



Operator's Instruction Manual
ELECTRIC POWER TROWELS

STANDARD, VARIABLE AND REDUCED SPEED



TO PURCHASE THIS PRODUCT PLEASE CONTACT US



**Equipment Financing and
Extended Warranties Available**



**Discount-Equipment.com is your online resource for
commercial and industrial quality parts and equipment sales.**

561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar



READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.



Death or serious injury could occur if this machine is used improperly.



SAFETY MESSAGES

- Safety Instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.



Indicates an imminent hazard which, if not avoided, will result in death or serious injury.



Indicates an imminent hazard which, if not avoided, can result in death or serious injury.



Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE/PROPANE POWERED EQUIPMENT



- Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



- Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

- Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline or propane powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, headache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

ELECTRICAL POWERED EQUIPMENT



Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to **all** local codes and ordinances.
- NOTE:** In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.
- Switch motor OFF **before** disconnecting power.

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing.

GENERAL INSTRUCTIONS

- Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the **operators' responsibility** to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
- This equipment is intended for commercial use only.
- For the operator's safety and the safety of others, always keep all guards in place during operation.
- Never let equipment run unattended.



- Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection **MUST** be used (operational noise levels of this equipment may exceed 85db). Eye protection **MUST** be worn at all times.



Keep body parts and loose clothing away from moving parts. Failure to do so could result in dismemberment or death.

- Do not modify the machine.
- Stop motor/engine when adjusting or servicing this equipment.



Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

DUST WARNING



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

- Lead from lead-based paints, and
- Crystalline silica from bricks and concrete and other masonry products.

Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.



Table of Contents

Specifications	3
Safety Guidelines	4
Starting the Trowel	5
Operating the Trowel	6
Adjusting the Blade Angle	6
Quick Pitch Adjustment	6
Transporting the Trowel	7
Adjusting the Handle/Belly Bar	8
Tote-A-Trowel	8
Installing Bolt-on Blades	9
Lubricating the Trowel	10
Maintenance Schedule	11
Warranty	12

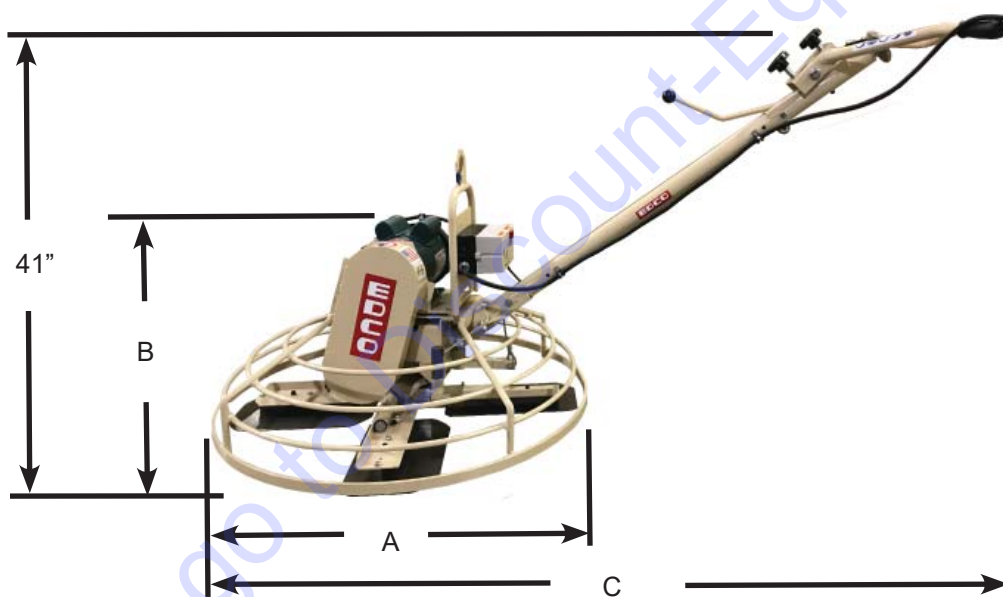


Figure 1

Specifications & dimensions are approximate and subject to change.

