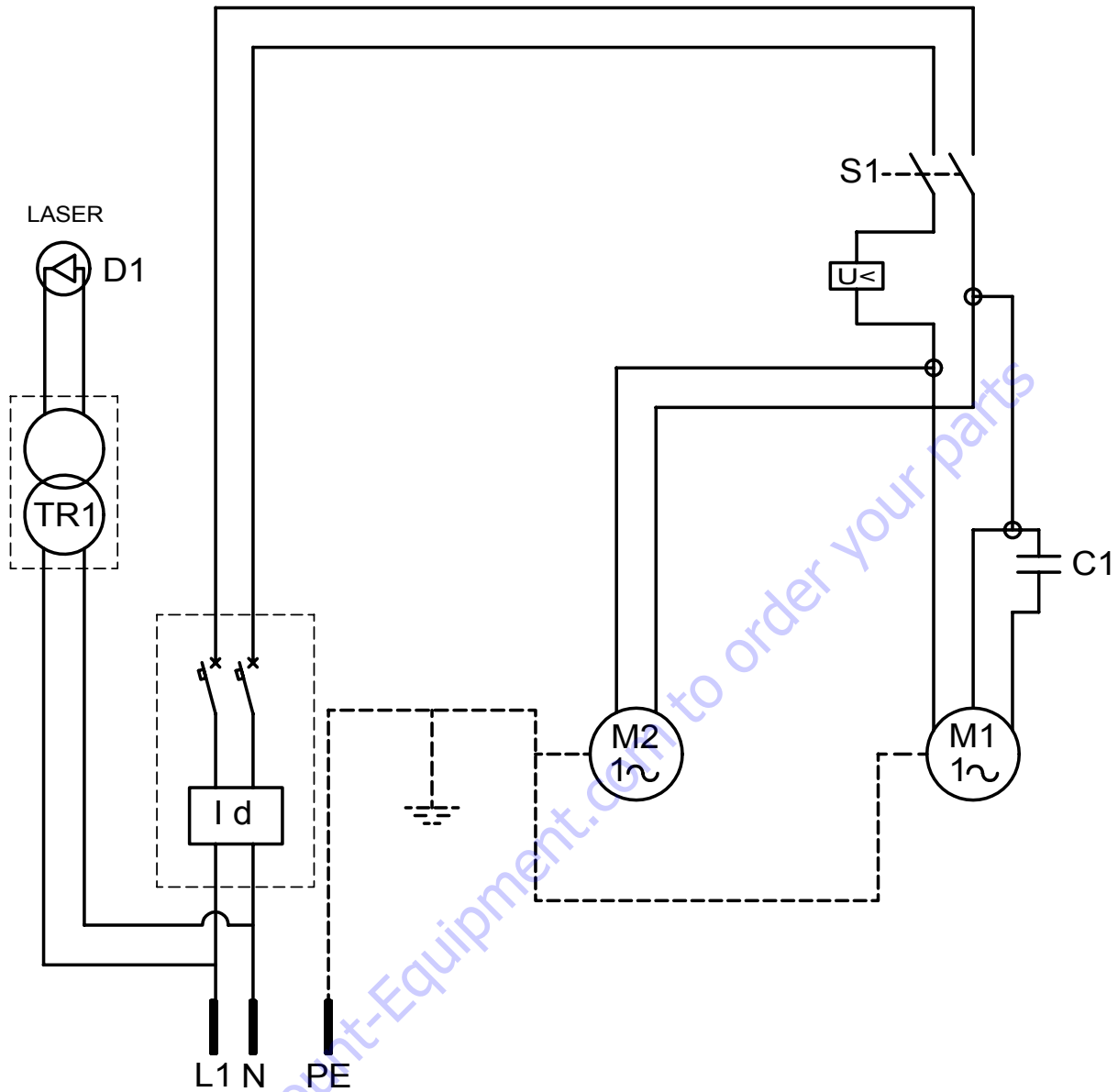
TAV 3-BIS - HANDLE GROUP			
RIF.	COD.	DESCRIPTION	NOTE
1	2288885	HANDLE	
2	3234889	HANDLE	
3	3234892	CONNECTING PLATE	
4	3234891	CONNECTING PLATE	