Diameter	24" 61 cm	30" 76 cm	36" 91 cm	46" 116 cm
A	26" 66 cm	31" 79 cm	36 1/2" 93 cm	46" 117 cm
B	24" 61 cm	24" 61 cm	24" 61 cm	26 1/2" 67 cm
C	63 1/2" 140 cm	66" 167 cm	69" 175 cm	74" 188 cm
Weight	175 lbs. 79 kg	193 lbs 88 kg	212 lbs 96 kg	280 lbs 127 kg



Read and understand the *Operator's Manual*,
and the *Engine Manufacturer's Owner's Manual*
before operating this equipment.



Death or serious injury can result if this machine is used improperly.

Safety Guidelines



Keep hands and feet away from moving blades.
Never allow a person to act as a weight for this machine.
Death or serious personal injury can result from the moving parts of the trowel.

Operating Instructions

This manual focuses on the safe operation of various EDCO Power Trowels. It does not detail the techniques, specific uses or applications of each different type, configuration and option package. Consult Discount-equipment representative to discuss your specific needs.

Before Starting:

- Verify the correct blades for the job have been chosen and that they are properly installed. Inspect the blades carefully for damage.
- Be certain the blade path is free of obstructions and the area is clear for operation.
- Visually inspect the trowel. Check that all fasteners are secure and mechanical parts are in proper working order.
- Carefully transport the trowel into position for use according to the instructions on page 7 or page 8, if using the optional Tote-A-Trowel™.
- EDCO Electric Power Trowels are shipped with a twistlock, grounded, male plug attached to the machine and a female mating connector which a qualified licensed electrician should attach to a user-supplied extension cord. Verify that the extension cord is sized appropriately for the electrical load and that it is properly grounded.

Important Electrical Precaution



- Identify the electrical power requirements of the trowel. The voltage requirements of the motor can be found on the motor data plate.

Safety warnings and guidelines do not by themselves eliminate danger.
They are not given as substitutes for proper accident prevention and good judgement.



Starting the Trowel

Reduced Speed and Standard Electric Power Trowels (Figure 3):

- Verify power switch is in the OFF position before plugging machine into power source.
- After checking that blades are free from obstructions and machine is in position, firmly hold the trowel handle with one hand and switch on the power with the other.
- Slowly squeeze the On/Off Lever to allow machine to reach full operating speed.

Variable Speed Electric Power Trowels (Figure 4):

- Verify power switch is in the OFF position before plugging machine into the power source.
- While firmly holding the trowel handle with one hand, depress the ON button on the starter box located near the top of the handle.
- If the blades do not turn, while continuing to firmly hold the handle with one hand, check the speed control knob. The speed control knob can be adjusted to zero speed. To adjust, turn the knob clockwise to increase the speed and counterclockwise to decrease the speed.
- If the blades still do not turn, depress the OFF button and unplug the power cord at the machine before investigating the problem.
- To shut off the trowel, depress the OFF button on the starter box.

CAUTION Do not use the speed control knob to shut off the trowel because the trowel will still be energized and may be inadvertently activated causing serious bodily injury and damage to the equipment.

Hint: Start the epoxy trowel with the speed control knob in the center position, then adjust according to job conditions. It is recommended that the blades be rotating before moving onto the epoxy surface.

Reduced Speed and Standard Electric Power Trowel.