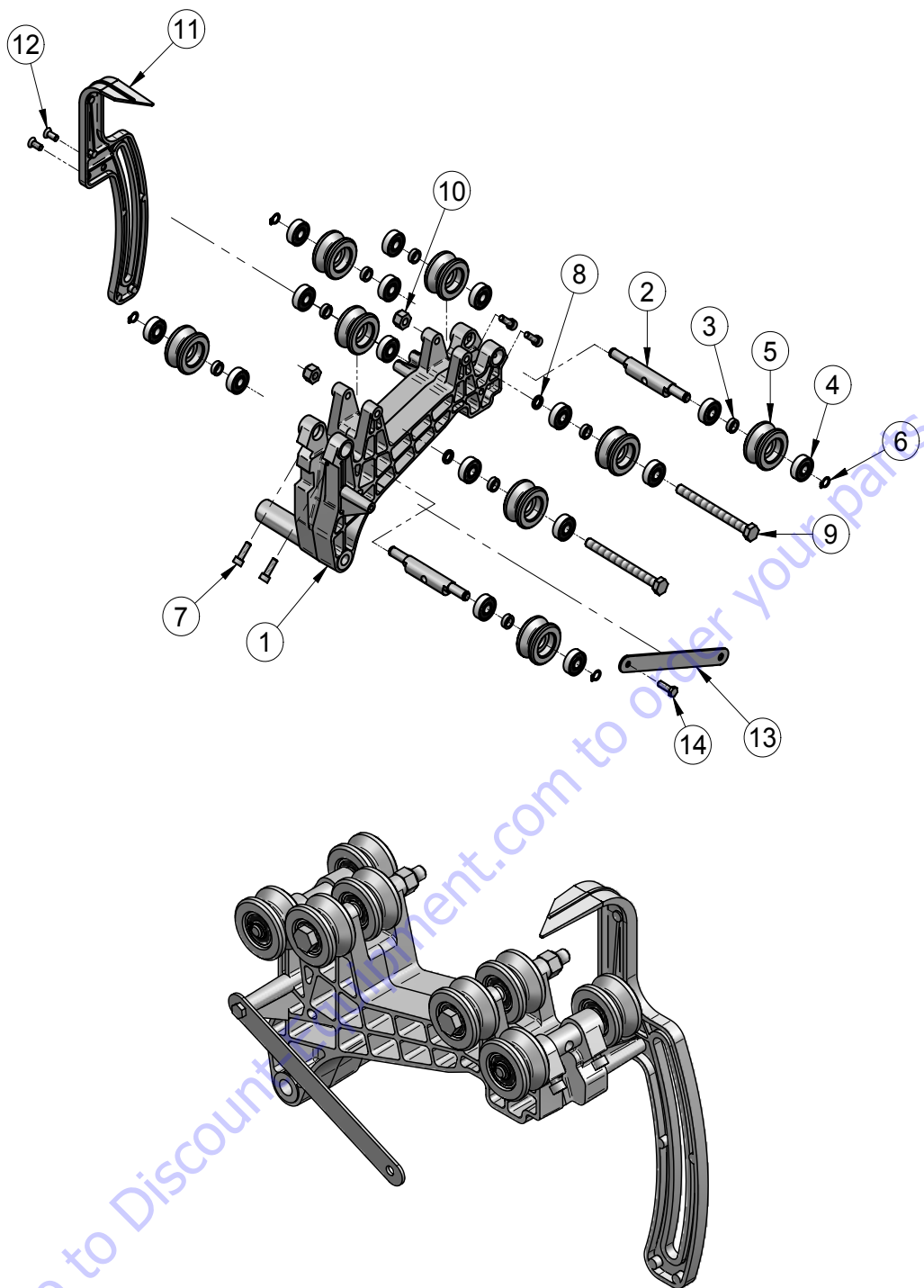
TAV. 4 - BLADE PROTECTION MOTOR ASSEMBLY			
REF.	CODE	DESCRIPTION	NOTES
1	3230037	MOTOR	
2	3230255	ENGINE SUPPORT	
3	3210087	SPRING	
4	3211935	BLADE GUARD	
5	3210043	SPACER BRACKET	
6	3210238	INNER FLANGE	
7	1193782	BLADE	
8	3210046	OUTER FLANGE	
9	3211933	BLADE GUARD	
10	2224535	WASHER	
11	2222587	BOLT	TSPEI 5933 M8X20
12	3204399	BOLT	TCEI 5931 M5X25
13	3207884	COCK	
14	3209060	BOLT	TE 8.8 5737 M6X35
15	2222001	BOLT	TE 8.8 5737 M4X20
16	2223352	NUT	5588 D.5
17	2223920	NUT	7474 M10
18	2223926	NUT	7473 M4
19	3210050	SPRAY SHIELD	
20	3210053	NUT	5588 M12 Z SX
21	2222541	BOLT	TCEI 5931 M6X25
22	2224380	WASHER	6592 D.12X25
23	2223280	NUT	5588 M6
24	2223924	NUT	7473 M6
25	3230251	BUSHING	GFM-1012-6
26	3230250	GOUPILLE	
27	3230644	FAN COVER	



TAV. 5 - ELECTRIC PANEL			
REF.	CODE	DESCRIPTION	NOTES
1	3227467	JUNCTION BOX	
2	3210114	GASKET	
3	3210231	COVER	
4	3210232	CAPACITOR	
5	3210233	SWITCH	
6	3209340	LEAKAGE PROTECTION	
7	3225596	GASKET	
8	3233422	WATER PUMP	
9	3226095	CABLE GLAND LOCKING RING	PG 16
10	3226101	CABLE GLAND GROMMET	PG 16
11	3226098	CABLE GLAND LOCKING RING	PG 11
12	3226100	CABLE GLAND GROMMET	PG 11
13	3210116	BOLT	TCTC 4,2X16
14	2222540	BOLT	TCEI 5931 6X20
15	3210096	BOLT	TTCQ 5732-65 M8X60
16	2284866	HANDWHEEL	180-40-M8
17	3224630	PLUG + ELECTRIC CABLE	
18	3227508	CABLE CLAMP	PG 9
19	3227487	CABLE GLAND NUT	PG 9
20	3227707	SUPPORT	
21	3227483	ADJUSTMENT BLOCK	
22	3227489	CABLE GLAND NUT	M20x1.5
23	3228250	LASER	
24	3207155	BOLT	TC PH 7687 M4X10
25	3227482	COVER	
26	3228251	POWER SUPPLY	
27	2222424	BOLT	TC PH 6954 4.2X9.5



WIRING DIAGRAM	
REF.	DESCRIPTION
S1	CONTROL SWITCH
C1	CAPACITOR
PE	EARTHING CABLE
N	NEUTRAL LINE CABLE
L1	PHASE LINE CONDUCTOR
M1	BLADE MOTOR
M2	PUMP MOTOR
ID	CURRENT CIRCUIT BREAKER
TR1	POWER SUPPLY
D1	LASER EMITTER



TAV. 6 - CARRIAGE			
REF.	CODE	DESCRIPTION	NOTES
1	3210031	CARRIAGE	
2	3210032	CAM	
3	3207393	SPACER BRACKET	
4	3204945	BEARING	608 2RS1
5	3207397	WHEEL ASSEMBLY	
6	3210627	RING	
7	3210036	BOLT	TCEI 5931 M5X16
8	3210622	SPACER BRACKET	
9	2222114	BOLT	TE 5737 M8X90
10	2223923	NUT	7473 M8
11	3210028	CARRIAGE BLOCK	
12	3210105	BOLT	TSP PH M5X12
13	3210029	BLADE GUARD	
14	2222000	BOLT	TE 5739 M5X16

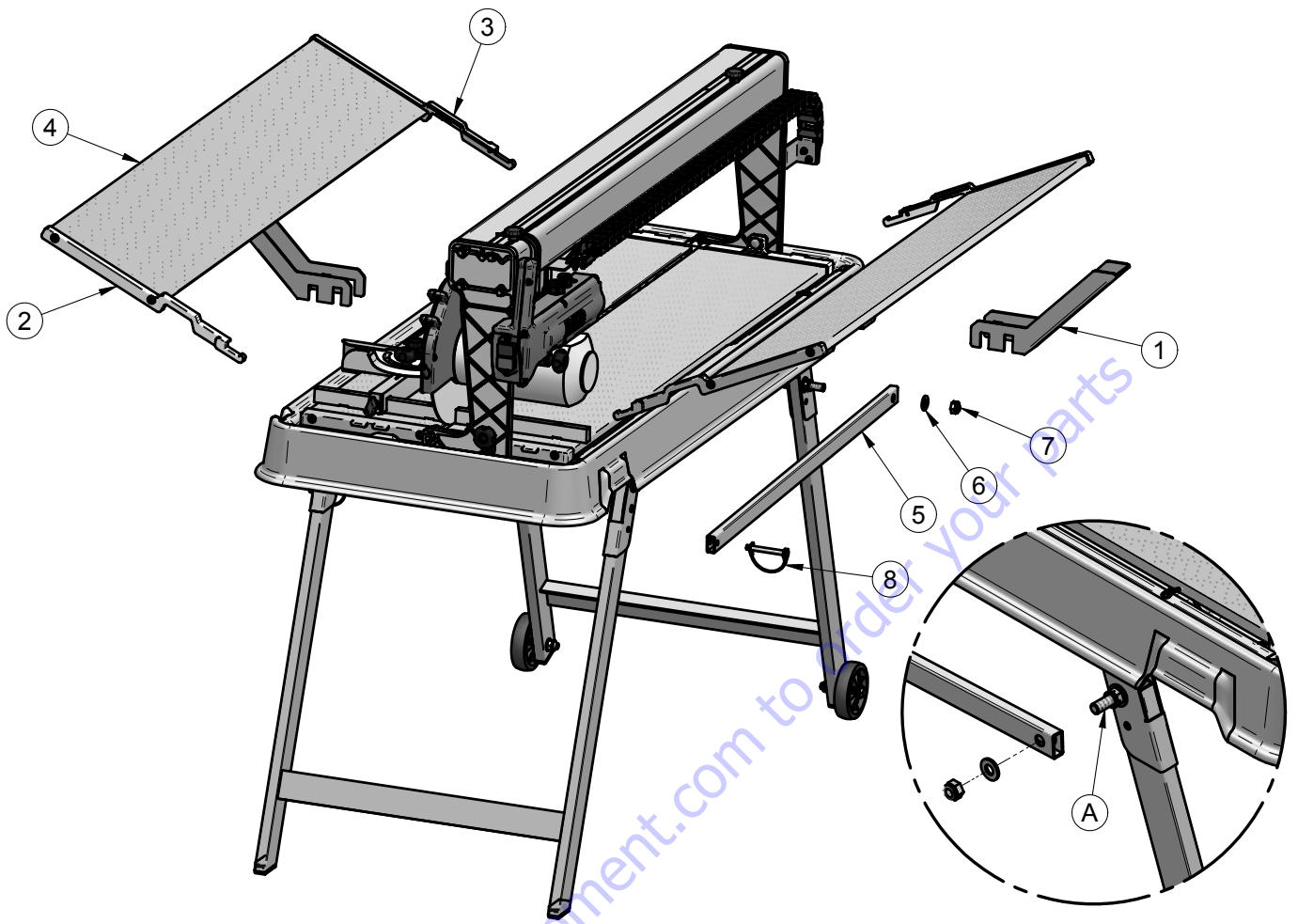
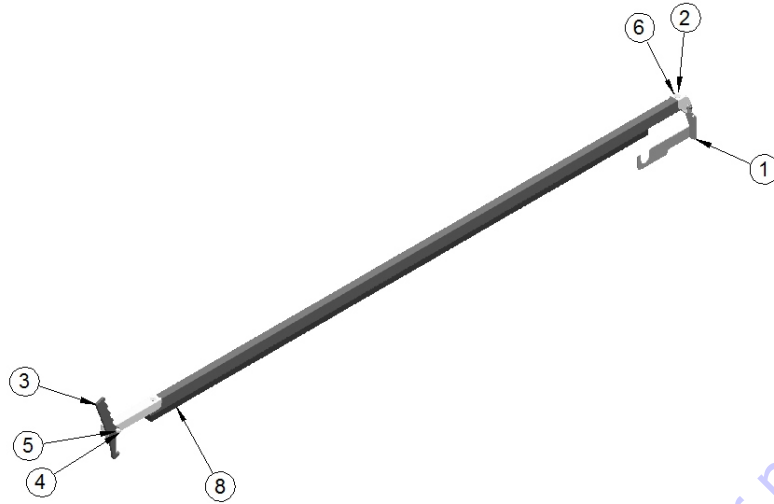