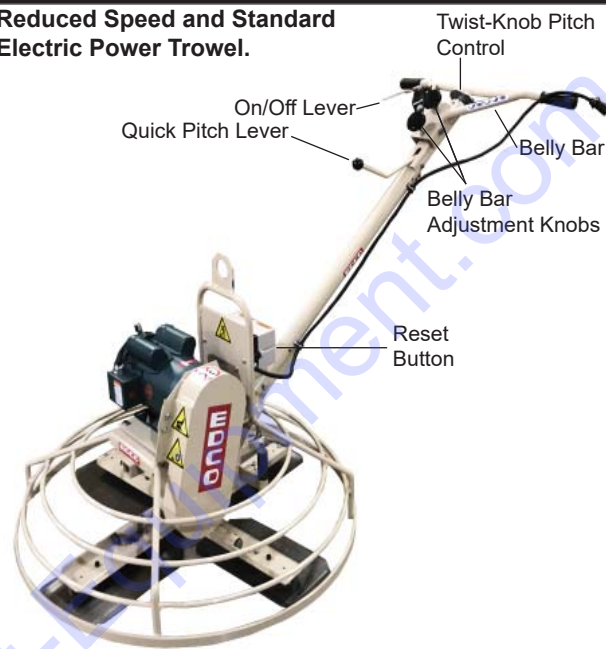


Figure 3

Variable Speed Electric Power Trowel

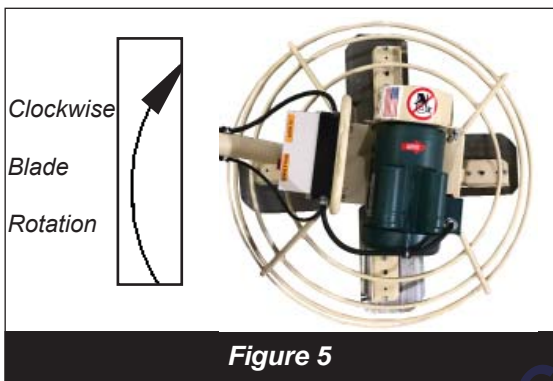


Figure 4



Operating the Trowel:

- The blades of the Trowel spin in a clockwise direction (Figure 5).
- All EDCO Power trowels are directed left or right by applying a slight upward (lifting) or downward (lowering) pressure on the handle (respectively). or combination of both (to move front to back).
- Example, An upward pressure on the handle will put more pressure on the blade furthest from you and that blade will push the trowel to the left.
- Example, A downward pressure on the handle will put more pressure on the blade closest to you and that blade will push the trowel to the right.
- Example, Slightly up with right hand and down with the left hand will put more pressure on the left side blade and will move the trowel backwards.



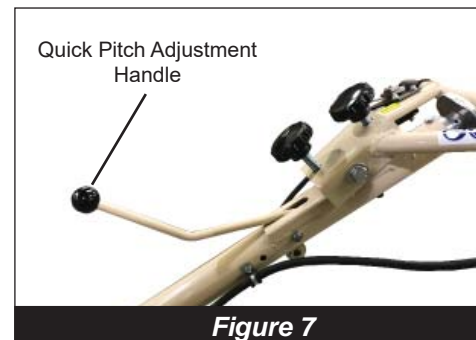
Adjusting the Blade Angle:

- Rotate the blade adjustment knob (located on the top end of the trowel handle) clockwise to tilt the blades and counterclockwise to flatten the angle of the blade. (Figure 6)
- Adjustment is based on the desired performance for the specific job application.



Quick Pitch Adjustment:

- Once the desired blade angle is determined the blades can be tilted aggressively by pulling up and back on the Quick Pitch Lever (Figure 7). This will allow the operator to gather more material to fill depressions. When complete, release the lever the blades will return to the previously set angle.



and



Transporting the Trowel:



- Unplug the motor before transporting the trowel.
- Only lift trowels that are equipped with a lifting bail (Figure 8). When lifting the trowel, use proper lifting equipment and techniques.

Clear the immediate area of co-workers and bystanders before lifting the trowel. Never lift the trowel over areas where people are standing or working. Should any parts of the trowel fall off or should the trowel itself fall while being lifted, serious injury or death could occur.

- Do not drop the trowel onto the blades. Damage to the equipment can result.



Figure 8

Manual Lifting:

- When lifting the trowel by hand, practice proper lifting techniques. The weight of the trowel is listed on page 3.
- Insert square end of Lifting Handle into the socket on front of the deck.

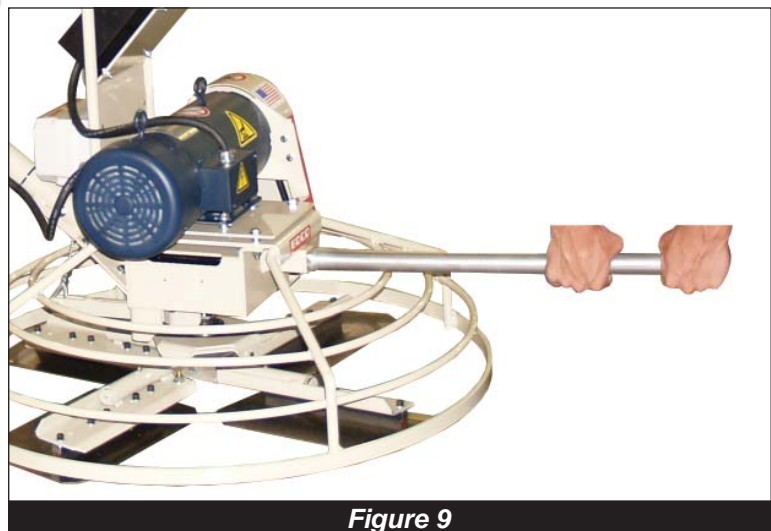


Figure 9

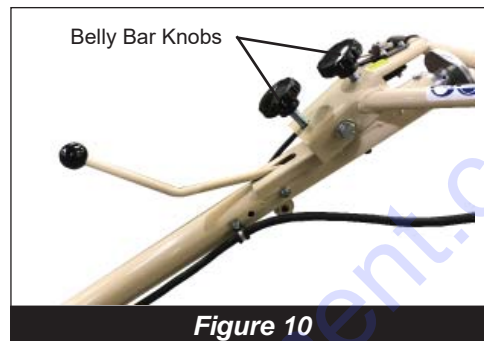
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

NOTICE



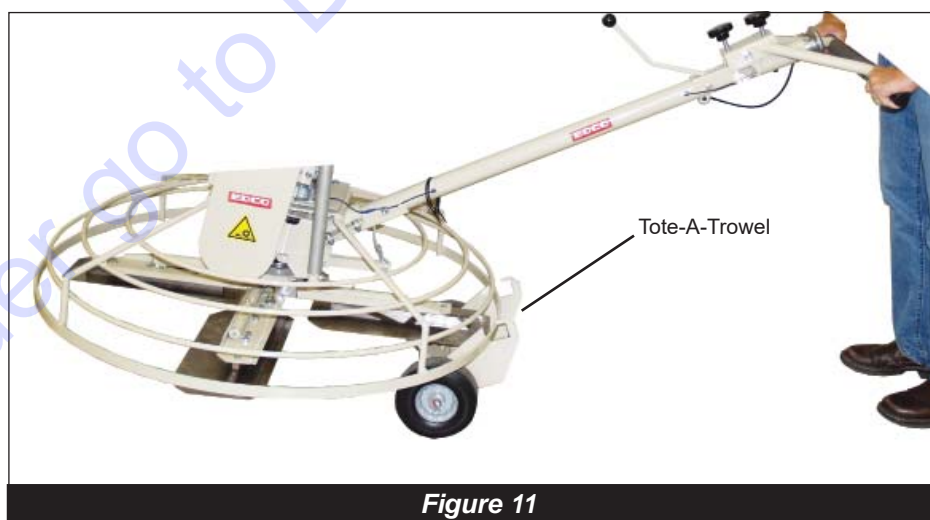
Adjustable Handle/Belly Bar:

- To adjust the Belly Bar higher loosen the bottom handle knob and tighten the top handle knob. When the desired handle height is achieved tighten both knobs(Figure 10).
- To adjust the Belly Bar lower loosen the top handle knob and tighten the bottom handle knob. Again, when the desired height is achieved tighten both knobs.



Tote-A-Trowel Transporting System:

- Rotate the handle until one blade is directly under the handle.(Figure 11)
- Set the Tote-A-Trowel directly behind that blade and hook it to the outside bottom ring of the trowel.
- Lift the handle and allow the Tote-A-Trowel to pivot under the trowel blade.
- Apply downward pressure on the handle until all the weight of the trowel is riding on the wheels of the Tote-A-Trowel.
- Reverse this procedure to release the Tote-A-Trowel.



NOTICE

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

NOTICE



Maintenance Instructions



Before performing any maintenance be sure to disconnect the machine from the power source by unplugging the supply voltage connector at the machine.



Be sure equipment is supported securely when performing maintenance.
Always work on a flat level surface.