FIG. 6

COD.1188177		TAV. 7 - SIDE ROLLER	
REF.	CODE	DESCRIPTION	NOTES
1	3229847	SUPPORT	
2	3226145	SUPPORT	
3	3226146	SUPPORT	
4	3226952	SIDE ROLLER	CM250/1000 VA
	3234832		CM250/1500 VA
5	3229851	SUPPORT	CM250/1000 VA
	3234833		CM250/1500 VA
6	2224380	WASHER	6592 D.12X25 Z
7	2223921	NUT	7474 M12
8	3223143	PIN	8X70 Z



COD.1188159		DESCRIPTION	
RIF.	COD.		NOTE
1	3226949	PUMP BRACKET	
2	3234969	ROD	
3	3234974	SHEET	
4	2222013	M 6 X 40Z UNI-5737	
5	2223924	SELF-LOCKING NUT M6	
6	3235155	HANDWHEEL M6X40	
7	2223260	NUT	5587 M6
8	3234968	SEAL	20X15

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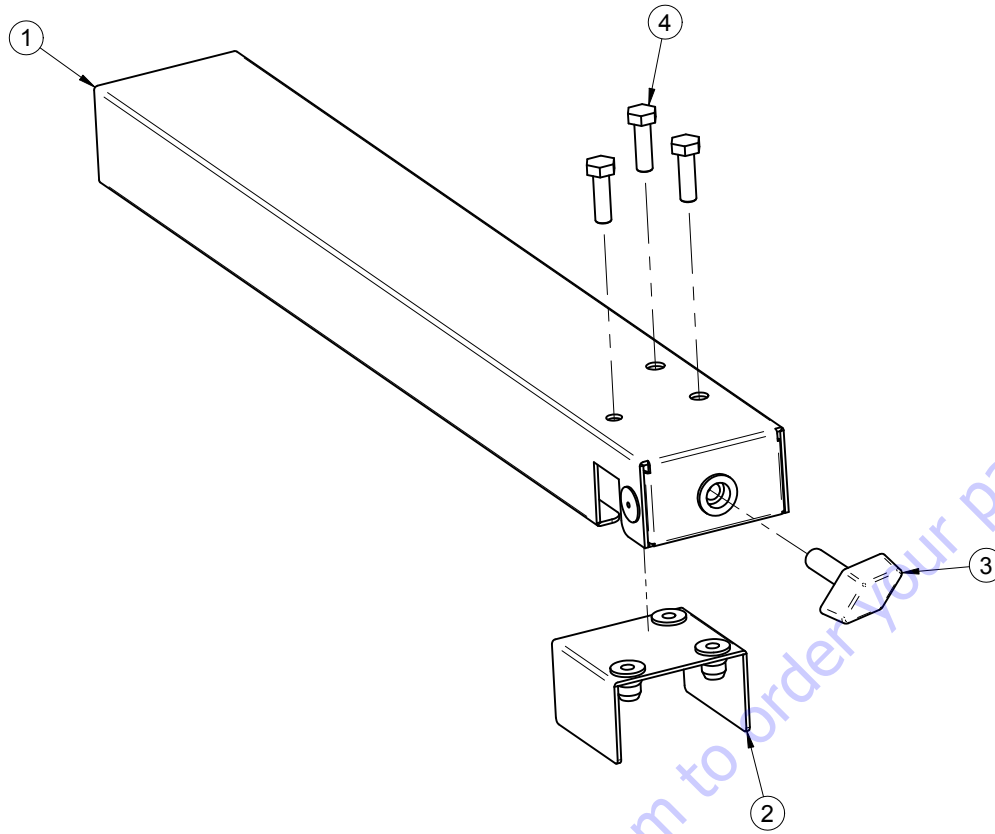


FIG. 8

COD.3235758		TAV 8: RIP GUIDE	
RIF.	COD.	DESCRIPTION	NOTE
1	3235757	STOP	
2	3235756	SHEET	
3	3211381	HANDWHEEL	M8X30
4	2222016	BOLT	M 6 X 40Z UNI-5737

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