- All maintenance must be performed regularly by qualified personnel.

Installing Bolt-on Blades:

- Align the blade with the holes in the adapter bar and trowel arm.
- Insert 5/16-18 hardware with lock washer through blade arm and adapter bar from above and tighten into blade arm (Figure 12).

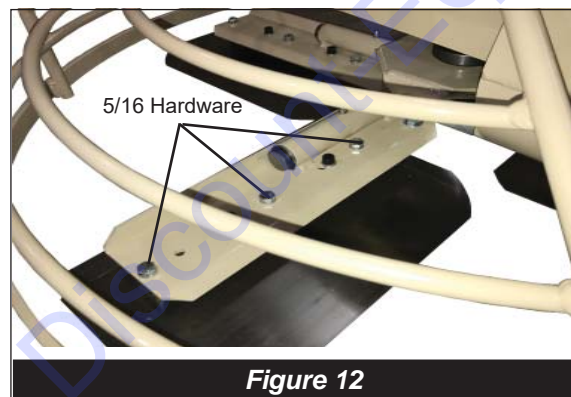


Figure 12

Note: Different blades are available for different applications. Blade types include Combination, Float, and Finishing. Trowel blades are available in high carbon steel, stainless steel and plastic. They are also available with a Quick-Change bracket.

Consult Discount-equipment representative to discuss your specific needs.

EXTREMELY IMPORTANT!: BLADES MUST BE REPLACED AS A SET!

- Trowels are available in sets of three or four blades. Blades may be used on several jobs until worn away or damaged, but it is extremely important to replace the blades as a complete set - even if only one blade is showing wear or damage. Blades wear differently depending on different jobs and a difference in blade size will damage the finish of the slab surface.

Cleaning the trowel after use:

- Clean the entire trowel, blades and adapter thoroughly after use. The blades can usually be cleaned with a high pressure hose and water while the concrete is still wet.
- Replace decals immediately that are worn, missing, or damaged.



Lubricating the Trowel:

- The trowel arms must be lubricated every 50 hours. Pump a small amount of Lubriplate 630-2 or equivalent grease into the fittings.
- After each use, lubricate the spring on the adapter.
- Periodically, grease the threaded rod located inside the handle, for the blade tilt.
- For models equipped with the LEV-L-IT™ system, lubricate the joints with a spray lithium grease.
- The transmission has been pre-lubricated. Occasionally check the level of the lubricant in the transmission especially if signs of leakage appears around the shaft seals.
- After 2500 hours of operation, drain the transmission and refill with 140W gear oil. Fill to the level of the side plug in the transmission with the trowel blades resting on a flat level surface.

Note: Choose an appropriate lubricant carefully. Wipe off excess lubricant from trowel blade arms and trowel parts. Some lubricates should not be used on epoxy mortar trowels because they may drip onto the wet epoxy and affect the finished floor surface.

Belts:

- Inspect the belts before operation: Checking the belt tension must be done with the clutch in the engaged position. The centrifugal clutch models automatically tension the belt. This requires two people. On new equipment belts should be re-tensioned after the first four hours of use. Damaged, stretched or excessively worn belts should be replaced with a new matched set.
- To adjust the belt tension, loosen the engine/motor mounting hardware and push the engine/motor until the belts are tight.
- Verify that the sheaves are aligned properly, then tighten the hardware.

Note: Proper belt tension must be maintained to transmit the engine power to the transmission. Slipping (loose) belts will overheat and the belt life will be shortened. Over tensioned belts will shorten the life of the belts and the bearings.



Maintenance Schedule

Operator Check List	Before Operation	Inspect & Clean Before Every Operation	After Use	Every 50 Hrs. of Operation	As Required	Every 2500 Hrs. of Operation
Visual Inspection of Entire Machine	X					
Inspect Belts	X					
Belt Tensioning					X	
Clean Machine			X			
Grease Transmission						X
Lubricate Springs					X	
Grease Arms				X		

WARNING

“DO IT RIGHT” OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY

WARNING

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



**Equipment Financing and
Extended Warranties Available**



**Discount-Equipment.com is your online resource for
commercial and industrial quality parts and equipment sales.**

561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar